

SERIES CATALOGUE

unika

C & G

Shavings Collection System

Safety Precautions



WARNINGS

- ❑ Wear working clothes suitable for the operation. In particular, eye protection equipment must be worn to prevent shavings from getting into your eyes.
- ❑ Prepare the working environment before starting the job. Be careful to consider safety when working in high places, being close to inflammable materials, in dark places, in rain, in wet place, on scaffolding. Consider falling, fires, electric shock, etc.
- ❑ Be sure to check if there are any defects in the product before use. Never use the product if it has any defect.
- ❑ Be sure to turn off the main switch of the drill and disconnect the power supply plug from the socket before attaching and detaching the product.
- ❑ Do not touch the product, the shavings, or the drilled surface by hand because they may be hot by drilling friction.
- ❑ Never remodel or modify the product.
- ❑ Do not touch moving parts, especially the drill tip or blades.
- ❑ When you feel anything unusual in use, stop using the product and inspect it as well as the electrical drill.
- ❑ When using the product for any other application than is specified, be sure to contact UNIKA.
- ❑ Carefully read the instruction manual of the electrical drill used before using the product.



CAUTION

- ❑ Do not allow any person other than the working staff to enter the working place.
- ❑ Do not touch the blades by hand because they are very sharp.
- ❑ Please read handling description well when changing and assembling.
- ❑ Use spare parts that comply with the product specification.
- ❑ The product and its size must be appropriate for the specification of the electrical drill used.



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Tài liệu được tổng hợp bởi đội ngũ kỹ thuật của **NPOWER** Bản quyền nội dung thuộc về công ty **Unika**

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The products carried by this catalog, specifications, etc. may be changed without preliminary announcement .

The products carried in this catalog may be different in color than the actual item.

Shavings Collection System Q bit UX



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An example of application



5

Q bit UX Q SX Type (SDS shank)



6

Q bit UX Q HX Type (HEX shank)



7

Q bit UX Q MX Type (SDS-max shank)



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The C&G Series is UNIKA's newest product series proposal designed with the objective of realizing an ideal work site environment for the future from the standpoint of a manufacturer of advanced tools, particularly by developing products that provide a "clean and comfortable environment for workers and the people around them."



No Shavings! Easier Working!

- It is thought that shavings are inevitable to drilling work, but our new type "Q Bit" has put an end to such a concept. This Q Bit draws in concrete shavings very powerfully while drilling. It ensures the user a comfortable and clean working environment, free from shavings from drilling.
- The efficient Shaving Collection System with no friction loss allows most of the shavings produced to be drawn in.
- Operating efficiency greatly improved by simplified cleaning in the holes for anchor bolt installations. Prevents deterioration of anchor adhesiveness and coming out due to the omission of cleaning inside holes.

*This product is only for the dry type. This product cannot be used in water or in highly damp places.

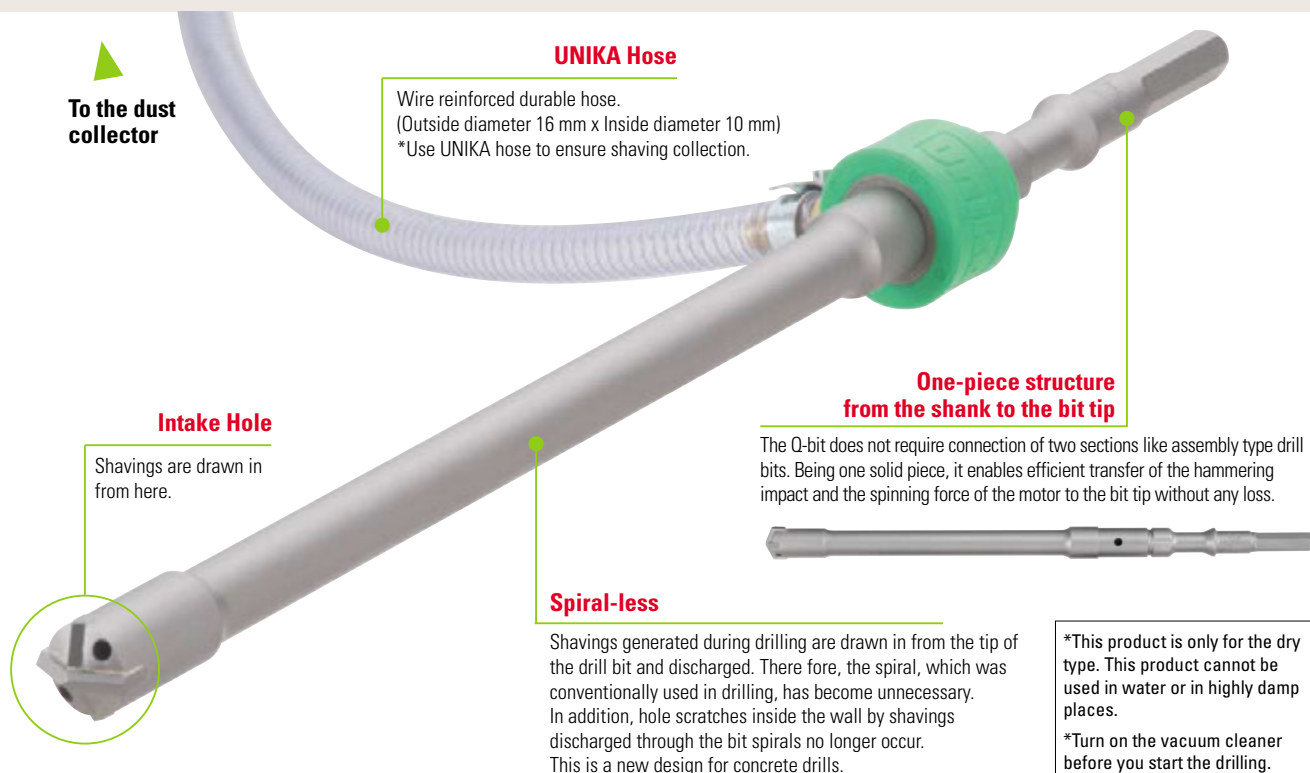
*Turn on the vacuum cleaner before you start the drilling.



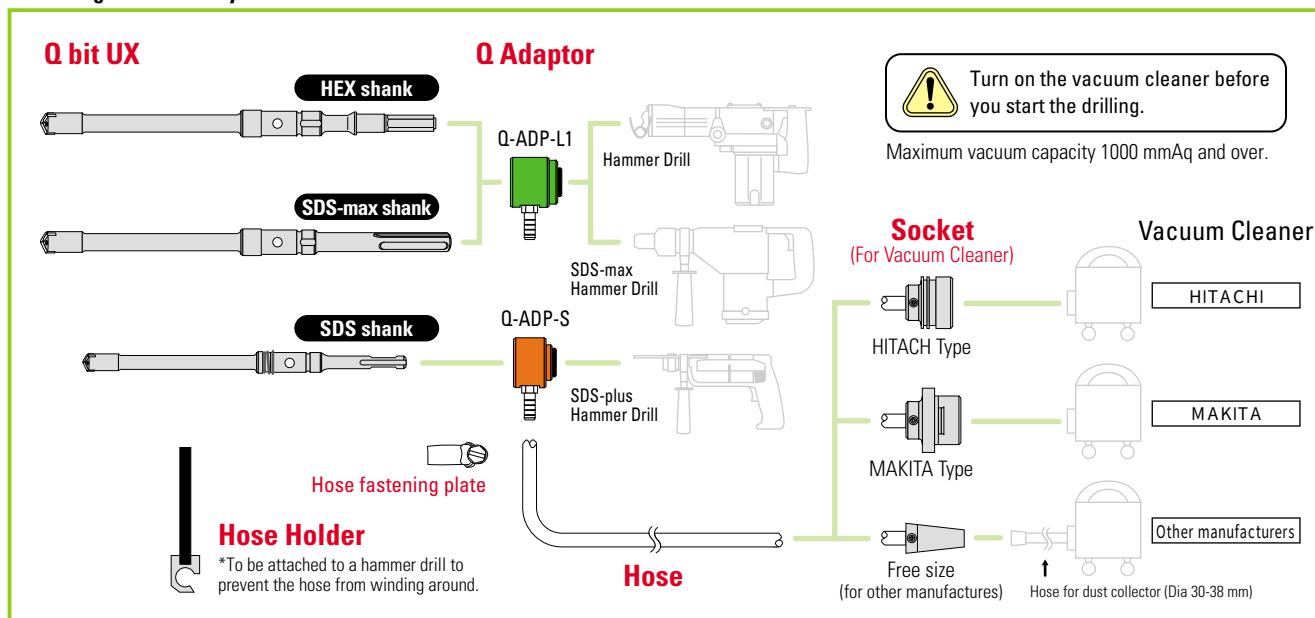
STEEL DECK PLATE + CONCRETE

BLOCK / BRICK

MORTAR



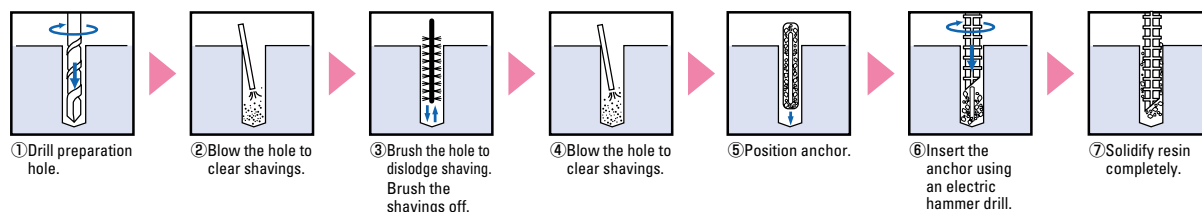
Shavings collection system outline



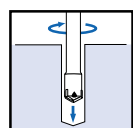
Easy installation of anchor bolts.

With the rapidly increased demand for anchor bolt installations, improvement in operating efficiency is realized by simplifying processes to clean shavings in holes (blowing - brushing - blowing). In addition, the system prevents the deterioration of anchor adhesiveness due to the omission of cleaning inside holes.

Conventional Method (Sealed Capsule Type)



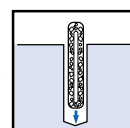
With Q bit UX



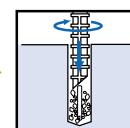
① Drill preparation hole.

Concurrently cleans hole with vacuum action.

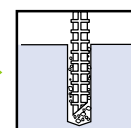
* Our adhesive HC type anchor (Hammered-in type) allow an even easier installation process. The rod being inserted need not be slashed at the tip. Also, only a regular hammer need be used, not an electric hammer drill. For the details, please contact Unika.



② Position anchor.



③ Insert the anchor using an electric hammer drill.



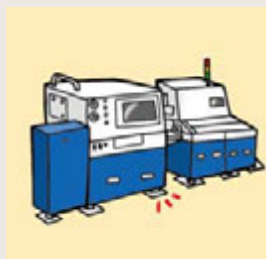
④ Solidify resin completely.

Q bits plays an active part in all enclosed work locations that can become dusty.



Upward work on a ceiling.

It eliminates particles from falling in one's eyes and face.



Drill work in doors.

The indoor work protection against dust is also unnecessary. Clearing up is also unnecessary.

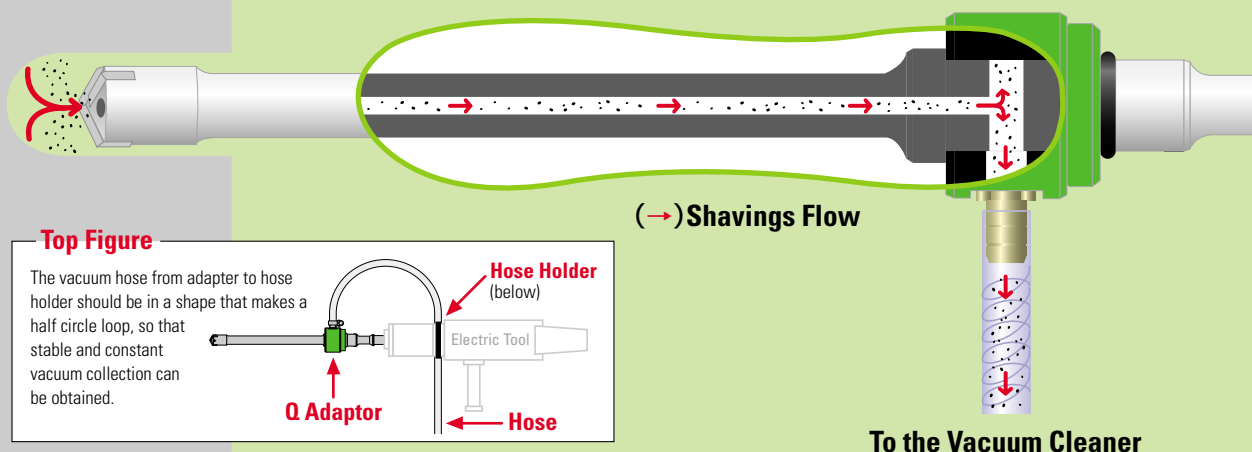


Closed in places like tunnel etc.

Work environment in closed in places, such as the interior of a tunnel, improves remarkably.

Shavings collecting mechanism

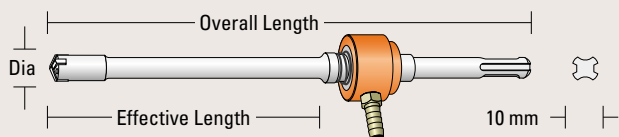
Generated dust will be collected directly into the vacuum port at the top of the Q bit during drilling. The drilled concrete dust will be collected via the hollow drill bit body and through the attached vacuum hose.



- With the aid of a high efficient vacuum collecting system with low drag, almost all of the generated dust and shavings can be vacuum extracted.
- By the aid of newly designed holes and cross shaped tips, vacuum extraction has become more efficient.
- Adopting the new Q adapter with a spring enables it to be detached easily.



Applicable Electric Tool Rotary Hammer Drill (SDS-plus)



STEEL DECK PLATE + CONCRETE

BLOCK / BRICK

MORTAR

Q SX Type (SDS shank)

Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)
QSA10.0X260	10.0	260	130
QSA10.5X260	10.5		
QSA12.0X260	12.0		
QSA12.5X260	12.5		
QSA12.7X260	12.7		
QSA13.0X260	13.0		
QSA14.0X260	14.0		
QSA14.3X260	14.3		
QSA14.5X260	14.5		
QSA15.0X260	15.0		
QSA16.0X260	16.0		
QSA16.5X260	16.5		
QSA17.0X260	17.0		
QSA17.5X260	17.5		
QSA18.0X280	18.0	280	150
QSA19.0X280	19.0		
QSA20.0X280	20.0		
QSA21.5X330	21.5	330	200
QSA22.0X330	22.0		
QSA22.5X330	22.5		

⚠ Precautions on use

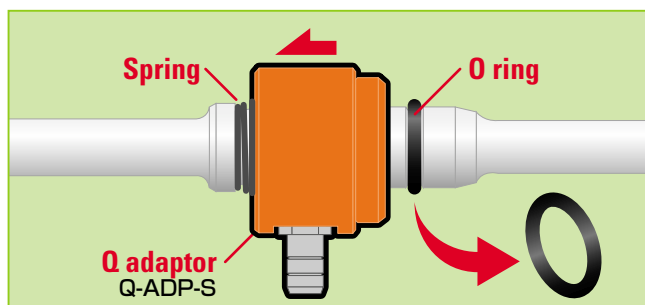
- This product is only for the dry type. This product cannot be used in water or in highly damp places.
- Turn on the vacuum cleaner before you start the drilling.

Hose Holder

Code	Application
Q-HLD	Holder which prevents rotation of the hose

● New Q adapter mechanism (Q SX type) for detaching

Adopting a new Q adapter with a spring enables an O ring to be detached easily when necessary.



Q adaptor set (For SDS shank)

Code	Set Contents
Q-ADP-S	Q adaptor (For SDS) Backup ring/O ring (2 pcs) Hose holder/Hose fastening plate

Socket (for vacuum cleaner)

Code	Available Manufacturers	
QSKTH	HITACHI	
QSKTM	MAKITA	
QSKTF	Free size (for other Manufacturers)	

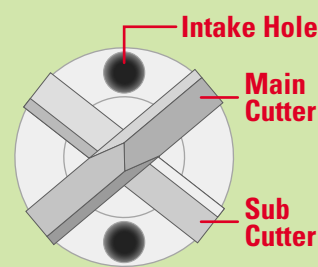
Hose (of UNIKA make)

Outer dia: 16 mm x Inner dia: 10 mm

Code	Hose Length (mm)
QHOS-3M	3
QHOS-5M	5
QHOS-10M	10

● Dust collecting vacuum port and cross tip

The Q Bit can vacuum up concrete dust powerfully right after drilling in concrete and the cross design of the tips can make holes close to a perfectly round circle.

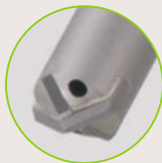


Shavings Collection System

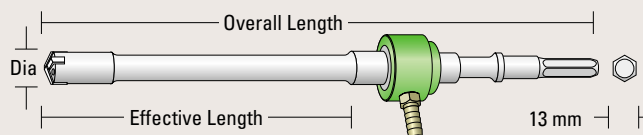
Q bit UX

HEX shank

- With the aid of a high efficient vacuum collecting system with low drag, almost all of the generated dust and shavings can be vacuum extracted.
- By the aid of newly designed holes and cross shaped tips, vacuum extraction has become more efficient.
- Even if the drill hits a rebar, the bit won't be stuck because of the cross shaped tips. Smooth drilling can be obtained by less tip-end wear, and it drills around the rebar.



Applicable Electric Tool Hammer Drill



**CONCRETE
BLOCK / BRICK**

**STONE
MORTAR**

QHX Type (HEX shank)

Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)
QHX12.5X320	12.5	320	130
QHX12.7X320	12.7		
QHX13.0X320	13.0		
QHX14.0X320	14.0		
QHX14.5X320	14.5		
QHX15.0X320	15.0		
QHX16.0X320	16.0		
QHX17.0X320	17.0		
QHX18.0X340	18.0	340	150
QHX19.0X340	19.0		
QHX20.0X340	20.0		
QHX21.5X400	21.5	400	210
QHX22.0X400	22.0		
QHX24.0X400	24.0		
QHX25.0X400	25.0		
QHX26.0X400	26.0		
QHX28.0X440	28.0	440	250
QHX30.0X440	30.0		
QHX32.0X490	32.0	490	300
QHX34.0X490	34.0		

QHX Type Long (HEX shank)

Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)
QHX16.0X400	16.0	400	210
QHX20.0X440	20.0	440	250
QHX24.0X490	24.0	490	300
QHX25.0X440	25.0	440	250
QHX25.0X490		490	300

Hose Holder

Code	Application
Q-HLD	Holder which prevents rotation of the hose

Q adaptor set (For HEX/SDS-max shank)

Code	Set Contents
Q-ADPL1	Q adaptor (For HEX/SDS-max) Backup ring / O ring (2 pcs) Hose holder / Hose fastening plate

Socket (for vacuum cleaner)

Code	Available Manufacturers
QSKT-H	HITACHI
QSKT-M	MAKITA
QSKT-F	Free size (for other Manufacturers)

Hose (of UNIKA make)

Outer dia: 16 mm x Inner dia: 10 mm

Code	Hose Length (mm)
QHCS-3M	3
QHCS-5M	5
QHCS-10M	10

Shavings collection system

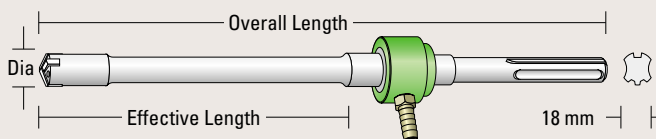
Right after drilling in concrete material by the Q-bit, the generated dust and shavings can be extracted through an entry port at the top of the Q-bit, collected via the hollow body of the drill bit and through an attached hose to the vacuum collector. The excellent collecting system of the Q-bit makes it possible to collect almost all of the dust and shavings at the top by using this collecting device. Operators can be freed from a poor working environment or be covered with dust when working on a ceiling overhead.



- With the aid of a high efficient vacuum collecting system with low drag, almost all of the generated dust and shavings can be vacuum extracted.
- By the aid of newly designed holes and cross shaped tips, vacuum extraction has become more efficient.
- Even if the drill hits a rebar, the bit won't be stuck because of the cross shaped tips. Smooth drilling can be obtained by less tip-end wear, and it drills around the rebar.



Applicable Electric Tool SDS-max Hammer Drill



**CONCRETE
BLOCK / BRICK**

**STONE
MORTAR**

QMX Type (SDS-max shank)

Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)
QMX14.5X325	14.5	325	130
QMX16.5X325	16.5		
QMX17.0X325	17.0		
QMX17.5X325	17.5		
QMX19.0X345	19.0	345	150
QMX21.5X405	21.5	405	210
QMX22.0X405	22.0		

QMX Type Long (SDS-max shank)

Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)
QMX15.0X405	15.0	405	210
QMX16.0X405	16.0		
QMX18.0X445	18.0	445	250
QMX20.0X445	20.0		
QMX24.0X520	24.0	520	330
QMX25.0X520	25.0		
QMX28.0X590	28.0	590	400
QMX32.0X590	32.0		
QMX35.0X640	35.0	640	450

⚠ Precautions on use

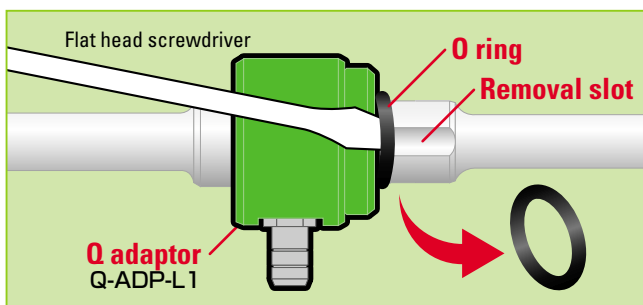
- This product is only for the dry type. This product cannot be used in water or in highly damp places.
- Turn on the vacuum cleaner before you start the drilling.

Hose Holder

Code	Application
Q-HLD	Holder which prevents rotation of the hose

● New Q adapter mechanism (QHX/QMX type) for detaching

Removing the O-Ring has become very easy. Just insert a minus screw driver or similar shaped object into the groove prior to detaching the Q-Adapter.



Q adaptor set (For HEX/SDS-max shank)

Code	Set Contents
Q-ADP-L1	Q adaptor (For HEX/SDS-max) Backup ring/O ring (2 pcs) Hose holder/Hose fastening plate

Socket (for vacuum cleaner)

Code	Available Manufacturers
QSKTH	HITACHI
QSKTM	MAKITA
QSKTF	Free size (for other Manufacturers)

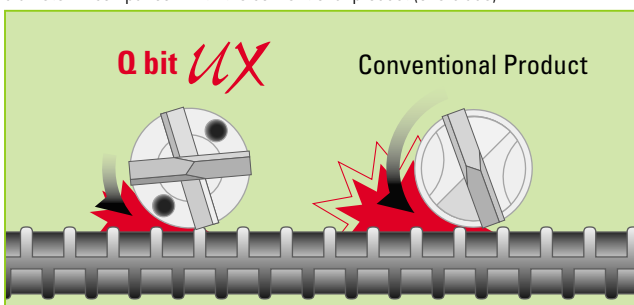
Hose (of UNIKA make)

Outer dia: 16 mm x Inner dia: 10 mm

Code	Hose Length (mm)
QHOS-3M	3
QHOS-5M	5
QHOS-10M	10

● Improvement in reinforced steel resistance performance

Stable drilling ability is maintained because cross blades seize less even when they contact reinforced steel and there is less friction between the cutting edge and outer diameter in comparison with the conventional product (one blade).





www.unika.co.jp

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SERIES CATALOGUE

UR 21

CORE DRILLS

HOLE SAWS

CONCRETE DRILLS

ANCHORS



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SERIES CATALOGUE

unika



CONCRETE DRILL

Safety Precautions



WARNINGS

- ❑ Wear working clothes suitable for the operation. In particular, eye protection equipment must be worn to prevent shavings from getting into your eyes.
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CAUTION

- ❑ Do not allow any person other than the working staff to enter the working place.
- ❑ Do not touch the blades by hand because they are very sharp.
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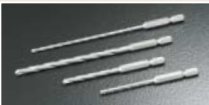
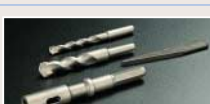
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CONCRETE DRILLS

Concrete Drill Bit B Type (Percussion)		63	SDS Tip Top Bit		71
Cordless Driver Drill Bit RJ Type		65	SDS-plus UX		73
Cordless Percussion Drill Bit BJ Type		66	SDS-plus Drill Bit		75
Cordless Driver Drill Bit TJ Type (For Ceramic Tile)		67	SDS-max Bit		76
Cordless Diamond Core Bit DJW Type (For Ceramic Tile)		68	Hexagonal Shank Drill Bit		77
Ceramic Tile Drill Bit TR Type		69	Hexagonal Shank UX Drill Bit		79
Stone Drill Bit SB Type		70	Taper Shank Drill Bit		80
			Bull Point/ Cold Chisel/ Cutter/Scoop		81

CONCRETE DRILL BITS USAGE CHART

		CONCRETE	BLOCK / BRICK	MORTAR	SLATE	ALC	JAPANESE WALL (whitewashed)	HARD EXTERIOR PANEL	SOFT EXTERIOR PANEL	METAL EXTERIOR PANEL	PLASTERBOARD	STONE	ROOF TILE	CERAMIC TILE	PORCELAIN TILE	PLASTICS	PVC	STEEL DECK PLATE
Concrete Drill Bits	Concrete Drill Bit B Type	◎	◎	◎	○	○	○	○	○	△	○	△						
	Cordless Driver Drill Bit RJ Type	△	○	◎	○	◎	◎	◎	◎	○	◎	△	○	○	◎	○	○	
	Cordless Percussion Drill Bit BJ Type	◎	◎	◎	○	○	○	○	○	△	○	△						
	Cordless Driver Drill Bit TJ Type (For Ceramic Tile)		○	○	◎	◎	○	◎	◎	○	◎		◎	◎	◎	○	○	
	Cordless Diamond Core Bit DJW Type	△	○	○	○			◎	◎		○	○	◎	◎	◎			
	Ceramic Tile Bit TR Type		○	○	◎	◎	○	◎	◎	○	◎		◎	◎	◎	○	○	
	Stone Bit SB Type	○	○	○	○	○	○	△	△	△	△	◎			△	△	△	
	SDS-plus Drill Bit	◎	◎	◎	○	○	○	△	△	△	△	◎						△
	SDS Tip Top Bit	◎	◎	◎	○	○	○	△	△	△	△	○						△
	SDS-plus UX	◎	◎	◎	○	○	○	△	△	△	△	○						◎
Chisels	SDS-max Bit	◎	○	○	○	△	○	△	△	△	△	◎						△
	Hexagonal Shank Drill Bit	◎	○	○	○	△	○	△	△	△	△	◎						△
	Tapered Shank Drill Bit	◎	○	○	○	△	○	△	△	△	△	◎						△
	Bull Point	◎	○	○	○							○						
	Cold Chisel	◎	○	○	○							○						

Concrete Drill Bit

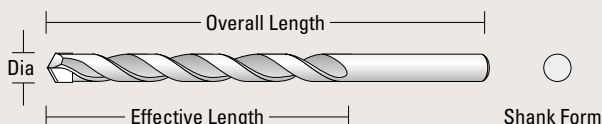
B Type



- A wide range of sizes to meet the broad needs of the work environment.
- Demonstrate an outstanding cutting feel with uniquely designed cutting edge shape and angle employing ultra-hard tips with emphasis on durability.
- SKS(alloy tool steel) material is selected for the under 5.0 mm sizes from the cutting edge giving excellent abrasion and shock resistance. This reduces snapping and bending of drill bits to a minimum.



Applicable Electric Tool **Percussion Drill**



CONCRETE	BLOCK / BRICK	MORTAR
SLATE	ALC	JAPANESE WALL
PLASTERBOARD	STONE	PORCELAIN TILE

B Type (Straight) Blister pack

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
○	B2.5X85BP	*2.5	85	50	10	
	B2.6X85BP	*2.6				
	B2.8X85BP	*2.8				
◎	B3.0X85BP	3.0				
○	B3.2X85BP	3.2				
◎	B3.4X85BP	3.4				
◎	B3.5X85BP	3.5				
△	B3.8X85BP	3.8				
○	B4.0X85BP	4.0				
◎	B4.3X85BP	4.3				
	B4.4X85BP	*4.4				
◎	B4.5X85BP	4.5				
○	B4.8X85BP	4.8				
◎	B5.0X85BP	5.0				
	B5.3X100BP	5.3	100	65	10	
	B5.4X100BP	5.4				
○	B5.5X100BP	5.5				
◎	B6.0X100BP	6.0				
◎	B6.4X100BP	6.4				
△	B6.5X100BP	6.5				
	B6.6X100BP	*6.6				
○	B7.0X125BP	7.0	125	75	10	
	B7.2X125BP	*7.2				
△	B7.5X125BP	7.5				
○	B8.0X125BP	8.0				
◎	B8.5X125BP	8.5				
	B8.7X125BP	*8.7				
△	B9.0X150BP	9.0	150	90	10	
	B9.5X150BP	9.5				
○	B10.0X150BP	10.0				
◎	B10.5X150BP	10.5				
△	B11.0X150BP	11.0				

Items marked * are special size. Please confirm stock before ordering.

B Type (Combination Straight)

	Code		Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
	Non-pack	Blister Pack					
○	B11.5X200	B11.5X200BP	11.5	200	120	6	
	B12.0X200	B12.0X200BP	12.0				
	B12.3X200	B12.3X200BP	*12.3				
○	B12.5X200	B12.5X200BP	12.5				
○	B12.7X200	B12.7X200BP	12.7				
	B13.0X200	B13.0X200BP	13.0				
	B13.5X200	B13.5X200BP	13.5				
△	B14.0X200	B14.0X200BP	14.0				
	B14.3X200	B14.3X200BP	14.3				
○	B14.5X200	B14.5X200BP	14.5				
	B15.0X200	B15.0X200BP	15.0				
	B16.0X240	B16.0X240BP	16.0	240	120	6	
	B16.5X240	B16.5X240BP	16.5				
	B17.0X240	B17.0X240BP	17.0				
	B17.5X240	B17.5X240BP	17.5				
△	B18.0X240	B18.0X240BP	18.0				
	B19.0X240	B19.0X240BP	19.0				
	B19.2X240	B19.2X240BP	*19.2				
	B20.0X240	B20.0X240BP	20.0				
	B21.0X240	B21.0X240BP	21.0				
	B21.5X240	B21.5X240BP	21.5				
	B22.0X240	B22.0X240BP	22.0				
	B23.0X280		23.0	280	140	3	
	B24.0X280		24.0				
	B25.0X280		25.0				
	B25.5X280		25.5				
	B26.0X280		26.0				
	B27.0X280		27.0				
	B28.0X280		28.0				
	B28.5X280		28.5				
	B29.0X280		29.0				
	B30.0X280		30.0				
	B32.0X280		32.0				
	B35.0X280		35.0	280	140	1	
	B38.0X280		38.0				
	B40.0X280		40.0				

Items marked * are special size. Please confirm stock before ordering.



TOOL BOX SET

There is also the tool box set which is convenient to carrying and receiving.

[Concrete Drill Set] 10 Pcs Set [TB-20]

(Overall Length: 85 mm Type)
3.2/3.5/4.3/4.5/4.8/5.0mm×each 1

(Overall Length: 100 mm Type)
6.0/6.4mm×each 1

(Overall Length: 125 mm Type)
8.0/8.5mm×each 1

*Products any size outside the standard are also available by special order. Contact us for terms and conditions, etc.

Cordless Driver Drill Bit

RJ Type

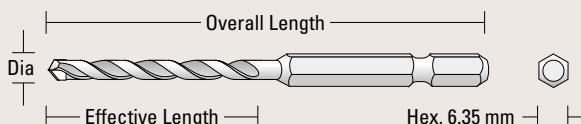


- The integral configuration from shank to cutting edge enables reliable drilling.
- Can be used in either rotating or impact modes.
- Easily attached to various types of rechargeable drill.

*No use by percussion drill.



Applicable Electric Tool Cordless Drill / Driver Drill / Electric Drill (under 400W)



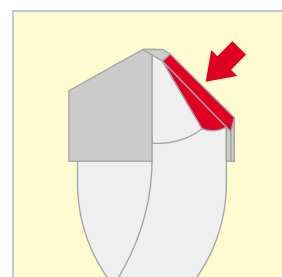
BLOCK / BRICK	MORTAR	JAPANESE WALL	ALC
CERAMIC TILE	PORCELAIN TILE	CONCRETE	SLATE
ROOF TILE	PLASTIC	PVC	EXTERIOR PANELS

RJ Type						Blister pack
	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
△	RJ25X90	2.5	90	37	10	
	RJ28X90	2.8				
○	RJ30X90	3.0	90	45	10	
○	RJ32X90	3.2				
○	RJ34X90	3.4				
○	RJ35X90	3.5				
	RJ38X95	3.8	95	50	10	
○	RJ40X95	4.0				
○	RJ43X95	4.3				
○	RJ45X95	4.5				
△	RJ48X95	4.8				
○	RJ50X95	5.0				
	RJ53X100	5.3	100	55	10	
	RJ55X100	5.5				
○	RJ60X100	6.0				
○	RJ64X100	6.4				
	RJ65X100	6.5				
	RJ70X115	7.0	115	65	10	
	RJ72X115	7.2				
	RJ75X115	7.5				
	RJ80X115	8.0				
	RJ85X115	8.5				
	RJ90X115	9.0				
	RJ95X135	9.5	135	85	10	
	RJ10.0X135	10.0				
	RJ10.5X135	10.5				

RJ Type Long						Blister pack
	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
○	RJL34X150	3.4	150	100	10	
○	RJL35X150	3.5				
	RJL40X150	4.0				
○	RJL43X150	4.3				
△	RJL45X150	4.5				
	RJL48X150	4.8				
△	RJL50X150	5.0				
	RJL53X150	5.3	150	100	10	
	RJL55X150	5.5				
△	RJL60X150	6.0				
△	RJL64X150	6.4				
	RJL65X150	6.5				

Asymmetric cutting edge shape

Asymmetrical grinding the TCT tip of the cutting edge reduces cutting resistance, enabling work material drilling with low torque.



Cordless Driver Drill Bit (Set of 5)

Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Set	Set/Box	
DP5-RJ34	3.4	90	45	5	5	
DP5-RJ35	3.5	90	45			
DP5-RJ43	4.3	95	50			

Cordless Driver Drill Bit (Set of 3)

Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Set	Set/Box	
DP3-RJ34	3.4	90	45	3	5	
DP3-RJ35	3.5	90	45			
DP3-RJ43	4.3	95	50			

Cordless Driver Drill Bit (Handy size/Set of 5)

Code	Diameter (mm)				Pcs./Set	Set/Box	
DPRJ-5A	3.5	4.8	5.0	6.0	6.4	5	5
DPRJ-5B	3.4	4.3	4.5	4.8	6.4		
DPRJ-5C	3.4	4.8	5.0	6.0	6.4		

Cordless Driver Drill Bit (Handy size/Set of 3)

Code	Diameter (mm)				Pcs./Set	Set/Box	
DPRJ-3A	3.5	4.8	6.4		3	5	
DPRJ-3B	4.5	4.8	6.4				
DPRJ-3C	3.4	4.8	6.4				



CORDLESS DRIVER DRILL BIT SET
(Set of 5)



CORDLESS DRIVER DRILL BIT SET
(Set of 3)

Cordless Percussion Drill Bit

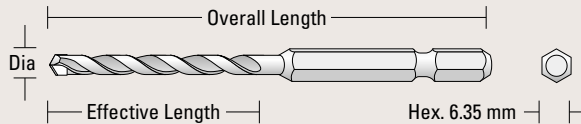
BJ Type



- Adaptation to vibration drill allows for drilling in concrete with Percussion mode.
 - Integral configuration from shank to cutting edge eliminates deflection and chatter of cutting edge, allowing for correct drilling.
 - Adoption of 6.35mm hexagonal shaft shank improves torque transmission efficiency.
- *This cannot be used with an impact driver.



Applicable Electric Tool Percussion Drill (under 400W) / Cordless Percussion Drill



CONCRETE	BLOCK / BRICK	MORTAR
SLATE	ALC	JAPANESE WALL
PLASTERBOARD	STONE	PORCELAIN TILE

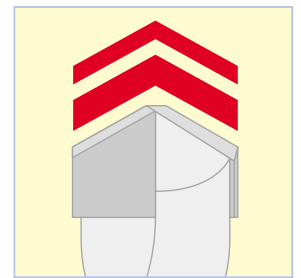
BJ Type						Blister pack
	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
○	BJ30X90	3.0	90	45	10	
△	BJ32X90	3.2				
◎	BJ34X90	3.4				
◎	BJ35X90	3.5				
	BJ38X95	3.8	95	50	10	
	BJ40X95	4.0				
○	BJ43X95	4.3				
△	BJ45X95	4.5				
	BJ48X95	4.8				
△	BJ50X95	5.0				
	BJ53X100	5.3	100	55	10	
	BJ55X100	5.5				
○	BJ60X100	6.0				
△	BJ64X100	6.4				
	BJ65X100	6.5				

Cutting edge adaptable to percussion mode

Combination of cutting edge shape and special cemented carbide tip allows for secure drilling in concrete.

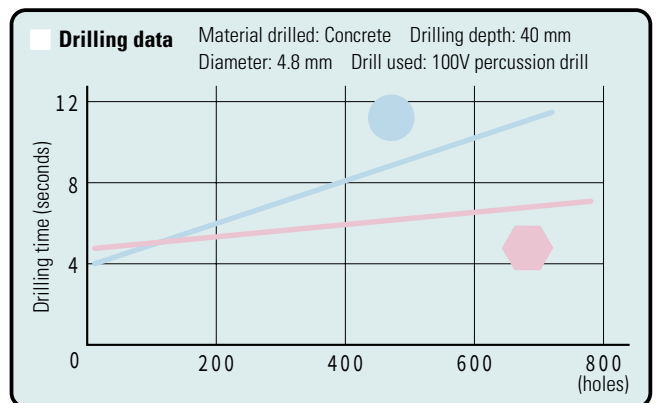
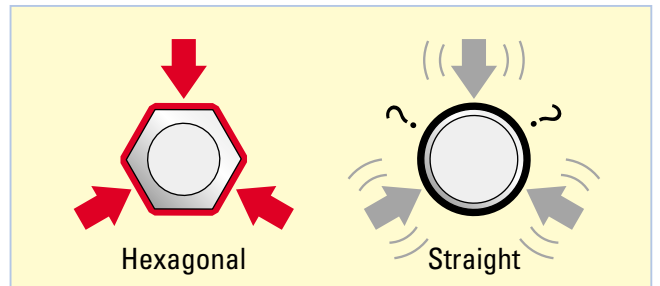
[Caution]

Impact driver has weak impact force, therefore, cannot drill in concrete.



Hexagonal shank

Hexagonal shaft can be firmly chucked in vibration drill, therefore, stable sharpness can be maintained with no slip of the chuck.



Cordless Driver Drill Bit (For Ceramic Tile)

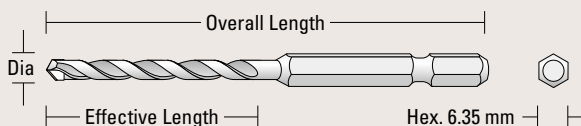
TJ Type



- Cutting edge configuration dedicated to impact driver realizes abrasion resistance to tiles and durability.
- Integral configuration eliminates deflection and chatter of cutting edge, allowing for correct drilling.
- Can be used in either rotating or impact modes.
- Easily attached to various types of cordless drills in a single operation.

*This cannot be used for an vibration drill.

Applicable Electric Tool Cordless Drill / Driver Drill / Electric Drill (under 400W)



CERAMIC TILE	ROOF TILE	PORCELAIN TILE
SLATE	ALC	PLASTERBOARD
BLOCK / BRICK	MORTAR	PLASTIC

TJ Type						Blister pack
	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
○	TJ3.0X90	3.0	90	45	10	
○	TJ3.2X90	3.2				
○	TJ3.4X90	3.4				
○	TJ3.5X90	3.5				
	TJ3.8X95	3.8	95	50	10	
○	TJ4.0X95	4.0				
○	TJ4.3X95	4.3				
△	TJ4.5X95	4.5				
△	TJ4.8X95	4.8				
△	TJ5.0X95	5.0				
	TJ5.3X100	5.3	100	55	10	
	TJ5.5X100	5.5				
○	TJ6.0X100	6.0				
△	TJ6.4X100	6.4				
	TJ6.5X100	6.5				

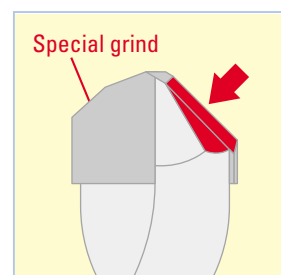


One-touch attachable to the impact driver

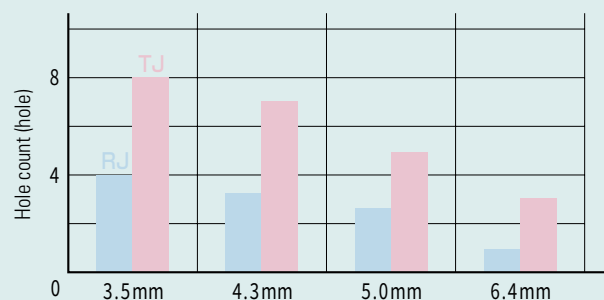
Asymmetric cutting edge shape

Asymmetrical grinding of the TCT tip of the cutting edge reduces cutting resistance, enabling work material drilling with low torque.

Application of special grind realizes abrasion resistance to tiles and durability.



Drilling data (Dry drilling) Material drilled: Ceramic tile Drill used: 12V impact driver Material thickness: 8 mm



*The hole drilling count varies depending on the type.

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Cordless Diamond Core Bit (For Ceramic Tile)

DJW Type

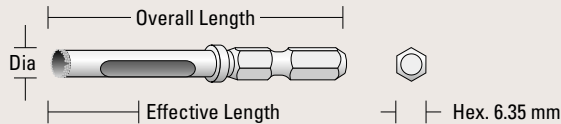
Semi-dry



- When using the specially developed wax, no water cooling is required.
- This brazed diamond cutter tool is ideal on an impact electric driver. Offers fast drilling and long life.
- With the positioning guide, stable drilling is assured.

*The positioning guide is sold optionally.

Applicable Electric Tool Cordless Drill / Driver Drill / Electric Drill (under 400W)



CERAMIC TILE

STONE MATERIAL TILE

HARD TILE

GRANITE STONE

MARBLE

ROOF TILE

DJW Type (Semi-dry wax was enclosed)

Blister pack

Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
DJW50X60S	5.0	60	15	5	
DJW60X60S	6.0				
DJW64X60S	6.4				
DJW70X60S	7.0				
DJW80X60S	8.0				
DJW100X60S	10.0				
DJW120X60S	12.0				
DJW150X60S	15.0				
DJW200X76S	20.0	76	15	3	
DJW250X76S	25.0				
DJW300X76S	30.0				
DJW320X76S	32.0				
DJW350X76S	35.0				

Positioning Guide

Code	Matching hole Diameter (mm)	
DJW-PGDV	5~35	

*In use, Immediately after use the tool gets quite hot. Definitely do not touch with bare hands.

*Make sure the diamond core drill diameter size matches the drilling guide before drilling.

*For positioning and aligning, use the V-groove guide which fits all sizes.

Just apply the semi-dry wax to the drilling edge.

Due to the special cooling properties in the semi-dry wax, there is no need for using messy water when the wax is applied.



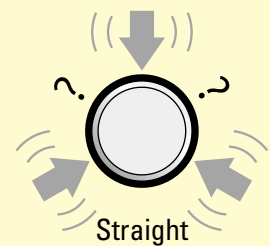
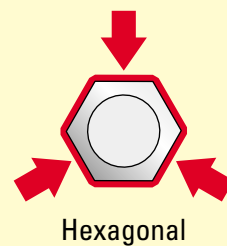
Notes on the use of semi-dry wax

During use and immediately after use, the core drill and cutting waste becomes very hot so take care of that to not touch it with bare hands.

In addition, after drilling porcelain shavings and used wax may be scattered around the work area, therefore prepare the surrounding area for it.

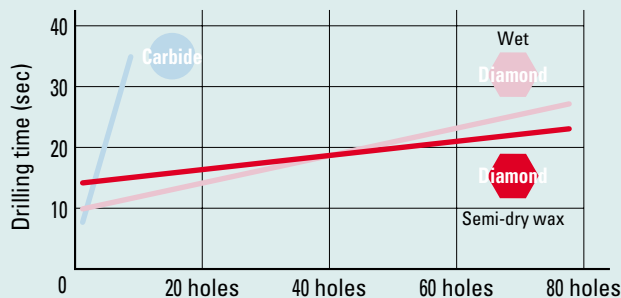
Hexagonal shank

Due to its 6.35mm HEX shank, stable holding and positioning is assured.



Drilling data (Wet drilling)

Material drilled: Ceramic tile Material thickness: 8 mm
Diameter: 6.0 mm Drill used: Impact driver

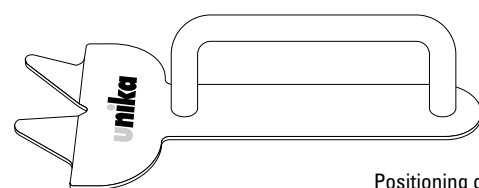
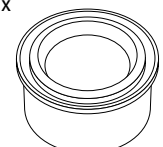
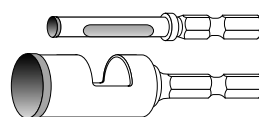


You will get about the same performance as when fully using water but without all the water mess.

Drilling components

Cordless Diamond Core Bit

Semi-dry wax



Positioning guide

Ceramic Tile Drill Bit

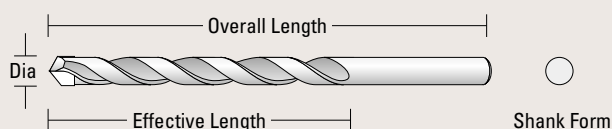
TR Type



- Ideal for drilling approximately 10 to 15 ceramic tiles.
- Uses a special ultra-hard tip to maintain drilling performance. Drills efficiently through even difficult materials.
- Even more outstanding cutting efficiency and durability is demonstrated if cooled using water when drilling.



Applicable Electric Tool Electric Drill / Percussion Drill (rotating mode)



CERAMIC TILE	ROOF TILE	PORCELAIN TILE
SLATE	ALC	PLASTERBOARD
BLOCK / BRICK	MORTAR	PLASTIC

● Appropriate rotation speed of electric drill used

3.0~11.0	Use the drill at 1,000 rpm or less.				
	500	1,000	1,500	2,000	2,500
	Rotation Speed (rpm)				

● Chuck size

Drill bit of all sizes attachable to the 10 mm chuck.

● Comparison of hole drilling count when water is used and not used

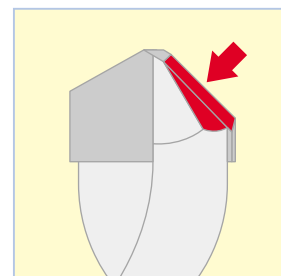
Water not used	Dia	8~10 times	
Water used	6.4mm		10~15 times
Water not used	Dia	8~10 times	
Water used	4.8mm		10~15 times
		5	10
		15	Hole Drilling

*The hole drilling count varies depending on the tile type.

TR Type						Blister pack
	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
○	TR30X85	3.0	85	50	10	
△	TR32X85	3.2				
◎	TR34X85	3.4				
◎	TR35X85	3.5				
△	TR38X85	3.8				
○	TR40X85	4.0				
◎	TR43X85	4.3				
◎	TR45X85	4.5				
○	TR48X85	4.8				
◎	TR50X85	5.0				
	TR53X100	5.3	100	65	10	
△	TR55X100	5.5				
◎	TR60X100	6.0				
○	TR64X100	6.4				
	TR65X100	6.5				
	TR70X125	7.0	125	75	10	
	TR72X125	7.2				
	TR75X125	7.5				
○	TR80X125	8.0				
△	TR85X125	8.5				
	TR90X150	9.0	150	90	10	
	TR95X150	9.5				
	TR100X150	10.0				
	TR105X150	10.5				
	TR110X150	11.0				

● Asymmetric cutting edge shape

Asymmetrical grinding the TCT tip of the cutting edge reduces cutting resistance, enabling work material drilling with low torque.



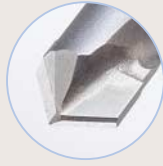
*Products any size outside the standard are also available by special order. Contact us for terms and conditions, etc.

Stone Drill Bit

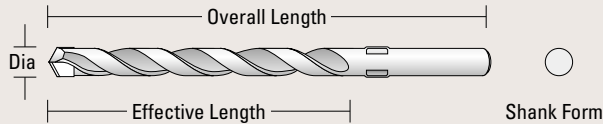
SB Type



- Handles stone from general types to hard-to-drill granite with excellent cutting feel and durability.
- The “anti-slip” engraved on the shank realizes effective power transmission.
- Even more outstanding cutting efficiency and durability is demonstrated if cooled using water when drilling.



Applicable Electric Tool Percussion Drill



STONE	CONCRETE
MORTAR	BLOCK / BRICK
SLATE	JAPANESE WALL

● Appropriate rotation speed of electric drill used

6.0~ 6.4						1,500~2,000
4.8~ 5.0						2,000~2,500
	500	1,000	1,500	2,000	2,500	Rotation Speed (rpm)

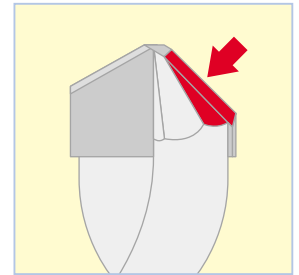
● Chuck size

Drill bit of all sizes attachable to the 10 mm chuck.

SB Type						Blister pack
	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
○	SB3.0X85BP	3.0	85	50	10	
△	SB3.2X85BP	3.2				
○	SB3.4X85BP	3.4				
◎	SB3.5X85BP	3.5				
◎	SB4.0X85BP	4.0				
△	SB4.3X85BP	4.3				
	SB4.5X85BP	4.5				
	SB4.8X85BP	4.8				
○	SB5.0X85BP	5.0				
	SB5.5X100BP	5.5	100	65	10	
◎	SB6.0X100BP	6.0				
○	SB6.4X100BP	6.4				
	SB7.0X125BP	7.0	125	75	10	
△	SB8.0X125BP	8.0				

● Asymmetric cutting edge shape

Asymmetrical grinding the TCT tip of the cutting edge reduces cutting resistance, enabling work material drilling with low torque.



*Products any size outside the standard are also available by special order. Contact us for terms and conditions, etc.

SDS Tip Top Bit

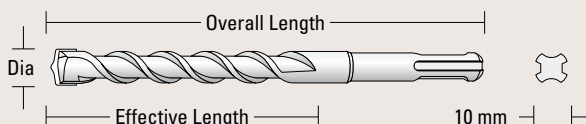
TT Type



- Work material is sharply drilled and drilling speed is increased by candle-shaped cemented carbide tip and thinning the cutting edge.
- The center point at the top end of the cemented carbide tip offers excellent positioning performance, allowing for hole drilling close to a perfect circle.
- The center point prevents runout during drilling.



Applicable Electric Tool **Rotary Hammer Drill (SDS-plus)**



CONCRETE	BLOCK / BRICK
MORTAR	SLATE
JAPANESE WALL	STONE

TT Type

Blister pack

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
	TT32X1 10BP	3.2	110	45	10	
⊙	TT34X1 10BP	3.4				
⊙	TT35X1 10BP	3.5				
	TT38X1 10BP	3.8				
△	TT40X1 10BP	4.0				
⊙	TT43X1 10BP	4.3				
○	TT45X1 10BP	4.5				
○	TT48X1 10BP	4.8				
⊙	TT50X1 10BP	5.0				
	TT53X1 10BP	5.3				
	TT54X1 10BP	5.4				
△	TT55X1 10BP	5.5				
○	TT60X1 10BP	6.0				
△	TT64X1 10BP	6.4				

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
⊙	TT34X1 60BP	3.4	160	100	10	
△	TT35X1 60BP	3.5				
⊙	TT43X1 60BP	4.3				
○	TT45X1 60BP	4.5				
	TT48X1 60BP	4.8				
○	TT50X1 60BP	5.0				
△	TT53X1 60BP	5.3				
	TT54X1 60BP	5.4				
△	TT55X1 60BP	5.5				
○	TT60X1 60BP	6.0				
○	TT64X1 60BP	6.4				
△	TT65X1 60BP	6.5				
△	TT70X1 60BP	7.0				
	TT72X1 60BP	7.2				
	TT75X1 60BP	7.5				
○	TT80X1 60BP	8.0				
⊙	TT85X1 60BP	8.5	160	100	10	
	TT90X1 60BP	9.0				
	TT95X1 60BP	9.5				
○	TT100X1 60BP	10.0				
⊙	TT105X1 60BP	10.5				
	TT110X1 60BP	11.0				
	TT115X1 60BP	11.5				
△	TT120X1 60BP	12.0				
⊙	TT125X1 60BP	12.5				
○	TT127X1 60BP	12.7				
	TT130X1 60BP	13.0				
	TT135X1 60BP	13.5				
	TT140X1 60BP	14.0				
	TT143X1 60BP	14.3				
⊙	TT145X1 60BP	14.5				
	TT150X1 60BP	15.0	160	100	6	
	TT160X1 60BP	16.0				
△	TT165X1 60BP	16.5				
	TT170X1 60BP	17.0				
	TT175X1 60BP	17.5				
○	TT180X1 60BP	18.0				

SDS Tip Top Bit (Set of 5)

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Set	Set/Box	
○	DP5-T34	3.4	110	45	5	5	
△	DP5-T35	3.5					
	DP5-T43	4.3					

SDS Tip Top Bit (Set of 3)

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Set	Set/Box	
⊙	DP3-T34	3.4	110	45	3	5	
○	DP3-T35	3.5					
△	DP3-T43	4.3					
	DP3-T50	5.0					
	DP3-T60	6.0					



SDS TIP TOP BIT SET
(Set of 5)



SDS TIP TOP BIT SET
(Set of 3)

TOOL BOX SET

The tool box set is also convenient for carrying and storing.

[SDS Tip Top Bit Set] Set of 10 [TB-21TT]

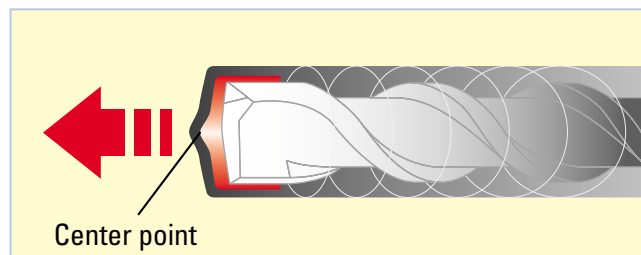
(Overall Length: 110mm Type)
3.5/4.3/4.8/5.0mm×each 1

(Overall Length: 160mm Type)
6.4/8.5/10.5/12.5/12.7/14.5mm×each 1



● Drilling speed-up

Work material is sharply and quickly drilled by candle-shaped cemented carbide tip and thinning the cutting edge. The center point at the top end of the cemented carbide tip offers excellent positioning performance.



TT Type Long

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
	TTL80X210	8.0	210	150	1	
△	TTL85X210	8.5				
	TTL90X210	9.0				
	TTL95X210	9.5				
	TTL100X210	10.0				
	TTL105X210	10.5				
	TTL120X210	*12.0				
	TTL125X210	12.5				
	TTL127X210	12.7				
	TTL140X210	14.0				
	TTL145X210	14.5				
	TTL150X210	15.0				
	TTL160X210	16.0				
	TTL170X210	*17.0				
	TTL180X210	18.0				
○	TTL190X210	19.0				
△	TTL200X210	20.0				

TT Type Long

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
△	TTL10.0X260	10.0	260	200	1	
○	TTL10.5X260	10.5				
	TTL11.0X260	11.0				
	TTL12.0X260	12.0				
○	TTL12.5X260	12.5				
△	TTL12.7X260	12.7				
	TTL13.0X260	13.0				
	TTL13.5X260	13.5				
	TTL14.0X260	14.0				
	TTL14.3X260	14.3				
○	TTL14.5X260	14.5				
	TTL15.0X260	15.0				
	TTL16.0X260	16.0				
	TTL16.5X260	16.5				
	TTL17.0X260	17.0				
	TTL17.5X260	17.5				
△	TTL18.0X260	18.0				
	TTL19.0X260	19.0				
	TTL20.0X260	20.0				
	TTL21.5X260	21.5				
○	TTL22.0X260	22.0				
	TTL22.5X260	22.5				
	TTL23.0X260	23.0				
△	TTL24.0X260	24.0				
△	TTL25.0X260	25.0				
	TTL26.0X260	*26.0				

TT Type Long

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
	TTL10.0X350	10.0	350	290	1	
	TTL10.5X350	10.5				
	TTL11.0X350	*11.0				
	TTL12.0X350	12.0				
	TTL12.5X350	12.5				
	TTL12.7X350	12.7				
	TTL13.0X350	13.0				
	TTL13.5X350	13.5				
	TTL14.0X350	14.0				
	TTL14.3X350	*14.3				
	TTL14.5X350	14.5				
	TTL15.0X350	15.0				
	TTL16.0X350	16.0				
	TTL16.5X350	16.5				
	TTL17.0X350	17.0				
	TTL17.5X350	17.5				
	TTL18.0X350	18.0				
	TTL19.0X350	19.0				
	TTL20.0X350	20.0				
	TTL22.0X350	22.0				
	TTL23.0X350	*23.0				
	TTL24.0X350	24.0				
	TTL25.0X350	25.0				
	TTL26.0X350	*26.0				

TT Type Long

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
	TTL10.0X450	10.0	450	390	1	
○	TTL10.5X450	10.5				
	TTL12.0X450	12.0				
○	TTL12.5X450	12.5				
	TTL12.7X450	12.7				
	TTL13.5X450	*13.5				
	TTL14.3X450	14.3				
△	TTL14.5X450	14.5				
	TTL15.0X450	15.0				
	TTL16.0X450	16.0				
	TTL16.5X450	16.5				
	TTL17.0X450	17.0				
	TTL17.5X450	*17.5				
	TTL18.0X450	18.0				
	TTL19.0X450	19.0				
	TTL20.0X450	20.0				
	TTL22.0X450	22.0				
	TTL23.0X450	23.0				
	TTL24.0X450	24.0				
	TTL25.0X450	25.0				
	TTL26.0X450	26.0				

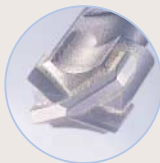
TT Type Super Long

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
	TTL10.0X1000	10.0	1,000	200	1	
	TTL12.0X1000	12.0				
○	TTL12.5X1000	12.5				
	TTL14.5X1000	14.5				
	TTL16.5X1000	16.5				

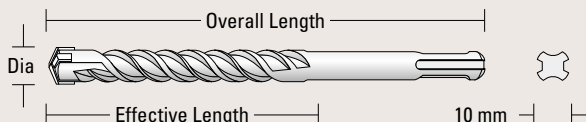
SDS-plus UX



- Adopts a cross blade for cutting edge that enables penetration through deck plates.
- Hole drilling at nearly perfect circles enabled. This realizes smooth anchor insertion.
- Cross blade less likely to become trapped with less wear of the cutting edge and outside diameter, when hitting against reinforcement bars. Stable drilling ability is maintained.



Applicable Electric Tool Rotary Hammer Drill (SDS-plus)



STEEL DECK PLATE + CONCRETE

BLOCK / BRICK

MORTAR

JAPANESE WALL

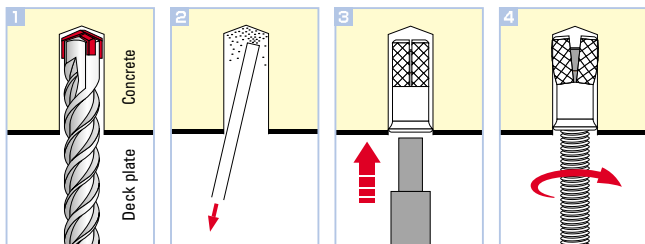
STONE

UX Type						Blister pack
	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
△	UX6.0X160	6.0	160	100	10	
△	UX6.4X160	6.4				
	UX6.5X160	6.5				
	UX7.0X160	7.0				
	UX7.2X160	7.2				
	UX7.5X160	7.5				
△	UX8.0X160	8.0	160	100	10	
⊙	UX8.5X160	8.5				
	UX9.0X160	9.0				
	UX9.5X160	9.5				
○	UX10.0X160	10.0				
⊙	UX10.5X160	10.5				
	UX11.0X160	11.0				
○	UX12.0X160	12.0				
⊙	UX12.5X160	12.5				
⊙	UX12.7X160	12.7				
	UX13.0X160	13.0				
	UX13.5X160	13.5				
	UX14.0X160	14.0				
	UX14.3X160	14.3				
⊙	UX14.5X160	14.5				
	UX15.0X160	15.0	160	100	6	
△	UX16.0X160	16.0				
○	UX16.5X160	16.5				
	UX17.0X160	17.0				
	UX17.5X160	17.5				
○	UX18.0X160	18.0				

UX Type Long					
	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box
	UX8.0X210	8.0	210	150	1
	UX8.5X210	8.5			
	UX9.0X210	9.0			
	UX10.0X210	10.0			
	UX10.5X210	10.5			
	UX12.0X210	12.0			
	UX12.5X210	12.5			
	UX12.7X210	12.7			
	UX14.0X210	14.0			
	UX14.5X210	14.5			
	UX15.0X210	15.0			
	UX16.0X210	16.0			
	UX17.0X210	17.0			
	UX18.0X210	18.0			
	UX19.0X210	19.0			
	UX20.0X210	20.0			

UX Type Long					
	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box
	UX10.0X260	10.0	260	200	1
	UX10.5X260	10.5			
	UX12.0X260	12.0			
	UX12.5X260	12.5			
	UX12.7X260	12.7			
	UX14.0X260	14.0			
	UX14.5X260	14.5			
	UX15.0X260	15.0			
	UX16.0X260	16.0			
	UX16.5X260	16.5			
	UX17.0X260	17.0			
	UX18.0X260	18.0			
	UX19.0X260	19.0			
	UX20.0X260	20.0			
	UX22.0X260	22.0			
	UX23.0X260	23.0			
	UX24.0X260	24.0			
	UX25.0X260	25.0			
	UX26.0X260	26.0			

Installation Example (Unicon Anchor)



NPOWER
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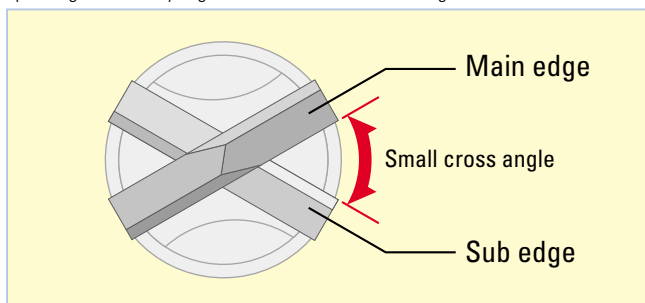
www.npower.com.vn

Tài liệu được tổng hợp bởi đội ngũ kỹ thuật của NPOWER Bản quyền nội dung thuộc về công ty Unika

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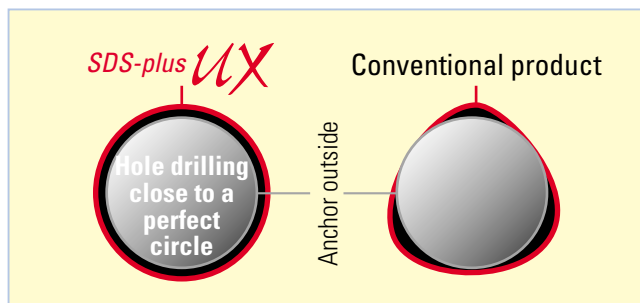
● Cross blade penetrates through deck plate

The cross blade developed to enable penetration through deck plate reduces the cross angle and prevents a reduction in drilling speed with the 2-edge (main, auxiliary) construction. Realizes hole drilling at nearly a perfect circle by proactively operating the auxiliary edge to outer circumference cutting.



● Hole drilling at nearly perfect circles realized

Adopts the cross blade for cutting edge that enables not only penetration through deck plates but also hole drilling close to a perfect circle. In addition, anchor insertion is smoothly performed and the vibration burden during work is reduced.



UX Type Long

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
	UXL100X350	10.0	350	290	1	
	UXL105X350	10.5				
	UXL110X350	11.0				
	UXL120X350	12.0				
	UXL125X350	12.5				
	UXL127X350	12.7				
	UXL130X350	13.0				
	UXL140X350	14.0				
	UXL143X350	14.3				
	UXL145X350	14.5				
	UXL150X350	15.0				
	UXL160X350	16.0				
	UXL165X350	16.5				
	UXL170X350	17.0				
	UXL175X350	17.5				
	UXL180X350	18.0				
	UXL190X350	19.0				
	UXL200X350	20.0				
	UXL220X350	22.0				
	UXL230X350	23.0				
	UXL240X350	24.0				
	UXL250X350	25.0				
	UXL260X350	26.0				

UX Type Spuer Long

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
	UXLL10.0X1000	10.0	1,000	200	1	
	UXLL12.0X1000	12.0				
	UXLL12.5X1000	12.5				

UX Type Long

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
	UXL100X450	10.0	450	390	1	
	UXL105X450	10.5				
	UXL120X450	12.0				
	UXL125X450	12.5				
	UXL135X450	13.5				
	UXL145X450	14.5				
	UXL160X450	16.0				
	UXL180X450	18.0				
	UXL190X450	19.0				
	UXL200X450	20.0				
	UXL220X450	22.0				
	UXL230X450	23.0				
	UXL240X450	24.0				
	UXL250X450	25.0				
	UXL260X450	26.0				

Bull Point (for SDS-plus)

	Code	
	HTB10X250	

Cold Chisel (for SDS-plus)

	Code	Tip Width: 20 mm
	HTC10X250	

Flat Chisel (for SDS-plus)

	Code	Tip Width: 40 mm
	HTF10X250	

Tile Chisel (for SDS-plus)

	Code	Tip Width: 40 mm
	HTT10X260	

SDS-plus Bit

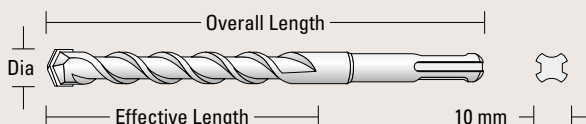
SDS Type



- Can be easily fitted to light hammer drills.
- The use of U-shaped grooves increases the power transfer area (60mm²), efficiently transmitting the hammer and rotation force to the cutting edge.
- A wide range is available, with bit diameters from 3.4 to 26.0mm, and overall lengths from 110 to 1000mm.



Applicable Electric Tool Rotary Hammer Drill (SDS-plus)



STONE	CONCRETE
BLOCK / BRICK	MORTAR
SLATE	JAPANESE WALL

SDS Type

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs/Box
	Non-pack	Blister Pack			
○	SDS3.2X110	SDS3.2X110BP	3.2	110	45
○	SDS3.4X110	SDS3.4X110BP	3.4		
○	SDS3.5X110	SDS3.5X110BP	3.5		
	SDS3.8X110	SDS3.8X110BP	3.8		
	SDS4.0X110	SDS4.0X110BP	4.0		
○	SDS4.3X110	SDS4.3X110BP	4.3		
	SDS4.5X110	SDS4.5X110BP	4.5		
	SDS4.8X110	SDS4.8X110BP	4.8		
	SDS5.0X110	SDS5.0X110BP	5.0		
	SDS5.3X110	SDS5.3X110BP	5.3		
	SDS5.4X110	SDS5.4X110BP	5.4		
	SDS5.5X110	SDS5.5X110BP	5.5		
	SDS6.0X110	SDS6.0X110BP	6.0		
△	SDS6.4X110	SDS6.4X110BP	6.4		

SDS-plus Bit (Set of 5)

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs/Set	Set/Box
○	DP5-S34	3.4	110	45	5	5
	DP5-S35	3.5				
○	DP5-S43	4.3				

SDS-plus Bit (Set of 3)

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs/Set	Set/Box
○	DP3-S34	3.4	110	45	3	5
○	DP3-S35	3.5				
△	DP3-S43	4.3				



SDS-plus BIT SET (Set of 5)



SDS-plus BIT SET (Set of 3)



TOOL BOX SET

The tool box set is also convenient for carrying and storing.

[SDS-plus Drill Set] Set of 10 [TB-21]

(Overall Length: 110mm Type)

3.5/4.3/4.8/5.0mm × each 1

(Overall Length: 160mm Type)

6.4/8.5/10.5/12.5/12.7/14.5mm × each 1

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs/Box
	Non-pack	Blister Pack			
○	SDS3.4X160	SDS3.4X160BP	3.4	160	100
	SDS3.5X160	SDS3.5X160BP	3.5		
○	SDS4.3X160	SDS4.3X160BP	4.3		
	SDS4.5X160	SDS4.5X160BP	4.5		
	SDS4.8X160	SDS4.8X160BP	4.8		
	SDS5.0X160	SDS5.0X160BP	5.0		
○	SDS5.3X160	SDS5.3X160BP	5.3		
	SDS5.4X160	SDS5.4X160BP	5.4		
	SDS5.5X160	SDS5.5X160BP	5.5		
	SDS6.0X160	SDS6.0X160BP	6.0		
○	SDS6.4X160	SDS6.4X160BP	6.4		
	SDS6.5X160	SDS6.5X160BP	6.5		
	SDS6.6X160	SDS6.6X160BP	6.6		
	SDS7.0X160	SDS7.0X160BP	7.0		
	SDS7.2X160	SDS7.2X160BP	7.2		
	SDS7.5X160	SDS7.5X160BP	7.5		
△	SDS8.0X160	SDS8.0X160BP	8.0		
○	SDS8.5X160	SDS8.5X160BP	8.5	160	100
	SDS8.7X160	SDS8.7X160BP	* 8.7		
	SDS9.0X160	SDS9.0X160BP	9.0		
	SDS9.5X160	SDS9.5X160BP	9.5		
	SDS10.0X160	SDS10.0X160BP	10.0		
○	SDS10.5X160	SDS10.5X160BP	10.5		
	SDS11.0X160	SDS11.0X160BP	11.0		
	SDS11.5X160	SDS11.5X160BP	11.5		
	SDS12.0X160	SDS12.0X160BP	12.0		
○	SDS12.5X160	SDS12.5X160BP	12.5		
	SDS12.7X160	SDS12.7X160BP	12.7		
	SDS13.0X160	SDS13.0X160BP	13.0		
	SDS13.5X160	SDS13.5X160BP	13.5		
	SDS14.0X160	SDS14.0X160BP	14.0		
	SDS14.3X160	SDS14.3X160BP	14.3		
△	SDS14.5X160	SDS14.5X160BP	14.5		
	SDS15.0X160	SDS15.0X160BP	15.0	160	100
	SDS16.0X160	SDS16.0X160BP	16.0		
	SDS16.5X160	SDS16.5X160BP	16.5		
	SDS17.0X160	SDS17.0X160BP	17.0		
	SDS17.5X160	SDS17.5X160BP	17.5		
△	SDS18.0X160	SDS18.0X160BP	18.0		
△	SDS19.0X200		19.0	200	140
	SDS20.0X200		20.0		
	SDS21.5X250		21.5	250	190
△	SDS22.0X250		22.0		
	SDS22.5X250		22.5	250	190
	SDS24.0X250		24.0		
	SDS25.0X250		25.0		

Items marked * are special size. Please confirm stock before ordering.

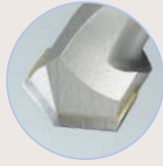
*Products any size outside the standard are also available by special order. Contact us for terms and conditions, etc.

SDS-max Bit

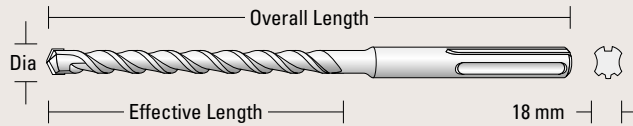
SDSMAX Type

Hammering + Rotation

- SDS-max shank hammer drill exclusive bit efficiently transmits a strong impact rotation force to a cutting edge without loss.
- Integral design from chuck section to cutting edge offers outstanding performance in boring and deep drilling work.
- Bull point for gouging hammer and cold chisel also comprise our product lineup.



Applicable Electric Tool SDS-max Hammer Drill



CONCRETE	STONE
BLOCK / BRICK	MORTAR
SLATE	JAPANESE WALL

SDS-max Type

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
△	SDSMAX100X305	10.0	305	165	1	
◎	SDSMAX105X305	10.5				
	SDSMAX110X305	11.0				
△	SDSMAX120X305	12.0				
○	SDSMAX125X305	12.5				
○	SDSMAX127X305	12.7				
	SDSMAX130X305	13.0				
	SDSMAX135X305	13.5				
	SDSMAX140X305	14.0				
	SDSMAX143X305	14.3				
◎	SDSMAX145X305	14.5				
	SDSMAX150X305	15.0				
○	SDSMAX160X305	16.0				
	SDSMAX165X305	16.5				
△	SDSMAX170X305	17.0				
	SDSMAX175X305	17.5				
◎	SDSMAX180X305	18.0				
○	SDSMAX190X305	19.0				
○	SDSMAX200X305	20.0	305	165	1	
△	SDSMAX215X305	21.5				
○	SDSMAX220X305	22.0				
	SDSMAX230X305	23.0				
△	SDSMAX240X305	24.0				
	SDSMAX250X305	25.0				
	SDSMAX255X305	25.5				
	SDSMAX260X305	26.0				
	SDSMAX280X305	28.0				
△	SDSMAX285X305	28.5				
	SDSMAX290X305	29.0				
	SDSMAX300X305	30.0				
	SDSMAX320X305	32.0				
	SDSMAX350X305	35.0				
	SDSMAX380X305	38.0				
	SDSMAX400X305	40.0				

SDS-max Type Long

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
	SDSMAX105X540	10.5	540	400	1	
	SDSMAX127X540	12.7				
	SDSMAX143X540	14.3				
	SDSMAX145X540	14.5				
△	SDSMAX160X540	16.0				
	SDSMAX170X540	17.0				
	SDSMAX180X540	18.0				
△	SDSMAX190X540	19.0				
	SDSMAX200X540	20.0				
	SDSMAX215X540	21.5				
	SDSMAX220X540	22.0				
	SDSMAX240X540	24.0	540	400	1	
	SDSMAX250X540	25.0				
	SDSMAX260X540	26.0				
	SDSMAX280X540	28.0				
	SDSMAX285X540	28.5				
	SDSMAX290X540	29.0				
	SDSMAX300X540	30.0				
	SDSMAX320X540	32.0				
	SDSMAX340X540	34.0				
	SDSMAX350X540	35.0				
	SDSMAX380X540	38.0				
	SDSMAX400X540	40.0				

Bull Point (for SDS-max)

Code	Matching Drill	Pcs./Box	
HTB18X280	SDS-max hammer drill	1	
HTB18X450	SDS-max hammer	1	



Cold Chisel (for SDS-max)

Code	Matching Drill	Pcs./Box	
HTC18X280	SDS-max hammer drill	1	
HTC18X450	SDS-max hammer	1	

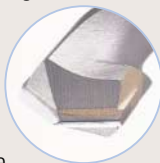


Hexagonal Shank Drill Bit

HEX Type



- The drill bit exclusive to hammer drills enables efficient transfer of the hammering impact and the spinning force.
- The integral design from chuck section to cutting edge offers outstanding performance in piercing and deep drilling work.
- The range also includes bits for drilling holes for anchors, and bits for slope-finishing work, widely meeting work requirements.



*For hole drilling of stone material, use a drill for stone.

Applicable Electric Tool Hammer Drill



CONCRETE	* STONE
BLOCK / BRICK	MORTAR
SLATE	JAPANESE WALL

HEX Type Short

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
	Non-pack	Blister Pack				
	HEX100X280	HEX100X280BP	10.0	280	162	6
○	HEX105X280	HEX105X280BP	10.5			
	HEX110X280	HEX110X280BP	11.0			
△	HEX120X280	HEX120X280BP	12.0			
○	HEX125X280	HEX125X280BP	12.5			
○	HEX127X280	HEX127X280BP	12.7			
	HEX130X280	HEX130X280BP	13.0			
	HEX135X280	HEX135X280BP	13.5			
	HEX140X280	HEX140X280BP	14.0			
	HEX143X280	HEX143X280BP	14.3			
○	HEX145X280	HEX145X280BP	14.5			
	HEX150X280	HEX150X280BP	15.0			
○	HEX160X280	HEX160X280BP	16.0			
	HEX165X280	HEX165X280BP	16.5	280	162	6
○	HEX170X280	HEX170X280BP	17.0			
	HEX175X280	HEX175X280BP	17.5			
○	HEX180X280	HEX180X280BP	18.0			
○	HEX190X280	HEX190X280BP	19.0			
	HEX200X280	HEX200X280BP	20.0			
△	HEX215X280	HEX215X280BP	21.5			
○	HEX220X280	HEX220X280BP	22.0			
	HEX225X280		22.5	280	162	3
	HEX230X280		23.0			
△	HEX240X280		24.0			
	HEX250X280		25.0			
	HEX255X280		25.5			
	HEX260X280		26.0			
	HEX265X280		26.5			
○	HEX280X280		28.0			
	HEX285X280		28.5			
	HEX290X280		29.0			
	HEX300X280		30.0			
△	HEX320X280		32.0			
	HEX350X280		35.0	280	162	2
	HEX380X280		38.0			
	HEX400X280		40.0			

HEX Type Long

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
	HEXL10.5X505	10.5	505	387	1	
	HEXL12.0X505	12.0				
	HEXL12.5X505	* 12.5				
△	HEXL12.7X505	12.7				
	HEXL14.3X505	14.3				
○	HEXL14.5X505	14.5				
	HEXL15.0X505	15.0				
△	HEXL16.0X505	16.0				
	HEXL16.5X505	* 16.5				
	HEXL17.0X505	17.0				
	HEXL17.5X505	17.5				
○	HEXL18.0X505	18.0				
○	HEXL19.0X505	19.0				
○	HEXL20.0X505	20.0				
	HEXL21.5X505	21.5				
△	HEXL22.0X505	22.0				
△	HEXL24.0X505	24.0	505	387	1	
	HEXL25.0X505	25.0				
	HEXL25.5X505	25.5				
	HEXL26.0X505	26.0				
	HEXL28.0X505	28.0				
○	HEXL28.5X505	28.5				
	HEXL29.0X505	29.0				
	HEXL30.0X505	30.0				
	HEXL32.0X505	32.0				
	HEXL34.0X505	34.0				
	HEXL36.0X505	36.0				
	HEXL38.0X505	38.0				
	HEXL40.0X505	40.0				

Items marked * are special size. Please confirm stock before ordering.

HEX Type Super Long

Code	Overall Length (mm)	Effective Length (mm)		Code	Overall Length (mm)	Effective Length (mm)		Code	Overall Length (mm)	Effective Length (mm)	
HEXL14.3X600	600	460		HEXL14.3X800	800	660		HEXL143X1000	1,000	860	
HEXL14.5X600				HEXL14.5X800				HEXL145X1000			
HEXL16.0X600				HEXL16.0X800				HEXL160X1000			
HEXL17.0X600				HEXL17.0X800				HEXL170X1000			
HEXL17.5X600				HEXL17.5X800				HEXL175X1000			
HEXL18.0X600				HEXL18.0X800				HEXL180X1000			
HEXL19.0X600				HEXL19.0X800				HEXL190X1000			
HEXL21.5X600				HEXL21.5X800				HEXL215X1000			
HEXL22.0X600				HEXL22.0X800				HEXL220X1000			
HEXL25.0X600				HEXL25.0X800				HEXL250X1000			



● Matching drill

	Manufacturer	Model No.
Hammer Drill	HITACHI	PR25B
		DH35
		PR-38E
		DH42
		DH40SA
		DH40SR
		DH45SA
	MAKITA	HR3530
		HR3520
		HR3850
		HR3811
		HR4030C
	RYOBI	ED-382NPA
		ED-382NA
		ED-383N

Hexagonal Shank Drill Bit (For Stone)

- Adopts an ultra-hard tip suitable for stone material.
- The drill bit exclusive to hammer drills enables efficient transfer of the hammering impact and the spinning force.

STONE



For RESIN-A (Glass Capsule)

	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Anchor Size	Bolt Size
Bolt	10.0	280	162	HC-8U	M8, W5/16
	12.0			HC-10U, SE-10	M10, W3/8
	14.0			SE-12	M12, W1/2
	* 15.0			HC-12U	M12, W1/2
	18.0			SE-16	M16, W5/8
	19.0			HC-16U	M16, W5/8
	25.0	330	210	HC-20U, SE-20	M20, W3/4
	26.0			SE-22	M22, W7/8
	28.0	380	260	SE-24	M24, W1
D bar	12.5	280	162	HC-10U	D10
	13.0			SE-10	D10
	16.0			HC-12U, SE-12	D13
	20.0			HC-16U, SE-16	D16
	25.0	330	210	HC-20U, SE-20	D19
	28.0	380	260	SE-22	D22
	32.0	420	300	SE-24	D25

For Stone

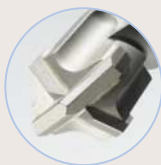
Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box
HEXSB190X280	19.0	280	162	1
HEXSB220X280	22.0			
HEXSB105X505	10.5	505	387	1
HEXSB127X505	12.7			
HEXSB145X505	14.5			
HEXSB160X505	16.0			
HEXSB180X505	18.0			
HEXSB190X505	19.0			
HEXSB200X505	20.0			
HEXSB220X505	22.0			
HEXSB145X600	14.5	600	460	1
HEXSB160X600	16.0			
HEXSB180X600	18.0			
HEXSB190X600	19.0			
HEXSB220X600	22.0			
HEXSB145X800	14.5	800	660	1
HEXSB160X800	16.0			
HEXSB175X800	17.5			
HEXSB180X800	18.0			
HEXSB190X800	19.0			
HEXSB220X800	22.0			
HEXSB250X800	25.0			

*Products any size outside the standard are also available by special order. Contact us for terms and conditions, etc.

Hexagonal Shank Drill Bit



- Hammer drill exclusive bit efficiently transmits hammering rotation force without loss.
- Anchor insertion is smoothly performed because hole drilling close to a perfect circle is possible.
- Stable drilling ability is maintained by cross blades which seize less even when they contact reinforced steel and the cutting edge and outer diameter wear less.



Applicable Electric Tool **Hammer Drill**



CONCRETE	STONE
BLOCK / BRICK	MORTAR
SLATE	JAPANESE WALL

HUX Type

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
	HUX10.0X280	10.0	280	162	6	
⊙	HUX10.5X280	10.5				
	HUX12.0X280	12.0				
	HUX12.5X280	12.5				
⊙	HUX12.7X280	12.7				
	HUX13.0X280	13.0				
	HUX14.0X280	14.0				
⊙	HUX14.5X280	14.5				
	HUX15.0X280	15.0				
△	HUX16.0X280	16.0				
⊙	HUX16.5X280	16.5				
	HUX17.0X280	17.0				
△	HUX18.0X320	18.0	320	202	1	
△	HUX19.0X320	19.0				
	HUX20.0X320	20.0				
	HUX21.5X320	21.5				
	HUX22.0X320	22.0				
	HUX22.5X320	22.5				
△	HUX23.0X320	23.0				
	HUX24.0X320	24.0				
	HUX25.0X320	25.0				
	HUX26.0X320	26.0				
	HUX27.0X320	27.0				
	HUX28.0X320	28.0				
	HUX30.0X320	30.0				
	HUX32.0X320	32.0				
	HUX33.0X320	33.0				
	HUX34.0X320	34.0				

HUX Type Long

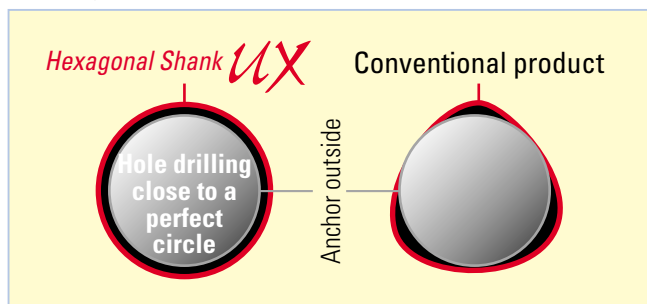
	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
	HUXL16.0X420	16.0	420	302	1	
	HUXL18.0X420	18.0				
△	HUXL19.0X420	19.0				
	HUXL20.0X420	20.0				
	HUXL22.0X420	22.0				
○	HUXL23.0X420	23.0				
○	HUXL24.0X420	24.0				
	HUXL25.0X420	25.0				
△	HUXL26.0X420	26.0				
	HUXL28.0X420	28.0				
	HUXL30.0X420	30.0				
	HUXL32.0X420	32.0				
	HUXL34.0X420	34.0				

HUX Type Long

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
	HUXL24.0X505	24.0	505	387	1	
△	HUXL25.0X505	25.0				
	HUXL26.0X505	26.0				
△	HUXL28.0X505	28.0				
	HUXL30.0X505	30.0				
△	HUXL32.0X505	32.0				
	HUXL33.0X505	33.0				
	HUXL34.0X505	34.0				
	HUXL35.0X505	35.0				

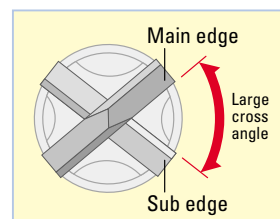
● Hole drilling close to perfect circles realized.

Realizes performance hole drilling close to a perfect circle and anchor insertion is also smooth by adoption of the cross blade for cutting edge. In addition, vibration loads during work are reduced.



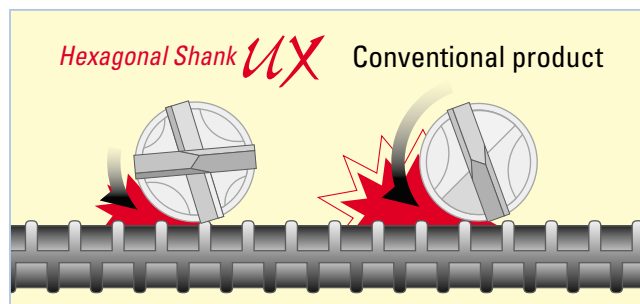
● Cross blade

The cross blade which has been developed consists of a main edge and an auxiliary edge, and has a larger cross angle and improved reinforced steel resistance performance. (Dia: over 16mm)



● Improvement in reinforced steel resistance performance

Stable drilling ability is maintained because cross blades seize less even when they contact reinforced steel and there is less friction between the cutting edge and outer diameter in comparison with the conventional product (one blade).



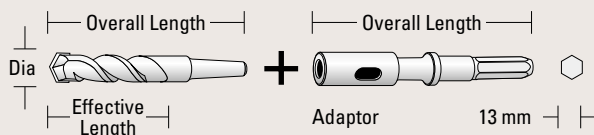
Taper Shank Drill Bit

TP Type



- All sizes can be interchanged using a single tapered-shank adaptor.
- Offering economy with productivity : ideal for all kinds of sites requiring drilling.

Applicable Electric Tool Hammer Drill



CONCRETE	STONE
BLOCK / BRICK	MORTAR
SLATE	JAPANESE WALL

TP Type Short

Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box
TP6.4X100	6.4	100	50	10
TP6.5X100	6.5			
TP7.0X100	7.0			
TP7.5X100	7.5			
TP8.0X115	8.0	115	60	10
TP8.5X115	8.5			
TP9.0X115	9.0			
TP9.5X115	9.5			
TP10.0X120	10.0	120	70	10
TP10.5X120	10.5			
TP11.0X120	11.0			
TP12.0X120	12.0			
TP12.5X120	12.5			
TP12.7X120	12.7			
TP13.0X120	13.0			
TP13.5X120	13.5			
TP14.3X120	14.3			
TP14.5X120	14.5			
TP14.7X120	14.7			
TP16.0X130	16.0	130	80	6
TP16.5X130	16.5			
TP17.0X130	17.0			
TP17.5X130	17.5			
TP18.0X130	18.0			
TP19.0X160	19.0	160	110	6
TP21.5X160	21.5			
TP22.0X160	22.0			

TP Type Long

Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box
TPL10.0X280	10.0	280	220	6
TPL10.5X280	10.5			
TPL11.0X280	11.0			
TPL12.0X280	12.0			
TPL12.5X280	12.5			
TPL12.7X280	12.7			
TPL13.0X280	13.0			
TPL13.5X280	13.5			
TPL14.0X280	* 14.0			
TPL14.3X280	14.3			
TPL14.5X280	14.5			
TPL15.0X280	* 15.0	280	220	6
TPL16.0X280	16.0			
TPL17.0X280	17.0			
TPL17.5X280	17.5			
TPL18.0X280	18.0			
TPL19.0X280	* 19.0			
TPL20.0X280	* 20.0			
TPL21.5X280	* 21.5			
TPL22.0X280	* 22.0			

Items marked * are special size. Please confirm stock before ordering.

TP Type Long (For Stone)

Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box
TPSB10.0X280	10.0	280	220	6
TPSB10.5X280	10.5			
TPSB11.0X280	11.0			
TPSB12.0X280	12.0			
TPSB12.5X280	12.5			

TP Type (Adaptor)

Code	Overall Length (mm)	Shank	Cotter	Pcs./Box
No.1	158	HEX	attached	6
No.1-SDS	120	SDS	—	1

*No. 1 = Morse taper (MT-1)

TP Type (Cotter)

Code	Overall Length (mm)



*Used for detaching bits.

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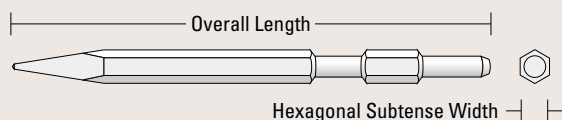
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Bull Point / Cold Chisel / Cutter / Scoop



- With low wear, these handle extended use with ease.
- Extremely durable cutting tip for powerful chiseling force.

Applicable Electric Tool **Hammer Drill / Hammer**



Bull Point				
Code	Hexagonal Width (mm)	Overall Length (mm)	Pcs./Box	Pcs./Ctn
HTB17X280	17	280	6	60
HTB17X450		450	1	—
HTB17X600		600		
HTB17X700		700		
HTB17X800		800		
HTB17X1000		1000		
HTB21X320	21	320	1	—
HTB21X450		450		
HTB30X410	30	410		
HTB30X310		310		



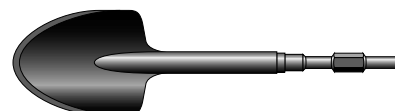
Cold Chisel				
Code	Hexagonal Width (mm)	Tip Width (mm)	Overall Length (mm)	Pcs./Box
HTC17X280	17	20	280	6
HTC17X450			450	1
HTC17X600			600	
HTC17X800			800	
HTC17X1000			1000	
HTC21X320	21	25	320	1
HTC21X450			450	
HTC30X410	30	32	410	
HTC30X310			310	



Cutter				
Code	Hexagonal Width (mm)	Overall Length (mm)	Tip Width (mm)	Pcs./Box
HTK17X280	17	280	50	1
HTK21X320	21	320	50	
HTK30X410	30	410	75	



Scoop				
Code	Hexagonal Width (mm)	Overall Length (mm)	Pcs./Box	
HTS17X400	17	405	1	
HTS21X450	21	450		
HTS30X480	30	450		



Matching drill

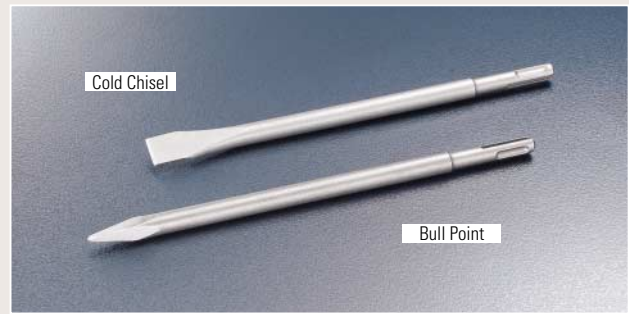
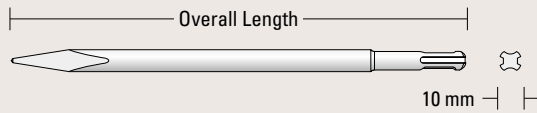
Hammer Drill/Hammer	Manufacturer	17mm	21mm	30mm	30mm×310mm
	HITACHI	PR25B · 38E	H50SA	PH65A	H90
		PH40F	H55SB	H65SB2	
		H41SA · 41SA2 · 41SA2 (2)		H70SA	
		H45SR		(H65SA · SB)	
		DH35 · 40SR · 42 · 45SA (DH40SA)			
	MAKITA	HR3530	HM1 20 1	HM1 500	(8600N)
		HR3520		8600S	
		HR3850		HM1 304	
		HR3811		(HM1 303)	
		HR4030C			
		HMO810 · 0830 (8500N · 8800N · HM0810T)			
	RYOBI	ED-382NPA	(CH-485)		
		CH-461			
		CH-465A			
		(CH465 · 425 / ED-382NA)			

Bull Point / Cold Chisel (For SDS-plus)



- With low wear, these handle extended use with ease.
- Extremely durable cutting tip for powerful chiseling force.

Applicable Electric Tool Rotary Hammer Drill (SDS-plus)



Bull Point (for SDS-plus)

Code	SDS-plus Shank (mm)	Overall Length (mm)	Pcs./Box	
HTB10X250	10	250	1	



Cold Chisel (for SDS-plus)

Code	SDS-plus Shank (mm)	Overall Length (mm)	Pcs./Box	
HTC10X250	10	250	1	

Tip Width: 20 mm



Tile Chisel (for SDS-plus)

Code	SDS-plus Shank (mm)	Overall Length (mm)	Pcs./Box	
HTT10X260	10	260	1	

Tip Width: 40 mm



Flat Chisel (for SDS-plus)

Code	SDS-plus Shank (mm)	Overall Length (mm)	Pcs./Box	
HTF10X250	10	250	1	

Tip Width: 40 mm

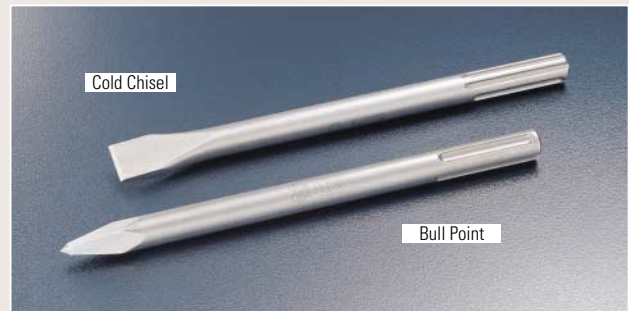
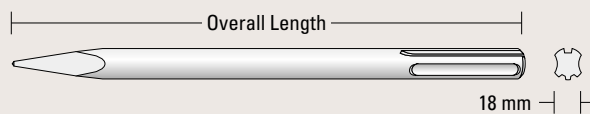


Bull Point / Cold Chisel (For SDS-max)



- With low wear, these handle extended use with ease.
- Extremely durable cutting tip for powerful chiseling force.

Applicable Electric Tool SDS-max Hammer Drill/Hammer



Bull Point (for SDS-max)

Code	SDS-max Shank (mm)	Overall Length (mm)	Pcs./Box	
HTB18X280	18	280	1	
HTB18X450		450		



Cold Chisel (for SDS-max)

Code	SDS-max Shank (mm)	Overall Length (mm)	Pcs./Box	
HTC18X280	18	280	1	
HTC18X450		450		



CONCRETE DRILLS



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SERIES CATALOGUE

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CONCRETE DRILL

Safety Precautions



WARNINGS

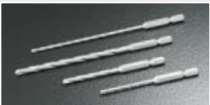
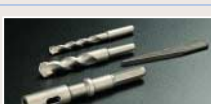
- ❑ Wear working clothes suitable for the operation. In particular, eye protection equipment must be worn to prevent shavings from getting into your eyes.
- ❑ Prepare the working environment before starting the job. Be careful to consider safety when working in high places, being close to inflammable materials, in dark places, in rain, in wet place, on scaffolding. Consider falling, fires, electric shock, etc.
- ❑ Be sure to check if there are any defects in the product before use. Never use the product if it has any defect.
- ❑ Be sure to turn off the main switch of the drill and disconnect the power supply plug from the socket before attaching and detaching the product.
- ❑ Do not touch the product, the shavings, or the drilled surface by hand because they may be hot by drilling friction.
- ❑ Never remodel or modify the product.
- ❑ Do not touch moving parts, especially the drill tip or blades.
- ❑ When you feel anything unusual in use, stop using the product and inspect it as well as the electrical drill.
- ❑ When using the product for any other application than is specified, be sure to contact UNIKA.
- ❑ Carefully read the instruction manual of the electrical drill used before using the product.



CAUTION

- ❑ Do not allow any person other than the working staff to enter the working place.
- ❑ Do not touch the blades by hand because they are very sharp.
- ❑ Please read handling description well when changing and assembling.
- ❑ Use spare parts that comply with the product specification.
- ❑ The product and its size must be appropriate for the specification of the electrical drill used.

CONCRETE DRILLS

Concrete Drill Bit B Type (Percussion)		63	SDS Tip Top Bit		71
Cordless Driver Drill Bit RJ Type		65	SDS-plus UX		73
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Cordless Diamond Core Bit DJW Type (For Ceramic Tile)		68	Hexagonal Shank Drill Bit		77
Ceramic Tile Drill Bit TR Type		69	Hexagonal Shank UX Drill Bit		79
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CONCRETE DRILL BITS USAGE CHART

		CONCRETE	BLOCK / BRICK	MORTAR	SLATE	ALC	JAPANESE WALL (whitewashed)	HARD EXTERIOR PANEL	SOFT EXTERIOR PANEL	METAL EXTERIOR PANEL	PLASTERBOARD	STONE	ROOF TILE	CERAMIC TILE	PORCELAIN TILE	PLASTICS	PVC	STEEL DECK PLATE
Concrete Drill Bits	Concrete Drill Bit B Type	◎	◎	◎	○	○	○	○	○	△	○	△						
	Cordless Driver Drill Bit RJ Type	△	○	◎	○	◎	◎	◎	◎	○	◎	△	○	○	◎	○	○	
	Cordless Percussion Drill Bit BJ Type	◎	◎	◎	○	○	○	○	○	△	○	△						
	Cordless Driver Drill Bit TJ Type (For Ceramic Tile)		○	○	◎	◎	○	◎	◎	○	◎		◎	◎	◎	○	○	
	Cordless Diamond Core Bit DJW Type	△	○	○	○			◎	◎		○	○	◎	◎	◎			
	Ceramic Tile Bit TR Type		○	○	◎	◎	○	◎	◎	○	◎		◎	◎	◎	○	○	
	Stone Bit SB Type	○	○	○	○	○	○	△	△	△	△	◎			△	△	△	
	SDS-plus Drill Bit	◎	◎	◎	○	○	○	△	△	△	△	◎						△
	SDS Tip Top Bit	◎	◎	◎	○	○	○	△	△	△	△	○						△
	SDS-plus UX	◎	◎	◎	○	○	○	△	△	△	△	○						◎
Chisels	SDS-max Bit	◎	○	○	○	△	○	△	△	△	△	◎						△
	Hexagonal Shank Drill Bit	◎	○	○	○	△	○	△	△	△	△	◎						△
	Tapered Shank Drill Bit	◎	○	○	○	△	○	△	△	△	△	◎						△
	Bull Point	◎	○	○	○							○						
	Cold Chisel	◎	○	○	○							○						

Concrete Drill Bit

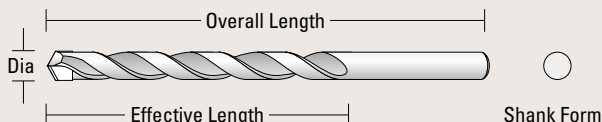
B Type



- A wide range of sizes to meet the broad needs of the work environment.
- Demonstrate an outstanding cutting feel with uniquely designed cutting edge shape and angle employing ultra-hard tips with emphasis on durability.
- SKS(alloy tool steel) material is selected for the under 5.0 mm sizes from the cutting edge giving excellent abrasion and shock resistance. This reduces snapping and bending of drill bits to a minimum.



Applicable Electric Tool **Percussion Drill**



CONCRETE	BLOCK / BRICK	MORTAR
SLATE	ALC	JAPANESE WALL
PLASTERBOARD	STONE	PORCELAIN TILE

B Type (Straight) Blister pack

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
○	B2.5X85BP	*2.5	85	50	10	
	B2.6X85BP	*2.6				
	B2.8X85BP	*2.8				
◎	B3.0X85BP	3.0				
○	B3.2X85BP	3.2				
◎	B3.4X85BP	3.4				
◎	B3.5X85BP	3.5				
△	B3.8X85BP	3.8				
○	B4.0X85BP	4.0				
◎	B4.3X85BP	4.3				
	B4.4X85BP	*4.4				
◎	B4.5X85BP	4.5				
○	B4.8X85BP	4.8				
◎	B5.0X85BP	5.0				
	B5.3X100BP	5.3	100	65	10	
	B5.4X100BP	5.4				
○	B5.5X100BP	5.5				
◎	B6.0X100BP	6.0				
◎	B6.4X100BP	6.4				
△	B6.5X100BP	6.5				
	B6.6X100BP	*6.6				
○	B7.0X125BP	7.0	125	75	10	
	B7.2X125BP	*7.2				
△	B7.5X125BP	7.5				
○	B8.0X125BP	8.0				
◎	B8.5X125BP	8.5				
	B8.7X125BP	*8.7				
△	B9.0X150BP	9.0	150	90	10	
	B9.5X150BP	9.5				
○	B10.0X150BP	10.0				
◎	B10.5X150BP	10.5				
△	B11.0X150BP	11.0				

Items marked * are special size. Please confirm stock before ordering.

B Type (Combination Straight)

	Code		Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
	Non-pack	Blister Pack					
○	B11.5X200	B11.5X200BP	11.5	200	120	6	
	B12.0X200	B12.0X200BP	12.0				
	B12.3X200	B12.3X200BP	*12.3				
○	B12.5X200	B12.5X200BP	12.5				
○	B12.7X200	B12.7X200BP	12.7				
	B13.0X200	B13.0X200BP	13.0				
	B13.5X200	B13.5X200BP	13.5				
△	B14.0X200	B14.0X200BP	14.0				
	B14.3X200	B14.3X200BP	14.3				
○	B14.5X200	B14.5X200BP	14.5				
	B15.0X200	B15.0X200BP	15.0				
	B16.0X240	B16.0X240BP	16.0	240	120	6	
	B16.5X240	B16.5X240BP	16.5				
	B17.0X240	B17.0X240BP	17.0				
	B17.5X240	B17.5X240BP	17.5				
△	B18.0X240	B18.0X240BP	18.0				
	B19.0X240	B19.0X240BP	19.0				
	B19.2X240	B19.2X240BP	*19.2				
	B20.0X240	B20.0X240BP	20.0				
	B21.0X240	B21.0X240BP	21.0				
	B21.5X240	B21.5X240BP	21.5				
	B22.0X240	B22.0X240BP	22.0				
	B23.0X280		23.0	280	140	3	
	B24.0X280		24.0				
	B25.0X280		25.0				
	B25.5X280		25.5				
	B26.0X280		26.0				
	B27.0X280		27.0				
	B28.0X280		28.0				
	B28.5X280		28.5				
	B29.0X280		29.0				
	B30.0X280		30.0				
	B32.0X280		32.0				
	B35.0X280		35.0	280	140	1	
	B38.0X280		38.0				
	B40.0X280		40.0				

Items marked * are special size. Please confirm stock before ordering.



TOOL BOX SET

There is also the tool box set which is convenient to carrying and receiving.

[Concrete Drill Set] 10 Pcs Set [TB-20]

(Overall Length: 85 mm Type)
3.2/3.5/4.3/4.5/4.8/5.0mm×each 1

(Overall Length: 100 mm Type)
6.0/6.4mm×each 1

(Overall Length: 125 mm Type)
8.0/8.5mm×each 1

*Products any size outside the standard are also available by special order. Contact us for terms and conditions, etc.

Cordless Driver Drill Bit

RJ Type

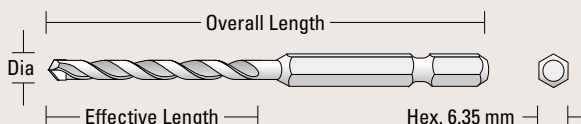


- The integral configuration from shank to cutting edge enables reliable drilling.
- Can be used in either rotating or impact modes.
- Easily attached to various types of rechargeable drill.

*No use by percussion drill.



Applicable Electric Tool Cordless Drill / Driver Drill / Electric Drill (under 400W)



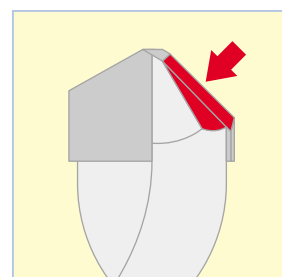
BLOCK / BRICK	MORTAR	JAPANESE WALL	ALC
CERAMIC TILE	PORCELAIN TILE	CONCRETE	SLATE
ROOF TILE	PLASTIC	PVC	EXTERIOR PANELS

RJ Type						Blister pack
	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
△	RJ25X90	2.5	90	37	10	
	RJ28X90	2.8				
○	RJ30X90	3.0	90	45	10	
○	RJ32X90	3.2				
○	RJ34X90	3.4				
○	RJ35X90	3.5				
	RJ38X95	3.8	95	50	10	
○	RJ40X95	4.0				
○	RJ43X95	4.3				
○	RJ45X95	4.5				
△	RJ48X95	4.8				
○	RJ50X95	5.0				
	RJ53X100	5.3	100	55	10	
	RJ55X100	5.5				
○	RJ60X100	6.0				
○	RJ64X100	6.4				
	RJ65X100	6.5				
	RJ70X115	7.0	115	65	10	
	RJ72X115	7.2				
	RJ75X115	7.5				
	RJ80X115	8.0				
	RJ85X115	8.5				
	RJ90X115	9.0				
	RJ95X135	9.5	135	85	10	
	RJ10.0X135	10.0				
	RJ10.5X135	10.5				

RJ Type Long						Blister pack
	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
○	RJL34X150	3.4	150	100	10	
○	RJL35X150	3.5				
	RJL40X150	4.0				
○	RJL43X150	4.3				
△	RJL45X150	4.5				
	RJL48X150	4.8				
△	RJL50X150	5.0				
	RJL53X150	5.3	150	100	10	
	RJL55X150	5.5				
△	RJL60X150	6.0				
△	RJL64X150	6.4				
	RJL65X150	6.5				

Asymmetric cutting edge shape

Asymmetrical grinding the TCT tip of the cutting edge reduces cutting resistance, enabling work material drilling with low torque.



Cordless Driver Drill Bit (Set of 5)

Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Set	Set/Box	
DP5-RJ34	3.4	90	45	5	5	
DP5-RJ35	3.5	90	45			
DP5-RJ43	4.3	95	50			

Cordless Driver Drill Bit (Set of 3)

Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Set	Set/Box	
DP3-RJ34	3.4	90	45	3	5	
DP3-RJ35	3.5	90	45			
DP3-RJ43	4.3	95	50			

Cordless Driver Drill Bit (Handy size/Set of 5)

Code	Diameter (mm)				Pcs./Set	Set/Box	
DPRJ-5A	3.5	4.8	5.0	6.0	6.4	5	5
DPRJ-5B	3.4	4.3	4.5	4.8	6.4		
DPRJ-5C	3.4	4.8	5.0	6.0	6.4		

Cordless Driver Drill Bit (Handy size/Set of 3)

Code	Diameter (mm)				Pcs./Set	Set/Box	
DPRJ-3A	3.5	4.8	6.4			3	5
DPRJ-3B	4.5	4.8	6.4				
DPRJ-3C	3.4	4.8	6.4				



CORDLESS DRIVER DRILL BIT SET
(Set of 5)



CORDLESS DRIVER DRILL BIT SET
(Set of 3)

Cordless Percussion Drill Bit

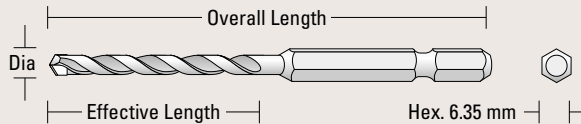
BJ Type



- Adaptation to vibration drill allows for drilling in concrete with Percussion mode.
 - Integral configuration from shank to cutting edge eliminates deflection and chatter of cutting edge, allowing for correct drilling.
 - Adoption of 6.35mm hexagonal shaft shank improves torque transmission efficiency.
- *This cannot be used with an impact driver.



Applicable Electric Tool Percussion Drill (under 400W) / Cordless Percussion Drill



CONCRETE	BLOCK / BRICK	MORTAR
SLATE	ALC	JAPANESE WALL
PLASTERBOARD	STONE	PORCELAIN TILE

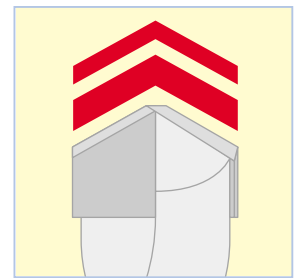
BJ Type						Blister pack
	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
○	BJ30X90	3.0	90	45	10	
△	BJ32X90	3.2				
◎	BJ34X90	3.4				
◎	BJ35X90	3.5				
	BJ38X95	3.8	95	50	10	
	BJ40X95	4.0				
○	BJ43X95	4.3				
△	BJ45X95	4.5				
	BJ48X95	4.8				
△	BJ50X95	5.0				
	BJ53X100	5.3	100	55	10	
	BJ55X100	5.5				
○	BJ60X100	6.0				
△	BJ64X100	6.4				
	BJ65X100	6.5				

Cutting edge adaptable to percussion mode

Combination of cutting edge shape and special cemented carbide tip allows for secure drilling in concrete.

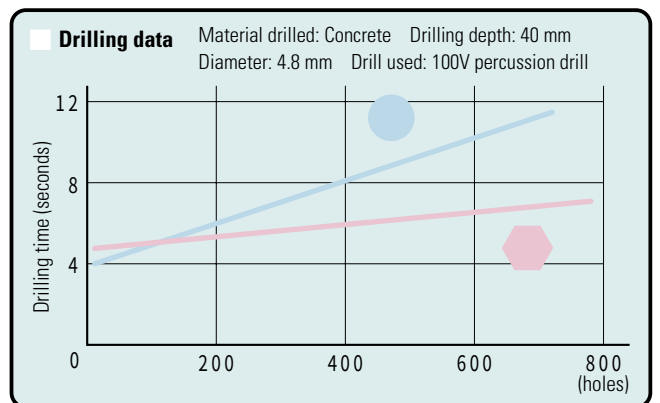
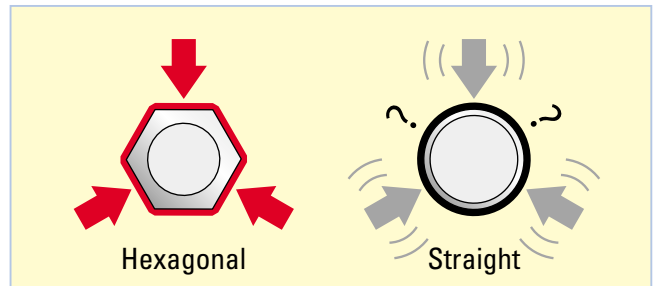
[Caution]

Impact driver has weak impact force, therefore, cannot drill in concrete.



Hexagonal shank

Hexagonal shaft can be firmly chucked in vibration drill, therefore, stable sharpness can be maintained with no slip of the chuck.



Cordless Driver Drill Bit (For Ceramic Tile)

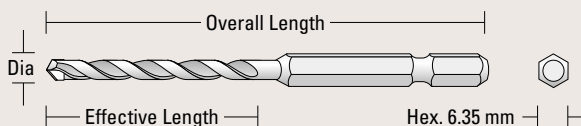
TJ Type



- Cutting edge configuration dedicated to impact driver realizes abrasion resistance to tiles and durability.
- Integral configuration eliminates deflection and chatter of cutting edge, allowing for correct drilling.
- Can be used in either rotating or impact modes.
- Easily attached to various types of cordless drills in a single operation.

*This cannot be used for an vibration drill.

Applicable Electric Tool Cordless Drill / Driver Drill / Electric Drill (under 400W)



CERAMIC TILE	ROOF TILE	PORCELAIN TILE
SLATE	ALC	PLASTERBOARD
BLOCK / BRICK	MORTAR	PLASTIC

TJ Type						Blister pack
	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
○	TJ3.0X90	3.0	90	45	10	
◎	TJ3.2X90	3.2				
◎	TJ3.4X90	3.4				
◎	TJ3.5X90	3.5				
	TJ3.8X95	3.8	95	50	10	
○	TJ4.0X95	4.0				
○	TJ4.3X95	4.3				
△	TJ4.5X95	4.5				
	TJ4.8X95	4.8				
△	TJ5.0X95	5.0				
	TJ5.3X100	5.3	100	55	10	
	TJ5.5X100	5.5				
○	TJ6.0X100	6.0				
△	TJ6.4X100	6.4				
	TJ6.5X100	6.5				

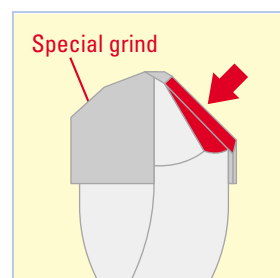


One-touch attachable to the impact driver

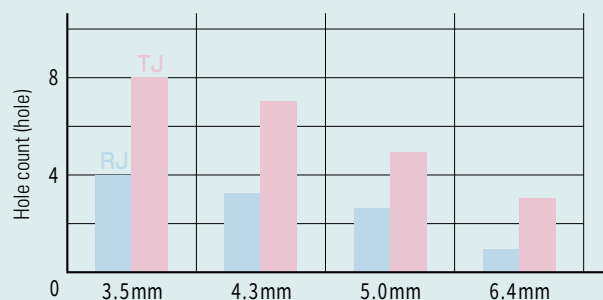
Asymmetric cutting edge shape

Asymmetrical grinding of the TCT tip of the cutting edge reduces cutting resistance, enabling work material drilling with low torque.

Application of special grind realizes abrasion resistance to tiles and durability.



Drilling data (Dry drilling) Material drilled: Ceramic tile Material thickness: 8 mm
Drill used: 12V impact driver



*The hole drilling count varies depending on the type.

Cordless Diamond Core Bit (For Ceramic Tile)

DJW Type

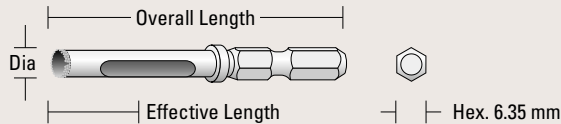
Semi-dry

Rotation + Impact

- When using the specially developed wax, no water cooling is required.
- This brazed diamond cutter tool is ideal on an impact electric driver. Offers fast drilling and long life.
- With the positioning guide, stable drilling is assured.

*The positioning guide is sold optionally.

Applicable Electric Tool Cordless Drill / Driver Drill / Electric Drill (under 400W)



CERAMIC TILE

HARD TILE

MARBLE

STONE MATERIAL TILE

GRANITE STONE

ROOF TILE

DJW Type (Semi-dry wax was enclosed)

Blister pack

Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
DJW50X60S	5.0	60	15	5	
DJW60X60S	6.0				
DJW64X60S	6.4				
DJW70X60S	7.0				
DJW80X60S	8.0				
DJW100X60S	10.0				
DJW120X60S	12.0				
DJW150X60S	15.0				
DJW200X76S	20.0	76	15	3	
DJW250X76S	25.0				
DJW300X76S	30.0				
DJW320X76S	32.0				
DJW350X76S	35.0				

Positioning Guide

Code	Matching hole Diameter (mm)	
DJW-PGDV	5~35	

*In use, Immediately after use the tool gets quite hot. Definitely do not touch with bare hands.

*Make sure the diamond core drill diameter size matches the drilling guide before drilling.

*For positioning and aligning, use the V-groove guide which fits all sizes.

Just apply the semi-dry wax to the drilling edge.

Due to the special cooling properties in the semi-dry wax, there is no need for using messy water when the wax is applied.



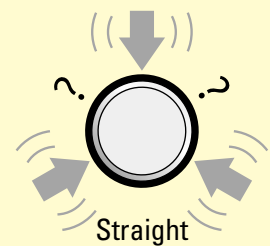
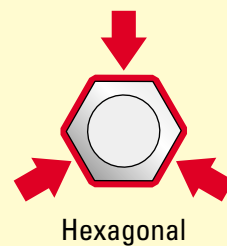
Notes on the use of semi-dry wax

During use and immediately after use, the core drill and cutting waste becomes very hot so take care of that to not touch it with bare hands.

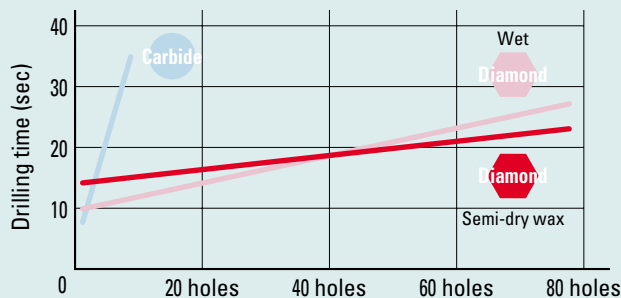
In addition, after drilling porcelain shavings and used wax may be scattered around the work area, therefore prepare the surrounding area for it.

Hexagonal shank

Due to its 6.35mm HEX shank, stable holding and positioning is assured.



Drilling data (Wet drilling) Material drilled: Ceramic tile Material thickness: 8 mm
Diameter: 6.0 mm Drill used: Impact driver

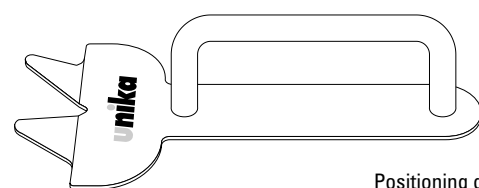
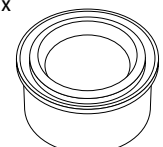
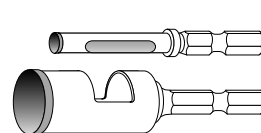


You will get about the same performance as when fully using water but without all the water mess.

Drilling components

Cordless Diamond Core Bit

Semi-dry wax



Positioning guide

Ceramic Tile Drill Bit

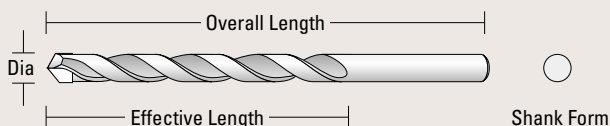
TR Type



- Ideal for drilling approximately 10 to 15 ceramic tiles.
- Uses a special ultra-hard tip to maintain drilling performance. Drills efficiently through even difficult materials.
- Even more outstanding cutting efficiency and durability is demonstrated if cooled using water when drilling.



Applicable Electric Tool Electric Drill / Percussion Drill (rotating mode)



CERAMIC TILE	ROOF TILE	PORCELAIN TILE
SLATE	ALC	PLASTERBOARD
BLOCK / BRICK	MORTAR	PLASTIC

● Appropriate rotation speed of electric drill used

3.0~11.0	Use the drill at 1,000 rpm or less.				
	500	1,000	1,500	2,000	2,500
	Rotation Speed (rpm)				

● Chuck size

Drill bit of all sizes attachable to the 10 mm chuck.

● Comparison of hole drilling count when water is used and not used

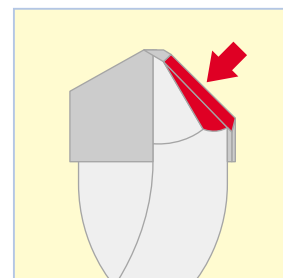
Water not used	Dia	8~10 times	
Water used	6.4mm		10~15 times
Water not used	Dia	8~10 times	
Water used	4.8mm		10~15 times
		5	10
		15	Hole Drilling

*The hole drilling count varies depending on the tile type.

TR Type						Blister pack
	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
○	TR30X85	3.0	85	50	10	
△	TR32X85	3.2				
◎	TR34X85	3.4				
◎	TR35X85	3.5				
△	TR38X85	3.8				
○	TR40X85	4.0				
◎	TR43X85	4.3				
◎	TR45X85	4.5				
○	TR48X85	4.8				
◎	TR50X85	5.0				
	TR53X100	5.3	100	65	10	
△	TR55X100	5.5				
◎	TR60X100	6.0				
○	TR64X100	6.4				
	TR65X100	6.5				
	TR70X125	7.0	125	75	10	
	TR72X125	7.2				
	TR75X125	7.5				
○	TR80X125	8.0				
△	TR85X125	8.5				
	TR90X150	9.0	150	90	10	
	TR95X150	9.5				
	TR100X150	10.0				
	TR105X150	10.5				
	TR110X150	11.0				

● Asymmetric cutting edge shape

Asymmetrical grinding the TCT tip of the cutting edge reduces cutting resistance, enabling work material drilling with low torque.



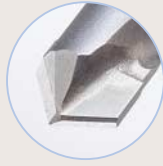
*Products any size outside the standard are also available by special order. Contact us for terms and conditions, etc.

Stone Drill Bit

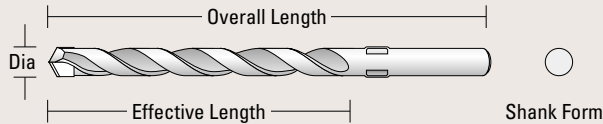
SB Type



- Handles stone from general types to hard-to-drill granite with excellent cutting feel and durability.
- The “anti-slip” engraved on the shank realizes effective power transmission.
- Even more outstanding cutting efficiency and durability is demonstrated if cooled using water when drilling.



Applicable Electric Tool Percussion Drill



STONE	CONCRETE
MORTAR	BLOCK / BRICK
SLATE	JAPANESE WALL

● Appropriate rotation speed of electric drill used

6.0~ 6.4						1,500~2,000
4.8~ 5.0						2,000~2,500
	500	1,000	1,500	2,000	2,500	Rotation Speed (rpm)

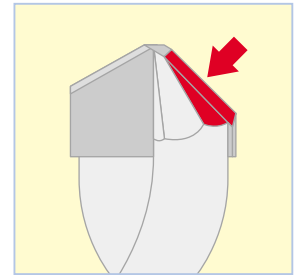
● Chuck size

Drill bit of all sizes attachable to the 10 mm chuck.

SB Type						Blister pack
	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
○	SB3.0X85BP	3.0	85	50	10	
△	SB3.2X85BP	3.2				
○	SB3.4X85BP	3.4				
◎	SB3.5X85BP	3.5				
◎	SB4.0X85BP	4.0				
△	SB4.3X85BP	4.3				
	SB4.5X85BP	4.5				
	SB4.8X85BP	4.8				
○	SB5.0X85BP	5.0				
	SB5.5X100BP	5.5	100	65	10	
◎	SB6.0X100BP	6.0				
○	SB6.4X100BP	6.4				
	SB7.0X125BP	7.0	125	75	10	
△	SB8.0X125BP	8.0				

● Asymmetric cutting edge shape

Asymmetrical grinding the TCT tip of the cutting edge reduces cutting resistance, enabling work material drilling with low torque.



*Products any size outside the standard are also available by special order. Contact us for terms and conditions, etc.

SDS Tip Top Bit

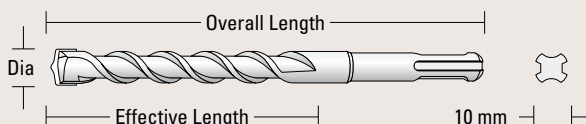
TT Type



- Work material is sharply drilled and drilling speed is increased by candle-shaped cemented carbide tip and thinning the cutting edge.
- The center point at the top end of the cemented carbide tip offers excellent positioning performance, allowing for hole drilling close to a perfect circle.
- The center point prevents runout during drilling.



Applicable Electric Tool **Rotary Hammer Drill (SDS-plus)**



CONCRETE	BLOCK / BRICK
MORTAR	SLATE
JAPANESE WALL	STONE

TT Type

Blister pack

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
	TT32X1 10BP	3.2	110	45	10	
⊙	TT34X1 10BP	3.4				
⊙	TT35X1 10BP	3.5				
	TT38X1 10BP	3.8				
△	TT40X1 10BP	4.0				
⊙	TT43X1 10BP	4.3				
○	TT45X1 10BP	4.5				
○	TT48X1 10BP	4.8				
⊙	TT50X1 10BP	5.0				
	TT53X1 10BP	5.3				
	TT54X1 10BP	5.4				
△	TT55X1 10BP	5.5				
○	TT60X1 10BP	6.0				
△	TT64X1 10BP	6.4				

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
⊙	TT34X1 60BP	3.4	160	100	10	
△	TT35X1 60BP	3.5				
⊙	TT43X1 60BP	4.3				
○	TT45X1 60BP	4.5				
	TT48X1 60BP	4.8				
○	TT50X1 60BP	5.0				
△	TT53X1 60BP	5.3				
	TT54X1 60BP	5.4				
△	TT55X1 60BP	5.5				
○	TT60X1 60BP	6.0				
○	TT64X1 60BP	6.4				
△	TT65X1 60BP	6.5				
△	TT70X1 60BP	7.0				
	TT72X1 60BP	7.2				
	TT75X1 60BP	7.5				
○	TT80X1 60BP	8.0				
⊙	TT85X1 60BP	8.5	160	100	10	
	TT90X1 60BP	9.0				
	TT95X1 60BP	9.5				
○	TT100X1 60BP	10.0				
⊙	TT105X1 60BP	10.5				
	TT110X1 60BP	11.0				
	TT115X1 60BP	11.5				
△	TT120X1 60BP	12.0				
⊙	TT125X1 60BP	12.5				
○	TT127X1 60BP	12.7				
	TT130X1 60BP	13.0				
	TT135X1 60BP	13.5				
	TT140X1 60BP	14.0				
	TT143X1 60BP	14.3				
⊙	TT145X1 60BP	14.5				
	TT150X1 60BP	15.0	160	100	6	
	TT160X1 60BP	16.0				
△	TT165X1 60BP	16.5				
	TT170X1 60BP	17.0				
	TT175X1 60BP	17.5				
○	TT180X1 60BP	18.0				

SDS Tip Top Bit (Set of 5)

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Set	Set/Box	
○	DP5-T34	3.4	110	45	5	5	
△	DP5-T35	3.5					
	DP5-T43	4.3					

SDS Tip Top Bit (Set of 3)

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Set	Set/Box	
⊙	DP3-T34	3.4	110	45	3	5	
○	DP3-T35	3.5					
△	DP3-T43	4.3					
	DP3-T50	5.0					
	DP3-T60	6.0					



SDS TIP TOP BIT SET
(Set of 5)



SDS TIP TOP BIT SET
(Set of 3)

TOOL BOX SET

The tool box set is also convenient for carrying and storing.

[SDS Tip Top Bit Set] Set of 10 [TB-21TT]

(Overall Length: 110mm Type)

3.5/4.3/4.8/5.0mm×each 1

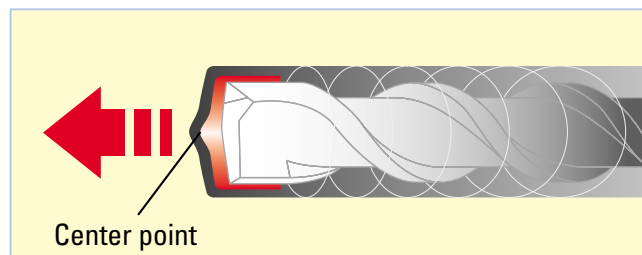
(Overall Length: 160mm Type)

6.4/8.5/10.5/12.5/12.7/14.5mm×each 1



● Drilling speed-up

Work material is sharply and quickly drilled by candle-shaped cemented carbide tip and thinning the cutting edge. The center point at the top end of the cemented carbide tip offers excellent positioning performance.



TT Type Long

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
	TTL80X210	8.0	210	150	1	
△	TTL85X210	8.5				
	TTL90X210	9.0				
	TTL95X210	9.5				
	TTL100X210	10.0				
	TTL105X210	10.5				
	TTL120X210	*12.0				
	TTL125X210	12.5				
	TTL127X210	12.7				
	TTL140X210	14.0				
	TTL145X210	14.5				
	TTL150X210	15.0				
	TTL160X210	16.0				
	TTL170X210	*17.0				
	TTL180X210	18.0				
○	TTL190X210	19.0				
△	TTL200X210	20.0				

TT Type Long

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
△	TTL10.0X260	10.0	260	200	1	
○	TTL10.5X260	10.5				
	TTL11.0X260	11.0				
	TTL12.0X260	12.0				
○	TTL12.5X260	12.5				
△	TTL12.7X260	12.7				
	TTL13.0X260	13.0				
	TTL13.5X260	13.5				
	TTL14.0X260	14.0				
	TTL14.3X260	14.3				
○	TTL14.5X260	14.5				
	TTL15.0X260	15.0				
	TTL16.0X260	16.0				
	TTL16.5X260	16.5				
	TTL17.0X260	17.0				
	TTL17.5X260	17.5				
△	TTL18.0X260	18.0				
	TTL19.0X260	19.0				
	TTL20.0X260	20.0				
	TTL21.5X260	21.5				
○	TTL22.0X260	22.0				
	TTL22.5X260	22.5				
	TTL23.0X260	23.0				
△	TTL24.0X260	24.0				
△	TTL25.0X260	25.0				
	TTL26.0X260	*26.0				

TT Type Long

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
	TTL10.0X350	10.0	350	290	1	
	TTL10.5X350	10.5				
	TTL11.0X350	*11.0				
	TTL12.0X350	12.0				
	TTL12.5X350	12.5				
	TTL12.7X350	12.7				
	TTL13.0X350	13.0				
	TTL13.5X350	13.5				
	TTL14.0X350	14.0				
	TTL14.3X350	*14.3				
	TTL14.5X350	14.5				
	TTL15.0X350	15.0				
	TTL16.0X350	16.0				
	TTL16.5X350	16.5				
	TTL17.0X350	17.0				
	TTL17.5X350	17.5				
	TTL18.0X350	18.0				
	TTL19.0X350	19.0				
	TTL20.0X350	20.0				
	TTL22.0X350	22.0				
	TTL23.0X350	*23.0				
	TTL24.0X350	24.0				
	TTL25.0X350	25.0				
	TTL26.0X350	*26.0				

TT Type Long

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
	TTL10.0X450	10.0	450	390	1	
○	TTL10.5X450	10.5				
	TTL12.0X450	12.0				
○	TTL12.5X450	12.5				
	TTL12.7X450	12.7				
	TTL13.5X450	*13.5				
	TTL14.3X450	14.3				
△	TTL14.5X450	14.5				
	TTL15.0X450	15.0				
	TTL16.0X450	16.0				
	TTL16.5X450	16.5				
	TTL17.0X450	17.0				
	TTL17.5X450	*17.5				
	TTL18.0X450	18.0				
	TTL19.0X450	19.0				
	TTL20.0X450	20.0				
	TTL22.0X450	22.0				
	TTL23.0X450	23.0				
	TTL24.0X450	24.0				
	TTL25.0X450	25.0				
	TTL26.0X450	26.0				

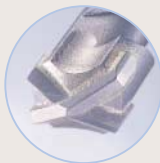
TT Type Super Long

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
	TTL10.0X1000	10.0	1,000	200	1	
	TTL12.0X1000	12.0				
○	TTL12.5X1000	12.5				
	TTL14.5X1000	14.5				
	TTL16.5X1000	16.5				

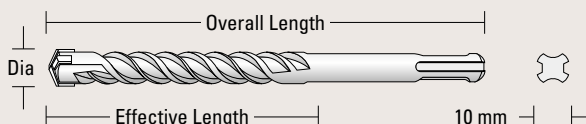
SDS-plus UX



- Adopts a cross blade for cutting edge that enables penetration through deck plates.
- Hole drilling at nearly perfect circles enabled. This realizes smooth anchor insertion.
- Cross blade less likely to become trapped with less wear of the cutting edge and outside diameter, when hitting against reinforcement bars. Stable drilling ability is maintained.



Applicable Electric Tool Rotary Hammer Drill (SDS-plus)



STEEL DECK PLATE + CONCRETE

BLOCK / BRICK

MORTAR

JAPANESE WALL

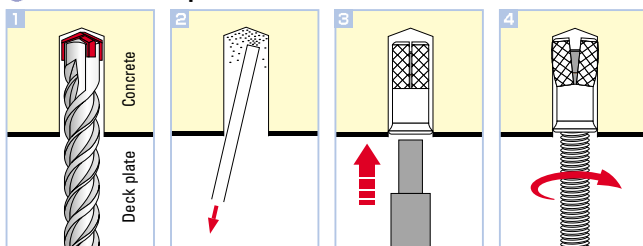
STONE

UX Type						Blister pack
	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
△	UX6.0X160	6.0	160	100	10	
△	UX6.4X160	6.4				
	UX6.5X160	6.5				
	UX7.0X160	7.0				
	UX7.2X160	7.2				
	UX7.5X160	7.5				
△	UX8.0X160	8.0	160	100	10	
⊙	UX8.5X160	8.5				
	UX9.0X160	9.0				
	UX9.5X160	9.5				
○	UX10.0X160	10.0				
⊙	UX10.5X160	10.5				
	UX11.0X160	11.0				
○	UX12.0X160	12.0				
⊙	UX12.5X160	12.5				
⊙	UX12.7X160	12.7				
	UX13.0X160	13.0				
	UX13.5X160	13.5				
	UX14.0X160	14.0				
	UX14.3X160	14.3				
⊙	UX14.5X160	14.5				
	UX15.0X160	15.0	160	100	6	
△	UX16.0X160	16.0				
○	UX16.5X160	16.5				
	UX17.0X160	17.0				
	UX17.5X160	17.5				
○	UX18.0X160	18.0				

UX Type Long					
	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box
	UX8.0X210	8.0	210	150	1
	UX8.5X210	8.5			
	UX9.0X210	9.0			
	UX10.0X210	10.0			
	UX10.5X210	10.5			
	UX12.0X210	12.0			
	UX12.5X210	12.5			
	UX12.7X210	12.7			
	UX14.0X210	14.0			
	UX14.5X210	14.5			
	UX15.0X210	15.0			
	UX16.0X210	16.0			
	UX17.0X210	17.0			
	UX18.0X210	18.0			
	UX19.0X210	19.0			
	UX20.0X210	20.0			

UX Type Long					
	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box
	UX10.0X260	10.0	260	200	1
	UX10.5X260	10.5			
	UX12.0X260	12.0			
	UX12.5X260	12.5			
	UX12.7X260	12.7			
	UX14.0X260	14.0			
	UX14.5X260	14.5			
	UX15.0X260	15.0			
	UX16.0X260	16.0			
	UX16.5X260	16.5			
	UX17.0X260	17.0			
	UX18.0X260	18.0			
	UX19.0X260	19.0			
	UX20.0X260	20.0			
	UX22.0X260	22.0			
	UX23.0X260	23.0			
	UX24.0X260	24.0			
	UX25.0X260	25.0			
	UX26.0X260	26.0			

Installation Example (Unicon Anchor)



NPOWER
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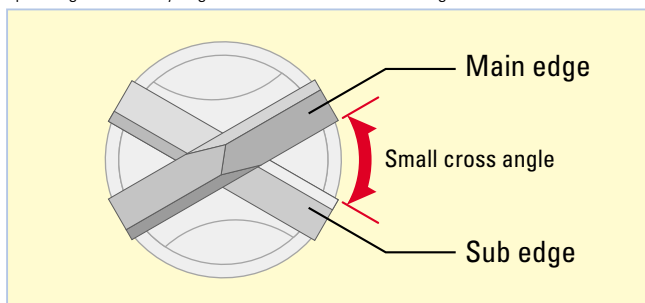
www.npower.com.vn

Tài liệu được tổng hợp bởi đội ngũ kỹ thuật của NPOWER Bản quyền nội dung thuộc về công ty Unika

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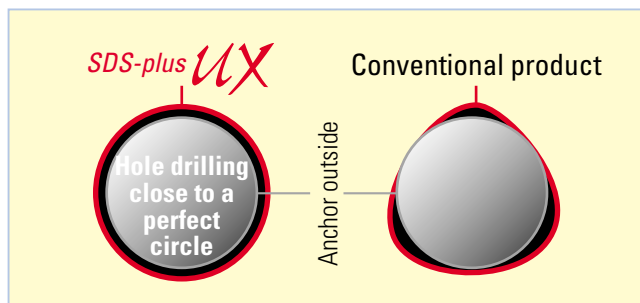
● Cross blade penetrates through deck plate

The cross blade developed to enable penetration through deck plate reduces the cross angle and prevents a reduction in drilling speed with the 2-edge (main, auxiliary) construction. Realizes hole drilling at nearly a perfect circle by proactively operating the auxiliary edge to outer circumference cutting.



● Hole drilling at nearly perfect circles realized

Adopts the cross blade for cutting edge that enables not only penetration through deck plates but also hole drilling close to a perfect circle. In addition, anchor insertion is smoothly performed and the vibration burden during work is reduced.



UX Type Long

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
	UXL100X350	10.0	350	290	1	
	UXL105X350	10.5				
	UXL110X350	11.0				
	UXL120X350	12.0				
	UXL125X350	12.5				
	UXL127X350	12.7				
	UXL130X350	13.0				
	UXL140X350	14.0				
	UXL143X350	14.3				
	UXL145X350	14.5				
	UXL150X350	15.0				
	UXL160X350	16.0				
	UXL165X350	16.5				
	UXL170X350	17.0				
	UXL175X350	17.5				
	UXL180X350	18.0				
	UXL190X350	19.0				
	UXL200X350	20.0				
	UXL220X350	22.0				
	UXL230X350	23.0				
	UXL240X350	24.0				
	UXL250X350	25.0				
	UXL260X350	26.0				

UX Type Spuer Long

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
	UXLL10.0X1000	10.0	1,000	200	1	
	UXLL12.0X1000	12.0				
	UXLL12.5X1000	12.5				

UX Type Long

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
	UXL100X450	10.0	450	390	1	
	UXL105X450	10.5				
	UXL120X450	12.0				
	UXL125X450	12.5				
	UXL135X450	13.5				
	UXL145X450	14.5				
	UXL160X450	16.0				
	UXL180X450	18.0				
	UXL190X450	19.0				
	UXL200X450	20.0				
	UXL220X450	22.0				
	UXL230X450	23.0				
	UXL240X450	24.0				
	UXL250X450	25.0				
	UXL260X450	26.0				

Bull Point (for SDS-plus)

	Code	
	HTB10X250	

Cold Chisel (for SDS-plus)

	Code	Tip Width: 20 mm
	HTC10X250	

Flat Chisel (for SDS-plus)

	Code	Tip Width: 40 mm
	HTF10X250	

Tile Chisel (for SDS-plus)

	Code	Tip Width: 40 mm
	HTT10X260	

SDS-plus Bit

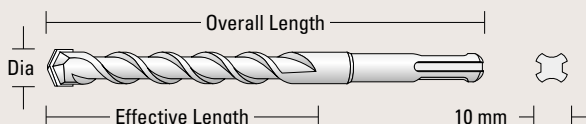
SDS Type



- Can be easily fitted to light hammer drills.
- The use of U-shaped grooves increases the power transfer area (60mm²), efficiently transmitting the hammer and rotation force to the cutting edge.
- A wide range is available, with bit diameters from 3.4 to 26.0mm, and overall lengths from 110 to 1000mm.



Applicable Electric Tool Rotary Hammer Drill (SDS-plus)



STONE	CONCRETE
BLOCK / BRICK	MORTAR
SLATE	JAPANESE WALL

SDS Type

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs/Box
	Non-pack	Blister Pack			
○	SDS3.2X110	SDS3.2X110BP	3.2	110	45
○	SDS3.4X110	SDS3.4X110BP	3.4		
○	SDS3.5X110	SDS3.5X110BP	3.5		
	SDS3.8X110	SDS3.8X110BP	3.8		
	SDS4.0X110	SDS4.0X110BP	4.0		
○	SDS4.3X110	SDS4.3X110BP	4.3		
	SDS4.5X110	SDS4.5X110BP	4.5		
	SDS4.8X110	SDS4.8X110BP	4.8		
	SDS5.0X110	SDS5.0X110BP	5.0		
	SDS5.3X110	SDS5.3X110BP	5.3		
	SDS5.4X110	SDS5.4X110BP	5.4		
	SDS5.5X110	SDS5.5X110BP	5.5		
	SDS6.0X110	SDS6.0X110BP	6.0		
△	SDS6.4X110	SDS6.4X110BP	6.4		

SDS-plus Bit (Set of 5)

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs/Set	Set/Box
○	DP5-S34	3.4	110	45	5	5
	DP5-S35	3.5				
○	DP5-S43	4.3				

SDS-plus Bit (Set of 3)

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs/Set	Set/Box
○	DP3-S34	3.4	110	45	3	5
○	DP3-S35	3.5				
△	DP3-S43	4.3				



SDS-plus BIT SET (Set of 5)



SDS-plus BIT SET (Set of 3)



TOOL BOX SET

The tool box set is also convenient for carrying and storing.

[SDS-plus Drill Set] Set of 10 [TB-21]

(Overall Length: 110mm Type)

3.5/4.3/4.8/5.0mm × each 1

(Overall Length: 160mm Type)

6.4/8.5/10.5/12.5/12.7/14.5mm × each 1

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs/Box
	Non-pack	Blister Pack			
○	SDS3.4X160	SDS3.4X160BP	3.4	160	100
	SDS3.5X160	SDS3.5X160BP	3.5		
○	SDS4.3X160	SDS4.3X160BP	4.3		
	SDS4.5X160	SDS4.5X160BP	4.5		
	SDS4.8X160	SDS4.8X160BP	4.8		
	SDS5.0X160	SDS5.0X160BP	5.0		
○	SDS5.3X160	SDS5.3X160BP	5.3		
	SDS5.4X160	SDS5.4X160BP	5.4		
	SDS5.5X160	SDS5.5X160BP	5.5		
	SDS6.0X160	SDS6.0X160BP	6.0		
○	SDS6.4X160	SDS6.4X160BP	6.4		
	SDS6.5X160	SDS6.5X160BP	6.5		
	SDS6.6X160	SDS6.6X160BP	6.6		
	SDS7.0X160	SDS7.0X160BP	7.0		
	SDS7.2X160	SDS7.2X160BP	7.2		
	SDS7.5X160	SDS7.5X160BP	7.5		
△	SDS8.0X160	SDS8.0X160BP	8.0		
○	SDS8.5X160	SDS8.5X160BP	8.5	160	100
	SDS8.7X160	SDS8.7X160BP	* 8.7		
	SDS9.0X160	SDS9.0X160BP	9.0		
	SDS9.5X160	SDS9.5X160BP	9.5		
	SDS10.0X160	SDS10.0X160BP	10.0		
○	SDS10.5X160	SDS10.5X160BP	10.5		
	SDS11.0X160	SDS11.0X160BP	11.0		
	SDS11.5X160	SDS11.5X160BP	11.5		
	SDS12.0X160	SDS12.0X160BP	12.0		
○	SDS12.5X160	SDS12.5X160BP	12.5		
	SDS12.7X160	SDS12.7X160BP	12.7		
	SDS13.0X160	SDS13.0X160BP	13.0		
	SDS13.5X160	SDS13.5X160BP	13.5		
	SDS14.0X160	SDS14.0X160BP	14.0		
	SDS14.3X160	SDS14.3X160BP	14.3		
△	SDS14.5X160	SDS14.5X160BP	14.5		
	SDS15.0X160	SDS15.0X160BP	15.0	160	100
	SDS16.0X160	SDS16.0X160BP	16.0		
	SDS16.5X160	SDS16.5X160BP	16.5		
	SDS17.0X160	SDS17.0X160BP	17.0		
	SDS17.5X160	SDS17.5X160BP	17.5		
△	SDS18.0X160	SDS18.0X160BP	18.0		
△	SDS19.0X200		19.0	200	140
	SDS20.0X200		20.0		
	SDS21.5X250		21.5	250	190
△	SDS22.0X250		22.0		
	SDS22.5X250		22.5	250	190
	SDS24.0X250		24.0		
	SDS25.0X250		25.0		

Items marked * are special size. Please confirm stock before ordering.

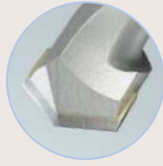
*Products any size outside the standard are also available by special order. Contact us for terms and conditions, etc.

SDS-max Bit

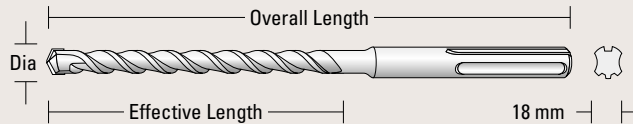
SDSMAX Type

Hammering + Rotation

- SDS-max shank hammer drill exclusive bit efficiently transmits a strong impact rotation force to a cutting edge without loss.
- Integral design from chuck section to cutting edge offers outstanding performance in boring and deep drilling work.
- Bull point for gouging hammer and cold chisel also comprise our product lineup.



Applicable Electric Tool SDS-max Hammer Drill



CONCRETE	STONE
BLOCK / BRICK	MORTAR
SLATE	JAPANESE WALL

SDS-max Type

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
△	SDSMAX100X305	10.0	305	165	1	
◎	SDSMAX105X305	10.5				
	SDSMAX110X305	11.0				
△	SDSMAX120X305	12.0				
○	SDSMAX125X305	12.5				
○	SDSMAX127X305	12.7				
	SDSMAX130X305	13.0				
	SDSMAX135X305	13.5				
	SDSMAX140X305	14.0				
	SDSMAX143X305	14.3				
◎	SDSMAX145X305	14.5				
	SDSMAX150X305	15.0				
○	SDSMAX160X305	16.0				
	SDSMAX165X305	16.5				
△	SDSMAX170X305	17.0				
	SDSMAX175X305	17.5				
◎	SDSMAX180X305	18.0				
○	SDSMAX190X305	19.0				
○	SDSMAX200X305	20.0	305	165	1	
△	SDSMAX215X305	21.5				
○	SDSMAX220X305	22.0				
	SDSMAX230X305	23.0				
△	SDSMAX240X305	24.0				
	SDSMAX250X305	25.0				
	SDSMAX255X305	25.5				
	SDSMAX260X305	26.0				
	SDSMAX280X305	28.0				
△	SDSMAX285X305	28.5				
	SDSMAX290X305	29.0				
	SDSMAX300X305	30.0				
	SDSMAX320X305	32.0				
	SDSMAX350X305	35.0				
	SDSMAX380X305	38.0				
	SDSMAX400X305	40.0				

SDS-max Type Long

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
	SDSMAX105X540	10.5	540	400	1	
	SDSMAX127X540	12.7				
	SDSMAX143X540	14.3				
	SDSMAX145X540	14.5				
△	SDSMAX160X540	16.0				
	SDSMAX170X540	17.0				
	SDSMAX180X540	18.0				
△	SDSMAX190X540	19.0				
	SDSMAX200X540	20.0				
	SDSMAX215X540	21.5				
	SDSMAX220X540	22.0				
	SDSMAX240X540	24.0	540	400	1	
	SDSMAX250X540	25.0				
	SDSMAX260X540	26.0				
	SDSMAX280X540	28.0				
	SDSMAX285X540	28.5				
	SDSMAX290X540	29.0				
	SDSMAX300X540	30.0				
	SDSMAX320X540	32.0				
	SDSMAX340X540	34.0				
	SDSMAX350X540	35.0				
	SDSMAX380X540	38.0				
	SDSMAX400X540	40.0				

Bull Point (for SDS-max)

Code	Matching Drill	Pcs./Box	
HTB18X280	SDS-max hammer drill	1	
HTB18X450	SDS-max hammer	1	



Cold Chisel (for SDS-max)

Code	Matching Drill	Pcs./Box	
HTC18X280	SDS-max hammer drill	1	
HTC18X450	SDS-max hammer	1	



Hexagonal Shank Drill Bit

HEX Type



- The drill bit exclusive to hammer drills enables efficient transfer of the hammering impact and the spinning force.
- The integral design from chuck section to cutting edge offers outstanding performance in piercing and deep drilling work.
- The range also includes bits for drilling holes for anchors, and bits for slope-finishing work, widely meeting work requirements.



*For hole drilling of stone material, use a drill for stone.

Applicable Electric Tool Hammer Drill



CONCRETE	* STONE
BLOCK / BRICK	MORTAR
SLATE	JAPANESE WALL

HEX Type Short

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
	Non-pack	Blister Pack				
	HEX100X280	HEX100X280BP	10.0	280	162	6
○	HEX105X280	HEX105X280BP	10.5			
	HEX110X280	HEX110X280BP	11.0			
△	HEX120X280	HEX120X280BP	12.0			
○	HEX125X280	HEX125X280BP	12.5			
○	HEX127X280	HEX127X280BP	12.7			
	HEX130X280	HEX130X280BP	13.0			
	HEX135X280	HEX135X280BP	13.5			
	HEX140X280	HEX140X280BP	14.0			
	HEX143X280	HEX143X280BP	14.3			
○	HEX145X280	HEX145X280BP	14.5			
	HEX150X280	HEX150X280BP	15.0			
○	HEX160X280	HEX160X280BP	16.0			
	HEX165X280	HEX165X280BP	16.5	280	162	6
○	HEX170X280	HEX170X280BP	17.0			
	HEX175X280	HEX175X280BP	17.5			
○	HEX180X280	HEX180X280BP	18.0			
○	HEX190X280	HEX190X280BP	19.0			
	HEX200X280	HEX200X280BP	20.0			
△	HEX215X280	HEX215X280BP	21.5			
○	HEX220X280	HEX220X280BP	22.0			
	HEX225X280		22.5	280	162	3
	HEX230X280		23.0			
△	HEX240X280		24.0			
	HEX250X280		25.0			
	HEX255X280		25.5			
	HEX260X280		26.0			
	HEX265X280		26.5			
○	HEX280X280		28.0			
	HEX285X280		28.5			
	HEX290X280		29.0			
	HEX300X280		30.0			
△	HEX320X280		32.0			
	HEX350X280		35.0	280	162	2
	HEX380X280		38.0			
	HEX400X280		40.0			

HEX Type Long

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
	HEXL10.5X505	10.5	505	387	1	
	HEXL12.0X505	12.0				
	HEXL12.5X505	* 12.5				
△	HEXL12.7X505	12.7				
	HEXL14.3X505	14.3				
○	HEXL14.5X505	14.5				
	HEXL15.0X505	15.0				
△	HEXL16.0X505	16.0				
	HEXL16.5X505	* 16.5				
	HEXL17.0X505	17.0				
	HEXL17.5X505	17.5				
○	HEXL18.0X505	18.0				
○	HEXL19.0X505	19.0				
○	HEXL20.0X505	20.0				
	HEXL21.5X505	21.5				
△	HEXL22.0X505	22.0				
△	HEXL24.0X505	24.0	505	387	1	
	HEXL25.0X505	25.0				
	HEXL25.5X505	25.5				
	HEXL26.0X505	26.0				
	HEXL28.0X505	28.0				
○	HEXL28.5X505	28.5				
	HEXL29.0X505	29.0				
	HEXL30.0X505	30.0				
	HEXL32.0X505	32.0				
	HEXL34.0X505	34.0				
	HEXL36.0X505	36.0				
	HEXL38.0X505	38.0				
	HEXL40.0X505	40.0				

Items marked * are special size. Please confirm stock before ordering.

HEX Type Super Long

Code	Overall Length (mm)	Effective Length (mm)		Code	Overall Length (mm)	Effective Length (mm)		Code	Overall Length (mm)	Effective Length (mm)	
HEXL14.3X600	600	460		HEXL14.3X800	800	660		HEXL143X1000	1,000	860	
HEXL14.5X600				HEXL14.5X800				HEXL145X1000			
HEXL16.0X600				HEXL16.0X800				HEXL160X1000			
HEXL17.0X600				HEXL17.0X800				HEXL170X1000			
HEXL17.5X600				HEXL17.5X800				HEXL175X1000			
HEXL18.0X600				HEXL18.0X800				HEXL180X1000			
HEXL19.0X600				HEXL19.0X800				HEXL190X1000			
HEXL21.5X600				HEXL21.5X800				HEXL215X1000			
HEXL22.0X600				HEXL22.0X800				HEXL220X1000			
HEXL25.0X600				HEXL25.0X800				HEXL250X1000			



● Matching drill

	Manufacturer	Model No.
Hammer Drill	HITACHI	PR25B
		DH35
		PR-38E
		DH42
		DH40SA
		DH40SR
		DH45SA
	MAKITA	HR3530
		HR3520
		HR3850
		HR3811
		HR4030C
	RYOBI	ED-382NPA
		ED-382NA
		ED-383N

Hexagonal Shank Drill Bit (For Stone)

- Adopts an ultra-hard tip suitable for stone material.
- The drill bit exclusive to hammer drills enables efficient transfer of the hammering impact and the spinning force.

STONE



For RESIN-A (Glass Capsule)

	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Anchor Size	Bolt Size
Bolt	10.0	280	162	HC-8U	M8, W5/16
	12.0			HC-10U, SE-10	M10, W3/8
	14.0			SE-12	M12, W1/2
	* 15.0			HC-12U	M12, W1/2
	18.0			SE-16	M16, W5/8
	19.0			HC-16U	M16, W5/8
	25.0	330	210	HC-20U, SE-20	M20, W3/4
	26.0			SE-22	M22, W7/8
	28.0	380	260	SE-24	M24, W1
	32.0	420	300	SE-24	D25
D.bar	12.5	280	162	HC-10U	D10
	13.0			SE-10	D10
	16.0			HC-12U, SE-12	D13
	20.0			HC-16U, SE-16	D16
	25.0	330	210	HC-20U, SE-20	D19
	28.0	380	260	SE-22	D22
	32.0	420	300	SE-24	D25

For Stone

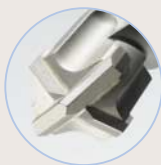
Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box
HEXSB190X280	19.0	280	162	1
HEXSB220X280	22.0			
HEXSB105X505	10.5	505	387	1
HEXSB127X505	12.7			
HEXSB145X505	14.5			
HEXSB160X505	16.0			
HEXSB180X505	18.0			
HEXSB190X505	19.0			
HEXSB200X505	20.0			
HEXSB220X505	22.0			
HEXSB145X600	14.5	600	460	1
HEXSB160X600	16.0			
HEXSB180X600	18.0			
HEXSB190X600	19.0			
HEXSB220X600	22.0			
HEXSB145X800	14.5	800	660	1
HEXSB160X800	16.0			
HEXSB175X800	17.5			
HEXSB180X800	18.0			
HEXSB190X800	19.0			
HEXSB220X800	22.0			
HEXSB250X800	25.0			

*Products any size outside the standard are also available by special order. Contact us for terms and conditions, etc.

Hexagonal Shank Drill Bit



- Hammer drill exclusive bit efficiently transmits hammering rotation force without loss.
- Anchor insertion is smoothly performed because hole drilling close to a perfect circle is possible.
- Stable drilling ability is maintained by cross blades which seize less even when they contact reinforced steel and the cutting edge and outer diameter wear less.



Applicable Electric Tool **Hammer Drill**



CONCRETE	STONE
BLOCK / BRICK	MORTAR
SLATE	JAPANESE WALL

HUX Type

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
	HUX10.0X280	10.0	280	162	6	
⊙	HUX10.5X280	10.5				
	HUX12.0X280	12.0				
	HUX12.5X280	12.5				
⊙	HUX12.7X280	12.7				
	HUX13.0X280	13.0				
	HUX14.0X280	14.0				
⊙	HUX14.5X280	14.5				
	HUX15.0X280	15.0				
△	HUX16.0X280	16.0				
⊙	HUX16.5X280	16.5				
	HUX17.0X280	17.0				
△	HUX18.0X320	18.0	320	202	1	
△	HUX19.0X320	19.0				
	HUX20.0X320	20.0				
	HUX21.5X320	21.5				
	HUX22.0X320	22.0				
	HUX22.5X320	22.5				
△	HUX23.0X320	23.0				
	HUX24.0X320	24.0				
	HUX25.0X320	25.0				
	HUX26.0X320	26.0				
	HUX27.0X320	27.0				
	HUX28.0X320	28.0				
	HUX30.0X320	30.0				
	HUX32.0X320	32.0				
	HUX33.0X320	33.0				
	HUX34.0X320	34.0				

HUX Type Long

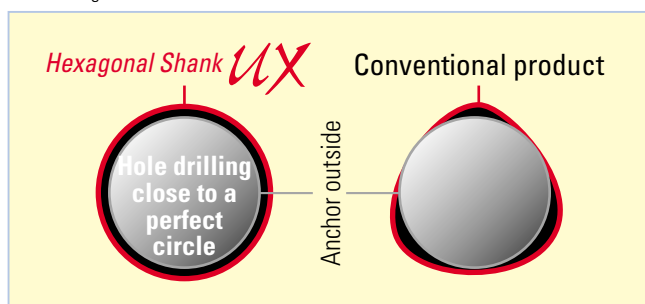
	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
	HUXL16.0X420	16.0	420	302	1	
	HUXL18.0X420	18.0				
△	HUXL19.0X420	19.0				
	HUXL20.0X420	20.0				
	HUXL22.0X420	22.0				
○	HUXL23.0X420	23.0				
○	HUXL24.0X420	24.0				
	HUXL25.0X420	25.0				
△	HUXL26.0X420	26.0				
	HUXL28.0X420	28.0				
	HUXL30.0X420	30.0				
	HUXL32.0X420	32.0				
	HUXL34.0X420	34.0				

HUX Type Long

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box	
	HUXL24.0X505	24.0	505	387	1	
△	HUXL25.0X505	25.0				
	HUXL26.0X505	26.0				
△	HUXL28.0X505	28.0				
	HUXL30.0X505	30.0				
△	HUXL32.0X505	32.0				
	HUXL33.0X505	33.0				
	HUXL34.0X505	34.0				
	HUXL35.0X505	35.0				

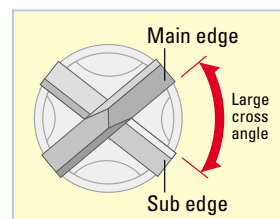
● Hole drilling close to perfect circles realized.

Realizes performance hole drilling close to a perfect circle and anchor insertion is also smooth by adoption of the cross blade for cutting edge. In addition, vibration loads during work are reduced.



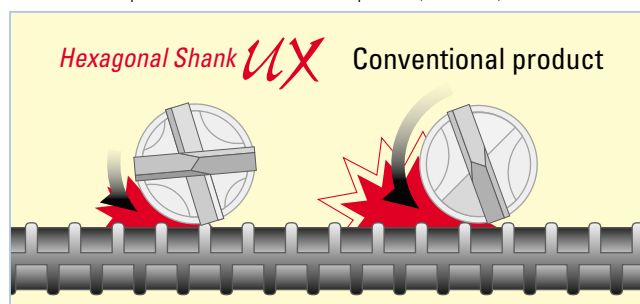
● Cross blade

The cross blade which has been developed consists of a main edge and an auxiliary edge, and has a larger cross angle and improved reinforced steel resistance performance. (Dia: over 16mm)



● Improvement in reinforced steel resistance performance

Stable drilling ability is maintained because cross blades seize less even when they contact reinforced steel and there is less friction between the cutting edge and outer diameter in comparison with the conventional product (one blade).



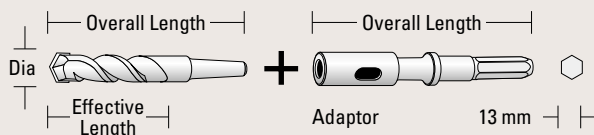
Taper Shank Drill Bit

TP Type



- All sizes can be interchanged using a single tapered-shank adaptor.
- Offering economy with productivity : ideal for all kinds of sites requiring drilling.

Applicable Electric Tool Hammer Drill



CONCRETE	STONE
BLOCK / BRICK	MORTAR
SLATE	JAPANESE WALL

TP Type Short

Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box
TP6.4X100	6.4	100	50	10
TP6.5X100	6.5			
TP7.0X100	7.0			
TP7.5X100	7.5			
TP8.0X115	8.0	115	60	10
TP8.5X115	8.5			
TP9.0X115	9.0			
TP9.5X115	9.5			
TP10.0X120	10.0	120	70	10
TP10.5X120	10.5			
TP11.0X120	11.0			
TP12.0X120	12.0			
TP12.5X120	12.5			
TP12.7X120	12.7			
TP13.0X120	13.0			
TP13.5X120	13.5			
TP14.3X120	14.3			
TP14.5X120	14.5			
TP14.7X120	14.7			
TP16.0X130	16.0	130	80	6
TP16.5X130	16.5			
TP17.0X130	17.0			
TP17.5X130	17.5			
TP18.0X130	18.0			
TP19.0X160	19.0	160	110	6
TP21.5X160	21.5			
TP22.0X160	22.0			

TP Type Long

Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box
TPL10.0X280	10.0	280	220	6
TPL10.5X280	10.5			
TPL11.0X280	11.0			
TPL12.0X280	12.0			
TPL12.5X280	12.5			
TPL12.7X280	12.7			
TPL13.0X280	13.0			
TPL13.5X280	13.5			
TPL14.0X280	* 14.0			
TPL14.3X280	14.3			
TPL14.5X280	14.5			
TPL15.0X280	* 15.0	280	220	6
TPL16.0X280	16.0			
TPL17.0X280	17.0			
TPL17.5X280	17.5			
TPL18.0X280	18.0			
TPL19.0X280	* 19.0			
TPL20.0X280	* 20.0			
TPL21.5X280	* 21.5			
TPL22.0X280	* 22.0			

Items marked * are special size. Please confirm stock before ordering.

TP Type Long (For Stone)

Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Pcs./Box
TPSB10.0X280	10.0	280	220	6
TPSB10.5X280	10.5			
TPSB11.0X280	11.0			
TPSB12.0X280	12.0			
TPSB12.5X280	12.5			

TP Type (Adaptor)

Code	Overall Length (mm)	Shank	Cotter	Pcs./Box
No.1	158	HEX	attached	6
No.1-SDS	120	SDS	—	1

*No. 1 = Morse taper (MT-1)

TP Type (Cotter)

Code	Overall Length (mm)



*Used for detaching bits.

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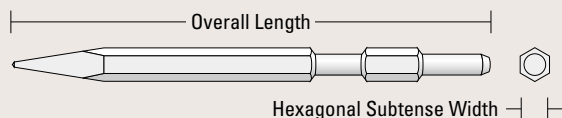
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Bull Point / Cold Chisel / Cutter / Scoop



- With low wear, these handle extended use with ease.
- Extremely durable cutting tip for powerful chiseling force.

Applicable Electric Tool **Hammer Drill / Hammer**



Bull Point

Code	Hexagonal Width (mm)	Overall Length (mm)	Pcs./Box	Pcs./Ctn	
HTB17X280	17	280	6	60	
HTB17X450		450	1	—	
HTB17X600		600			
HTB17X700		700			
HTB17X800		800			
HTB17X1000		1000			
HTB21X320	21	320	1	—	
HTB21X450		450			
HTB30X410	30	410			
HTB30X310		310			



Cold Chisel

Code	Hexagonal Width (mm)	Tip Width (mm)	Overall Length (mm)	Pcs./Box	Pcs./Ctn	
HTC17X280	17	20	280	6	60	
HTC17X450			450	1	—	
HTC17X600			600			
HTC17X800			800			
HTC17X1000			1000			
HTC21X320	21	25	320	1	—	
HTC21X450			450			
HTC30X410	30	32	410			
HTC30X310			310			



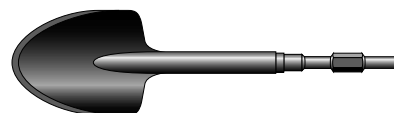
Cutter

Code	Hexagonal Width (mm)	Overall Length (mm)	Tip Width (mm)	Pcs./Box	
HTK17X280	17	280	50	1	
HTK21X320	21	320	50		
HTK30X410	30	410	75		



Scoop

Code	Hexagonal Width (mm)	Overall Length (mm)	Pcs./Box	
HTS17X400	17	405	1	
HTS21X450	21	450		
HTS30X480	30	450		



Matching drill

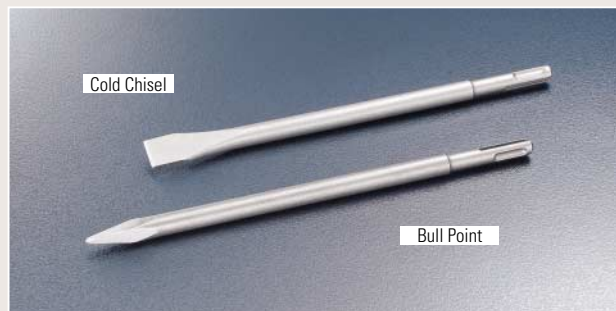
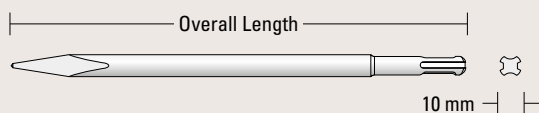
	Manufacturer	17mm				21mm				30mm				30mm×310mm			
Hammer Drill/Hammer	HITACHI	PR25B · 38E				H50SA				PH65A				H90			
		PH40F				H55SB				H65SB2							
		H41SA · 41SA2 · 41SA2 (2)								H70SA							
		H45SR								(H65SA · SB)							
		DH35 · 40SR · 42 · 45SA (DH40SA)															
	MAKITA	HR3530				HM1 20 1				HM1 500				(8600N)			
		HR3520								8600S							
		HR3850								HM1 304							
		HR3811								(HM1 303)							
		HR4030C															
		HM0810 · 0830 (8500N · 8800N · HM0810T)															
	RYOBI	ED-382NPA				(CH-485)											
		CH-461															
		CH-465A															
		(CH465 · 425 / ED-382NA)															

Bull Point / Cold Chisel (For SDS-plus)



- With low wear, these handle extended use with ease.
- Extremely durable cutting tip for powerful chiseling force.

Applicable Electric Tool Rotary Hammer Drill (SDS-plus)



Bull Point (for SDS-plus)

Code	SDS-plus Shank (mm)	Overall Length (mm)	Pcs./Box	
HTB10X250	10	250	1	



Cold Chisel (for SDS-plus)

Code	SDS-plus Shank (mm)	Overall Length (mm)	Pcs./Box	
HTC10X250	10	250	1	

Tip Width: 20 mm



Tile Chisel (for SDS-plus)

Code	SDS-plus Shank (mm)	Overall Length (mm)	Pcs./Box	
HTT10X260	10	260	1	

Tip Width: 40 mm



Flat Chisel (for SDS-plus)

Code	SDS-plus Shank (mm)	Overall Length (mm)	Pcs./Box	
HTF10X250	10	250	1	

Tip Width: 40 mm

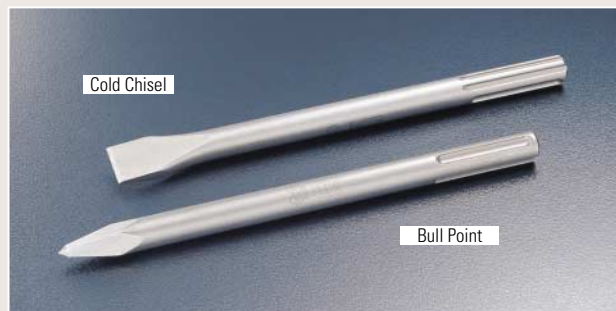
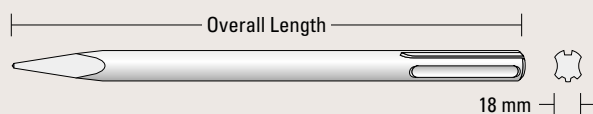


Bull Point / Cold Chisel (For SDS-max)



- With low wear, these handle extended use with ease.
- Extremely durable cutting tip for powerful chiseling force.

Applicable Electric Tool SDS-max Hammer Drill/Hammer



Bull Point (for SDS-max)

Code	SDS-max Shank (mm)	Overall Length (mm)	Pcs./Box	
HTB18X280	18	280	1	
HTB18X450		450		



Cold Chisel (for SDS-max)

Code	SDS-max Shank (mm)	Overall Length (mm)	Pcs./Box	
HTC18X280	18	280	1	
HTC18X450		450		



CONCRETE DRILLS



www.unika.co.jp

UNIKA CO., LTD.

2-10-6, IWAMOTO-CHO, CHIYODA-KU, TOKYO 101-0032 JAPAN
Tel: +81-3-3864-3321 Fax: +81-3-3864-7746

SERIES CATALOGUE

UR 21

CORE DRILLS

HOLE SAWS

CONCRETE DRILLS

ANCHORS



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SERIES CATALOGUE

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HOLE SAW

Safety Precautions



WARNINGS

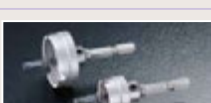
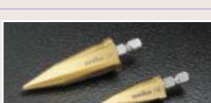
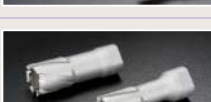
- ❑ Wear working clothes suitable for the operation. In particular, eye protection equipment must be worn to prevent shavings from getting into your eyes.
- ❑ Prepare the working environment before starting the job. Be careful to consider safety when working in high places, being close to inflammable materials, in dark places, in rain, in wet place, on scaffolding. Consider falling, fires, electric shock, etc.
- ❑ Be sure to check if there are any defects in the product before use. Never use the product if it has any defect.
- ❑ Be sure to turn off the main switch of the drill and disconnect the power supply plug from the socket before attaching and detaching the product.
- ❑ Do not touch the product, the shavings, or the drilled surface by hand because they may be hot by drilling friction.
- ❑ Never remodel or modify the product.
- ❑ Do not touch moving parts, especially the drill tip or blades.
- ❑ When you feel anything unusual in use, stop using the product and inspect it as well as the electrical drill.
- ❑ When using the product for any other application than is specified, be sure to contact UNIKA.
- ❑ Carefully read the instruction manual of the electrical drill used before using the product.



CAUTION

- ❑ Do not allow any person other than the working staff to enter the working place.
- ❑ Do not touch the blades by hand because they are very sharp.
- ❑ Please read handling description well when changing and assembling.
- ❑ Use spare parts that comply with the product specification.
- ❑ The product and its size must be appropriate for the specification of the electrical drill used.

HOLE SAWS

<i>T. C. T. Hole Saw</i> TRIPLE COMBO		4	<i>Bi-Metal</i> HSS Hole Saw [Without collar]		15
<i>T. C. T. Hole Saw</i> META-CORE		6	<i>Bi-Metal</i> HSS Hole Saw		16
<i>T. C. T. Hole Saw</i> META-CORE TRIPLE		8	<i>Bi-Metal</i> HSS Hole Saw [For Catch Basins]		18
<i>T. C. T. Hole Saw</i> META-CORE TRIPLE [Without collar]		10	<i>Bi-Metal</i> CORDLESS HSS Hole Saw		19
<i>T. C. T. Hole Saw</i> CORDLESS META-CORE		11	Deck Bit		20
<i>T. C. T. Hole Saw</i> META-CORE MAX [1-touch Type]		12			
<i>T. C. T. Hole Saw</i> META-CORE MAX [M18 Type]		14			

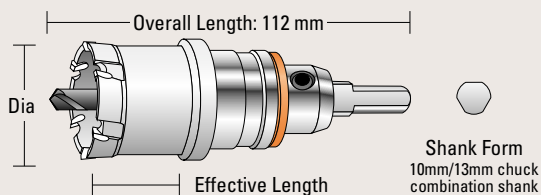
HOLE SAWS USAGE CHART

◎=Best suited ○=Suitable △=Less suitable	SHEET METAL				STAINLESS STEEL PLATE	ALUMINUM PLATE	METAL EXTERIOR PANELS	WOOD	FRP	PVC	PIPE MATERIAL	PLASTIC	DECK PLATE
	Thin steel plate (up to 3.2 mm)	Thin steel plate (up to 4.5 mm)	Thick steel plate (up to 25 mm)	Thick steel plate (up to 50 mm)									
T.C.T. Hole Saw TRIPLE COMBO	○	◎	○ (23 mm)		◎	◎	○	△	○	○	◎	○	○
T.C.T. Hole Saw META-CORE	◎	◎			◎	◎			○	○		○	○
T.C.T. Hole Saw META-CORE TRIPLE	○	◎	○		◎	◎	○	△	○	○	◎	○	○
T.C.T. Hole Saw META-CORE TRIPLE [Without collar]	○	○	○		◎	◎	◎	△	○	○	◎	○	○
T.C.T. Hole Saw CORDLESS META-CORE	◎				◎	◎			○	○		○	○
T.C.T. Hole Saw META-CORE MAX			◎	◎	△	△					○		○
Bi-Metal HSS HOLE SAW	◎	○				◎	◎	○	○	◎		○	○
Bi-Metal HSS HOLE SAW [Without collar]	◎	○				◎	◎	○	○	◎		○	○
Bi-Metal CORDLESS HSS HOLE SAW	◎ (2 mm)					◎	◎	○	○	◎		○	○
Deck Bit	○ (2 mm)				○ (1 mm)	○ (2 mm)			○	○		○	◎

- Quick Body Replacement.
- 3-blade cutters durable even for hard materials.
- The 23mm effective length enables drilling materials such as thick steel plates, curved surfaces of metal pipe having heavy large wall thickness and etc.
- No need to select drill chucking diameter due to "The Compatible Chuck Type Shank for 10mm and 13mm".

Effective Length 23 mm (Cutter Body Depth: 23 mm)

Applicable Electric Tool Electric Drill / Percussion Drill (rotating mode)



STEEL (up to 23 mm)

STAINLESS STEEL (up to 10 mm)

ALUMINUM (up to 5 mm)

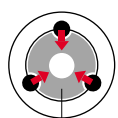
PIPE MATERIAL

FRP

PVC

PLASTIC

Quick Replacement Body / For Pipe and Stainless Steel



Ball Groove

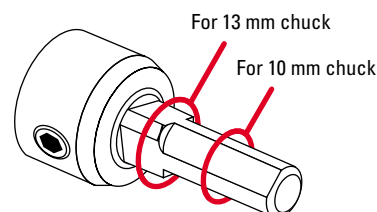
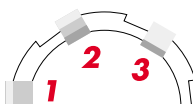
Three balls on shank side secure body lock.

Body Shank
Cross Section



The shank shape allows for most chuck diameter

Body with
3-ply Cutters



System schematic diagram

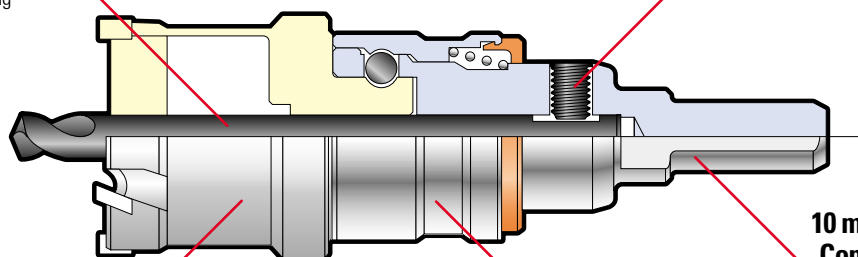
Center Drill

Thinning equipped to improve durability, cutting quality and positioning performance.

1 Action!

Center Drill Fixing Screw

Secure fixing prevents life shortening of the cutting.



Body

(Replacement Blade)

Triple body with 3-ply cutters.

**10 mm/13 mm Chuck
Combination Shank**

Plating processing excels in corrosion protection.

Retainer

The body is attached/removed by pulling down the retainer to the position where it stops.

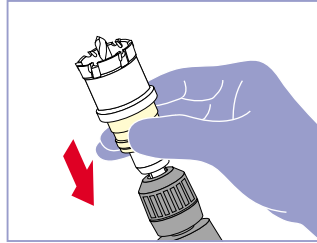
1-Touch Body Replacement.

The TRIPLE COMBO SERIES has a shank system that enables body replacement by one-touch operation. Before attachment/removal operation, attach the shank to the motor and make sure to place the body facing upward to perform operation.

Body Removal

STEP 1

Attach the body to the electrical drill.
Position the body upward.
Draw the retainer down until it stops.

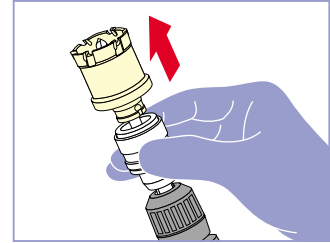


STEP 2

Retainer jumps up. Remove the body.

*Be careful when handling the body because it has been heated up after drilling.

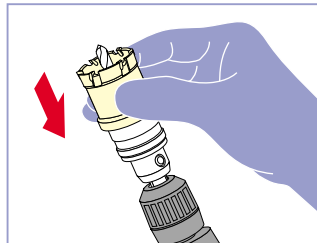
*Be sure to disconnect the drill's electrical plug from its power supply socket before attaching and detaching the body.



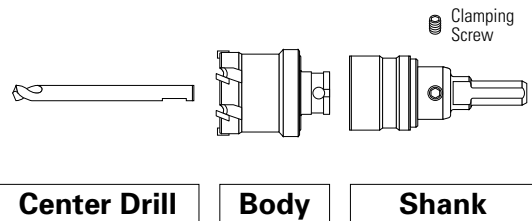
Body Attachment

STEP 1

Insert the body into shank socket.
Rotate the body by one step down.
(Until the ball socket holes cannot be seen.)
Press the body until it clicks.
(The retainer will immediately click into place and lock the body.)



Parts Drawing



TRIPLE COMBO (Set)

	Code	Diameter (mm)	Shank Diameter (mm)	Pcs./Box	
△	COM-T19ST	19	10/13	5	
◎	COM-T21ST	21			
△	COM-T22ST	22			
△	COM-T25ST	25			
◎	COM-T27ST	27			
○	COM-T28ST	28			
	COM-T30ST	30			
	COM-T32ST	32		3	
◎	COM-T33ST	33			
○	COM-T35ST	35			
	COM-T38ST	38			
○	COM-T42ST	42			
△	COM-T50ST	50			
	COM-T53ST	53			

TRIPLE COMBO (Body)

Code	Diameter (mm)	Pcs./Box		
COM-T19B	19	5		
COM-T21B	21			
COM-T22B	22			
COM-T25B	25			
COM-T27B	27			
COM-T28B	28			
COM-T30B	30			
COM-T32B	32	3		
COM-T33B	33			
COM-T35B	35			
COM-T38B	38			
COM-T42B	42			
COM-T50B	50			
COM-T53B	53			



TOOL BOX SET

There is also the tool box set which is convenient for carrying and receiving.

[For Electrical Repair]

21/27/33/42/53mm×each 1 [TB-40]
21/27/33mm×each 2 [TB-41]

[For Equipment Installation]

25/28/30/32/38/50mm×each 1 [TB-42]

*The shank 1 and 2 center drills belongs to tool box set.



TRIPLE COMBO (Shank)

Code	Shank Type		
COM-SST	Straight		
COM-SSD	SDS		



TRIPLE COMBO [Tool Box Set]

Code	Set Diameter (mm)					Shank Type	
TB-40	21	27	33	42	53	Straight	
TB-41	21	21	27	27	33		
TB-42	25	28	30	32	38		
TB-40SD	21	27	33	42	53	SDS	
TB-41SD	21	21	27	27	33		
TB-42SD	25	28	30	32	38		

TRIPLE COMBO (Center Drill)

Code	Size (mm)		
COM-CD6M	6×87		
COM-CD6L	6×100		



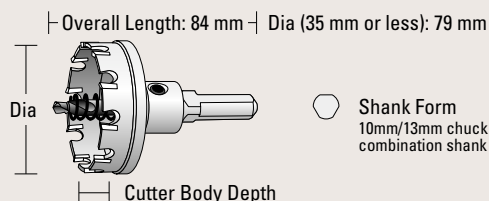
*When drilling a metal plate with a thickness of 10 mm or more, use the center drill (COM-CD6L) [option].

- T.C.T. hole saw standard type.
- Adopting the step center drill dampens impacts that occur when the center drill passes through.
- Adopting the "10 mm/13 mm chuck combination shank," allows for most drill chuck diameters.

⚠ Cannot be used with drilling machines.

Effective Length 4.5 mm (Cutter Body Depth: 12 mm)

Applicable Electric Tool Electric Drill / Percussion Drill (rotating mode)



SHEET METAL

STAINLESS STEEL (up to 3 mm)

ENAMELED STEEL

ALUMINUM (up to 2 mm)

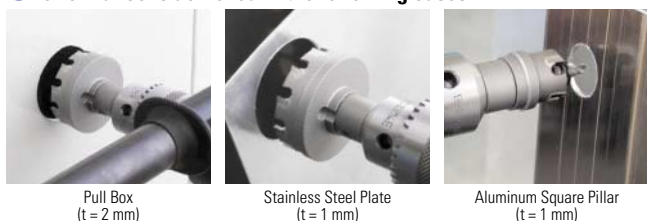
FRP

PVC

PLASTIC

Ejector spring (up to 53mm fitted as standard) / compatible with stainless steel

Performance is achieved in the following cases:

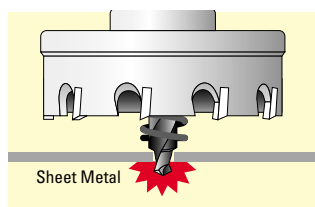


Function of step center drill

The step center drill protects the tungsten carbide/ultra-hard tip of the cutting edge from impacts that occur when the center drill passes through, preventing cracking of the tip.

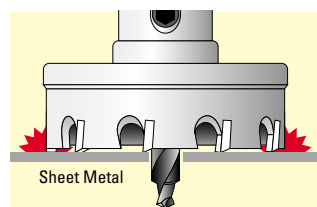
STEP 1

When the center drill passes through the work material, the stepped portion dampens impacts.



STEP 2

The tungsten carbide/ultra-hard tip of the hole saw starts drilling the work material.



Drilling swarf discharge groove

Drilling swarf is efficiently discharged through these drilling swarf discharge grooves to the peripheral side. Clogging of drilling swarf between the work material and cutting edge makes drilling impossible, which leads to tips cracking and chipping.



Specially ground cutting edge

Cutting resistance is significantly reduced by specifically grinding the tungsten carbide/ultra-hard tip of the cutting edge.



Newly developed step center drill

Two-step structure of the center drill tip end dampens impacts that occur when the center drill passes through, preventing cracking of the tungsten carbide/ultra-hard tip.



10 mm/13 mm chuck combination shank

Allows for most drill chuck diameters.

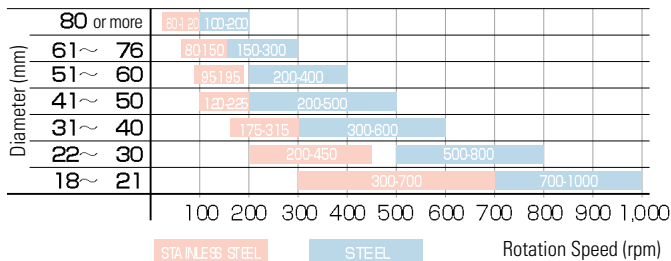


There is also the tool box set which is convenient to carrying and receiving.

META-CORE [Tool Box Set]

Code	Set Diameter (mm)					
TB-04	22	28	30	32	38	50
TB-05	21	21	27	27	33	33
TB-06	20	22	28	32	35	
TB-07	21	27	33	42	53	

- Select a lower rotation speed for continuous cutting.

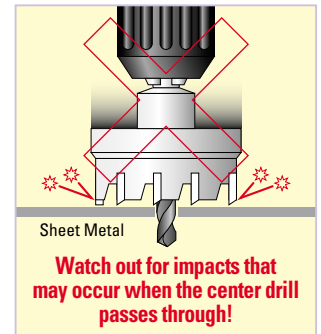
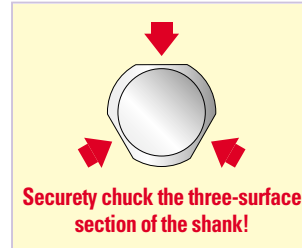


● Peripheral Speed

Stainless steel	Common steel	Aluminum
25 ~ 35	40 ~ 60	60 ~ 100

Precautions on use

- Securely chuck the three-surface section of the shank to prevent swinging or falling.
- Do not hit the cutting edges of the tungsten carbide/ultra-hard tip against any hard object or allow strong contact with the work material that may occur when the center drill passes through. The tip will crack.
- Do not reduce the rotation speed excessively during drilling. Jamming or tip cracking may result.



META-CORE (MCS)

META-CORE (HSS)					
	Code	Diameter (mm)	Shank Diameter (mm)	Pcs./Box	
△	MCS-14	14	10/13	5	
◎	MCS-15	15			
○	MCS-16	16			
	MCS-17	17			
△	MCS-18	18			
△	MCS-19	19			
◎	MCS-20	20			
◎	MCS-21	21			
◎	MCS-22	22			
	MCS-23	23			
	MCS-24	24			
◎	MCS-25	25			
	MCS-26	26			
◎	MCS-27	27			
○	MCS-28	28			
	MCS-29	29			
◎	MCS-30	30			
	MCS-31	31	10/13	3	
○	MCS-32	32			
◎	MCS-33	33			
△	MCS-34	34			
○	MCS-35	35			
	MCS-36	36			
	MCS-37	37			
○	MCS-38	38			
	MCS-39	39			
△	MCS-40	40			
	MCS-41	41	10/13	3	
△	MCS-42	42			
	MCS-43	43			
	MCS-44	44			
	MCS-45	45			
	MCS-46	46			
	MCS-47	47			
	MCS-48	48			
	MCS-49	49			
◎	MCS-50	50			
	MCS-51	51			
	MCS-52	52			
	MCS-53	53			
	MCS-54	54			
	MCS-55	55			

	Code	Diameter (mm)	Shank Diameter (mm)	Pcs./Box	
	MCS-56	56	10/13	1	
	MCS-57	57			
	MCS-58	58			
	MCS-59	59			
△	MCS-60	60			
	MCS-61	61			
	MCS-62	62			
	MCS-63	63			
	MCS-64	64			
△	MCS-65	65			
	MCS-70	70	10/13	1	
	MCS-75	75			
	MCS-80	80			
	MCS-85	85			
	MCS-90	90			
	MCS-95	95			
	MCS-100	100			
	MCS-110	110			
	MCS-120	120			
	MCS-130	130			
	MCS-150	150			

*Non-standard sizes can be specially manufactured to order. Inquire for conditions.

META-CORE (Center Drill [HSS])					standard
Code	Diameter (mm)	Overall Length (mm)	Hole Saw Size (mm)		
S-6SC	6	47	14~150		

*Use the S type (HSS drill/standard product) for metallic plate materials such as a stainless steel plate, steel plate and aluminum and synthetic resin plate.

META-CORE (Center Drill [TCT])					option
Code	Diameter (mm)	Overall Length (mm)	Hole Saw Size (mm)		
T-6	6	47	14~150		

*Use the T type (tungsten carbide/ultra-hard drill [option]) for metallic plate materials such as a porcelain enameled steel plate and FRP and synthetic resin plate.

META-CORE (Ejector Spring)		
Code	Hole Saw Size (mm)	
MCS KSN0.1	14~19	

HOLE SAWS

T.C.T Hole Saw

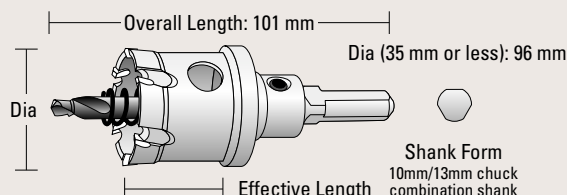
META-CORE **TR**
TRIPLE



- 3-ply cutters reducing tip crack even with hard use. Realizes light and speedy drilling and long lifetime.
 - The 25mm effective depth enables drilling ranging from thick steel plate to curved face drilling in thick metal pipes.
 - Adopts the step center drill that dampens impacts that occur when the center drill passes through.
- ⚠ When drilling a metal plate with a thickness of 10 mm or more, use the center drill (STR-6) [option].

Effective Length 25 mm (Cutter Body Depth: 25 mm)

Applicable Electric Tool Electric Drill / Drilling Machine



STEEL PLATE (HB200 or less)

STAINLESS STEEL (up to 10 mm)

PIPE MATERIAL

ALUMINUM (up to 5 mm)

FRP

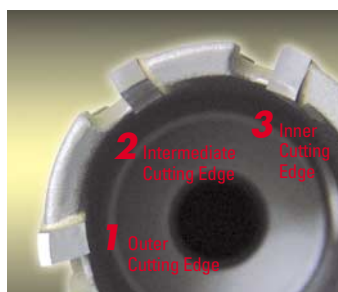
PVC

PLASTIC

Ejector spring (Dia: 20 mm or more) / compatible with pipes and stainless steel

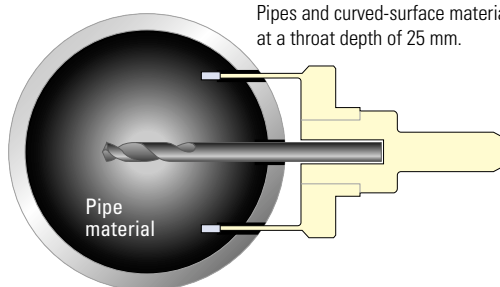
3-Ply Cutters

Cutting the shavings to one-third with respect to the cutting width using 3-ply cutters (outer, inner and intermediate cutting blades) has dramatically decreased cracks on the tip corner. This also includes inside cutting edges so debris can be discharged smoothly.



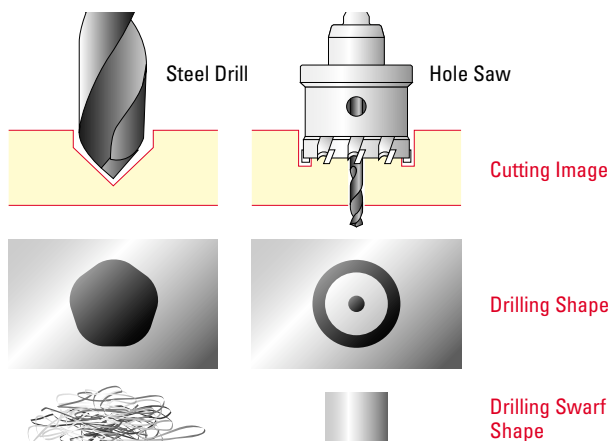
Compatible with Pipe-Drilling

Pipes and curved-surface materials can be drilled at a throat depth of 25 mm.



Hole Saw Drilling Efficiency

Hole saw drilling has a smaller cutting area compared to steel drills, enabling short-time drilling.



Drilling swarf discharge groove

Drilling swarf is efficiently discharged through these drilling swarf discharge grooves to the peripheral side. Clogging of drilling swarf between the work material and cutting edge makes drilling impossible, which leads to tips cracking and chipping.



Shavings escape hole

An escape hole, which is convenient for shavings removal, is equipped with hole saws of all diameters.

⚠ After removing the main unit from the motor, insert the driver, etc., into the shavings escape hole and push out debris.



Newly developed step center drill

Two-step structure of the center drill tip end dampens impacts that occur when the center drill passes through, preventing cracking of the tungsten carbide/ultra-hard tip.



10 mm/13 mm chuck combination shank

Allows for most drill chuck diameters.



HOLE SAWS

T.C.T Hole Saw

META-CORE TRIPLE

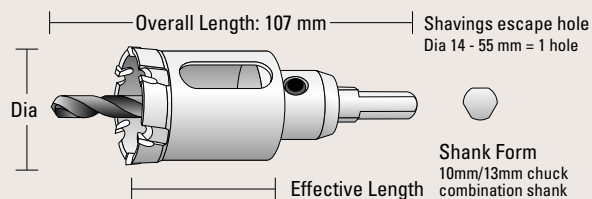
Without collar



- Without a stopper (collar), added depth of cut is possible.
- 3-ply cutters reduce tip cracks even with hard use.
- The 35mm effective depth enables drilling materials such as thick steel plates, curved surfaces of metal pipes having heavy large wall thickness etc.

Effective Length 35 mm (Cutter Body Depth: 37 mm)

Applicable Electric Tool Electric Drill / Drilling Machine



METAL SIDING PANEL

STAINLESS STEEL (up to 10 mm)

PIPE MATERIAL

ALUMINUM (up to 5 mm)

FRP

PLYWOOD

PLASTIC

Compatible with pipes and stainless steel

3-Ply Cutters

Cutting the shavings to one-third with respect to the cutting width using 3-ply cutters (outer, inner and intermediate cutting blades) has dramatically decreased cracks on the tip corner. This also includes inside cutting edges so debris can be discharged smoothly.



Shavings escape hole

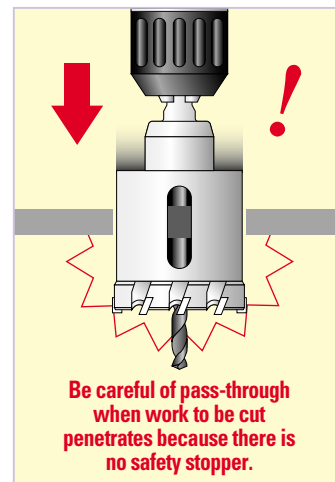
An escape hole, which is convenient for shavings removal, is equipped with hole saws of all diameters.

- After removing the main unit from the motor, insert the driver, etc., into the shavings escape hole and push out debris.



Precautions on use

- Securely chuck the three-surface section of the shank to prevent swinging or falling.
- Do not hit the cutting edges of the tungsten carbide/ultra-hard tip against any hard object or allow strong contact with the work material that may occur when the center drill passes through. The tip will crack.
- Do not reduce the rotation speed excessively during drilling. Jamming or tip cracking may result.
- In the case of continuous drilling using a drilling machine, watch out for overheating of the cutting edge and use cutting fluid or stop drilling to cool the cutting edge.



META-CORE TRIPLE [Without collar] (MCTR-TN)

	Code	Diameter (mm)	Shank Diameter (mm)	Pcs./Box
△	MCTR-20TN	20	10	5
⊙	MCTR-21TN	21		
△	MCTR-22TN	22		
	MCTR-23TN	23		
○	MCTR-25TN	25		
○	MCTR-27TN	27		
○	MCTR-28TN	28		
⊙	MCTR-30TN	30		
○	MCTR-32TN	32	10	3
○	MCTR-33TN	33		
	MCTR-34TN	34	10/13	
⊙	MCTR-35TN	35		
⊙	MCTR-38TN	38		
△	MCTR-40TN	40		
△	MCTR-42TN	42		
	MCTR-45TN	45		
⊙	MCTR-50TN	50		
	MCTR-51TN	51		
	MCTR-52TN	52		
	MCTR-53TN	53		
	MCTR-54TN	54		
	MCTR-55TN	55		
	MCTR-60TN	60		1
△	MCTR-65TN	65		
	MCTR-70TN	70		
	MCTR-75TN	75		
	MCTR-80TN	80	13	
	MCTR-110TN	110		

META-CORE TRIPLE [Without collar] (Center Drill)

Code	Diameter (mm)	Overall Length (mm)	Hole Saw Size (mm)
STR-6	6	75	20~80
SL-8	8	70	110



TOOL BOX SET

There is also the tool box set which is convenient to carrying and receiving.

[For Electrical Repair]

21/27/33/42/53mm×each 1 [TB-25TN]
21/27/33mm×each 2 [TB-27TN]
22/28/35mm×each 2 [TB-28TN]

[For Equipment Installation]

25/28/30/32/38/50mm×each 1 [TB-32TN]

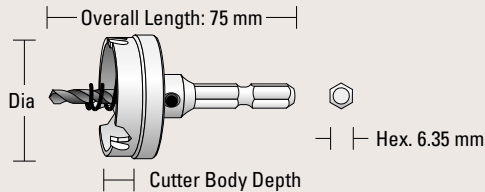
META-CORE TRIPLE [Without collar] [TOOL BOX SET]

Code	Set Diameter (mm)					
TB-25TN	21	27	33	42	53	
TB-27TN	21	27	27	33	33	
TB-28TN	22	22	28	28	35	35
TB-32TN	25	28	30	32	38	50

T.C.T Hole Saw

CORDLESS META-CORE

- A first in Japan! T.C.T. hole saw for use with rechargeable and small electric drills (under 400W). Enables drilling of stainless steel with low power.
- Cutting resistance cutting edges and center drills comprehensively reduced. Allow 3 times the number of hole drilling with a full charge (compared with standard Meta-core).

No Impact**Effective Length** 3.2 mm (Cutter Body Depth: 5 mm)**Applicable Electric Tool** Cordless Drill / Electric Drill (under 400W)**SHEET METAL****STAINLESS STEEL** (up to 2 mm)**ALUMINUM** (up to 2 mm)**FRP****PVC****PLASTIC****Ejector spring / compatible with stainless steel**

HOLE SAWS

**TOOL BOX SET**

There is also the tool box set which is convenient to carrying and receiving.

[For Electrical Repair]

21/27mm×each 2 33mm×each 1 [TB-22]
22/28mm×each 2 35mm×each 1 [TB-23]

[For Equipment Installation]

25/28/30/32/35mm×each 1 [TB-24]

CORDLESS META-CORE [TOOL BOX SET]

Code	Set Diameter (mm)				
TB-22	21	21	27	27	33
TB-23	22	22	28	28	35
TB-24	25	28	30	32	35

CORDLESS META-CORE (MCJ)

	Code	Diameter (mm)	Shank Diameter (mm)	Pcs./Box	
△	MCJ-15	15	6.35	5	
△	MCJ-16	16			
	MCJ-17	17			
	MCJ-18	18			
	MCJ-19	19			
	MCJ-20	20			
○	MCJ-21	21			
○	MCJ-22	22			
	MCJ-23	23			
	MCJ-24	24			
○	MCJ-25	25	6.35	5	
	MCJ-26	26			
○	MCJ-27	27			
	MCJ-28	28			
	MCJ-29	29			
△	MCJ-30	30			
	MCJ-31	31	6.35	3	
△	MCJ-32	32			
△	MCJ-33	33			
	MCJ-34	34			
○	MCJ-35	35			

CORDLESS META-CORE (Center Drill)

Code	Diameter (mm)	Overall Length (mm)	Hole Saw Size (mm)	
S-4	4	41	15~35	

CORDLESS META-CORE (Ejector Spring)

Code	Hole Saw Size (mm)	
MCJ KS-No.1	15~35	

Stainless steel drilling data

Size used / 21 mm dia.

Material drilled / SUS304 stainless steel plate (JIS Metal Rating)

Material thickness / t = 1.0 mm

Cordless tool used / 12 V cordless drill driver (high-speed mode)

No. of drillings / Approx. 25 times (Full charge)

Average time per drilling / Approx. 5 secs

Possible No. of drillings / Approx. 120 times

Compatible Motors

■ Rechargeable drills of a rotation speed of approximately 1,000 rpm and rotary torque of 50 N·m specifications (for rotation use only).

■ Compact electric drills with electric power consumption of 400 W or less.

*Cannot be used with impact wrenches, impact drivers, drilling machines, percussion drills, or hammer drills.

*Use with a rechargeable drill at 9.6 V or more.

Materials that can be drilled

■ Stainless steel plate (SUS304 equivalent)

■ Milled steel plate (SS400, SPCC, SPHC, etc.)

■ FRP plate

- High-precision speed drilling through thick steel plate. Overlap drilling also possible.
- Include unique Unika technology such as 3-angle cutting edges (2-angles for 17mm diameter cutters or less). Low chance of premature tip damage for stable cutter life.
- Quick release cutter mounting and removal.

Effective Length

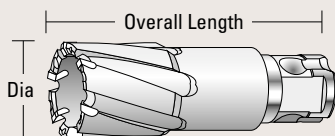
25 mm (MAX25) / 35 mm (MAX35)
50 mm (MAX50)

Applicable Electric Tool

Magnetic Drilling Machine

1-touch Type

(Side Lock combination)



STEEL PLATE (HB300 or less)

CAST IRON

STAINLESS STEEL

PIPE MATERIAL

META-CORE MAX 25 [1-touch Type] (MX25)

Code	Diameter (mm)	Overall Length (mm)	Shank Diameter (mm)
MX25-11.5	11.5	62	19.04
MX25-12.0	12.0		
MX25-13.0	13.0		
MX25-13.5	13.5		

META-CORE MAX 35 [1-touch Type] (MX35)

Code	Diameter (mm)	Overall Length (mm)	Shank Diameter (mm)
MX35-14.0	14.0	72	19.04
MX35-14.5	14.5		
MX35-15.0	15.0		
MX35-16.0	16.0		
MX35-17.0	17.0		
MX35-17.5	17.5		
MX35-18.0	18.0		
MX35-19.0	19.0		
MX35-20.0	20.0		
MX35-21.0	21.0		
MX35-21.5	21.5	72	19.04
MX35-22.0	22.0		
MX35-22.5	22.5		
MX35-23.0	23.0		
MX35-23.5	23.5		
MX35-24.0	24.0		
MX35-24.5	24.5		
MX35-25.0	25.0		
MX35-25.5	25.5		
MX35-26.0	26.0		
MX35-26.5	26.5		
MX35-27.0	27.0		
MX35-28.0	28.0		
MX35-29.0	29.0		
MX35-30.0	30.0		
MX35-31.0	31.0	72	19.04
MX35-32.0	32.0		
MX35-33.0	33.0		
MX35-34.0	34.0		
MX35-35.0	35.0		
MX35-36.0	36.0		
MX35-37.0	37.0		
MX35-38.0	38.0		
MX35-39.0	39.0		
MX35-40.0	40.0		

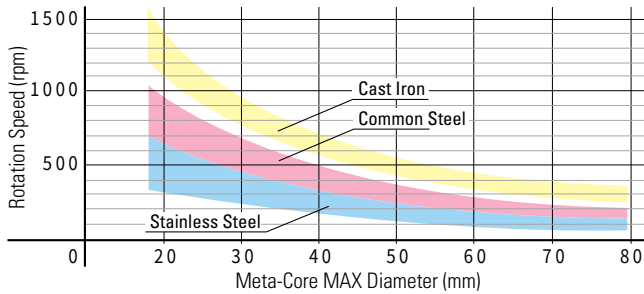
META-CORE MAX 50 [1-touch Type] (MX50)

Code	Diameter (mm)	Overall Length (mm)	Shank Diameter (mm)
MX50-17.5	17.5	90	19.04
MX50-18.0	18.0		
MX50-19.0	19.0		
MX50-20.0	20.0		
MX50-21.0	21.0		
MX50-21.5	21.5		
MX50-22.0	22.0		
MX50-22.5	22.5		
MX50-23.0	23.0		
MX50-23.5	23.5		
MX50-24.0	24.0		
MX50-24.5	24.5		
MX50-25.0	25.0		
MX50-25.5	25.5	90	19.04
MX50-26.0	26.0		
MX50-26.5	26.5		
MX50-27.0	27.0		
MX50-28.0	28.0		
MX50-28.5	28.5		
MX50-29.0	29.0		
MX50-30.0	30.0		
MX50-31.0	31.0		
MX50-32.0	32.0		
MX50-33.0	33.0		
MX50-34.0	34.0		
MX50-35.0	35.0		
MX50-36.0	36.0	90	19.04
MX50-37.0	37.0		
MX50-38.0	38.0		
MX50-39.0	39.0		
MX50-40.0	40.0		
MX50-41.0	41.0		
MX50-42.0	42.0		
MX50-43.0	43.0		
MX50-44.0	44.0		
MX50-45.0	45.0		
MX50-46.0	46.0	90	19.04
MX50-47.0	47.0		
MX50-48.0	48.0		
MX50-49.0	49.0		
MX50-50.0	50.0		
MX50-51.0	51.0		
MX50-52.0	52.0		
MX50-53.0	53.0		
MX50-54.0	54.0		
MX50-55.0	55.0		



● Appropriate rotation speed (Peripheral speed)

Common steel = 40 - 60 m/min. Stainless steel = 20 - 40 m/min. Cast iron = 70 - 90 m/min.



● Feed speed

Stainless steel	Common steel	Cast iron
0.01	0.05	0.08

Code	Diameter (mm)	Overall Length (mm)	Shank Diameter (mm)
MX50-56.0	56.0	90	19.04
MX50-57.0	57.0		
MX50-58.0	58.0		
MX50-59.0	59.0		
MX50-60.0	60.0		
MX50-61.0	61.0		
MX50-62.0	62.0		
MX50-63.0	63.0		
MX50-64.0	64.0		
MX50-65.0	65.0		

META-CORE MAX (Shank Assembly) [Side Lock]

Code	Shank Diameter	Hole Saw Size (mm)
MCN-MT2	MT-2	11.5~50
MCN-MT3	MT-3	17.5~65



*To be used on upright magnetic drill presses, stationary drill presses or milling machines.

*Use the side-lock flat when using this assembly.

META-CORE MAX (Center Pin)

Code	Dia (mm)	Overall Length (mm)	Hole Saw Size (mm)
MXCP25-6	6.35	81	MX25 11.5~13.5
MXCP35-6	6.35	91	MX35 14.0~17.0
MXCP35-8	8.0	91	MX35 17.5以上
MXCP50-8	8.0	112	MX50 17.5以上
IKURA MXCP25-6S	6.35	81	MX25 11.5~13.5
IKURA MXCP35-6S	6.35	86	MX35 14.0~17.0



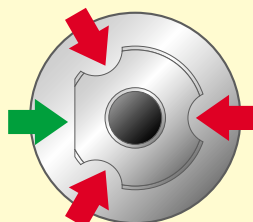
*When using a Ikura Seiki magnetic drill press make sure you use their specific pilot pin.

● 1-touch & side-lock combination

Shank cross-sectional view

The side-lock mechanism

The flat surface is used for fixing with a side screw.

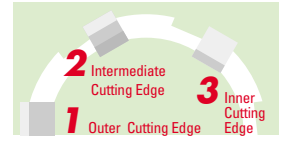


The 1-touch mechanism

Three balls position and secure the cutter in the power tool.

● 3-Ply Cutters

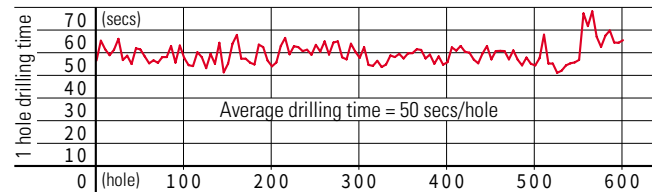
Cutting the shavings to one-third with respect to the cutting width using 3-ply cutters (outer, inner and intermediate cutting blades) has dramatically decreased cracks on the tip corner. This also includes inside cutting edges so debris can be discharged smoothly.



● Endurance test

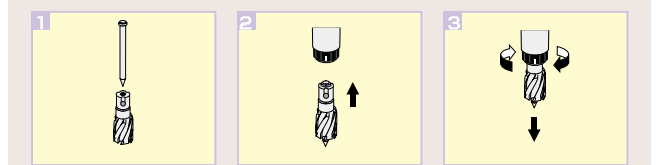
Standard size used: MX50-24.0mm Worked on material: JIS SM490 with 25mm thickness
Power tool: LO-3550A-950RPM (Nitto Koki Magnetic Drill Press)

Other: Manual drilling, water-soluble cutting oil used.



● Compatible Magnetic Drilling Machine (1-touch Type)

	Manufacturer	Model No.	MX25	MX35	MX50
Small size	NITTO	LO-3000A	~φ 13.5	~φ 30.0	—
		LO-3550A	~φ 13.5	~φ 35.0	~φ 35.0
	HITACHI	BM40M2	~φ 13.5	~φ 40.0	~φ 40.0
Standard size	NITTO	QA-4000	—	~φ 40.0	—
		QA-6500	—	~φ 40.0	~φ 65.0
		A-3000	—	~φ 30.0	—
		A-5000	—	~φ 40.0	~φ 50.0



● Pilot pin attachment

Insert the pilot pin that fits the size of the Meta-Core MAX into the MAX body.

● Body attachment

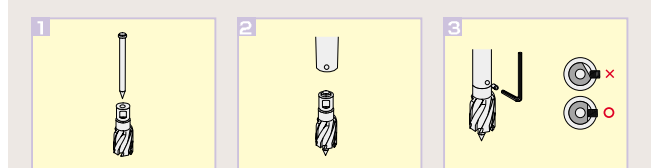
Align white line of power tool sleeve and recess on cutter. Insert to fit. Rotate and listen for "click".

● Body removal

By rotating the sleeve to the left, the cutter can be removed.

● Compatible Magnetic Drilling Machine (Side Lock Type)

	Manufacturer	Model No.	MX25	MX35	MX50
Small size	IKURA	IS-LB30SX	~φ 13.5	~φ 30.0	—
	SEIKI	IS-LB40SW	~φ 13.5	~φ 40.0	~φ 40.0
		IS-LB50SW	—	~φ 40.0	~φ 50.0
	OMI	MGF30AH	~φ 13.5	~φ 30.0	—
Standard size	NITTO	MGF40AH	~φ 13.5	~φ 40.0	~φ 40.0
		MGF50AH	~φ 13.5	~φ 40.0	~φ 50.0
		FA-35	—	~φ 35.0	—
		FA-50	—	~φ 40.0	~φ 50.0



● Pilot pin attachment

Insert the pilot pin that fits the size of the Meta-Core MAX into the MAX body.

● Body attachment

Insert the Meta-Core MAX in a manner that the flat surface of the Meta-Core Max is placed over the threaded portion of the spindle arbor.

● Screw tightening and attachment cross section

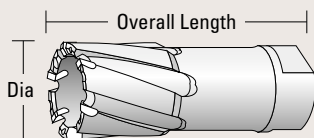
Tighten the fixing screw securely with a hexagonal wrench.

- High-precision speed drilling through thick steel plate. Overlap drilling also possible.
- Include unique Unika technology such as 3-angle cutting edges. Low chance of premature tip damage for stable cutter life.
- A M18, screw-in type shank.

Effective Length 50 mm

Applicable Electric Tool Magnetic Drilling Machine

M18 Type
(M18x6P 1.5)



STEEL PLATE (HB300 or less)

CAST IRON

STAINLESS STEEL

PIPE MATERIAL

META-CORE MAX 50 [M18 Type] (MX50H)

	Code	Diameter (mm)	Overall Length (mm)	Screw diameter	
○	MX50H-18.0	18.0	80	M18	
◎	MX50H-19.0	19.0		(6P 1.5)	
○	MX50H-20.0	20.0			
	MX50H-21.0	21.0			
	MX50H-21.5	21.5			
○	MX50H-22.0	22.0			
○	MX50H-23.0	23.0			
△	MX50H-23.5	23.5			
◎	MX50H-24.0	24.0			
○	MX50H-24.5	24.5			
○	MX50H-25.0	25.0			
	MX50H-25.5	25.5	80	M18	
△	MX50H-26.0	26.0			
	MX50H-26.5	26.5			
○	MX50H-27.0	27.0			
△	MX50H-28.0	28.0			
△	MX50H-29.0	29.0			
	MX50H-30.0	30.0			
	MX50H-31.0	31.0			
	MX50H-32.0	32.0			
△	MX50H-33.0	33.0			
	MX50H-34.0	34.0			
△	MX50H-35.0	35.0			
	MX50H-36.0	36.0	80	M18	
	MX50H-37.0	37.0			
◎	MX50H-38.0	38.0			
	MX50H-39.0	39.0			
	MX50H-40.0	40.0			
	MX50H-41.0	41.0			
	MX50H-42.0	42.0			
	MX50H-43.0	43.0			
	MX50H-44.0	44.0			
	MX50H-45.0	45.0			
	MX50H-46.0	46.0			
	MX50H-47.0	47.0			
	MX50H-48.0	48.0			
	MX50H-49.0	49.0			
◎	MX50H-50.0	50.0			

Side lock conversion adapter With an exclusive center pin

Code	Hole Saw Size (mm)	
MQH-ADP	MX25 11.5~13.5	
	MX35 14.0~40.0	



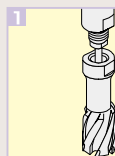
*Cutters with this four thread shank design are usually magnet drill presses like Hitachi machines. But, with this adaptor, the Unika Metacore MAX (one touch type), could also be used on these type of magnetic drill presses.

*Please be sure to use the correct pilot center pin (MX25/35 are the same).

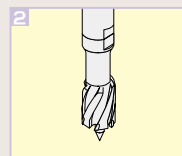
Compatible Magnetic Drilling Machine (M18 Type)

Standard size	Manufacturer	Model No.	Thickness	MX50H	備考
	HITACHI	BM 35Y	up to 50mm	~Φ35.0	M18 (M18x6P 1.5)
		BM 60Y · M	up to 50mm	~Φ50.0	

Attachment Method (M18 Type)



Insert the Meta-Core MAX-H into the center pin.



Align it with the screw and tighten it.

*Make sure that the startup switch of the drill is turned off and disconnect the power supply plug from the socket before attaching and detaching the hole saw.

META-CORE MAX 25 RAIL

- The flute design which took scrap discharge into consideration on only rail drilling.
- A set of three original edges which enable drilling stability and long life.

Effective Length 25 mm (MAX25 RAIL)

Applicable Electric Tool Rail Drilling Machine



Since it is a special production article, please ask for conditions etc.

Bi-Metal **HSS** HOLE SAW

Without collar

Rotation + Impact

- Without a stopper (collar), added depth of cut is possible.
- Compatible with a wide range of materials from sheet metal to PVC and board.
- It can be used on an impact power drill or a standard electric power drill.
- Cutting edge has a bimetallic structure employing cobalt HSS.

⚠ Cannot be used with drill presses.

Effective Length 40 mm

Applicable Electric Tool Cordless Drill / Electric Drill



SHEET METAL (up to 3.2 mm)

ALUMINUM (up to 3.2 mm)

PVC

METAL SIDING PANEL

WOOD

FRP

PLASTIC

Ejector spring (up to 53mm fitted as standard)

HSS Hole Saw [Without collar] (HSS-TN)

Code	Diameter (mm)	Overall Length (mm)	Shank Diameter (mm)	Pcs./Box
HSS-15TN	15	112	6.35	5
HSS-16TN	16			
HSS-17TN	17			
HSS-18TN	18			
HSS-19TN	19			
HSS-20TN	20			
HSS-21TN	21			
HSS-22TN	22			
HSS-23TN	23			
HSS-24TN	24			
HSS-25TN	25			
HSS-26TN	26			
HSS-27TN	27			
HSS-28TN	28			
HSS-29TN	29			
HSS-30TN	30			
HSS-31TN	31	112	6.35	3
HSS-32TN	32			
HSS-33TN	33			
HSS-34TN	34			
HSS-35TN	35			
HSS-36TN	36			
HSS-37TN	37			
HSS-38TN	38			

HSS Hole Saw [Without collar] (Center Drill)

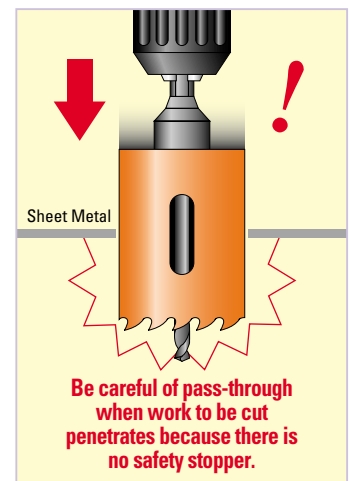
Code	Diameter (mm)	Overall Length (mm)	Hole Saw Size (mm)
STR-6	6	75	15~38

HSS Hole Saw [Without collar] (Ejector Spring)

Code	Hole Saw Size (mm)
HSS KS-No.3	15~38

⚠ Precautions on use

- Securely chuck the three-surface section of the shank to prevent swinging or falling.
- Do not reduce the rotation speed excessively during drilling. Jamming or tip cracking may result.
- Do not hit the cutting edges against any hard object or allow strong contact with the work material that may occur when the center drill passes through. The tip will crack.



TOOL BOX SET

[For Electrical Repair]

21/27/33mm×each 2 [TB-1 1]

22/28/35mm×each 2 [TB-1 2]

[For Water / Gas duct]

25/28/30/32/35/38mm×each 1 [TB-1 3]



There is also the tool box set which is convenient to carrying and receiving.

HSS Hole Saw [Without collar] [TOOL BOX SET]

Code	Set Diameter (mm)					
TB-1 1	21	21	27	27	33	33
TB-1 2	22	22	28	28	35	35
TB-1 3	25	28	30	32	35	38

Bi-Metal **HSS** HOLE SAW

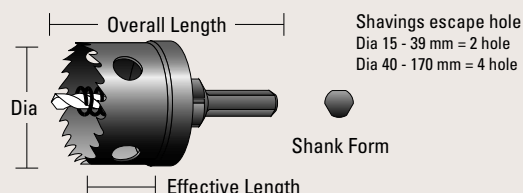


- Compatible with a wide range of materials from sheet metal to PVC and board. Demonstrate outstanding ease-of-use.
- A wide range of cutting edge sizes is available from 12mm to 170mm dia. To cope with a variety of uses.
- Cutting edge has a bimetallic structure employing cobalt HSS (SKH-59).

⚠ Cannot be used with drill presses.

Effective Length 24 mm (Dia:12-100mm) / 50 mm (Dia:120-170mm)

Applicable Electric Tool Electric Drill / Percussion Drill (rotating mode)



SHEET METAL (up to 3.2 mm)

ALUMINUM (up to 3.2 mm)

PVC

METAL SIDING PANEL

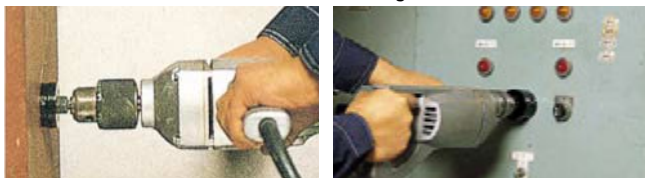
WOOD

FRP

PLASTIC

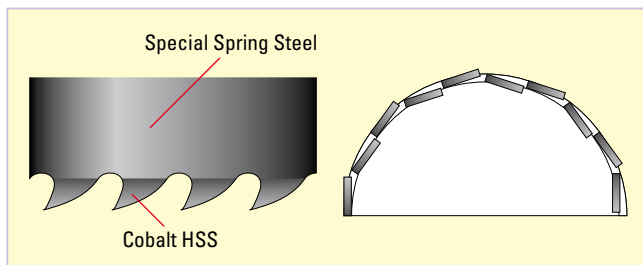
Ejector spring (up to 53 mm fitted as standard)

Performance is achieved in the following cases



What is an HSS hole saw?

It is a hole saw that has a bimetallic structure employing cobalt HSS welded to cutting edges. Cutting edges with a narrow pitch are available for a wide range of work materials from wood to PVC and iron plates.



Cobalt HSS Cutting Edge

High cutting performance is realized by welding cobalt HSS of the cutting edges to the strong spring steel body. The non-uniform arrangement of cutting edges eliminates vibration during drilling.



Shavings escape hole

An escape hole, which is convenient for shavings removal, is equipped with hole saws of all diameters.

⚠ After removing the main unit from the motor, insert the driver, etc., into the shavings escape hole and push out debris.



Safety Stopper

A safety stopper is provided to prevent removal during drill penetration.



There is also the tool box set which is convenient to carrying and receiving.

HSS Hole Saw [TOOL BOX SET]						
Code	Set Diameter (mm)					
TB-08	21	27	33	42	53	
TB-09	19	23	28	34	40	50
TB-10	21	21	27	27	33	33

● Appropriate rotation speed

- Use the drill at a rotation speed appropriate for the drilling work material and diameter.
- When drilling a thick plate with a thickness of 5 mm or more or for continuous cutting, select a lower rotation speed.

Diameter (mm)	80 or more	61~76	51~60	41~50	31~40	22~30	18~21
	100~200	100~180	150~280	230~370	300~500	400~600	
	100	200	300	400	500	600	700
	STEEL						
	Rotation Speed (rpm)						

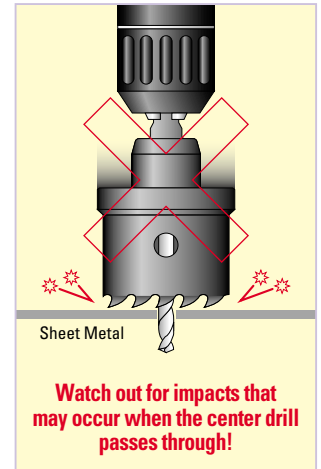
● Peripheral Speed

[m/min]

Common steel	Aluminum
25 ~ 35	30 ~ 50

⚠ Precautions on use

- Securely chuck the three-surface section of the shank to prevent swinging or falling.
- Do not reduce the rotation speed excessively during drilling. Jamming or tip cracking may result.
- Do not hit the cutting edges against any hard object or allow strong contact with the work material that may occur when the center drill passes through. The tip will crack.



HSS Hole Saw (HSS)

	Code	Diameter (mm)	Overall Length (mm)	Shank Diameter (mm)	Pcs./Box
	HSS-12	12	62	6	5
	HSS-13	13			
	HSS-14	14			
○	HSS-15	15			
○	HSS-16	16			
	HSS-17	17			
△	HSS-18	18			
△	HSS-19	19			
△	HSS-20	20			
◎	HSS-21	21	89	10	5
○	HSS-22	22			
	HSS-23	23			
	HSS-24	24			
△	HSS-25	25			
	HSS-26	26			
◎	HSS-27	27			
○	HSS-28	28			
	HSS-29	29			
○	HSS-30	30	89	10	3
	HSS-31	31			
△	HSS-32	32			
◎	HSS-33	33			
○	HSS-34	34			
○	HSS-35	35			
	HSS-36	36			
	HSS-37	37			
△	HSS-38	38			
	HSS-39	39			
△	HSS-40	40			
	HSS-41	41			
◎	HSS-42	42			
	HSS-43	43			
	HSS-44	44			
	HSS-45	45			
	HSS-46	46			
	HSS-47	47			
	HSS-48	48			
	HSS-49	49			
○	HSS-50	50			
	HSS-51	51			
	HSS-52	52			
○	HSS-53	53			

	Code	Diameter (mm)	Overall Length (mm)	Shank Diameter (mm)	Pcs./Box
	HSS-54	54	94	13	1
	HSS-55	55			
	HSS-56	56			
	HSS-57	57			
	HSS-58	58			
	HSS-59	59			
△	HSS-60	60			
	HSS-63	63			
○	HSS-65	65			
	HSS-70	70			
	HSS-75	75			
	HSS-77	77			
	HSS-80	80			
	HSS-81	81			
	HSS-85	85			
	HSS-90	90			
	HSS-95	95			
	HSS-100	100			
	HSS-120	120	127	13	1
	HSS-130	130			
	HSS-150	150			
	HSS-170	170			

HSS Hole Saw (Center Drill)

Code	Diameter (mm)	Overall Length (mm)	Hole Saw Size (mm)
CD-No.1	6	62	12~20
CD-No.2	6	62	21~100
CD-No.3	6	95	120~170

HSS Hole Saw (Ejector Spring)

Code	Hole Saw Size (mm)
HSS KS-No.1	12~20
HSS KS-No.2	21~53

*When work material has a plate thickness of 4 mm or more or is pipe material, remove the spring before use.

HOLE SAWS

**Bi-Metal
For Catch Basins**

HSS HOLE SAW



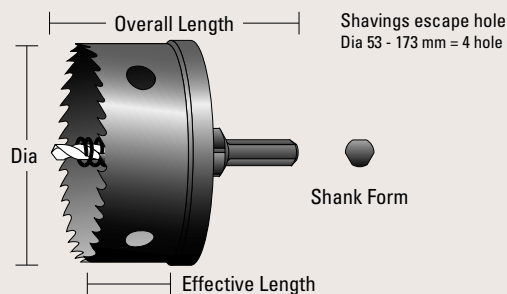
HSS hole saw exclusively for PVC catch basins and PVC tube (VU) pipes.

Hole drilling available with a diameter that allows installation of seal packing. Easy connection of PVC (VU) pipes.

⚠ Cannot be used with drill presses.

Effective Length 38 mm (Dia:53-120mm) / 50 mm (Dia:147-173mm)

Applicable Electric Tool Electric Drill / Percussion Drill (rotating mode)



Exclusive to PVC tube (VU) pipes

Ejector spring (up to 120 mm fitted as standard)

HSS Hole Saw [For Catch Basins] (HSS-VU)

Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	Shank Diameter (mm)
HSS-VU40	53	112	38	10
HSS-VU50	65			
HSS-VU65	81			
HSS-VU75	95			
HSS-VU100	120			
HSS-VU125	147	127	50	13
HSS-VU150	173			

HSS Hole Saw [For Catch Basins] (Center Drill)

Code	Diameter (mm)	Overall Length (mm)	Hole Saw Size (mm)
CD-No.3	6	95	147~173
CD-No.4	6	85	53~120

HSS Hole Saw [For Catch Basins] (Ejector Spring)

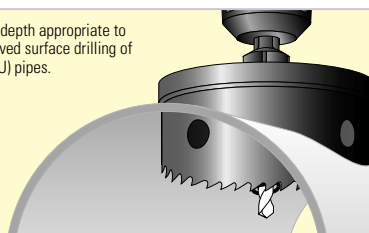
Code	Hole Saw Size (mm)
HSS KS-No.4	53~120

*Compatible hole saw diameters apply to a case where seal packing is used.

*The ejector spring is included as a standard only for hole saws with diameters of 53 mm to 120 mm.

*These hole saws are exclusively for PVC (VU) pipes. Do not use them for other work materials.

Throat depth appropriate to the curved surface drilling of PVC (VU) pipes.



- Blade part utilizing high grade steel (SKH-51), providing a sharp cutting edge.
- Blade thickness only 0.5mm. Thoroughly reducing cutting resistance to a minimum, reducing waste of electrical consumption, improving the number of holes drilled on one full charge.

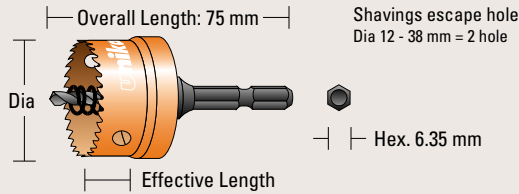
Effective Length

12 mm

Impact Driver Drill Best

Applicable Electric Tool

Cordless Drill / Driver Drill / Electric Drill (under 400W)



STEEL (up to 2 mm)

ALUMINUM (up to 2 mm)

PVC

PLYWOOD

STAINLESS STEEL (up to 0.5 mm)

FRP / PLASTIC

Ejector spring fitted as standard



TOOL BOX SET

There is also the tool box set which is convenient to carrying and receiving.

[For Electrical Repair]

21/27mm×each 2 33mm×each 1 [TB-29]
22/28mm×each 2 35mm×each 1 [TB-30]

[For Equipment Installation]

25/28/30/ 32/35mm×each 1 [TB-31]

CORDLESS HSS Hole Saw [TOOL BOX SET]

Code	Set Diameter (mm)				
TB-29	21	21	27	27	33
TB-30	22	22	28	28	35
TB-31	25	28	30	32	35

CORDLESS HSS Hole Saw (HSSJ)

	Code	Diameter (mm)	Shank Diameter (mm)	Pcs./Box	
△	HSSJ-12	12	6.35	5	
	HSSJ-13	13			
	HSSJ-14	14			
△	HSSJ-15	15			
△	HSSJ-16	16			
	HSSJ-17	17			
△	HSSJ-18	18			
	HSSJ-19	19			
△	HSSJ-20	20	6.35	5	
◎	HSSJ-21	21			
◎	HSSJ-22	22			
	HSSJ-23	23			
	HSSJ-24	24			
○	HSSJ-25	25	6.35	5	
	HSSJ-26	26			
◎	HSSJ-27	27			
○	HSSJ-28	28			
	HSSJ-29	29			
○	HSSJ-30	30			
	HSSJ-31	31	6.35	3	
○	HSSJ-32	32			
◎	HSSJ-33	33			
	HSSJ-34	34			
◎	HSSJ-35	35			
	HSSJ-36	36			
	HSSJ-37	37			
○	HSSJ-38	38			

CORDLESS HSS Hole Saw (Center Drill)

Code	Diameter (mm)	Overall Length (mm)	Hole Saw Size (mm)	
S-4L	4	41	12~38	

CORDLESS HSS Hole Saw (Ejector Spring)

Code	Hole Saw Size (mm)	
HSSJKS-No3	12~14	
HSSJKS-No4	15~38	

*When work material has a plate thickness of 2 mm or more or is pipe material, remove the spring before use.

Compatible Motors

Rechargeable drills of a rotation speed of approximately 1,000 rpm and rotary torque of 50 N·m (approx. 50 kgf·cm) specifications (for rotation use only).

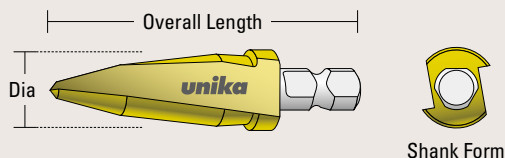
Compact electric drills with electric power consumption of 400 W or less.

*Cannot be used with impact wrenches, drilling machines, percussion drills, or hammer drills.

- Most suitable for drilling prepared hole in deck plate for inserting anchors.
- Long life and excellent sharpness have been achieved by titanium coating and a sharp point.
- Equipped with a safety stopper to prevent pass-through at the time of penetration.
- Use of extension shank also improves workability.

Effective Length 2 mm

Applicable Electric Tool Electric Drill / Percussion Drill (rotating mode)



DECK PLATE

SHEET METAL (up to 2 mm)

STAINLESS STEEL (up to 1 mm)

ALUMINUM (up to 2 mm)

PLASTIC

PVC

RESIN PLATE

All the cutting edge is coated with titanium

Matching insert anchor

Diameter (mm)	Matching insert
15.0	DP-3020 / DM-3040 / PH-3030
16.0	BS (W3/8) / BSL (W3/8) / BSD (W3/8) SHZ-3040 / SH-3040 / KM-3030 SHD-3025 / KP-3020
22.0	BS (W1/2) / BSL (W1/2) / BSD (W1/2) SHZ-4055 / SH-4055 / SHD-4025

Extension shank

An extension shank capable of attaching and detaching the deck bit with a single touch. Most suitable for drilling during standing work.



Titanium coated cutting edge

Stable center positioning capability and long life have been achieved by a unique cutting edge shape, titanium coating on all the cutting edge, and small diameter point.



Safety stopper

Pass-through at time of penetration is prevented because it is equipped with a safety stopper.



Three-sided shank

A three-sided shank capable of reliably transmitting rotation force, and being attached to and detached from the optional extension shank.



Deck Bit (DKB)

Code	Diameter (mm)	Overall Length (mm)	Shank Diameter (mm)	Pcs./Box
DKB-15N	15	68	10	5
DKB-16N	16	69		
DKB-18N	18	74		
DKB-20N	20	80		
DKB-22N	22	84		

Deck Bit (Extension Shank)

Code	Overall Length (mm)	Deck Bit Size (mm)
DKBSK-390	390	15~22
DKBSK-550	550	

Deck Bit [TOOL BOX SET]

Code	Set Diameter (mm)		
TB-50	15	16	22
TB-51	16	16	22

TOOL BOX SET

There is also the tool box set which is convenient for carrying and receiving.

15/16/22mm×each 1 [TB-50]
16/16/22mm×each 1 [TB-51]





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SERIES CATALOGUE

UR 21

CORE DRILLS

HOLE SAWS

CONCRETE DRILLS

ANCHORS



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CORE DRILL

Safety Precautions



WARNINGS

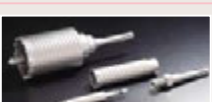
- ❑ Wear working clothes suitable for the operation. In particular, eye protection equipment must be worn to prevent shavings from getting into your eyes.
- ❑ Prepare the working environment before starting the job. Be careful to consider safety when working in high places, being close to inflammable materials, in dark places, in rain, in wet place, on scaffolding. Consider falling, fires, electric shock, etc.
- ❑ Be sure to check if there are any defects in the product before use. Never use the product if it has any defect.
- ❑ Be sure to turn off the main switch of the drill and disconnect the power supply plug from the socket before attaching and detaching the product.
- ❑ Do not touch the product, the shavings, or the drilled surface by hand because they may be hot by drilling friction.
- ❑ Never remodel or modify the product.
- ❑ Do not touch moving parts, especially the drill tip or blades.
- ❑ When you feel anything unusual in use, stop using the product and inspect it as well as the electrical drill.
- ❑ When using the product for any other application than is specified, be sure to contact UNIKA.
- ❑ Carefully read the instruction manual of the electrical drill used before using the product.



CAUTION

- ❑ Do not allow any person other than the working staff to enter the working place.
- ❑ Do not touch the blades by hand because they are very sharp.
- ❑ Please read handling description well when changing and assembling.
- ❑ Use spare parts that comply with the product specification.
- ❑ The product and its size must be appropriate for the specification of the electrical drill used.

CORE DRILLS

Single-function Core Drill E&S VC Type (Percussion)		4	Braze Diamond Core Drill VPC Type (For PVC Pipe)		10
Single-function Core Drill E&S RC Type (Rotation)		5	Braze Diamond Core Drill FAN Type (For Ventilating Fan)		11
Single-function Core Drill E&S ALC Type (ALC)		6	Diamond Core Drill DC Type		12
Single-function Core Drill E&S DC Type (Dry Diamond)		7	Rotary Hammer Core Drill LHC Type		13
Single-function Core Drill E&S MC Type (Multi)		8	Hammer Core Drill HC Type		14
Single-function Core Drill E&S FC Type (Compound Material)		9			

CORE DRILLS USAGE CHART

	◎=Best suited ○=Suitable △=Less suitable																										
	CONCRETE	BLOCK / BRICK	MORTAR	SLATE	ALC	JAPANESE WALL	HARD EXTERIOR PANEL	SOFT EXTERIOR PANEL	PLASTERBOARD	STONE	ARTIFICIAL MARBLE	ROOF TILE	CERAMIC TILE	PORCELAIN TILE	PLASTICS	PVC	FRP	VU PIPE	PVC PIPE	FRPM/PIPE	HUME PIPE	CERAMIC PIPE	WOOD/PLYWOOD	STEEL/ALUMINUM	METAL SIDING PANEL	2x4's including nails	STAINLESS STEEL
E&S VC (Percussion)		◎	◎	○		○	○	○	○					△													
E&S RC (Rotation)		○		◎		○		○	◎			○		△	○	◎						○					
E&S ALC (ALC)					◎				○																		
E&S DC (Dry Diamond)	◎	○	◎	○			◎	○		*○	◎	○	*○	○							○						
E&S MC (Multi)							○	◎	◎							◎	◎						○				
E&S FC (Compound Material)								△	○							◎	◎						◎	◎	◎	◎	○
BRAZE Diamond VPC Type							○	○			○						○	◎	◎	◎							
BRAZE Diamond FAN Type					◎		◎	◎	◎		○						○	○	○	○							
Diamond Core Drill DC Type	◎	○	◎	○	○		◎	○		◎	◎	○	○	○													
Rotary Hammer Core Drill LHC Type	◎	◎	◎	○																							
Hammer Core Drill HC Type	◎	○																									

*Use water for cooling the cutting edge when drilling ceramic tiles and stone.

CORE DRILLS

Single-function
Core Drill

E&S

VC Type

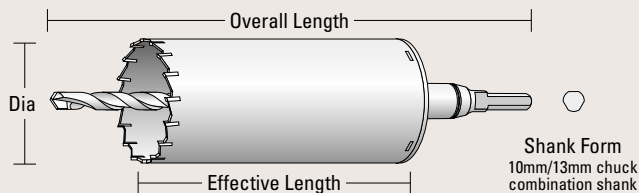


- Applying vibration and rotation to the cutting edge enables speedier drilling by crushing the work material while drilling.
- A wide lineup of diameter sizes of 22 mm to 220 mm.
- Uses "10 mm/13 mm chuck combination shank" allowing most drill chucks.
- SDS shanks are also available at the same price.

*Use the rotation mode for plasterboards and soft siding boards.

Effective Length Please refer to the spec table.

Applicable Electric Tool Percussion Drill



Percussion



BLOCK / BRICK

MORTAR

SLATE

JAPANESE WALL

***PLASTERBOARD**

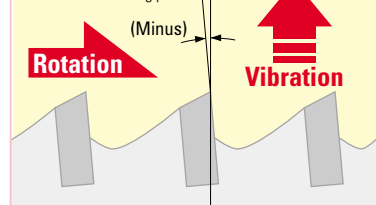
EXTERIOR PANELS



- Equipped with "drilling swarf discharge holes" in consideration of debris. Drilling swarf discharge holes for drills with a diameter of 22 - 38 mm positioned on the body side surface.
- "10mm/13mm chuck combination shank" allows for most drill chucks.

Cutting edge shape

Robust cutting edge angle excels in vibration and striking power.



ES-V (Straight-Shank)

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	
	ES-V22ST	22	235	135	
	ES-V25ST	25	270	150	
○	ES-V29ST	29			
○	ES-V32ST	32			
	ES-V35ST	35			
○	ES-V38ST	38			
	ES-V40ST	40	269	135	
	ES-V45ST	45			
○	ES-V50ST	50			
	ES-V55ST	55			
	ES-V60ST	60			
◎	ES-V65ST	65			
△	ES-V70ST	70			
	ES-V75ST	75			
△	ES-V80ST	80			
	ES-V85ST	85			
	ES-V90ST	90			
	ES-V95ST	95	269	135	
	ES-V100ST	100			
	ES-V105ST	105			
△	ES-V110ST	110			
	ES-V120ST	120			
	ES-V130ST	130			
	ES-V150ST	150			
	ES-V155ST	155			
	ES-V160ST	160			
	ES-V170ST	170			
	ES-V200ST	200			
	ES-V220ST	220			

ES-V (SDS-Shank)

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	
	ES-V25SDS	25	283	150	
△	ES-V29SDS	29			
◎	ES-V32SDS	32			
○	ES-V35SDS	35			
◎	ES-V38SDS	38			
	ES-V40SDS	40	282	135	
	ES-V45SDS	45			
◎	ES-V50SDS	50			
	ES-V55SDS	55			
△	ES-V60SDS	60			
◎	ES-V65SDS	65			
○	ES-V70SDS	70			
	ES-V75SDS	75			
△	ES-V80SDS	80			
	ES-V85SDS	85			
	ES-V90SDS	90			
	ES-V95SDS	95	282	135	
	ES-V100SDS	100			
	ES-V105SDS	105			
◎	ES-V110SDS	110			
	ES-V120SDS	120			
	ES-V130SDS	130			
	ES-V150SDS	150			
	ES-V155SDS	155			
△	ES-V160SDS	160			
	ES-V170SDS	170			
	ES-V200SDS	200			
	ES-V220SDS	220			

**Single-function
Core Drill**

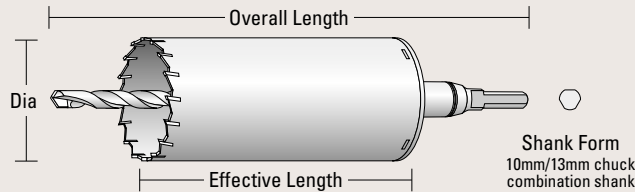
E&S RC Type



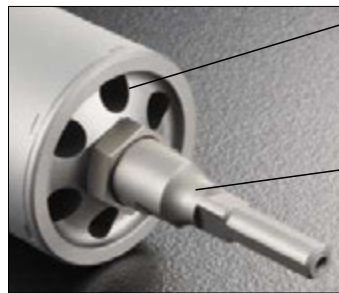
- Adopts a sharp cutting-edge shape which enables speedy drilling only by rotation.
- Simultaneous pursuit of accuracy and efficiency. Sure and steady drilling is enabled even for fragile work materials.
- Uses "10 mm/13 mm chuck combination shank" allowing most drill chucks.
- SDS shanks are also available at the same price.

Effective Length Please refer to the spec table.

Applicable Electric Tool Electric Drill / Percussion Drill (rotating mode)



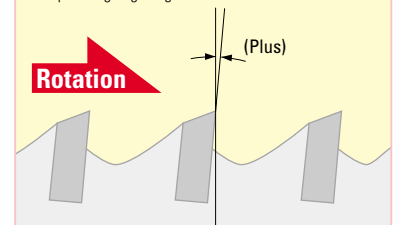
PVC	PLASTERBOARD	SLATE	BLOCK/BRICK
MORTAR	JAPANESE WALL	ROOF TILE	PORCELAIN TILE
PLASTIC	PORCELAIN PIPE	EXTERIOR PANELS	



- Equipped with "drilling swarf discharge holes" in consideration of debris. Drilling swarf discharge holes for drills with a diameter of 22 - 38 mm positioned on the body side surface.
- "10mm/13mm chuck combination shank" allows for most drill chucks.

Cutting edge shape

Sharp cutting edge angle excels in rotational force.



ES-R (Straight-Shank)

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	
	ES-R22ST	22	235	135	
	ES-R25ST	25	270	150	
○	ES-R29ST	29			
△	ES-R32ST	32			
	ES-R35ST	35			
	ES-R38ST	38			
	ES-R40ST	40	269	135	
	ES-R45ST	45			
○	ES-R50ST	50			
△	ES-R55ST	55			
	ES-R60ST	60			
◎	ES-R65ST	65			
	ES-R70ST	70			
	ES-R75ST	75			
◎	ES-R80ST	80			
	ES-R85ST	85			
○	ES-R90ST	90			
	ES-R95ST	95	269	135	
	ES-R100ST	100			
	ES-R105ST	105			
	ES-R110ST	110			
◎	ES-R120ST	120			
△	ES-R130ST	130			
○	ES-R150ST	150			
	ES-R160ST	160			
◎	ES-R170ST	170			
	ES-R200ST	200			
△	ES-R220ST	220			

ES-R (SDS-Shank)

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	
	ES-R25SDS	25	283	150	
	ES-R29SDS	29			
	ES-R32SDS	32			
	ES-R35SDS	35			
	ES-R38SDS	38			
	ES-R40SDS	40	282	135	
	ES-R45SDS	45			
○	ES-R50SDS	50			
	ES-R55SDS	55			
	ES-R60SDS	60			
○	ES-R65SDS	65			
	ES-R70SDS	70			
	ES-R75SDS	75			
△	ES-R80SDS	80			
	ES-R85SDS	85			
	ES-R90SDS	90			
	ES-R95SDS	95	282	135	
△	ES-R100SDS	100			
	ES-R105SDS	105			
△	ES-R110SDS	110			
△	ES-R120SDS	120			
	ES-R130SDS	130			
	ES-R150SDS	150			
	ES-R160SDS	160			
△	ES-R170SDS	170			
	ES-R200SDS	200			
	ES-R220SDS	220			

CORE DRILLS

Single-function
Core Drill

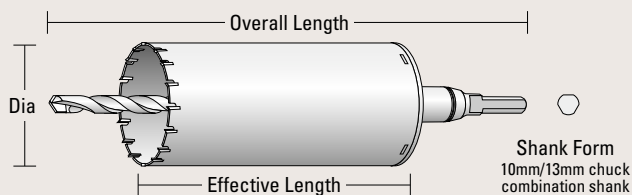
E&S ALC Type



- Compatible with ALC features. Large-bore drilling realized for hard-to-drill materials of ALC panels.
- Outstanding rotational force enables easy cutting of ALC panels including piano wires and double reinforcement.
- Sharp drilling force is provided for the ultra-hard tips of cutting edges. Adopts high-toughness materials that excel in wear resistance.
- SDS shanks are also available at the same price.

Effective Length Please refer to the spec table.

Applicable Electric Tool Electric Drill / Percussion Drill (rotating mode)

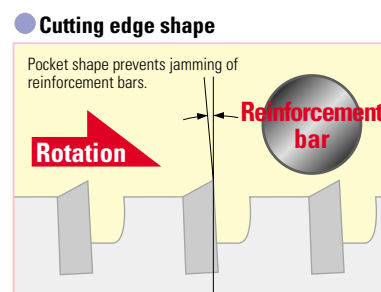


ALC PANEL

PLASTERBOARD



- Equipped with "drilling swarf discharge holes" in consideration of debris. Drilling swarf discharge holes for drills with a diameter of 22 - 38 mm positioned on the body side surface.
- "10mm/13mm chuck combination shank" allows for most drill chucks.



ES-A (Straight-Shank)

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	
	ES-A22ST	22	235	135	
	ES-A25ST	25	270	150	
	ES-A29ST	29			
	ES-A32ST	32			
	ES-A35ST	35			
	ES-A38ST	38			
	ES-A40ST	40	269	135	
	ES-A45ST	45			
◎	ES-A50ST	50			
	ES-A55ST	55			
	ES-A60ST	60			
◎	ES-A65ST	65			
	ES-A70ST	70			
	ES-A75ST	75			
○	ES-A80ST	80			
	ES-A85ST	85			
	ES-A90ST	90			
	ES-A95ST	95	269	135	
	ES-A100ST	100			
	ES-A105ST	105			
△	ES-A110ST	110			
	ES-A120ST	120			
	ES-A130ST	130			
	ES-A150ST	150			
	ES-A155ST	155			
△	ES-A160ST	160			
	ES-A170ST	170			
	ES-A200ST	200			
	ES-A220ST	220			

ES-A (SDS-Shank)

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	
	ES-A25SDS	25	283	150	
	ES-A29SDS	29			
△	ES-A32SDS	32			
	ES-A35SDS	35			
	ES-A38SDS	38			
	ES-A40SDS	40	282	135	
	ES-A45SDS	45			
◎	ES-A50SDS	50			
	ES-A55SDS	55			
	ES-A60SDS	60			
◎	ES-A65SDS	65			
◎	ES-A70SDS	70			
△	ES-A75SDS	75			
○	ES-A80SDS	80			
	ES-A85SDS	85			
	ES-A90SDS	90			
	ES-A95SDS	95	282	135	
○	ES-A100SDS	100			
△	ES-A105SDS	105			
◎	ES-A110SDS	110			
	ES-A120SDS	120			
△	ES-A130SDS	130			
	ES-A150SDS	150			
△	ES-A155SDS	155			
◎	ES-A160SDS	160			
	ES-A170SDS	170			
	ES-A180SDS	180			
	ES-A200SDS	200			
○	ES-A210SDS	210			
	ES-A220SDS	220			
○	ES-A260SDS	260			

Single-function
Core Drill

E&S DC Type

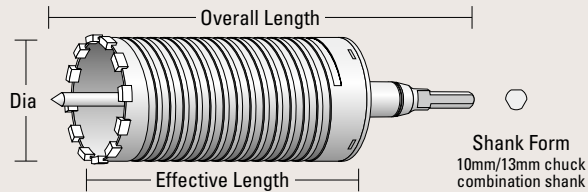


- Capable of drilling reinforced concrete (cutting up to triple-reinforcement) by dry process without using water.
- Center pin positions only to reduce vibration and noise.
- Uses "10 mm/13 mm chuck combination shank" allowing most drill chucks.
- SDS shanks are also available at the same price.

*Use water for cooling the cutting edge when drilling ceramic tiles and stone.

Effective Length Please refer to the spec table.

Applicable Electric Tool Electric Drill / Percussion Drill (rotating mode)



Dry Diamond



REINFORCED CONCRETE **HARD EXTERIOR PANEL**

Resin-based **ARTIFICIAL MARBLE**

MORTAR

EXTRUDED CEMENT PANEL

SOFT EXTERIOR PANEL

BLOCK / BRICK

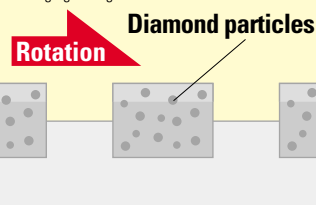
* **CERAMIC TILE**

CORE DRILLS



Cutting edge shape

Using diamond particles, drilling is performed through grinding the worked on material.



ES-D (Straight-Shank)

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	
△	ES-D25ST	25	253	150	
△	ES-D29ST	29			
○	ES-D32ST	32			
○	ES-D35ST	35			
○	ES-D38ST	38			
	ES-D40ST	40	252	135	
	ES-D45ST	45			
○	ES-D50ST	50			
	ES-D55ST	55			
	ES-D60ST	60			
◎	ES-D65ST	65			
△	ES-D70ST	70			
	ES-D75ST	75			
	ES-D80ST	80			
	ES-D85ST	85			
	ES-D90ST	90			
	ES-D95ST	95	252	135	
	ES-D100ST	100			
	ES-D105ST	105			
	ES-D110ST	110			
	ES-D120ST	120			
	ES-D130ST	130			
	ES-D150ST	150			
	ES-D160ST	160			
	ES-D170ST	170			

ES-D (SDS-Shank)

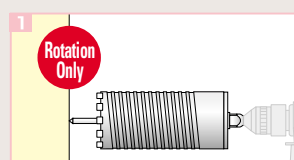
	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	
△	ES-D25SDS	25	266	150	
○	ES-D29SDS	29			
◎	ES-D32SDS	32			
○	ES-D35SDS	35			
◎	ES-D38SDS	38			
△	ES-D40SDS	40	265	135	
	ES-D45SDS	45			
◎	ES-D50SDS	50			
	ES-D55SDS	55			
△	ES-D60SDS	60			
◎	ES-D65SDS	65			
○	ES-D70SDS	70			
	ES-D75SDS	75			
△	ES-D80SDS	80			
	ES-D85SDS	85			
	ES-D90SDS	90			
	ES-D95SDS	95	265	135	
	ES-D100SDS	100			
	ES-D105SDS	105			
	ES-D110SDS	110			
	ES-D120SDS	120			
	ES-D130SDS	130			
	ES-D150SDS	150			
△	ES-D160SDS	160			
	ES-D170SDS	170			

ES-DH For Hume Pipe (SDS-Shank)

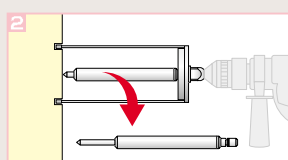
Build to order

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	
	ES-DH150SDS	150	265	135	
	ES-DH170SDS	170			
	ES-DH200SDS	200			
	ES-DH220SDS	220			

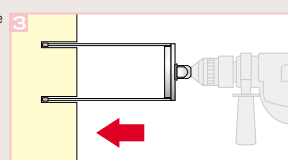
Handling Method



Align the center pin with the drilling position. Hold it tight and turn on the motor switch. [Rotation mode]



Stop the motor when the cutting edge is inserted approximately 5 mm and remove the center pin.



Lightly press the body against the drilling groove and continue operation.

* ドレス (目立て・目出し) 作業についてはP.12をご覧ください。

CORE DRILLS

Single-function
Core Drill

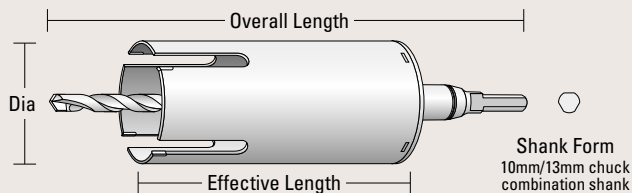
E&S MC Type



- Multi-purpose in drilling in siding board walls, plasterboard, FRP, veneer panels, PVC panels, and compound materials etc.
- Pocket shape in consideration of swarf discharge efficiency also facilitates smooth drilling in thick panels and deep holes.
- SDS shanks are also available at the same price.

Effective Length Please refer to the spec table.

Applicable Electric Tool Electric Drill / Percussion Drill (rotating mode)



SOFT EXTERIOR PANEL

P V C

F R P

PLASTERBOARD

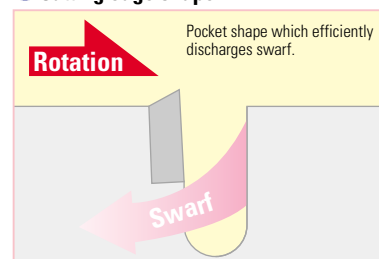
WOOD

PLYWOOD



- Equipped with "drilling swarf discharge holes" in consideration of debris.
Drilling swarf discharge holes for drills with a diameter of 22 - 38 mm positioned on the body side surface.
- "10mm/13mm chuck combination shank" allows for most drill chucks.

Cutting edge shape



ES-M (Straight-Shank)

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	
	ES-M25ST	25	270	150	
	ES-M29ST	29			
⊙	ES-M32ST	32			
△	ES-M35ST	35			
○	ES-M38ST	38			
	ES-M40ST	40	269	135	
	ES-M45ST	45			
△	ES-M50ST	50			
	ES-M55ST	55			
	ES-M60ST	60			
⊙	ES-M65ST	65			
○	ES-M70ST	70			
△	ES-M75ST	75			
	ES-M80ST	80			
	ES-M85ST	85			
	ES-M90ST	90			
	ES-M95ST	95	269	135	
	ES-M100ST	100			
	ES-M105ST	105			
⊙	ES-M110ST	110			
	ES-M120ST	120			
	ES-M130ST	130			
	ES-M150ST	150			
	ES-M155ST	155			
△	ES-M160ST	160			
	ES-M170ST	170			

ES-M (SDS-Shank)

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	
	ES-M25SDS	25	283	150	
	ES-M29SDS	29			
⊙	ES-M32SDS	32			
	ES-M35SDS	35			
	ES-M38SDS	38			
○	ES-M40SDS	40	282	135	
	ES-M45SDS	45			
△	ES-M50SDS	50			
	ES-M55SDS	55			
	ES-M60SDS	60			
⊙	ES-M65SDS	65			
	ES-M70SDS	70			
	ES-M75SDS	75			
○	ES-M80SDS	80			
	ES-M85SDS	85			
	ES-M90SDS	90			
	ES-M95SDS	95	282	135	
△	ES-M100SDS	100			
	ES-M105SDS	105			
○	ES-M110SDS	110			
	ES-M120SDS	120			
	ES-M130SDS	130			
	ES-M150SDS	150			
	ES-M155SDS	155			
○	ES-M160SDS	160			
	ES-M170SDS	170			

**Single-function
Core Drill**

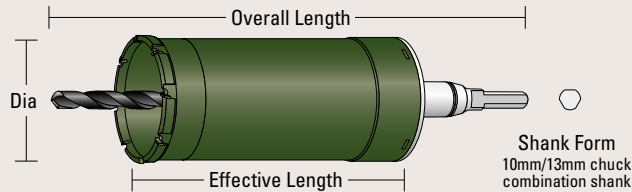
E&S FC Type



- Adopting unique double blade features, with the inner-blade preceding the outer-blade, boring through material such as; metallic siding, stainless steel/wood siding as well as compound materials (metallic plate + insulating material + plywood) at one go is possible.
- Swarf is efficiently discharged in boring wooden materials. It is also possible to bore through several layers of thin steel plates.
- SDS shanks are also available at the same price.

Effective Length Please refer to the spec table.

Applicable Electric Tool Electric Drill / Percussion Drill (rotating mode)



Compound Material



STEEL / ALUMINUM

METAL SIDING PANEL

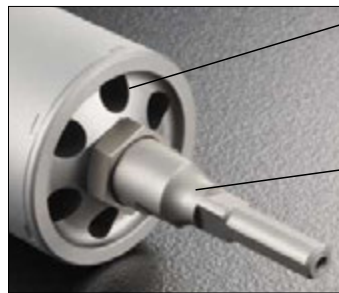
2x4's including nails

WOOD / PLYWOOD

PVC / FRP

PLASTERBOARD

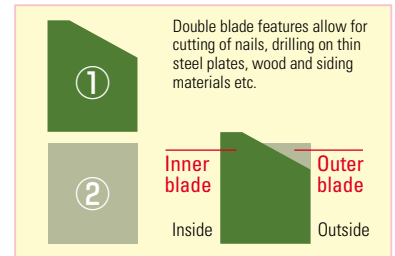
STAINLESS STEEL



● Equipped with "drilling swarf discharge holes" in consideration of debris.
Drilling swarf discharge holes for drills with a diameter of 22 - 38 mm positioned on the body side surface.

● "10mm/13mm chuck combination shank" allows for most drill chucks.

● Cutting edge shape



ES-F (Straight-Shank)

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	
	ES-F25ST	25	270	150	
	ES-F29ST	29			
○	ES-F32ST	32			
○	ES-F35ST	35			
	ES-F38ST	38			
	ES-F40ST	40	269	135	
	ES-F45ST	45			
△	ES-F50ST	50			
	ES-F55ST	55			
	ES-F60ST	60			
◎	ES-F65ST	65			
	ES-F70ST	70			
	ES-F75ST	75			
○	ES-F80ST	80			
	ES-F85ST	85			
△	ES-F90ST	90			
	ES-F95ST	95	269	135	
△	ES-F100ST	100			
	ES-F105ST	105			
○	ES-F110ST	110			
	ES-F120ST	120			
	ES-F130ST	130			
	ES-F150ST	150			
	ES-F155ST	155			
△	ES-F160ST	160			
	ES-F170ST	170			

ES-F (SDS-Shank)

	Code	Diameter (mm)	Overall Length (mm)	Effective Length (mm)	
	ES-F25SDS	25	283	150	
	ES-F29SDS	29			
◎	ES-F32SDS	32			
○	ES-F35SDS	35			
◎	ES-F38SDS	38			
	ES-F40SDS	40	282	135	
	ES-F45SDS	45			
◎	ES-F50SDS	50			
	ES-F55SDS	55			
	ES-F60SDS	60			
◎	ES-F65SDS	65			
○	ES-F70SDS	70			
	ES-F75SDS	75			
△	ES-F80SDS	80			
	ES-F85SDS	85			
	ES-F90SDS	90			
	ES-F95SDS	95	282	135	
	ES-F100SDS	100			
	ES-F105SDS	105			
◎	ES-F110SDS	110			
△	ES-F120SDS	120			
	ES-F130SDS	130			
	ES-F150SDS	150			
	ES-F155SDS	155			
○	ES-F160SDS	160			
	ES-F170SDS	170			

CORE DRILLS



**Braze Diamond Core Drill
For PVC Pipe**

VPC Type

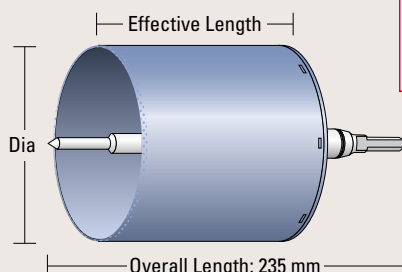


- Diamond abrasive grit most suitable for drilling in polyvinyl chloride pipe to the cutting edge.
- Prevents drill stopping when drilling rib pipe to achieve stable operation with no burrs.
- Expands the "drilling swarf discharge hole" on the flange part to reduce weight.
- Adopts center pin system enabling simple center positioning.

Effective Length 110 mm

Applicable Electric Tool

**Electric Drill /
Percussion Drill
(rotating mode)**



Shank Form
10mm/13mm chuck
combination shank



VU PIPE

RIB PIPE

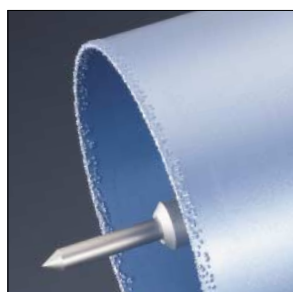
FRPM PIPE

PVC PIPE

MARBLE PANEL

SOFT EXTERIOR PANEL

*This drill cannot be used on metallic pipes such as spiral pipes and cast-iron pipes, and metallic plates.



● Equipped with "drilling swarf discharge holes"
in consideration of debris.

● "10mm/13mm chuck combination shank"
allows for most drill chucks.

● Features of braze diamond

- Minimal amount of diamond dislodging, longer life and more grinding force in comparison with electrodeposition because the diamonds are firmly bonded.
- Less clogging and stable sharpness because diamonds are largely protruded and the space between them are deep.

● Appropriate motor

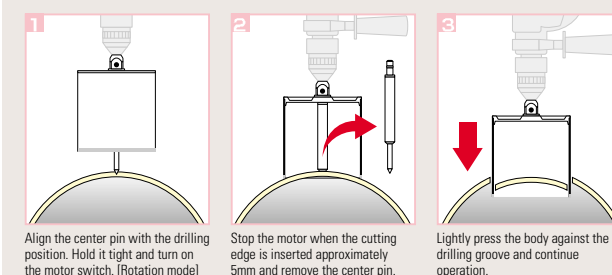
- Power consumption: 500W 8A or more
- Rotation speed: 700rpm or more

⚠ Precautions on use

- Braze diamond is only in dry conditions. Do not use water.
- Dressing is unnecessary for braze diamond.
- Braze diamond cannot be used for steel pipes such as spiral pipes and duct pipes.



● Handling Method



BZ-VPC (Straight-Shank)

Code	Diameter (mm)	Center Pin (code)	
BZ-VPC120ST	120	BZCP-Nb.1	
BZ-VPC170ST	170		
BZ-VPC220ST	220		

BZ-VPC (Center Pin)

Code	Diameter (mm)	Core Drill Size (mm)	
BZCP-Nb.1	169	120~220	

BZ-VPC (Center Drill)

Code	Diameter (mm)	Overall Length (mm)	Core Drill Size (mm)	
BZCD-Nb.1	10.0	180	120~220	

● Matching table of sockets installed for PVC pipes

Core Drill Size (mm)	Nominal diameter of pipe installed socket (mm)
120	100
170	150
220	200

*Make sure to pay attention to the nominal diameter of socket and actual prepared hole size.



**Braze Diamond Core Drill
For Ventilating Fan**

FAN Type

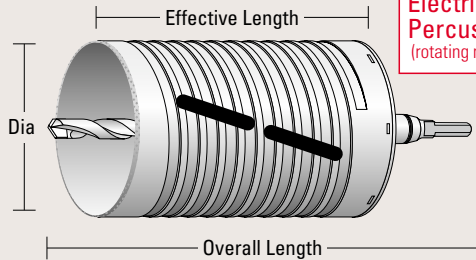


- Diamond abrasive grit most suitable for drilling in ALC panels to the cutting edge.
- Smoothly cuts piano wire and triple reinforcement, including ALC panels. Prevents drill stopping.
- Expands the "drilling swarf discharge hole" on the flange part to reduce weight.
- Adopts a center pin system enabling simple center positioning.

Effective Length 160 mm

Applicable Electric Tool

**Electric Drill /
Percussion Drill**
(rotating mode)



Shank Form
10mm/13mm chuck
combination shank



ALC PANEL (also cutting piano wire and triple reinforcement)

MARBLE PANEL

SOFT EXTERIOR PANEL

*This core drill cannot be used for metallic plates, metallic pipes, wood, mortar, blocks and concrete.



● Equipped with "drilling swarf discharge holes"
in consideration of debris.

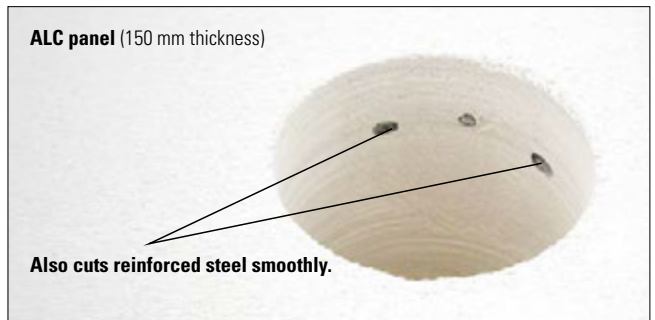
● "10mm/13mm chuck combination shank"
allows for most drill chucks.

● Features of brazed diamond

- Minimal amount of diamond dislodging, longer life and more grinding force in comparison with electrodeposition because the diamonds are firmly bonded.
- Less clogging and stable sharpness because diamonds are largely protruded and the space between them are deep.

● Appropriate motor

- Power consumption: 750W 8A or more
- Rotation speed: 800rpm or more



⚠ Precautions on use

- Braze diamond is only in dry conditions. Do not use water.
- Dressing is unnecessary for braze diamond.
- Braze diamond cannot be used for metallic plates, metallic pipes, and wood.
- Braze diamond cannot be used for mortar, block and concrete.

BZ-FAN (Straight-Shank)

Code	Diameter (mm)	Overall Length (mm)	Center Drill (code)	
BZ-FAN65ST	65	299	BZCD	
BZ-FAN70ST	70		-No.2	
BZ-FAN80ST	80			
BZ-FAN95ST	95			
BZ-FAN110ST	110			
BZ-FAN160ST	160			

BZ-FAN (SDS-Shank)

Code	Diameter (mm)	Overall Length (mm)	Center Drill (code)	
BZ-FAN65SD	65	312	BZCD	
BZ-FAN70SD	70		-No.2	
BZ-FAN80SD	80			
BZ-FAN95SD	95			
BZ-FAN110SD	110			
BZ-FAN160SD	160			

BZ-FAN (Center Drill)

General attachment

Code	Diameter (mm)	Overall Length (mm)	Core Drill Size (mm)	
BZCD-No.2	10.0	250	65~160	

BZ-FAN (Center Pin)

Optional product

Code	Overall Length (mm)	Core Drill Size (mm)	
BZCP-No.2	216	65~160	



www.npower.com.vn

Tài liệu được tổng hợp bởi đội ngũ kỹ thuật của **NPOWER** Bản quyền nội dung thuộc về công ty **Unika**

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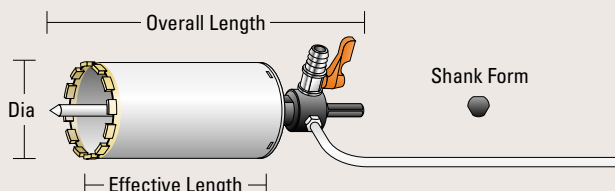
Diamond Core Drill **DC** Type



- Drill reinforced concrete (up to 10mm-reinforced) with hardly any impact, low noise, and low load.
- Easy-to-use center pin system enabling simple center positioning.

Effective Length 150 mm (Dia:29~38mm) / 130 mm (Dia:50~120mm)

Applicable Electric Tool Electric Drill / Percussion Drill (rotating mode)



CONCRETE	STONE	Resin-based ARTIFICIAL MARBLE
MORTAR	HARD EXTERIOR PANELS	
BLOCK / BRICK	SLATE	ROOF TILE
CERAMIC TILE	PORCELAIN TILE	SOFT EXTERIOR PANELS

● Appropriate motor

- Power consumption: 500W or more
- Rotation speed: 1000 - 1400rpm or more

⚠ Precautions on use

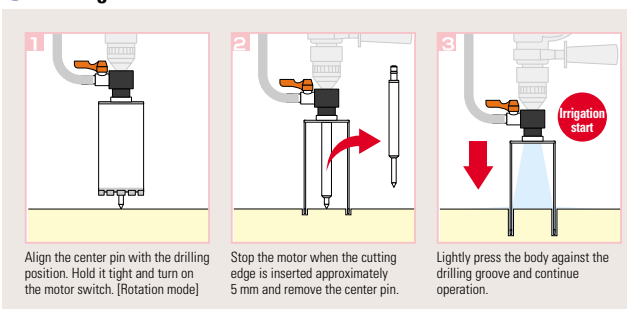
- Diamond burns and carbonized at high temperatures. Water must be provided during drilling operations to cool the diamond tip.
- Make sure to remove the center pin once the drilling point is positioned.
- Avoid cutting the reinforcement wherever possible since it relates to the strength of the structure.

● Extention shank

- Use by inserting between body and water feed shank.



● Handling Method



DC (Set)		Diameter (mm)	Overall Length (mm)	Center Pin (code)	
ST-Shank	SDS-Shank				
DC-29S	DC-29SDS	29	282	DWP-No.0	
DC-32S	DC-32SDS	32	SDS (306)		
DC-35S	DC-35SDS	35			
DC-38S	DC-38SDS	38			
DC-50S	DC-50SDS	50	263	DWP-No.1	
DC-60S	DC-60SDS	60	SDS (287)		
DC-65S	DC-65SDS	65			
DC-70S	DC-70SDS	70			
DC-75S	DC-75SDS	75			
DC-80S	DC-80SDS	80			
DC-100S	DC-100SDS	100			
DC-110S	DC-110SDS	110			
DC-120S	DC-120SDS	120			

DC (Body)		Body Length (mm)	
Code			
DC-29B		170	
DC-32B			
DC-35B			
DC-38B			
DC-50B		155	
DC-60B			
DC-65B			
DC-70B			
DC-75B			
DC-80B			
DC-100B			
DC-110B			
DC-120B			

DC (Lubricate Shank)			
Code	Overall Length (mm)	Socket Diameter (mm)	Shank Type
DS-1	118	16	Straight
DS-SDS	142	16	SDS

DC (Extention Shank)		
Code	Overall Length (mm)	Application
DLS-220	220	Should be used for deep holes or penetrating thick walls.

DC (Center Pin)			
Code	Overall Length (mm)	Core Drill Size (mm)	
DWP-No.0	207	29~38	
DWP-No.1	187	50~120	

DC (L-type Stopper)	
Code	
DC-L	

Rotary Hammer Core Drill

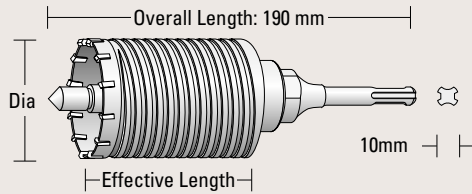
LHC Type



- Large-bore drilling is possible even with small, lightweight hammer drills which have low striking force.
- Reduced body thickness and application of special hardening process makes possible high-speed drilling with durability.
- The inclusion of spiral design for swift swarf removal.
- Center pin does not require guide plate.

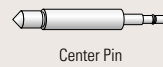
Effective Length 80 mm

Applicable Electric Tool Rotary Hammer Drill (SDS)

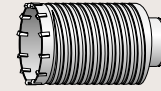


CONCRETE
MORTAR

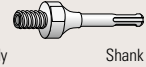
BLOCK / BRICK
SLATE



Center Pin



Body



Shank

Handling Method



Screw the shank into the core drill body.



Insert and set the center pin while aligning it with hole on the tip end of the shank.



Attach to the lightweight hammer drill. This completes preparation.



Only the center pin is required for positioning. Once complete positioning is made by drilling to a depth of approximately 5 mm, pull out the center pin and continue drilling operation.

LHC (Set)

Code	Diameter (mm)	LHC Shanc Code x Length (mm)	Center Pin (code)	
LHC-25	25	No.1×105	No.3	
LHC-29	29			
LHC-32	32			
LHC-35	35			
LHC-38	38	No.2×105	No.3	
LHC-50	50			
LHC-55	55			
LHC-60	60			
LHC-65	65			
LHC-70	70			
LHC-75	75			
LHC-80	80			

LHC (Body)

Code	Diameter (mm)	Body Length (mm)		
LHC-25B	25	105		
LHC-29B	29			
LHC-32B	32			
LHC-35B	35			
LHC-38B	38	105		
LHC-50B	50			
LHC-55B	55			
LHC-60B	60			
LHC-65B	65			
LHC-70B	70			
LHC-75B	75			
LHC-80B	80			

LHC (Shank)

Code	Overall Length (mm)	Core Drill Size (mm)	
LHCSK No.1X105	105	25~38 (Standard)	
LHCSK No.1X300	300	25~38 (Long shank)	
LHCSK No.2X105	105	50~80 (Standard)	
LHCSK No.2X300	300	50~80 (Long shank)	

LHC (Center Pin)

Code	Overall Length (mm)	Core Drill Size (mm)	
LHCCP No.3	116	25~80	

*Center pin required only for positioning is fully made by drilling approx. 5mm, the center pin should be removed and drilling continued.

*Shank configurations are all SDS type.

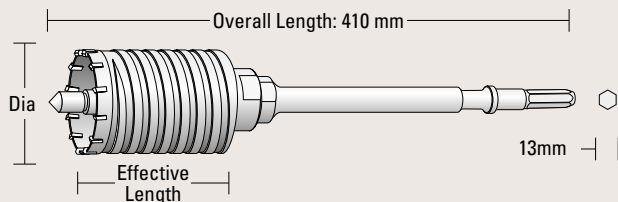
Hammer Core Drill **HC** Type



- Smoothly transmit powerful hammering and rotation force to offer rapid drilling through reinforced concrete (up to 10mm-reinforced).
- Extremely thin body incorporates double spiral to eliminate dispersion of drilling force due to swarf. Speed increased 20% or more compared with conventional products.
- Cope with thick concrete by using shank sizes up to 450mm long.

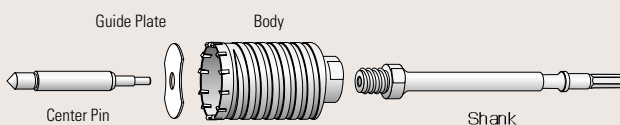
Effective Length 100 mm

Applicable Electric Tool Hammer Drill



CONCRETE

BLOCK / BRICK



HC (Set)				
Code	Diameter (mm)	HC Shank Code x Length (mm)	Center Pin (code)	
HC-25	25	No.1×300	—	
HC-29	29			
HC-32	32	No.1×300	No.1	
HC-35	35			
HC-38	38	No.2×300	No.2	
HC-45	45			
HC-50	50			
HC-55	55			
HC-60	60			
HC-65	65			
HC-70	70			
HC-75	75			
HC-80	80			
HC-95	95			
HC-105	105			
HC-110	110			
HC-120	120			
HC-130	130			
HC-150	150			

HC (Body)				With guide plate
Code	Diameter (mm)	Body Length (mm)		
*HC-25B	25	150		
*HC-29B	29			
HC-32B	32	150		
HC-35B	35			
HC-38B	38	150		
HC-45B	45			
HC-50B	50			
HC-55B	55			
HC-60B	60			
HC-65B	65			
HC-70B	70			
HC-75B	75			
HC-80B	80			
HC-95B	95			
HC-105B	105			
HC-110B	110			
HC-120B	120			
HC-130B	130			
HC-150B	150			

*No guide plate as center pin not required.

HC (Shank)			
Code	Overall Length (mm)	Core Drill Size (mm)	
HCSK-No.1X200	200	25~35	
HCSK-No.1X300	300	25~35 (Standard)	
HCSK-No.1X450	450	25~35 (Long shank)	
HCSK-No.2X200	200	38~150	
HCSK-No.2X300	300	38~150 (Standard)	
HCSK-No.2X450	450	38~150 (Long shank)	

HC (Center Pin)			
Code	Overall Length (mm)	Core Drill Size (mm)	
HCCP-No.1	135	32~35	
HCCP-No.2	126	38~150	



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*Triple-reinforced requires 7 - 8 mins, double-reinforced requires 3 - 4 mins.

● Test results
 ▶ Drilling time / 5 mins
 No. of times maintained
 / Over 100 times

Only the center pin is required for positioning. Pull out the center pin once the work material is drilled to a depth of approximately 5 mm and the drill tip end stops turning, then continue drilling operation.

	Manufacturer	Model No.
Hammer Drill	HITACHI	PR25B
		DH35
		PR38E
		DH40SA
		DH40SR
		DH45SA
	DAIWA	DH42
		HR3520
		HR3530
		HR3850
	MAKITA	HR3811
		HR4030C
RYOBI		ED-383N
	ED-382NA	
	ED-382NPA	

CORE DRILLS



www.unika.co.jp

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SERIES CATALOGUE

UR 21

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SERIES CATALOGUE

unika



ANCHOR

Safety Precautions



WARNINGS

- ❑ Wear working clothes suitable for the operation. In particular, eye protection equipment must be worn to prevent shavings from getting into your eyes.
- ❑ Prepare the working environment before starting the job. Be careful to consider safety when working in high places, being close to inflammable materials, in dark places, in rain, in wet place, on scaffolding. Consider falling, fires, electric shock, etc.
- ❑ Be sure to check if there are any defects in the product before use. Never use the product if it has any defect.
- ❑ Be sure to turn off the main switch of the drill and disconnect the power supply plug from the socket before attaching and detaching the product.
- ❑ Do not touch the product, the shavings, or the drilled surface by hand because they may be hot by drilling friction.
- ❑ Never remodel or modify the product.
- ❑ Do not touch moving parts, especially the drill tip or blades.
- ❑ When you feel anything unusual in use, stop using the product and inspect it as well as the electrical drill.
- ❑ When using the product for any other application than is specified, be sure to contact UNIKA.
- ❑ Carefully read the instruction manual of the electrical drill used before using the product.



CAUTION

- ❑ Do not allow any person other than the working staff to enter the working place.
- ❑ Do not touch the blades by hand because they are very sharp.
- ❑ Please read handling description well when changing and assembling.
- ❑ Use spare parts that comply with the product specification.
- ❑ The product and its size must be appropriate for the specification of the electrical drill used.

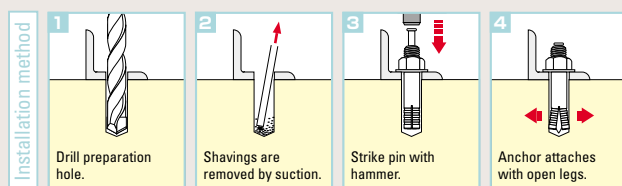
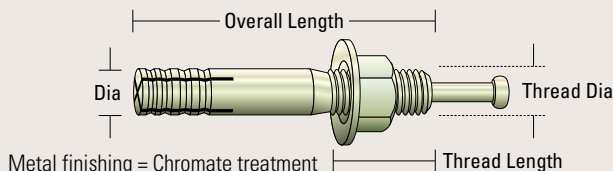
ANCHORS

Rooty Anchor C Type Nail-in anchor		4	NON-plug Screw Screw Type		16
Rooty Anchor SC Type (stainless steel) Nail-in anchor		5	Hollow Plug NA Type Pin anchor		18
Rooty Anchor C-D Type (hot dip galvanizing) Nail-in anchor		6	NP ALC Anchor NBA Type Knock-in Type		18
Rooty Anchor T/Y/ST Type Nail-in anchor		7	NP Plug NAS Type Screw Type		19
Unicon Anchor UC/UCS Type Drop-in anchor		8	Bolt Plug Screw Type		19
Rooty Cut CA/CAS Type Cut anchor		9	Resin-A GE-165 Resin anchor		20
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Big One BGS Type (stainless steel) Wedge anchor		11	Resin-A GE-825 Resin anchor		22
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Rooty Set B/BS Type Bolt anchor		13	Resin-A PE-400N Resin anchor		24
T-lock TL/TLS Type Pin anchor		14	Resin-A PE-600N Resin anchor		25
Weld Anchor AS Type Cut anchor		15	Resin-A HC-U Type Resin anchor		28
NP Anchor NP/NPS Type Hammer Screw Type		15	Resin-A SE Type Resin anchor		29

- Simply hammer in the pin. Just by looking at the pin, completion of anchor can be confirmed.
- As the thread and the anchor main body are the same in diameter, anchoring without rattling is possible by drilling from above fixture.

CONCRETE

STONE



Chromate Treatment



Trivalent Chromate Treatment



Uses

Suited for all kinds of fixture attachments including construction, electrical, sanitation, airconditioning/heating, signboard attachment, seat attachment, and machine installation works.

C Type mm size (Chromate Treatment/Trivalent Chromate Treatment)

FC = 27N/mm²

Code	Diameter (outside dia)	Overall Length (mm)	Thread Length (mm)	Max. Use Thickness (mm)	Drilling Condition (mm)		Embedment Depth (mm)	Max. Extraction Strength (kN)	Pcs./Box	Pcs./Ctn	
					Hole Dia	Hole Depth					
C-645	M6	45	15	5	6.4	35 or more	30	6.2	50	800	
C-660		60	20	10					50	800	
C-840	M8	40	15	5	8.5	30 or more	25	6.2	50	800	
⌀ C-850		50	20	5		40 or more	35	8.5	50	800	
C-860		60	20	15					50	400	
⌀ C-870		70	25	25					50	400	
⌀ C-890		90	25	45					50	400	
C-810		100	35	55					50	400	
C-1050	M10	50	20	5	10.5	35 or more	30	11.5	50	400	
⌀ C-1060		60	25	5		45 or more	40	15.9	50	400	
C-1070		70	25	15					50	300	
⌀ C-1080		80	25	25					50	300	
⌀ C-1090		90	30	35					50	300	
⌀ C-1010		100	30	45					50	300	
⌀ C-1012		120	30	65					50	200	
C-1015		150	40	95					50	200	
C-1260	M12	60	25	8	12.7	42 or more	35	16.0	30	240	
⌀ C-1270		70	25	8		52 or more	45	20.9	30	240	
C-1280		80	25	18					30	180	
⌀ C-1290		90	30	28					30	180	
C-1210		100	30	38					30	180	
⌀ C-1212		120	50	58					30	120	
⌀ C-1215		150	50	88					30	120	
C-1630	M16	80	30	8	17.0	60 or more	50	36.4	15	90	
⌀ C-1610		100	40	18		70 or more	60	41.0	15	90	
C-1612		120	40	38					15	90	
⌀ C-1615		150	40	68					15	60	
⌀ C-1619		190	50	108					15	60	
⌀ C-2013	M20	130	50	25	21.5	95 or more	80	54.5	10	40	
⌀ C-2015		150	50	45					10	40	
⌀ C-2019		190	50	85					10	40	

C Type inch size (Chromate Treatment/Trivalent Chromate Treatment)

FC = 27N/mm²

Code	Diameter (outside dia)	Overall Length (mm)	Thread Length (mm)	Max. Use Thickness (mm)	Drilling Condition (mm)		Embedment Depth (mm)	Max. Extraction Strength (kN)	Pcs./Box	Pcs./Ctn	
					Hole Dia	Hole Depth					
C-2045	W1/4	45	15	5	6.6	35 or more	30	6.6	50	800	
⌀ C-2550	W5/16	50	20	5	8.5	40 or more	35	7.8	50	800	
⌀ C-3060	W3/8	60	25	5	10.0	45 or more	40	15.2	50	400	
⌀ C-3090		90	30	35					50	300	
⌀ C-4070	W1/2	70	25	8	13.5	52 or more	45	19.7	30	240	
C-5010	W5/8	100	40	18	17.0	70 or more	60	38.8	15	90	
C-5012		120	40	38					15	90	

*When ordering a trivalent chromate treated product, please specify. *Maximum extraction strength values are values measured by UNIKA and not standard values.

Rooty Anchor

SC Type (Stainless Steel)



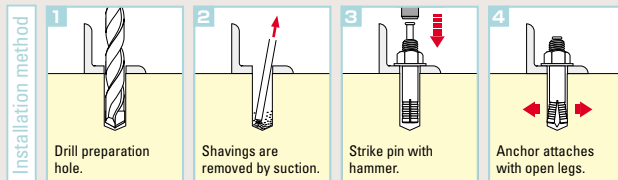
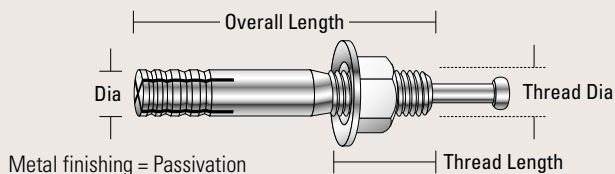
Nail-in anchor

- Simply hammer in the pin. Just by looking at the pin, completion of anchor can be confirmed.
- Screw diameter and anchor unit diameter are the same, allowing use in small drill bores.
- SC type is all stainless steel, making it highly corrosion resistant. Wide applications in high humidity locations.



CONCRETE

STONE



Uses

Suited for all kinds of fixture attachments including construction, electrical, sanitation, airconditioning/heating, signboard attachment, seat attachment, and machine installation works.

SC Type mm size (Stainless Steel)										FC=27N/mm²	
Code	Diameter (outside dia)	Overall Length (mm)	Thread Length (mm)	Max. Use Thickness (mm)	Drilling Condition (mm)		Embedment Depth (mm)	Max. Extraction Strength (kN)	Pcs./Box	Pcs./Ctn	
					Hole Dia	Hole Depth					
SC-645	M6	45	15	5	6.4	35 or more	30	5.3	50	800	
SC-660		60	20	10					50	800	
SC-840	M8	40	15	5	8.5	30 or more	25	7.5	50	800	
② SC-850		50	20	5		40 or more	35	9.6	50	800	
SC-860		60	20	15					50	400	
② SC-870		70	25	25					50	400	
② SC-890		90	25	45					50	400	
SC-810		100	35	55					50	400	
SC-1050	M10	50	20	5	10.5	35 or more	30	13.1	50	400	
② SC-1060		60	25	5		45 or more	40	15.2	50	400	
SC-1070		70	25	15					50	300	
② SC-1080		80	25	25					50	300	
② SC-1090		90	30	35					50	300	
② SC-1010		100	30	45					50	300	
② SC-1012		120	30	65					50	200	
SC-1015		150	40	95					50	200	
SC-1260	M12	60	25	8	12.7	42 or more	35	14.9	30	240	
② SC-1270		70	25	8		52 or more	45	21.4	30	240	
SC-1280		80	25	18					30	180	
② SC-1290		90	30	28					30	180	
② SC-1210		100	30	38					30	180	
② SC-1212		120	50	58					30	120	
② SC-1215		150	50	88					30	120	
SC-1680	M16	80	30	8	17.0	60 or more	50	32.1	15	90	
② SC-1610		100	40	18		70 or more	60	34.0	15	90	
② SC-1612		120	40	38					15	90	
② SC-1615		150	40	68					15	60	
② SC-1619		190	50	108					15	60	
② SC-2013	M20	130	50	25	21.5	95 or more	80	54.1	10	40	
② SC-2015		150	50	45					10	40	
② SC-2019		190	50	85					10	40	

SC Type inch size (Stainless Steel)											FC=27N/mm ²
Code	Diameter (outside dia)	Overall Length (mm)	Thread Length (mm)	Max. Use Thickness (mm)	Drilling Condition (mm)		Embedment Depth (mm)	Max. Extraction Strength (kN)	Pcs./Box	Pcs./Ctn	
					Hole Dia	Hole Depth					
② SC-3060	W3/8	60	25	5	10.0	45 or more	40	17.5	50	400	
SC-4070	W1/2	70	25	8	13.5	52 or more	45	19.6	30	240	

*Maximum extraction strength values are values measured by UNIKA and not standard values.

*Special dimensions for both C and SC types can be produced to order.



JCAA Product Certification Mark
Products with this certification mark satisfy the evaluation and certification standards specified by the Japan Construction Anchor Association (JCAA).

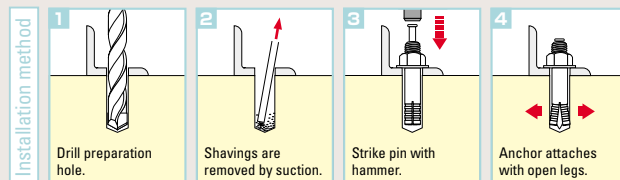
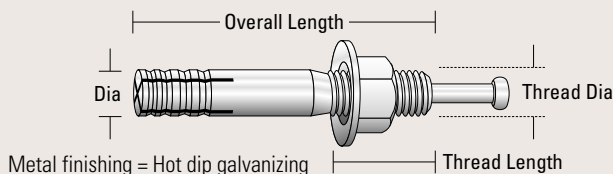
Rooty Anchor **C-D Type** (Hot Dip Galvanizing)

Nail-in anchor

- Simply hammer in the pin. Just by looking at the pin, completion of an anchor can be confirmed.
- Screw diameter and anchor unit diameter are the same, allowing for drilling after installation of equipment and anchoring without rattle.
- The C-D type is dip-brazed, which is excellent in corrosion resistance. (Spindle: stainless steel)

CONCRETE

STONE



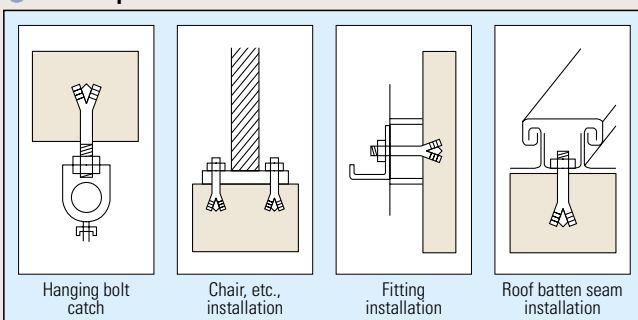
C-D Type mm size (Hot Dip Galvanizing)

FC = 27N/mm²

Code	Diameter (outside dia)	Overall Length (mm)	Thread Length (mm)	Max. Use Thickness (mm)	Drilling Condition (mm)		Embedment Depth (mm)	Max. Extraction Strength (kN)	Pcs./Box	Pcs./Ctn	
					Hole Dia	Hole Depth					
C-850D	M8	50	20	5	8.5	40 or more	35	13.3	50	800	
C-870D		70	25	25					50	400	
C-1050D	M10	50	20	5	10.5	35 or more	30	13.9	50	400	
C-1060D		60	25	5					50	400	
C-1080D		80	25	25					50	300	
C-1090D		90	30	35					50	300	
C-1010D		100	30	45					50	300	
C-1012D	M12	120	30	65					50	200	
C-1260D		60	25	8					30	240	
C-1270D		70	25	8					30	240	
C-1290D		90	30	28					30	180	
C-1210D		100	30	38					30	180	
C-1212D	M16	120	50	58					30	120	
C-1215D		150	50	88					30	120	
C-1610D		100	40	18	17.0	70 or more	60	35.5	15	90	
C-1612D		120	40	38					15	90	
C-1615D		150	40	68					15	60	
C-1619D		190	50	108					15	60	
C-2013D	M20	130	50	25	21.5	95 or more	80	55.6	10	40	
C-2015D		150	50	45					10	40	

*Maximum extraction strength values are values measured by UNIKA and not standard values.

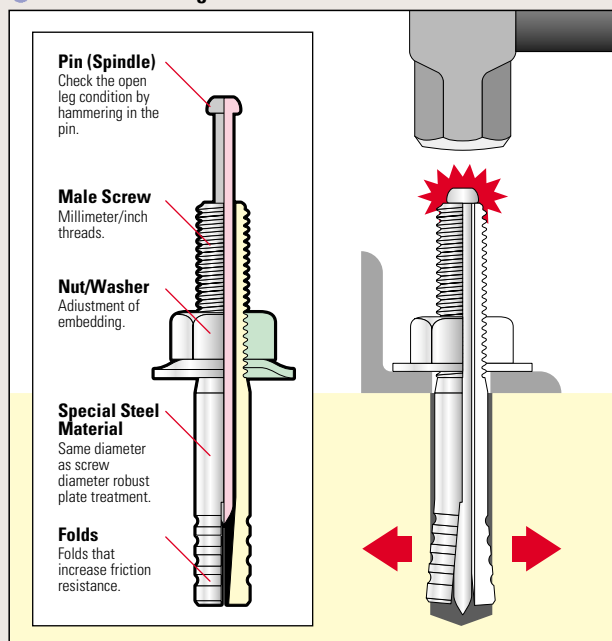
Use examples



⚠ Precautions on use

- Protective clothing including safety glasses and helmets must always be worn when installing.
- Drill perpendicularly into target surface.
- Compared with anchor insertion depth, drill holes should be 5mm deeper for M6, M8, M10; 7mm deeper for M12; 10mm deeper for M16, M20.
- Drilling preparation holes to a shallow will break or bend the pin.
- Sufficiently use blower.
- Always set nut before hammering.
- Use a hammer appropriate for the anchor size.

Structural Drawing



Rooty Anchor

T/Y/ST Type

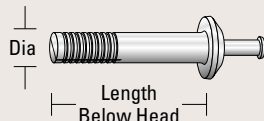
Nail-in anchor

- Simply hammer in the pin. Ideal as anchors for lightweight items such as saddle bands or flat bands.
- T-Type : pan head, Y-Type : flat head, ST-Type : corrosion resistant stainless steel types.

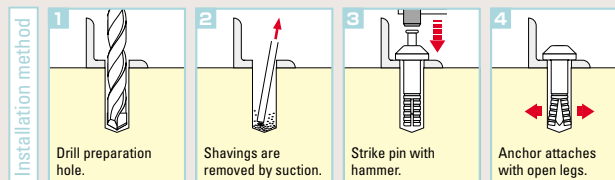
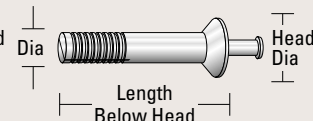


CONCRETE BLOCK STONE

T/ST type



Y type



Uses

For attaching wiring, pipe saddle stop attachment, flat bar attachment, non-slip attachment and fixtures.

T Type (Unichromate Treatment)											FC=27N/mm²
Code	Diameter (mm)	Length Below Head (mm)	Head Diameter (mm)	Max. Use Thickness (mm)	Drilling Condition (mm)		Embedment Depth (mm)	Max. Extraction Strength (kN)	Pcs./Box	Pcs./Ctn	
					Hole Dia	Hole Depth					
T-420	4	20	8	5	4.3	20 or more	15	3.0	100	1,000	
T-425		25		10					100	1,000	
T-525	5	25	10	5	5.4	25 or more	20	5.6	100	1,000	
T-530		30		10					100	1,000	
T-630	6	30	11	5	6.4	30 or more	25	9.0	50	500	
T-640		40		15					50	500	
T-650		50		25					100	1,000	
T-660		60		35					100	1,000	
T-840	8	40	15	5	8.5	40 or more	35	7.9	30	300	

ST Type (Stainless Steel)										FC=27N/mm ²	
Code	Diameter (outside dia)	Length Below Head (mm)	Head Diameter (mm)	Max. Use Thickness (mm)	Drilling Condition (mm)		Embedment Depth (mm)	Max. Extraction Strength (kN)	Pcs./Box	Pcs./Ctn	
					Hole Dia	Hole Depth					
ST-420	4	20	8	5	4.3	20 or more	15	2.4	100	1,000	
ST-425		25		10					100	1,000	
ST-525	5	25	10	5	5.4	25 or more	20	5.3	100	1,000	
ST-530		30		10					100	1,000	
ST-630	6	30	11	5	6.4	30 or more	25	6.8	50	500	
ST-640		40		15					50	500	
ST-645		45		20					100	1,000	
ST-650		50		25					100	1,000	
ST-660		60		35					100	1,000	

Y Type (Unichromate Treatment)											FC=27N/mm²
Code	Diameter (outside dia)	Length Below Head (mm)	Head Diameter (mm)	Max. Use Thickness (mm)	Drilling Condition (mm)		Embedment Depth (mm)	Max. Extraction Strength (kN)	Pcs./Box	Pcs./Ctn	
					Hole Dia	Hole Depth					
Y-420	4	20	8	5	4.3	20 or more	15	4.1	100	1,000	
Y-425		25		10					100	1,000	

*Maximum extraction strength values are values measured by UNIKA and not standard values.

Precautions on use

- Protective clothing including safety glasses and helmets must always be worn when installing.
- Drill hole must be 5mm deeper than insertion depth.



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Unicon Anchor UC/UCS Type



Drop-in anchor

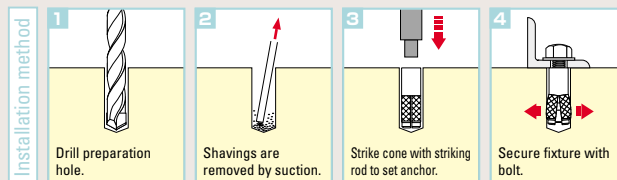
- The leading tapping anchor boasting a large contact area and excellent tensile strength.
- Operating performance is improved by the small preparation hole bore due to the collar outer diameter being narrower than the tap diameter. Overhead installation is also easier.
- Features inner cone. Eliminates loss of cone during installation or "drop-out" after installation.

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Thread Dia	Tightening Torque
M6, W1/4	4 N·m
M8, W5/16	10 N·m
M10, W3/8 (3030B)	20 N·m (10 N·m)
M12, W1/2	35 N·m



Uses

Electrical, plumbing, air-conditioning/heating works.



JCAA Product Certification Mark

Products with this certification mark satisfy the evaluation and certification standards specified by the Japan Construction Anchor Association (JCAA).

UC Type inch size (Unichromate Treatment)

FC = 27N/mm²

Code	Thread Diameter	Diameter (mm)	Overall Length (mm)	Thread Length (mm)	Drilling Condition (mm)		Embedment Depth (mm)	Max. Extraction Strength (kN)	Pcs./Box	Pcs./Ctn	
					Hole Dia	Hole Depth					
UC-2025	W1/4	8.0	25	10	8.5	25	25	8.6	100	1,000	
UC-2530	W5/16	10.0	30	13	10.5	30	30	17.0	100	1,000	
UC-3030B	W3/8	12.0	30	12	12.5	30	30	17.9	100	1,000	
UC-3040			40	15		40	40	22.0	50	1,000	
UC-4050	W1/2	16.0	50	20	16.5	50	50	23.8	50	500	

UC Type mm size (Chromate Treatment)

FC = 27N/mm²

Code	Thread Diameter	Diameter (mm)	Overall Length (mm)	Thread Length (mm)	Drilling Condition (mm)		Embedment Depth (mm)	Max. Extraction Strength (kN)	Pcs./Box	Pcs./Ctn	
					Hole Dia	Hole Depth					
UC-830	M8	10.0	30	13	10.5	30	30	17.4	100	1,000	
UC-1030B	M10	12.5	30	10	13.0	30	30	17.0	100	1,000	

UCS Type inch size (Stainless Steel)

FC = 27N/mm²

Code	Thread Diameter	Diameter (mm)	Overall Length (mm)	Thread Length (mm)	Drilling Condition (mm)		Embedment Depth (mm)	Max. Extraction Strength (kN)	Pcs./Box	Pcs./Ctn	
					Hole Dia	Hole Depth					
UCS-3030B	W3/8	12.0	30	12	12.5	30	30	16.4	100	1,000	
UCS-3040			40	15		40	40	26.7	50	1,000	
UCS-4050	W1/2	16.0	50	20	16.5	50	50	33.5	50	500	

*Maximum extraction strength values are values measured by UNIKA and not standard values.

Hammering Tool (Hand)

Code	Anchor Size (Part No.)	Overall Length (mm)	
PT-20	UC-2025	160	
PT-25	UC-2530 / 830	160	
PT-30	UC-3040 / 1040	160	
PT-30X1000		1,000	
PT-30S	UC-3030B / 1030B	160	
PT-30SX1000		1,000	
PT-40	UC-4050	160	



Hammering Tool (Hand)

Hammering Tool (Machine) SDS-plus

Code	Anchor Size (Part No.)	Overall Length (mm)	
SD-30	UC-3040 / 1040	160	
SD-30X500		500	
SD-30X1000		1,000	
SD-30S	UC-3030B / 1030B	160	
SD-30SX500		500	
SD-30SX1000		1,000	
SD-40	UC-4050	160	



Hammering Tool (Machine)

Unicon anchor bucket set

Code	Anchor Part No.	Prepared Hole Drill	Hammering Tool	
UB-01	UC-3030B (500 pcs)	UX12.5 (2 pcs)	SD30S (1 pcs)	
UB-02	UC-3040 (500 pcs)	UX12.5 (2 pcs)	SD30 (1 pcs)	
UB-03	UCS3030B (200 pcs)	UX12.5 (1 pcs)	SD30S (1 pcs)	

*For the set contents, please feel free to contact us.



Rooty Cut

CA/CAS Type



Cut anchor

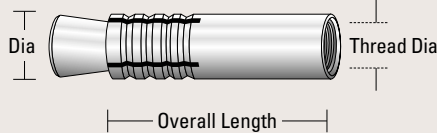
- Most common, high-reliability tapped anchors.
- Enables installation of hexagonal bolts, push-in fittings, suspension bolts without protrusions from concrete surface after installation.

Uses

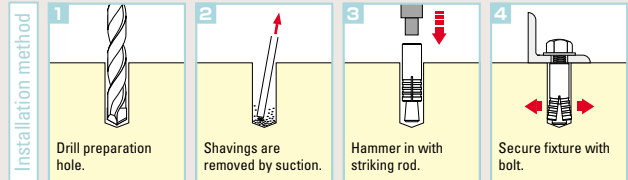
Air-conditioning work, signboard, interior/exterior works, electrical installation work, wiring work etc.

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Thread Dia	Tightening Torque
M6, W1/4	4 N·m
M8, W5/16	10 N·m
M10, W3/8	20 N·m
M12, W1/2	35 N·m
M16, W5/8	85 N·m
M20, W3/4	160 N·m
M22, W7/8	230 N·m



CA Type inch size (Chromate Treatment)

FC=27N/mm²

Code	Thread Diameter	Diameter (mm)	Overall Length (mm)	Thread Length (mm)	Drilling Condition (mm)		Embedment Depth (mm)	Max. Extraction Strength (kN)	Pcs./Box	Pcs./Ctn	
					Hole Dia	Hole Depth					
28CA	W1/4	10.5	30	10	11.0	33	30	16.2	200	1,200	
258CA	W5/16	12.0	35	14	12.5	39	35	17.7	150	900	
38CA-12R (30L)	W3/8	12.0	30	10	12.5	35	30	14.3	150	900	
38CA-12R		12.0	35	10	12.5	40	35	18.9	100	600	
38CA		14.0	40	14	14.5	45	40	23.7	100	600	
48CA	W1/2	17.5	50	22	18.0	56	50	40.7	50	300	
58CA	W5/8	21.5	60	24	22.0	68	60	44.1	25	150	
68CA	W3/4	25.5	80	30	26.0	90	80	72.0	15	90	
78CA	W7/8	28.5	90	35	29.0	100	90	73.1	10	60	

CA Type mm size (Chromate Treatment)

FC=27N/mm²

Code	Thread Diameter	Diameter (mm)	Overall Length (mm)	Thread Length (mm)	Drilling Condition (mm)		Embedment Depth (mm)	Max. Extraction Strength (kN)	Pcs./Box	Pcs./Ctn	
					Hole Dia	Hole Depth					
6CA	M6	10.5	30	10	11.0	33	30	14.7	200	1,200	
8CA	M8	12.0	35	14	12.5	39	35	16.9	150	900	
10CA	M10	14.0	40	14	14.5	45	40	25.7	100	600	
12CA	M12	17.5	50	22	18.0	56	50	32.6	50	300	
16CA	M16	21.5	60	24	22.0	68	60	50.4	25	150	
20CA	M20	25.5	80	30	26.0	90	80	62.5	15	90	
22CA	M22	28.5	90	35	29.0	100	90	64.5	10	60	

CAS Type inch size (Stainless Steel)

FC=27N/mm²

Code	Thread Diameter	Diameter (mm)	Overall Length (mm)	Thread Length (mm)	Drilling Condition (mm)		Embedment Depth (mm)	Max. Extraction Strength (kN)	Pcs./Box	Pcs./Ctn	
					Hole Dia	Hole Depth					
28CAS	W1/4	10.5	30	10	11.0	33	30	15.1	200	1,200	
258CAS	W5/16	12.0	35	14	12.5	39	35	14.7	150	900	
38CAS	W3/8	14.0	40	14	14.5	45	40	18.4	100	600	
48CAS	W1/2	17.5	50	22	18.0	56	50	37.0	50	300	
58CAS	W5/8	21.5	60	24	22.0	68	60	50.7	25	150	
68CAS	W3/4	25.5	80	30	26.0	90	80	71.8	15	90	
78CAS	W7/8	28.5	90	35	29.0	100	90	73.3	10	60	

CAS Type mm size (Stainless Steel)

FC=27N/mm²

Code	Thread Diameter	Diameter (mm)	Overall Length (mm)	Thread Length (mm)	Drilling Condition (mm)		Embedment Depth (mm)	Max. Extraction Strength (kN)	Pcs./Box	Pcs./Ctn	
					Hole Dia	Hole Depth					
6CAS	M6	10.5	30	10	11.0	33	30	11.6	200	1,200	
8CAS	M8	12.0	35	14	12.5	39	35	20.4	150	900	
10CAS	M10	14.0	40	14	14.5	45	40	26.3	100	600	
12CAS	M12	17.5	50	22	18.0	56	50	30.9	50	300	
16CAS	M16	21.5	60	24	22.0	68	60	43.1	25	150	
20CAS	M20	25.5	80	30	26.0	90	80	68.6	15	90	
22CAS	M22	28.5	90	35	29.0	100	90	79.5	10	60	

*Maximum extraction strength values are values measured by UNIKA and not standard values.

Hammering Tool

*mm/inch sizes.

Code	Anchor Size	Length (mm)
28C	M6, W1/4	150
258C	M8, W5/16	160
38C	M10, W3/8	170

Hammering Tool



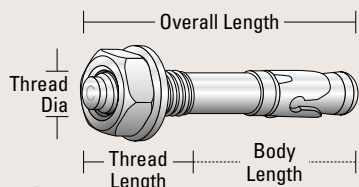
Code	Anchor Size	Length (mm)
48C	M12, W1/2	195
58C	M16, W5/8	200
68C	M20, W3/4	230
78C	M22, W7/8	260

- Demonstrates reliable strength by installation through torque control and three-sided wedges.
- Demonstrates reliable installation strength with the torque control of the three-sided wedges. Installation can be done by either sides of the anchor as the diameter is the same.
- Overall length can be checked after installation by marking on the head.



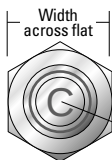
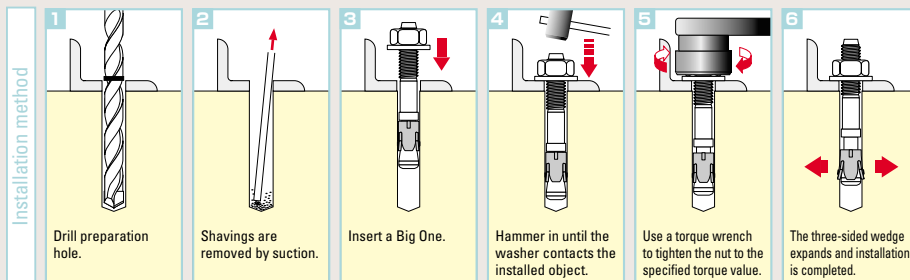
CONCRETE

STONE



Uses

Electrical, plumbing, air-conditioning / heating duct works, elevator construction work, elevator installation work.



Marking on head

Length (mm)	60	70	80	90	100	120	140	150
Marking	B	C	D	E	F	H	J	K

Tightening torque

Thread diameter	M 8	M 10	M 12	M 16
Width across flat	13mm	17mm	19mm	24mm
Tightening torque	15 N·m	30 N·m	45 N·m	100 N·m

BG Type (Unichromate Treatment)

FC=27N/mm²

Code	Diameter (outside dia)	Overall Length (mm)	Marking on head	Thread Length (mm)	Max. Use Thickness (mm)	Drilling Condition (mm)		Nut Width Across Flat (mm)	Embedment Depth (mm)	Max. Extraction Strength (kN)	Pcs./Box	Pcs./Ctn	
						Hole Dia	Hole Depth						
④ BG-860	M8	60	B	25.0	5	8.0	52 or more	13	43	11.5	50	400	
④ BG-870		70	C	35.0	15						50	400	
④ BG-1070		70	C	26.5	4	10.0	60 or more	17	52	18.4	30	240	
④ BG-1080		80	D	36.5	13						30	240	
④ BG-1090		90	E	46.5	22						30	240	
④ BG-1010		100	F	56.5	32						30	180	
④ BG-1280	M12	80	D	29.0	4	12.0	68 or more	19	61	22.5	25	150	
④ BG-1290		90	E	39.0	12						25	150	
④ BG-1210		100	F	49.0	22						25	150	
④ BG-1212		120	H	69.0	42						25	100	
④ BG-1215		150	K	99.0	72						25	100	
④ BG-1612	M16	120	H	59.0	25	16.0	80 or more	24	71	35.2	10	60	
④ BG-1614		140	J	79.0	45						10	60	

BG-D Type (Hot Dip Galvanizing) Wedge: Stainless Steel

FC=27N/mm²

Code	Diameter (outside dia)	Overall Length (mm)	Marking on head	Thread Length (mm)	Max. Use Thickness (mm)	Drilling Condition (mm)		Nut Width Across Flat (mm)	Embedment Depth (mm)	Max. Extraction Strength (kN)	Pcs./Box	Pcs./Ctn	
						Hole Dia	Hole Depth						
BG-1080D	M10	80	D	36.5	13	10.0	60 or more	17	52	22.3	30	240	
BG-1090D		90	E	46.5	22						30	240	
BG-1290D	M12	90	E	39.0	12	12.0	68 or more	19	61	27.5	25	150	
BG-1210D		100	F	49.0	22						25	150	
BG-1212D		120	H	69.0	42						25	100	
BG-1612D	M16	120	H	59.0	25	16.0	80 or more	24	71	47.4	10	60	

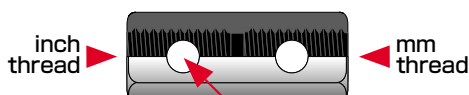
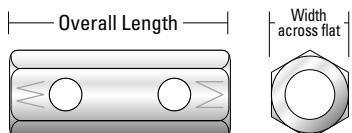
*Maximum extraction strength values are values measured by UNIKA and not standard values.

Thread diameter conversion nut for Big One (Unichromate Treatment)

Code	Thread Diameter	Overall Length (mm)	Width Across Flat (mm)	Pcs./Box	Pcs./Ctn
NBG-3010M	W3/8×M10	40	14	50	400
NBG-4012M	W1/2×M12	50	19	25	200

Thread diameter conversion nut for Big One (Stainless Steel)

Code	Thread Diameter	Overall Length (mm)	Width Across Flat (mm)	Pcs./Box	Pcs./Ctn
NBGS-3010M	W3/8×M10	40	14	50	400
NBGS-4012M	W1/2×M12	50	19	25	200



Reliable installation can be visually checked because holes are provided

Big One BGS Type (Stainless Steel)

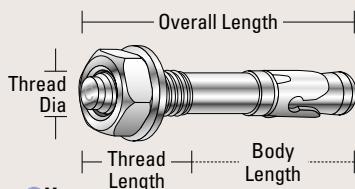
Wedge anchor

- Demonstrates reliable strength by installation with torque control and three-sided wedges.
- Overall length can be checked after installation by marking on the head.
- BGS type is completely made of stainless steel which is resistant to rust. Used extensively even in humid places.



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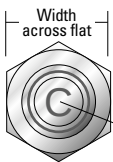
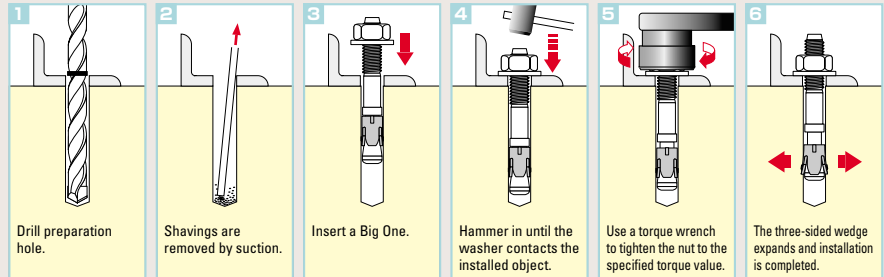
STONE



Uses

Electrical, plumbing, air-conditioning / heating duct works, elevator construction work, elevator installation work.

Installation method



Marking on head

Length (mm)	60	70	80	90	100	120
Marking	B	C	D	E	F	H

Tightening torque

Thread diameter	M 8	M 10	M 12	M 16
Width across flat	13mm	17mm	19mm	24mm
Tightening torque	15 N·m	30 N·m	45 N·m	100 N·m

BGS Type (Stainless Steel)

FC=27N/mm²

Code	Diameter (outside dia)	Overall Length (mm)	Marking on head	Thread Length (mm)	Max. Use Thickness (mm)	Drilling Condition (mm)		Nut Width Across Flat (mm)	Embedment Depth (mm)	Max. Extraction Strength (kN)	Pcs./Box	Pcs./Ctn
						Hole Dia	Hole Depth					
BGS-860	M8	60	B	25.0	5	8.0	52 or more	13	43	14.3	50	400
BGS-1070	M10	70	C	26.5	4	10.0	60 or more	17	52	19.9	30	240
BGS-1080		80	D	36.5	13						30	240
BGS-1090		90	E	46.5	22						30	240
BGS-1280	M12	80	D	29.0	4	12.0	68 or more	19	61	26.7	25	150
BGS-1290		90	E	39.0	12						25	150
BGS-1210		100	F	49.0	22						25	150
BGS-1212		120	H	69.0	42						25	100
BGS-1612	M16	120	H	59.0	25	16.0	80 or more	24	71	35.8	10	60

*Maximum extraction strength values are values measured by UNIKA and not standard values.

Hammering Tool (Machine) SDS-plus

Code	Anchor Size	Overall Length (mm)
BG-SD	M8, M10, M12	160
BG-16SD	M16	160



Precautions on use

- Set a nut on the specified position before hammering.
- After hammering, make sure to tighten the nut with a torque wrench to the specified torque.
- It cannot be used for BGL type.

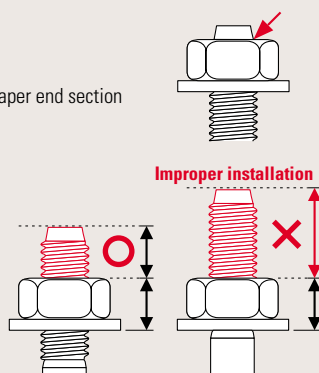
Precautions

Before installation

Install it after aligning the nut with the taper end section on the head of the anchor body.

Installation check

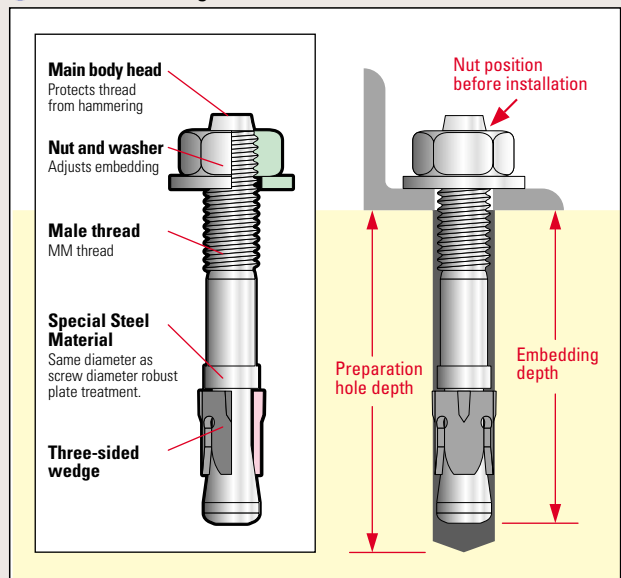
If the thread section is protruded by a height of one nut or more when the nut is tightened, it has been improperly installed. Check the preparation hole diameter and install in another position.



Precautions on use

- Select overall length of anchor in consideration of thickness of installed object.
- Align the end face of the nut with the end of the tape to set.
- For installation, use a torque wrench to tighten to the specified torque.

Structural Drawing



Big One BGL/BGSL Type

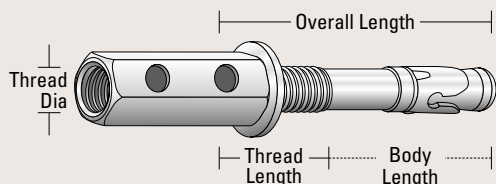
Wedge anchor

- Demonstrates reliable strength for installation of suspension objects by installation by torque control and large three-sided wedge.
- Reliable installation can be visually checked by a hole exposing the threads.
- Installation is also easy with small diameter preparation hole because thread diameter and preparation hole diameter are the same.
- Expands while increasing load and demonstrates stable strength.
- Working efficiency is also increased by an exclusive hammering rod.



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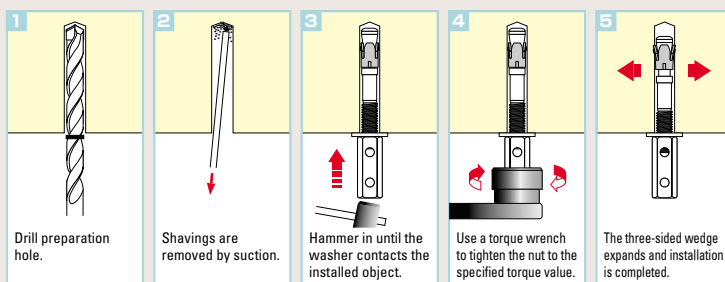
STONE



Tightening torque

Thread diameter	M10	M12
Width across flat	14mm	19mm
Tightening torque	30 N·m	45 N·m

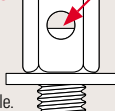
Installation method



Precautions

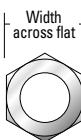
Before installation

Set the anchor on a position where the head of the anchor body starts to be seen from the nut hole.



Installation check

Unless installed with the specified preparation hole diameter and preparation hole depth, torque cannot be applied and the installation will be made improperly. Check the preparation hole diameter and install in another position.



Big One bucket set

Code	Anchor Part No.	Prepared Hole Drill	Hammering Tool
BB-05	BGL-3070M (150 pcs)	UX100 (1 pcs)	—
BB-02	BGL-4080M (60 pcs)	UX120 (1 pcs)	—
BB-03	BGL-3070M (150 pcs)	UX100 (1 pcs)	NBG-30SD

BGL Type (Unichromate Treatment)

FC=27N/mm²

Code	Diameter (outside dia)	Overall Length (mm)	Thread Length (mm)	Nut Thread Diameter	Drilling Condition (mm)		Nut Width Across Flat (mm)	Embedment Depth (mm)	Max. Extraction Strength (kN)	Pcs./Box	Pcs./Ctn
					Hole Dia	Hole Depth					
BGL-3070M	M10	70	26.5	W3/8	10.0	60 or more	14	52	18.4	30	180
BGL-4080M	M12	80	29.0	W1/2	12.0	68 or more	19	61	22.5	20	120

BGSL Type (Stainless Steel)

FC=27N/mm²

Code	Diameter (outside dia)	Overall Length (mm)	Thread Length (mm)	Nut Thread Diameter	Drilling Condition (mm)		Nut Width Across Flat (mm)	Embedment Depth (mm)	Max. Extraction Strength (kN)	Pcs./Box	Pcs./Ctn
					Hole Dia	Hole Depth					
BGSL-3070M	M10	70	26.5	W3/8	10.0	60 or more	14	52	19.9	30	180
BGSL-4080M	M12	80	29.0	W1/2	12.0	68 or more	19	61	26.7	20	120

*Maximum extraction strength values are values measured by UNIKA and not standard values.

Hammering Tool (Machine) SDS-plus

PAT.

Code	Anchor Part No.	Overall Length (mm)
NBG-30SD	BGL-3070M	150
NBG-40SD	BGL-4080M	166



Precautions on use

- Set the high nut at the specified height to tap.
- When hammering, press the rotation stop bar against the handle of the motor, and use in a fixed state.
- Make sure to tighten to the specified torque value using a torque wrench after hammering.

*Note that some hammering rods cannot be used on the wedge type anchors (high nut) of other makers.

Torque Wrench for Big One

Tightening only

Code	Tightening Torque (Nm)	Overall Length (mm)	Drive Size (mm)	Head Width (mm)	Head Thickness (mm)
TBG-33045	30/45	302	9.5	32	15



Precautions on use

- Use for tightening only.
- When the proper tightness is reached using the torque wrench, there should be a click sound. At that time the proper tightness is achieved. Do not tighten any further, stop rotating and applying force at that time.

*The torque wrench has two settings (30N/m and 45N/m) which should be used depending on the wedge anchor size. Initially when you open the box the wrench is set at the 30N/m setting. Adjust it to the proper setting after you select the anchor.

Big One safety work set

Code	Anchor Part No.	Prepared Hole Drill	Hammering Tool	Torque Wrench	Socket
BC-01	BGL-3070M (30 pcs)	UX100 (1 pcs)	NBG-30SD	TBG-33045	3S-14L
BC-02	BGL-3070M (30 pcs)	UX100 (1 pcs)	—	TBG-33045	3S-14L
BC-03	BGL-1070 (30 pcs)	UX100 (1 pcs)	—	TBG-33045	3S-17



Socket

Code	Socket Size (mm)	Overall Length (mm)	Outside Diameter (mm)	Drive Size (mm)
3S-14L	14	54	20.0	9.5
3S-17L	17	54	24.0	9.5
3S-19L	19	54	26.0	9.5
3S-17	17	30	23.0	9.5
3S-19	19	32	26.0	9.5



Rooty Set

B/BS Type



Bolt anchor

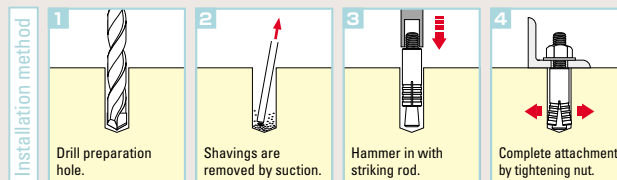
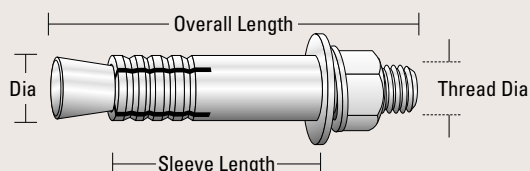
- Highly reliable threaded type anchor that extends in response to load.
- Offers stable strength, since nut is tightened after fastening with striking rod.

Uses

Machine installation, soundproof walls/air-conditioning equipment/signboard attachment, and elevator construction work, etc.

CONCRETE

STONE



B Type mm size (Chromate Treatment)

FC=27N/mm²

Code	Thread Diameter	Diameter (mm)	Overall Length (mm)	Thread Length (mm)	Sleeve Length (mm)	Max. Use Thickness (mm)	Drilling Condition (mm)		Embedment Depth (mm)	Max. Extraction Strength (kN)	Pcs./Box	Pcs./Ctn
B-650	M6	9.5	50	28	30	10	9.5	33	30	11.5	100	800
B-865	M8	12.0	65	35	35	15	12.5	39	35	15.1	50	400
B-1070	M10	13.8	70	35	40	10	14.5	45	40	24.6	50	300
B-1080			80	45		20					50	300
B-10100			100	65		40					50	200
B-10120			120	85		60					50	200
B-10150			150	115		90					50	200
B-12100	M12	17.3	100	60	50	25	18.0	56	50	38.4	20	120
B-12120			120	80		45					20	120
B-12125			125	75	60	35		66	60	45.2	20	120
B-12160			160	110		70					25	100
B-12200			200	150		110					25	100
B-16100	M16	21.7	100	60	50	20	22.5	58	50	41.7	15	60
B-16120			120	70	60	30		68	60	49.4	15	60
B-16125			125	75		35					15	60
B-16160			160	110		70					15	60
B-20170	M20	27.2	170	100	75	40	28.0	85	75	96.2	10	40
B-20200			200	130		70					10	40
B-22200	M22	31.8	200	110	90	60	33.0	100	90	142.8	5	20
B-24200	M24	34.0	200	100	100	40	35.0	115	100	136.9	5	20

B Type inch size (Chromate Treatment)

FC=27N/mm²

Code	Thread Diameter	Diameter (mm)	Overall Length (mm)	Thread Length (mm)	Sleeve Length (mm)	Max. Use Thickness (mm)	Drilling Condition (mm)		Embedment Depth (mm)	Max. Extraction Strength (kN)	Pcs./Box	Pcs./Ctn
B-3070	W3/8	13.8	70	35	40	10	14.5	45	40	26.0	50	300
B-3080			80	45		20					50	300
B-40100	W1/2	17.3	100	60	50	25	18.0	56	50	33.1	20	120

BS Type mm size (Stainless Steel)

FC=27N/mm²

Code	Thread Diameter	Diameter (mm)	Overall Length (mm)	Thread Length (mm)	Sleeve Length (mm)	Max. Use Thickness (mm)	Drilling Condition (mm)		Embedment Depth (mm)	Max. Extraction Strength (kN)	Pcs./Box	Pcs./Ctn
BS-650	M6	9.5	50	28	30	10	9.5	33	30	12.5	100	800
BS-865	M8	12.0	65	35	35	15	12.5	39	35	15.4	50	400
BS-1070	M10	14.0	70	35	40	10	14.5	45	40	20.6	50	300
BS-1080			80	45		20					50	300
BS-10100			100	65		40					50	200
BS-10120			120	85		60					50	200
BS-10150			150	115		90					50	200
BS-12100	M12	17.3	100	50	50	25	18.0	56	50	28.3	20	120
BS-12120			120	70		45					20	120
BS-12125			125	75	60	35		66	60	40.3	20	120
BS-12160			160	110		70					25	100
BS-12200			200	154		110					25	100
BS-16100	M16	21.7	100	50	50	20	22.5	58	50	31.2	15	60
BS-16120			120	70	60	30		68	60	38.4	15	60
BS-16125			125	75		35					15	60
BS-16160			160	110		70					15	60
BS-20170	M20	27.2	170	100	75	40	28.0	85	75	67.8	10	40
BS-20200			200	130		70					10	40
BS-22200	M22	32.0	200	120	90	60	33.0	100	90	76.3	5	20
BS-24200	M24	34.0	200	110	100	40	35.0	115	100	140.1	5	20

*Maximum extraction strength values are values measured by UNIKA and not standard values.

Hammering Tool

*mm/inch sizes.

Code	Anchor Size	Length (mm)
28S	M6, W1/4	155
258S	M8, W5/16	195
38S	M10, W3/8	200

Code	Anchor Size	Length (mm)
48S	M12, W1/2	225
58S	M16, W5/8	260
68S	M20, W3/4	275
78S	M22, W7/8	300

Hammering Tool



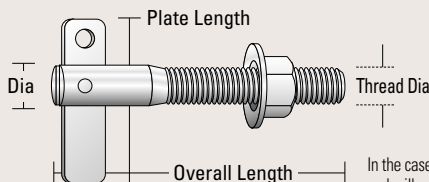
- As the main body diameter and the plate width are the same, anchoring is possible by drilling from above the fixture.
- TL S type is completely made of stainless steel which is resistant to rust. Used extensively even in humid places.

⚠ Precautions on use

Check necessary hollow width on the back of wall when installing.

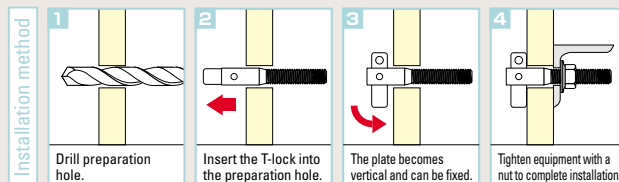
HOLLOW WALLS

EXTRUDED CEMENT PANEL



Thread Dia	Tightening Torque
M6	25 N·m
M8	6.5 N·m
M10	10.0 N·m
M12	20.0 N·m

In the case the hollow wall is strong enough and will not be deformed by tightening the nut.



● Uses

Installation of bracket, equipment and handrail.

TL Type (Trivalent Chromate Treatment)

Max. extraction strength = Plate proof strength

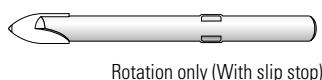
Code	Thread Diameter	Diameter (mm)	Overall Length (mm)	Thread Length (mm)	Use Thickness (mm)	Plate Length (mm)	Preparation Hole Diameter (mm)	Necessary Hollow Width (mm)	Max. Extraction Strength (kN)	Pcs./Box	Pcs./Ctn
TL-630	M6	7.0	30	13	10~12	24	7.5	26	3.6	50	800
TL-640			40	23	10~22					50	800
TL-650			50	33	10~32					50	800
TL-835	M8	8.0	35	15	12~13	30	9.0	32	4.1	50	400
TL-840			40	20	12~18					50	400
TL-845			45	25	12~23					50	400
TL-850			50	30	12~28					50	400
TL-855			55	35	12~33					50	400
TL-860			60	40	12~38					50	400
TL-865			65	45	12~43					50	400
TL-870			70	50	12~48					50	400
TL-875			75	55	12~53					50	400
TL-880			80	60	12~58					50	400
TL-890			90	60	22~68					50	400
TL-810			100	70	22~78					50	400
TL-1050	M10	10.0	50	26	14~25	36	11.0	38	5.4	50	300
TL-1070			70	46	14~45					50	300
TL-1090			90	66	14~65					50	300
TL-1010			100	76	14~75					50	300
TL-1250	M12	12.0	50	23	16~20	37	13.5	39	6.8	30	180
TL-1270			70	43	16~40					30	180
TL-1210			100	63	16~70					30	180

TL S Type (Stainless Steel)

Max. extraction strength = Plate proof strength

Code	Thread Diameter	Diameter (mm)	Overall Length (mm)	Thread Length (mm)	Use Thickness (mm)	Plate Length (mm)	Preparation Hole Diameter (mm)	Necessary Hollow Width (mm)	Max. Extraction Strength (kN)	Pcs./Box	Pcs./Ctn
TL S-630	M6	7.0	30	13	10~12	24	7.5	26	3.8	50	800
TL S-640			40	23	10~22					50	800
TL S-650			50	33	10~32					50	800
TL S-840	M8	8.0	40	20	12~18	30	9.0	32	4.2	50	400
TL S-850			50	30	12~28					50	400
TL S-860			60	40	12~38					50	400
TL S-870			70	50	12~48					50	400
TL S-880			80	60	12~58					50	400
TL S-890			90	60	22~68					50	400
TL S-810			100	70	22~78					50	400
TL S-1050	M10	10.0	50	26	14~25	36	11.0	38	6.2	50	300
TL S-1070			70	46	14~45					50	300
TL S-1090			90	66	14~65					50	300
TL S-1010			100	76	14~75					50	300
TL S-1250	M12	12.0	50	23	16~20	37	13.5	39	7.4	30	180
TL S-1270			70	43	16~40					30	180
TL S-1210			100	63	16~70					30	180

*The maximum extraction strength is our measurement value. Please consider the safety factor in accordance with base materials to be used.



Rotation only (With slip stop)

Drill for T-lock

(For Extruded Cement Panel)

Code	Anchor Size	Dia (mm)
TLD-7.5	M6	7.5
TLD-9.0	M8	9.0
TLD-11.0	M10	11.0
TLD-13.5	M12	13.5

Weld Anchor

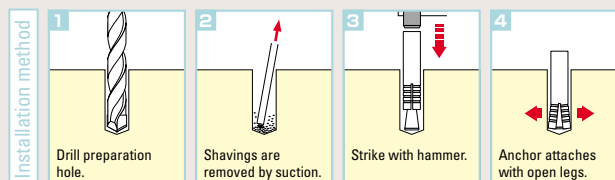
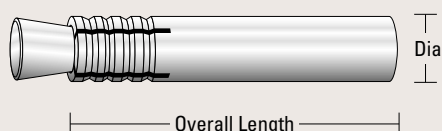
AS Type

Cut anchor

- Weld anchor for use by hammering into target object and attaching equipment fixture by direct welding.
- Ideal for sash window frame retainers.

CONCRETE

STONE



Uses

Attachment or repair work on sash or shutter frames.

AS Type									FC=27N/mm ²	
Code	Diameter (mm)	Overall Length (mm)	Drilling Condition (mm)		Embedment Depth (mm)	Max. Extraction Strength (kN)	Pcs./Box	Pcs./Ctn		
			Hole Dia	Hole Depth						
AS-1040	10	40	10.5	32	30	14.2	150	900		
AS-1045		45					100	600		
AS-1050		50					100	600		
AS-1055		55					100	600		
AS-1060		60					100	600		

*Maximum extraction strength values are values measured by UNIKA and not standard values.

NP Anchor

NP/NPS Type

Hammer Screw Type

- Easy operation simply by hammering in. Enables attachment without the use of wood screws or plugs.
- Body is made of nylon, eliminating corrosion worries.

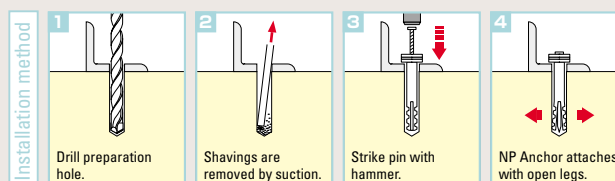
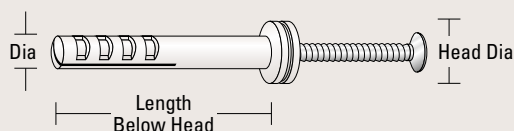
Precautions on use

Preparation holes should be slightly deeper than the below-head length.
Not to be used for attaching heavy objects to ceiling surfaces.

CONCRETE

BLOCK

STONE



Uses

Attaching wiring boards, saddle bands, and lighting fixtures, coping and signboard attachment.

NP Type											FC=27N/mm ²	
Code	Diameter (mm)	Length Below Head (mm)	Head Diameter (mm)	Max. Use Thickness (mm)	Drilling Condition (mm)		Embedment Depth (mm)	Max. Extraction Strength (kN)	Pcs./Box	Pcs./Display Box		
					Hole Dia	Hole Depth						
NP-425	4	25	8.0	8	4.0	25以上	20	1.0	100	600		
NP-535	5	35	9.5	15	5.0	35以上	30	2.1	50	300		
NP-640	6	40	11.0	16	6.0	40以上	35	2.2	50	300		

NPS Type (Stainless Steel Screw)											FC=27N/mm ²	
Code	Diameter (mm)	Length Below Head (mm)	Head Diameter (mm)	Max. Use Thickness (mm)	Drilling Condition (mm)		Embedment Depth (mm)	Max. Extraction Strength (kN)	Pcs./Box	Pcs./Display Box		
					Hole Dia	Hole Depth						
NPS-535	5	35	9.5	15	5.0	35以上	30	2.1	50	300		
NPS-640	6	40	11.0	16	6.0	40以上	35	2.2	50	300		
NPS-650		50		25		50以上	45		50	300		

NON-Plug Screw

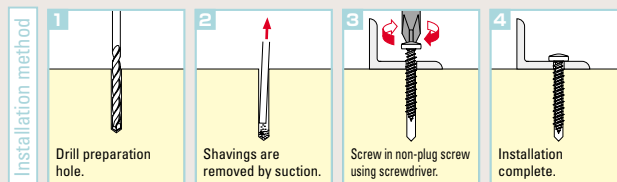
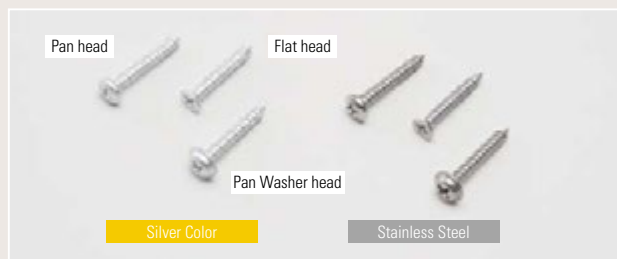
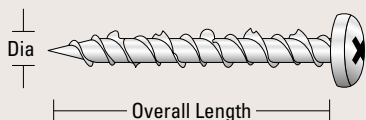
Screw Type

- Requires no plugs. Can be used to screw directly into concrete, and can be attached simply by using a normal screwdriver.
- 3 screw head types : flat head, pan head and pan washer head.

CONCRETE

BLOCK

BRICK



Silver Color

[Surface treatment]



Pack size (mm)
80 (W) x 130 (H) x 40 (D)

ANCHOR CASE SET

For the set contents, please feel free to contact us.

[Non-plug screw box set]
Non-plug screw (Silver color)
P-425-SDN x 1,000 pcs.
SDS plus drill bit 3.4 mm x 10 pcs.



Silver color (no drill)

Code	Head	Diameter (mm)	Overall Length (mm)	Hole Diameter (mm)	Pcs./Box	Middle-sized Box (Pack)	Pcs./Ctn	
P-425-SDN	Pan head	4	25	3.5	200	5	4,000 (200pcs. x 5packs x 4boxes)	
P-432-SDN			32		150	5	3,000 (150pcs. x 5packs x 4boxes)	
P-438-SDN			38		125	5	2,500 (125pcs. x 5packs x 4boxes)	
P-525-SDN		5	25	4.3	80	5	1,600 (80pcs. x 5packs x 4boxes)	
F-425-SDN	Flat head	4	25	3.5	200	5	4,000 (200pcs. x 5packs x 4boxes)	
F-432-SDN			32		150	5	3,000 (150pcs. x 5packs x 4boxes)	
F-438-SDN			38		125	5	2,500 (125pcs. x 5packs x 4boxes)	
F-445-SDN			45		100	5	2,000 (100pcs. x 5packs x 4boxes)	
F-525-SDN		5	25	4.3	80	5	1,600 (80pcs. x 5packs x 4boxes)	
F-535-SDN			35		70	5	1,400 (70pcs. x 5packs x 4boxes)	
F-545-SDN			45		60	5	1,200 (60pcs. x 5packs x 4boxes)	
F-560-SDN			60		50	5	1,000 (50pcs. x 5packs x 4boxes)	
F-570-SDN			70		40	5	800 (40pcs. x 5packs x 4boxes)	
F-635-SDN		6	35	5.5	40	5	800 (40pcs. x 5packs x 4boxes)	
F-645-SDN			45		35	5	700 (35pcs. x 5packs x 4boxes)	
F-660-SDN			60		30	5	600 (30pcs. x 5packs x 4boxes)	
F-670-SDN			70		30	5	600 (30pcs. x 5packs x 4boxes)	
F-675-SDN			75		25	5	500 (25pcs. x 5packs x 4boxes)	
F-690-SDN			90		20	5	400 (20pcs. x 5packs x 4boxes)	
PW-425-SDN	Pan washer head	4	25	3.5	150	5	3,000 (150pcs. x 5packs x 4boxes)	
PW-432-SDN			32		125	5	2,500 (125pcs. x 5packs x 4boxes)	

Silver color

Code	Head	Attached drill	Pcs./Box	Middle-sized Box (Pack)	Pcs./Ctn	
P-425B-S	Pan head	Percussion drill x 1 pc. (B3.5 x 85)	200	5	4,000 (200pcs. x 5packs x 4boxes)	
P-432B-S			150	5	3,000 (150pcs. x 5packs x 4boxes)	
P-438B-S			125	5	2,500 (125pcs. x 5packs x 4boxes)	
F-425B-S	Flat head		200	5	4,000 (200pcs. x 5packs x 4boxes)	
F-432B-S			150	5	3,000 (150pcs. x 5packs x 4boxes)	
F-438B-S			125	5	2,500 (125pcs. x 5packs x 4boxes)	
PW-425B-S	Pan washer head		150	5	3,000 (150pcs. x 5packs x 4boxes)	
PW-432B-S			125	5	2,500 (125pcs. x 5packs x 4boxes)	

● Uses

All kinds of attachments including pipe saddle retainers, switch boxes, curtain rails, storage units, air-conditioning equipment, lighting fixtures, and interior underground materials.

● Average Extraction Strength of Non-Plug Screw 425 (Pan Head)

Model FC=1.8kN	Block	Brick
2.1kN (210kgf)	1.5kN (160kgf)	1.1kN (120kgf)

*For installation, consider the safety ratio of 1/5 to 1/10.

● Prepared hole drill diameter

Non-plug Screw Diameter	Concrete	Block	Brick
4mm Type	3.4~3.5mm	3.4~3.5mm	3.2~3.3mm
5mm Type	4.2~4.3mm	4.2~4.3mm	4.0~4.1mm
6mm Type	5.3~5.5mm	5.3~5.5mm	5.0~5.3mm

● **Pan washer head** Washer faced type with no washer required. Improves the holding force and installation efficiency.

Stainless Steel

[Material]



Stainless Steel (no drill)

Code	Head	Diameter (mm)	Overall Length (mm)	Hole Diameter (mm)	Pcs./Box	Middle-sized Box (Pack)	Pcs./Ctn	
PS-425DN	Pan head	4	25	3.5	150	5	3,000 (150pcs. × 5packs × 4boxes)	
PS-432DN			32		110	5	2,200 (110pcs. × 5packs × 4boxes)	
PS-438DN			38		85	5	1,700 (85pcs. × 5packs × 4boxes)	
FS-425DN	Flat head	4	25	3.5	150	5	3,000 (150pcs. × 5packs × 4boxes)	
FS-432DN			32		110	5	2,200 (110pcs. × 5packs × 4boxes)	
FS-438DN			38		85	5	1,700 (85pcs. × 5packs × 4boxes)	
FS-535DN		5	35	4.3	50	5	1,000 (50pcs. × 5packs × 4boxes)	
FS-545DN			45		45	5	900 (45pcs. × 5packs × 4boxes)	
FS-560DN			60		35	5	700 (35pcs. × 5packs × 4boxes)	
PWS-425DN	Pan washer head	4	25	3.5	110	5	2,200 (110pcs. × 5packs × 4boxes)	
PWS-432DN			32		95	5	1,900 (95pcs. × 5packs × 4boxes)	

Stainless Steel

Code	Head	Attached drill	Pcs./Box	Middle-sized Box (Pack)	Pcs./Ctn	
PS-425B	Pan head		150	5	3,000 (150pcs. × 5packs × 4boxes)	
PS-432B			110	5	2,200 (110pcs. × 5packs × 4boxes)	
PS-438B			85	5	1,700 (85pcs. × 5packs × 4boxes)	
FS-425B	Flat head	Percussion drill x 1 pc. (B3.5×85)	150	5	3,000 (150pcs. × 5packs × 4boxes)	
FS-432B			110	5	2,200 (110pcs. × 5packs × 4boxes)	
FS-438B			85	5	1,700 (85pcs. × 5packs × 4boxes)	
PWS-425B	Pan washer head		110	5	2,200 (110pcs. × 5packs × 4boxes)	
PWS-432B			95	5	1,900 (95pcs. × 5packs × 4boxes)	

NPOWER
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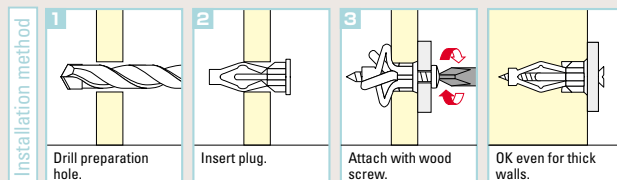
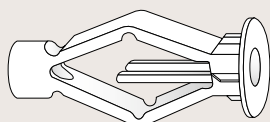
Hollow Plug

NA Type

Pin anchor

- For thick or thin walls more than 3mm thick. This is the plug for hollow construction walls.
- Unique nylon construction eliminates worries about corrosion, without destroying appearance.
- Excellent heat and cold resistance - does not fracture even when impacted at -30°C.

HOLLOW WALLS	CONCRETE
BLOCK	BRICK



Uses For attaching fixtures and equipment.

NA Type (Blister Pack)

Code	Board Thickness (mm)	Screw Size (mm)	Screw Length (mm)	Hole Diameter (mm)	Pcs./Pack	Packs./Box	
NA-3P	3~8	4.0~4.5	30+thick	8~10	20	10	
NA-9P	9~15		35+thick				
NA-16P	16~24		40+thick				

NA Type (Blister Pack with Screw)

Code	Attached Screw (mm)	Pcs./Pack	Packs./Box	
NA-3SP	Pan 4x35	20	10	
NA-9SP	Pan 4x40			

NA Type (Blister Pack with Stainless Steel Screw)

Code	Attached Screw (mm)	Pcs./Pack	Packs./Box	
NA-3SPS	Pan 4x35	16	10	
NA-9SPS	Pan 4x40	14		

NA Type (Blister Pack in Economy Cartons)

Code	Pcs./Pack	Packs./Box	
NA-3	100	600	
NA-9			
NA-16			

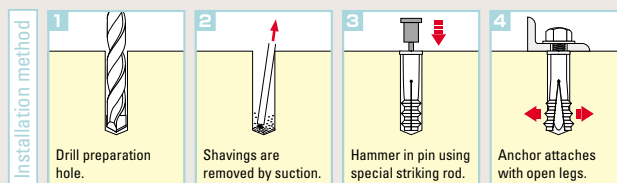
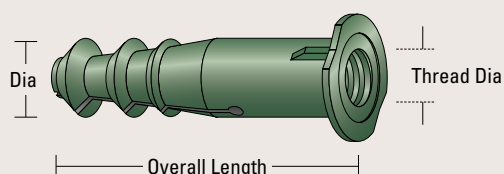
NP ALC Anchor

NBA Type

Knock-in Type

- Tapped anchor specially for ALC panels, with 3-stage protrusions boasting high pull-out strength and retaining strength.
- Excellent weather and heat resistance. Unique corrosion resistant nylon design.

ALC



Uses For attaching fixtures and equipment to ALC panel.

NBA Type

Code	Thread Diameter	Diameter (mm)	Overall Length (mm)	Thread Length (mm)	Drilling Condition (mm)		Max. Extraction Strength (kN)	Pcs./Box	
					Hole Dia	Hole Depth			
NBA-859	M8	11.5	59	25	11.5	59	1.8	35	
NBA-1060	M10	14.0	60	20	14.0	60	2.7	30	
NBA-2559	W5/16	11.5	59	25	11.5	59	1.8	35	
NBA-3860	W3/8	14.0	60	20	14.0	60	2.7	30	

NP Plug

NAS Type

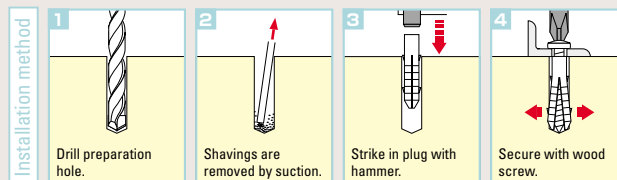
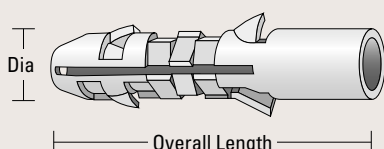
Screw Type

- Uses special nylon material eliminating corrosion worries.
- Large range of available sizes matches wide range of wood screw sizes.
- 2-stage shape makes hammering in easy with reliable gripping.

CONCRETE

BLOCK

A L C



Uses

For attaching coping fixtures, sashes, waterproof sheeting, electrical equipment interior decorations, etc.

NAS Type										FC=24N/mm ²	
Code	Diameter (mm)	Overall Length (mm)	Screw Size (mm)	Drilling Condition (mm)		Embedment Depth (mm)	Max. Extraction Strength (kN)	Pcs./Box	Pcs./Ctn		
				Hole Dia	Hole Depth						
NAS-525	5	25	3.0~4.1	5.0	25	25	1.6	200	4,000		
NAS-630	6	30	4.0~5.1	6.0	30	30	2.6	100	2,000		
NAS-840	8	40	5.0~6.2	8.0	40	40	3.6	50	1,000		
NAS-1050	10	50	7.0~8.0	10.0	50	50	5.5	25	500		
NAS-1260	12	60	9.0~10.0	12.0	60	60	8.5	15	300		

Bolt Plug

Screw Type

- This plug is ideal when installing into blocks.

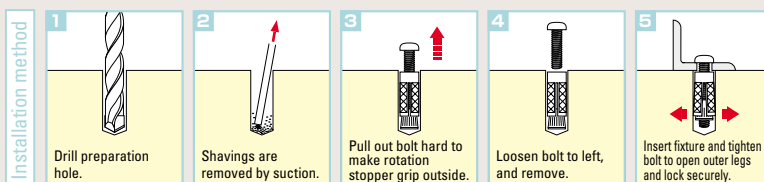
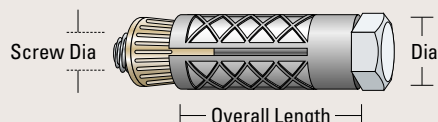
CONCRETE

BLOCK

- Round Bolt Configuration (#100 - 300)



- Hexagonal Bolt Configuration (#400 - 600)



Uses

Water pipe, sanitation, air-conditioning/heating equipment attachment work, and general wiring, plumbing, interior/exterior work.

Bolt Plug										FC=27N/mm ²	
Code	Screw Size	Head Form	Diameter (mm)	Overall Length (mm)	Drilling Condition (mm)		Embedment Depth (mm)	Max. Extraction Strength (kN)	Pcs./Box	Pcs./Ctn	
					Hole Dia	Hole Depth					
#100	M4	Round	7.0	17.5	7.5	25	17.5	2.3	100	1,500	
#200	M5		8.0	20.5	8.5	30	20.5	4.1	50	750	
#300	M6		10.0	27.0	10.5	35	27.0	7.0	50	600	
#400	M8	Hexagonal	13.5	32.0	14.0	45	32.0	5.7	50	250	
#500	M10		17.5	38.0	18.0	50	38.0	11.4	50	200	
#600	M12		19.2	45.0	20.0	60	45.0	17.4	25	100	

RESIN GE-165 (Cartridge Type)

Resin anchor
(Injection System)

- Can be used for various bolts, sizes and shapes of different reinforced steels.
- Used extensively for concrete, brick, stone material and hollow base material.
- Demonstrates stable fixing strength because primary material and hardening agent are constantly mixed by mixing nozzle.
- Adopts a highly alkali resistant epoxy acrylate resin.

CONCRETE

STONE

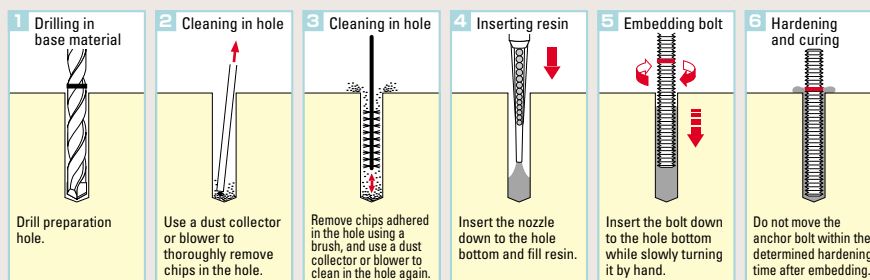
HOLLOW MATERIAL

A L C

GE-165 series



Installation method



Chub CAP



Uses

Foundation work for iron frame, Passage construction work, Tunnel construction work, Installation for vibrating machines.

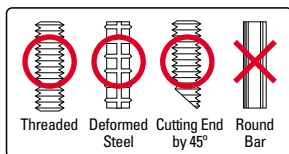
Guideline for hardening time

Temperature (°C)	-5	5	15	25	35
Use time (min)	40	20	9	5	3
Hardening time (min)	180	90	60	30	20

*Do not move the anchor reinforcement within the hardening time.

Shape of bolt used

Cannot be used for a round bar. Use bolts which have irregularity on a surface such as a continuous thread bolt and different shape bar steel.



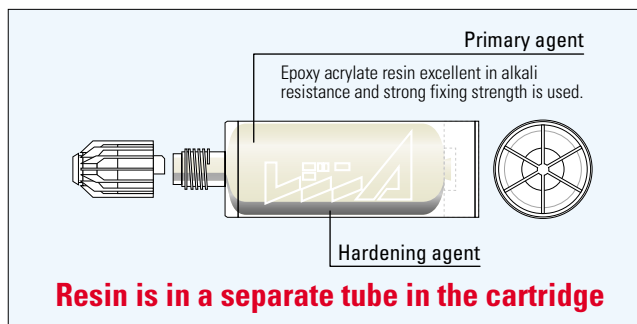
Installation specifications

Nominal diameter (mm)	M8	M10	M12	M16	M20	M22	M24
Hole diameter (mm)	10.0	12.0	14.0	18.0	24.0	25.0	28.0
Embedding depth (mm)	80	90	110	125	170	190	210
Required resin amount (ml)	4	6	9	15	42	43	66
Tightening torque (Nm)	11	22	38	95	170	210	260
Number of pieces installed (Pcs)	31	21	13	8	2	2	1

*The number of pieces installed indicates the target number taking into consideration a loss rate of 20%.



Structural Drawing



Plastic sleeve installation specifications

Nominal diameter (mm)	M8	M10	M12
Hole diameter (mm)	15.0	15.0	20.0
Matching sleeve (Code)	RA-P1585	RA-P1585	RA-P2085
Required resin amount (ml)	30	30	40

GE Type (Resin Cartridge)

Code	Capacity (ml)	Content (Pcs.)	
GE-165	165	GE-165 Cartridge×1 Mixing nozzle×2	

GE Type (Exclusive Parts)

Product Name	Code	Matching Cartridge	
Mixing nozzle (3 Pcs.)	RA-MX3	GE Type	
Injection gun 165	RA-GUN165	GE-165	

GE-165 TOOL BOX SET

Code	Content (Pcs.)	
TB-165D (with drill)	GE-165×4 Injection gun 165×1 SDS-plus UX (12/14)×each 1	
Standard set product	Mixing nozzle×6 Plastic sleeve 1585×5 Push pump×1 Metal brush (10/13/18)×each 1	

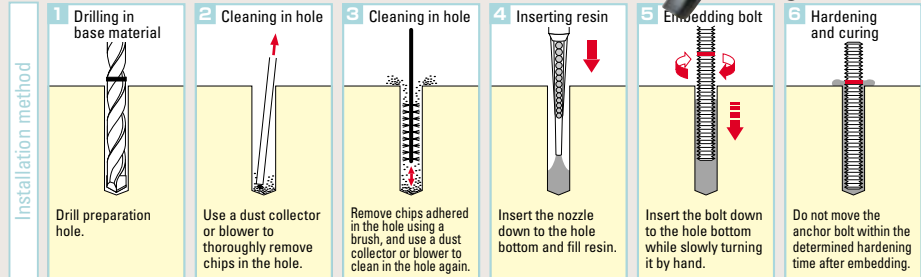
RESIN GE-410 (Cartridge Type)

Resin anchor
(Injection System)

- Can be used for various bolts, sizes and shapes of different reinforced steels.
- Used extensively for concrete, brick, stone material and hollow base material.
- Demonstrates stable fixing strength because primary material and hardening agent are constantly mixed by mixing nozzle.
- Adopts a highly alkali resistant epoxy acrylate resin.

CONCRETE STONE HOLLOW MATERIAL ALC

GE-410 series



● Uses

Foundation work for iron frame, Passage construction work, Tunnel construction work, Installation for vibrating machines.

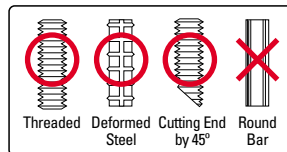
● Guideline for hardening time

Temperature (°C)	-5	5	15	25	35
Use time (min)	40	20	9	5	3
Hardening time (min)	180	90	60	30	20

*Do not move the anchor reinforcement within the hardening time.

● Shape of bolt used

Cannot be used for a round bar. Use bolts which have irregularity on a surface such as a continuous thread bolt and different shape bar steel.



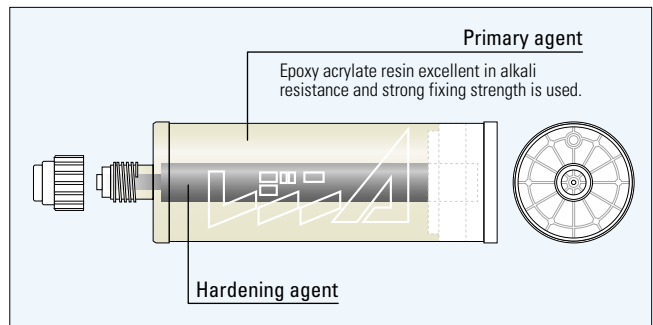
● Installation specifications

Nominal diameter (mm)	M8	M10	M12	M16	M20	M22	M24
Hole diameter (mm)	10.0	12.0	14.0	18.0	24.0	25.0	28.0
Embedding depth (mm)	80	90	110	125	170	190	210
Required resin amount (ml)	4	6	9	15	42	43	66
Tightening torque (Nm)	11	22	38	95	170	210	260
Number of pieces installed (Pcs)	92	62	40	25	8	8	5

*The number of pieces installed indicates the target number taking into consideration a loss rate of 20%.



● Structural Drawing



● Plastic sleeve installation specifications

Nominal diameter (mm)	M8	M10	M12
Hole diameter (mm)	15.0	15.0	20.0
Matching sleeve (Code)	RA-P1585	RA-P1585	RA-P2085
Required resin amount (ml)	30	30	40

GE Type (Resin Cartridge)

Code	Capacity (ml)	Content (Pcs.)	
GE-410	410	GE-410 Cartridge×1 Mixing nozzle×2	

GE Type (Exclusive Parts)

Product Name	Code	Matching Cartridge	
Mixing nozzle (3 Pcs.)	RA-MX3	GE Type	
Injection gun 410	RA-GUN410	GE-410	
Air gun 410	RA-AGUN410	GE-410	

*Used air pressure: 0.6~1MPa

GE-410 TOOL BOX SET

Code	Content (Pcs.)	
TB-410D (with drill)	GE-410×4 Injection gun 410×1 SDS-plus UX(12/14) ×each 1	
Standard set product	Mixing nozzle×6 Plastic sleeve 1585×5 Push pump×1 Metal brush (10/13/18) ×each 1	

RESIN GE-825 (Cartridge Type)

Resin anchor
(Injection System)

- Used for a large number of installations by large capacity and exclusive air gun.
- Can be used for various bolts, sizes and shapes of different reinforced steels.
- Demonstrates stable fixing strength because primary material and hardening agent are constantly mixed by mixing nozzle.
- Adopts a highly alkali resistant epoxy acrylate resin.

CONCRETE

STONE

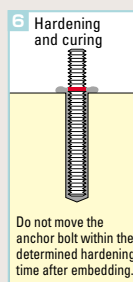
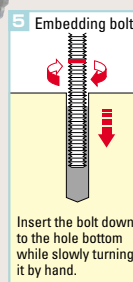
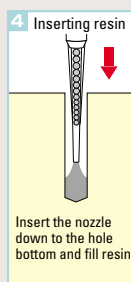
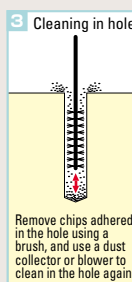
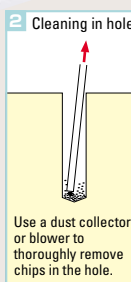
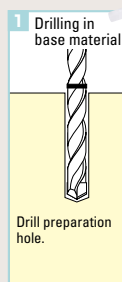
HOLLOW MATERIAL

A L C

GE-825 series



Installation method



Uses

Foundation work for iron frame, Passage construction work, Tunnel construction work, Installation for vibrating machines.

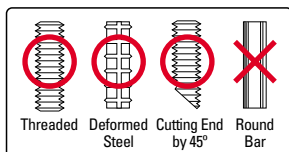
Guideline for hardening time

Temperature (°C)	-5	5	15	25	35
Use time (min)	40	20	9	5	3
Hardening time (min)	180	90	60	30	20

*Do not move the anchor reinforcement within the hardening time.

Shape of bolt used

Cannot be used for a round bar. Use bolts which have irregularity on a surface such as a continuous thread bolt and different shape bar steel.



Installation specifications

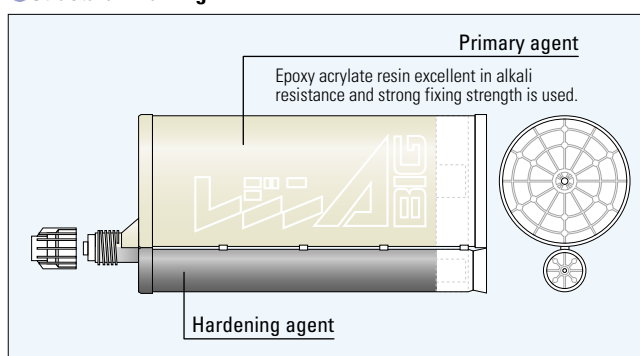
Nominal diameter (mm)	M8	M10	M12	M16	M20	M22	M24
Hole diameter (mm)	10.0	12.0	14.0	18.0	24.0	25.0	28.0
Embedding depth (mm)	80	90	110	125	170	190	210
Required resin amount (ml)	4	6	9	15	42	43	66
Tightening torque (Nm)	11	22	38	95	170	210	260
Number of pieces installed (Pcs)	196	133	86	54	18	18	11

*The number of pieces installed indicates the target number taking into consideration a loss rate of 20%.

Plastic sleeve installation specifications

Nominal diameter (mm)	M8	M10	M12
Hole diameter (mm)	15.0	15.0	20.0
Matching sleeve (Code)	RA-P1585	RA-P1585	RA-P2085
Required resin amount (ml)	30	30	40

Structural Drawing



GE Type (Resin Cartridge)

Code	Capacity (ml)	Content (Pcs.)
GE-825	825	GE-825 Cartridge×1 Mixing nozzle×2

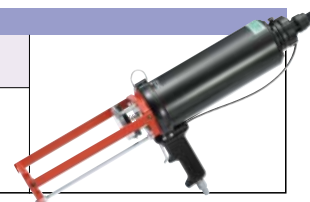
Air Gun 825

Code	Maching Cartridge
RA-AGUN825	GE-825

*Used air pressure: 0.6~1MPa

Mixing Nozzle (3 pcs.)

Code	Maching Cartridge
RA-MX3	GE Type



RESIN GE-410C (Cartridge Type)

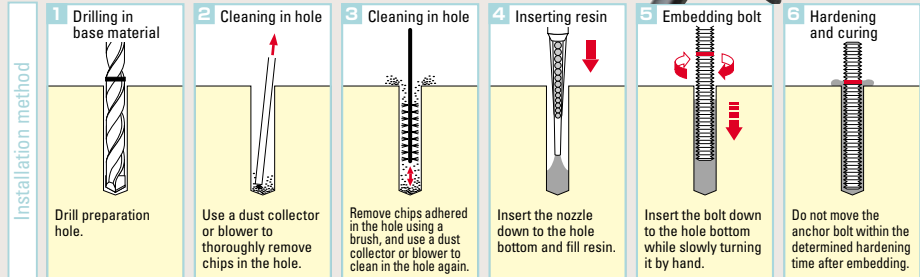
Resin anchor
(Injection System)

- Uses resin for cold area with short hardening time.
- Can be used for various bolts, sizes and shapes of different reinforced steels.
- Demonstrates stable fixing strength because primary material and hardening agent are constantly mixed by mixing nozzle.
- Adopts a highly alkali resistant epoxy acrylate resin.



CONCRETE STONE HOLLOW MATERIAL ALC

GE-410C series



● Uses

Foundation work for iron frame, Passage construction work, Tunnel construction work, Installation for vibrating machines.

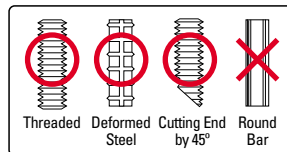
● Guideline for hardening time

Temperature (°C)	-18	-10	-5	0	15
Use time (min)	95	40	25	15	5
Hardening time (min)	540	150	75	45	15

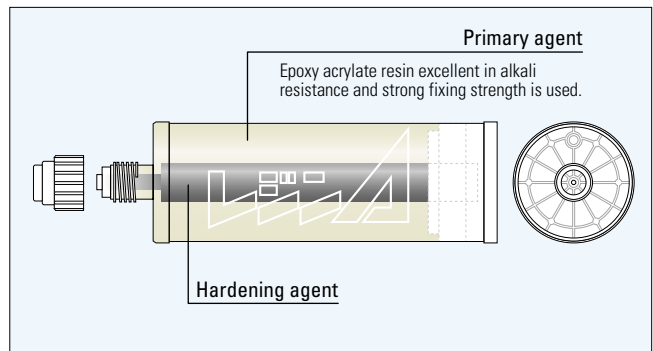
*Do not move the anchor reinforcement within the hardening time.

● Shape of bolt used

Cannot be used for a round bar. Use bolts which have irregularity on a surface such as a continuous thread bolt and different shape bar steel.



● Structural Drawing



● Installation specifications

Nominal diameter (mm)	M8	M10	M12	M16	M20	M22	M24
Hole diameter (mm)	10.0	12.0	14.0	18.0	24.0	25.0	28.0
Embedding depth (mm)	80	90	110	125	170	190	210
Required resin amount (ml)	4	6	9	15	42	43	66
Tightening torque (Nm)	11	22	38	95	170	210	260
Number of pieces installed (Pcs)	92	62	40	25	8	8	5

*The number of pieces installed indicates the target number taking into consideration a loss rate of 20%.

● Plastic sleeve installation specifications

Nominal diameter (mm)	M8	M10	M12
Hole diameter (mm)	15.0	15.0	20.0
Matching sleeve (Code)	RA-P1585	RA-P1585	RA-P2085
Required resin amount (ml)	30	30	40

Mixing Nozzle (3 pcs.)

Code	Maching Cartridge	
RA-MX3	GE Type	

GE-C Type (Resin Cartridge)

Code	Capacity (ml)	Content (Pcs.)	
GE-410C	410	GE-410C Cartridge×1 Mixing nozzle×2	

Injection Gun 410

Code	Maching Cartridge		
RA-GUN410	GE-410 GE-410C		

Air Gun 410

Code	Maching Cartridge		
RA-AGUN410	GE-410 GE-410C		

*Used air pressure: 0.6~1MPa

RESIN PE-400N (Cartridge Type)

Resin anchor
(Injection System)

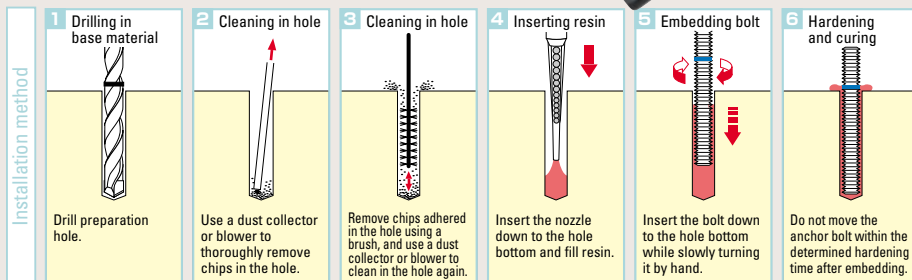
- Can be used for various bolts, sizes and shapes of different shape reinforced steels.
- Excellent in chemical resistance, and can be used for installation in water.
- Demonstrates stable fixing strength because primary material and hardening agent are constantly mixed by mixing nozzle.
- Adopts high performance epoxy resin with no resin contraction. Also less odor and toxicity.

CONCRETE

ROCK BED



PE-400N series



Uses

Foundation work for iron frame, Passage construction work, Tunnel construction work, Installation for vibrating machines.

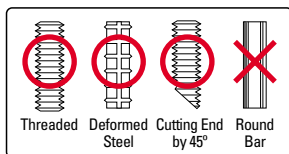
Guideline for hardening time

Temperature (°C)	5	15	25	35
Use time (min)	120	60	20	12
Hardening time (min)	960	600	300	180

*Do not move the anchor reinforcement within the hardening time.

Shape of bolt used

Cannot be used for a round bar. Use bolts which have irregularity on a surface such as a continuous thread bolt and different shape bar steel.

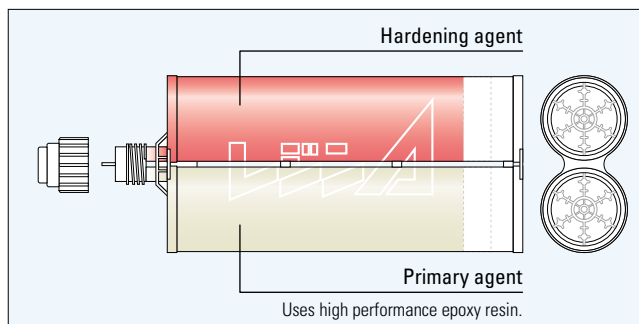


Installation specifications

Nominal diameter (mm)	M8	M10	M12	M16	M20	M22	M24
Hole diameter (mm)	10.0	12.0	14.0	18.0	24.0	25.0	28.0
Embedding depth (mm)	80	90	110	125	170	190	210
Required resin amount (ml)	4	6	9	15	42	43	66
Tightening torque (Nm)	11	22	38	95	170	210	260
Number of pieces installed (Pcs)	87	56	37	22	8	7	5

*The number of pieces installed indicates the target number taking into consideration a loss rate of 20%.

Structural Drawing



PE Type (Resin Cartridge)

Code	Capacity (ml)	Content (Pcs.)	
PE-400N	400	PE-400N Cartridge × 1 Mixing nozzle × 1	

Injection Gun 400

Code	Maching Cartridge		
RA-GUN400	PE-400N		

Air Gun 400

Code	Maching Cartridge		
RA-AGUN400	PE-400N		

*Used air pressure: 0.6~1MPa

Mixing Nozzle PE (2 pcs.)

Code	Maching Cartridge		
RA-MX2PE	PE Type		

RESIN PE-600N (Cartridge Type)

Resin anchor
(Injection System)

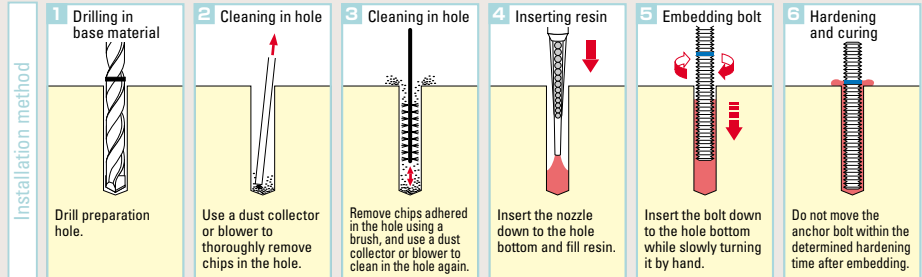
- Can be used for various bolts, sizes and shapes of different shape reinforced steels.
- Excellent in chemical resistance, and can be used for installation in water.
- Demonstrates stable fixing strength because primary material and hardening agent are constantly mixed by mixing nozzle.
- Adopts high performance epoxy resin with no resin contraction. Also less odor and toxicity.

CONCRETE

ROCK BED



PE-600N series



● Uses

Foundation work for iron frame, Passage construction work, Tunnel construction work, Installation for vibrating machines.

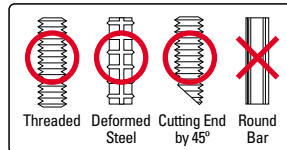
● Guideline for hardening time

Temperature (°C)	5	15	25	35
Use time (min)	120	60	20	12
Hardening time (min)	960	600	300	180

*Do not move the anchor reinforcement within the hardening time.

● Shape of bolt used

Cannot be used for a round bar. Use bolts which have irregularity on a surface such as a continuous thread bolt and different shape bar steel.

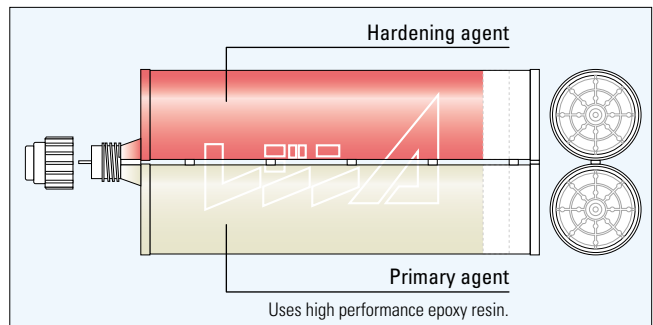


● Installation specifications

Nominal diameter (mm)	M8	M10	M12	M16	M20	M22	M24
Hole diameter (mm)	10.0	12.0	14.0	18.0	24.0	25.0	28.0
Embedding depth (mm)	80	90	110	125	170	190	210
Required resin amount (ml)	4	6	9	15	42	43	66
Tightening torque (Nm)	11	22	38	95	170	210	260
Number of pieces installed (Pcs)	134	89	59	35	12	12	8

*The number of pieces installed indicates the target number taking into consideration a loss rate of 20%.

● Structural Drawing



PE Type (Resin Cartridge)

Code	Capacity (ml)	Content (Pcs.)
PE-600N	600	PE-600N Cartridge×1 Mixing nozzle×1

Injection Gun 600

Code	Maching Cartridge	
RA-GUN600	PE-600N	

Air Gun 600

Code	Maching Cartridge	
RA-AGUN600	PE-600N	

*Used air pressure: 0.6~1MPa

Mixing Nozzle PE (2 pcs.)

Code	Maching Cartridge	
RA-MX2PE	PE Type	

Push Pump

Code	Specifications		
RA-PUP	(Nozzle dia) 10mm (Hose length) 270mm		

Metal Brush

Code	Specifications		
RA-MB10	φ10X300		
RA-MB13	φ13X300		
RA-MB18	φ18X300		
RA-MB28	φ28X300		

Plastic Sleeve (10 pcs.)

Code	Specifications		
RA-P1585	15X85 (M8/10)		
RA-P2085	20X85 (M12)		

Injection Gun 165

Code	Maching Cartridge		
RA-GUN165	GE-165		

Injection Gun 410

Code	Maching Cartridge		
RA-GUN410	GE-410 GE-410C		

Injection Gun 400

Code	Maching Cartridge		
RA-GUN400	PE-400N		

Injection Gun 600

Code	Maching Cartridge		
RA-GUN600	PE-600N		

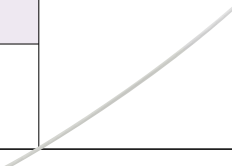
Mixing Nozzle (3 pcs.)

Code	Maching Cartridge		
RA-MX3	GE Type		

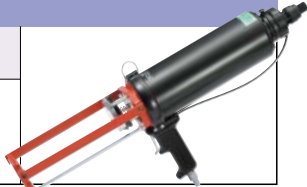
Mixing Nozzle PE (2 pcs.)

Code	Maching Cartridge		
RA-MX2PE	PE Type		

Extension Nozzle (3 pcs.)

Code	Specifications		
RA-EXP3	φ8×1m		

Air Gun 825

Code	Maching Cartridge		
RA-AGUN825	GE-825		

Air Gun 410

Code	Maching Cartridge		
RA-AGUN410	GE-410 GE-410C		

Air Gun 400

Code	Maching Cartridge		
RA-AGUN400	PE-400N		

Air Gun 600

Code	Maching Cartridge		
RA-AGUN600	PE-600N		

Installation Specifications

FC=27N/mm²

Use Bolt	Hole Diameter (mm)	Embedment Depth (mm)	Tightening Torque (Nm)	Resin Amount (ml)	Max. Extraction Strength (kN)		Number of Pieces Installed (Pcs.)				
					GE	PE	GE-165	GE-410	GE-B25	PE-400N	PE-600N
M8	10.0	80	11	4	—	—	31	92	196	87	134
M10	12.0	90	22	6	31.5	40.0	21	62	133	56	89
D10	13.0		—	7	30.7	36.1	18	55	119	48	76
M12	14.0	110	38	9	51.4	56.5	13	40	86	37	59
D13	15.0		—	7	53.8	62.9	19	56	119	48	76
M16	18.0	125	95	15	78.4	83.3	8	25	54	22	35
D16	20.0		—	17	60.8	97.0	7	21	45	19	31
M20	24.0	170	170	42	78.8	108.0	2	8	18	8	12
D19	25.0		—	42	99.6	137.0	3	8	18	8	12
M22	25.0	190	210	43	131.8	141.0	2	8	18	7	12
D22	28.0		—	52	181.1	186.6	2	7	15	6	10
M24	28.0	210	260	66	—	—	1	5	11	5	8
D25	32.0		—	75	—	—	1	4	10	4	7
M30	35.0	280	480	135	—	—	0	2	5	2	3
D29	38.0		—	165	—	—	0	2	4	2	3

*The Max. extraction strength is based on test reports from the Japan Testing Center for Construction Materials.

*Number of pieces installed is the reference number of pieces at a loss rate of 20%.

*M22 and D22 are based on in-house test data.

Plastic Sleeve Installation Specifications

Use Bolt	Hole Diameter (mm)	Matching Sleeve (code)	Resin Amount (ml)
M8	15.0	RA-P1 585	30
M10	15.0	RA-P1 585	30
M12	20.0	RA-P2 085	40

Installation example



Thread Bolt



Plastic Sleeve

Precautions on use

⚠ Precautions on use

- Avoid direct sunlight and store in a well-ventilated place where the temperature does not rise so high. (Never raise the temperature above 40°C. Always keep the temperature in the range of 5 to 25°C.)
- Do not bring close to fire or high temperature objects.
- Cartridge can be stored until the expiration date for use under standard storage conditions.
- Wear protective equipment (such as protective glasses and mask) when using.
- When resin adheres to skin, irritation may occur in rare cases. Take action such as immediately wiping and rinsing with a hot soapy solution.
- In addition, if resin gets into eyes, immediately rinse with a large amount of water and seek medical attention.

⚠ Precautions on installation

- Make sure to provide the drilling diameter and drilling depth as described in the specifications.
- Make sure to use both a metallic brush and blower to sufficiently clean inside the hole.
- Make sure to mount the mixing nozzle with it just before use.
- Make sure to discard first approximately 10cc at a time of first use and nozzle replacement. (Mixing improperly may result in reduction in strength.)
- This cannot be used for a steel bar with no irregularity such as a round bar.
- Refer to the scale on the cartridge label for discharge resin amount.
- Do not move the bar steel nor apply load within the determined hardening time.

RESIN HC-U Type (Hammer-in)

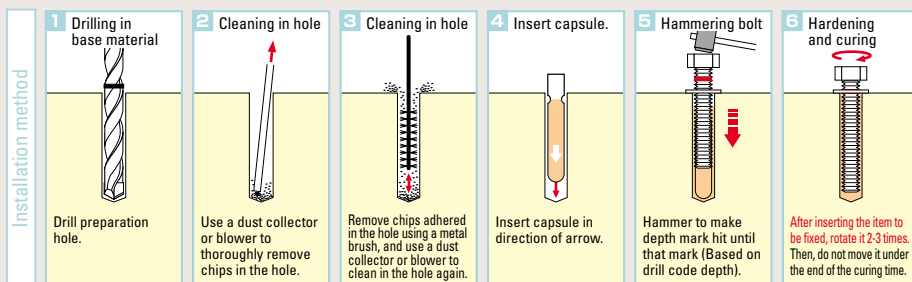
Resin anchor
(Glass Capsule)

- Hammering only to install. OK for different sized bolts and rebar
- Glass tube shape designed for fewer times to hammer
- Good holding of glass and vinyl ester resin with high alkali resistance. Long shelf life before use.



CONCRETE

STONE



Uses

Foundation work for iron frame, Passage construction work, Tunnel construction work, Installation for vibrating machines.

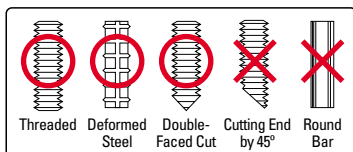
Guideline for hardening time

Temperature (°C)	-5	5	20	30
Hardening time (min)	300	60	30	15

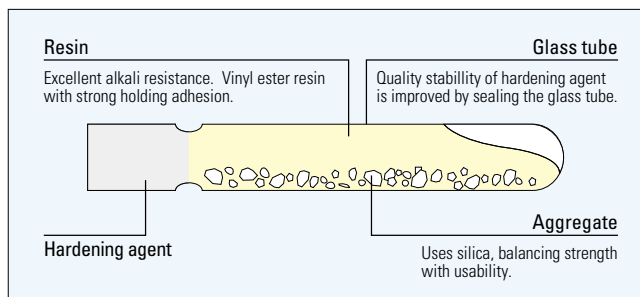
*Do not move the anchor reinforcement within the hardening time.

Shape of bolt used

Make sure to use one with an irregular surface for the edge of the anchor bar by flush cut. Use the hex head set screw or deformed steel bar.



Structural Drawing



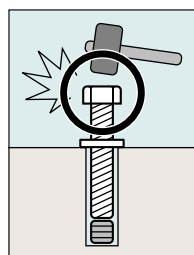
HC-U Type (Hammer-in)

FC=21N/mm²

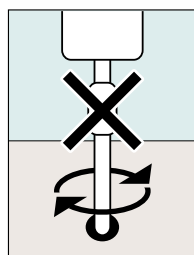
Code	Dia x Length (mm)	Volume (mm)	Use Bolt	Drilling Condition (mm)		Max. Extraction Strength (kN)	Pcs./Box	Pcs./Ctn	
				Hole Dia	Hole Depth				
HC-8U	9.3×80	4.0	M8, W5/16	10.0	80	24.5	10	200	
HC-10U	10.8×95	6.4	M10, W3/8	12.0	95	36.1	10	200	
				D10		32.9			
HC-12U	13.7×110	12.0	M12, W1/2	15.0	110	47.2	10	200	
				D13		56.1			
HC-16U	16.8×125	22.0	M16, W5/8	19.0	140	85.4	10	100	
				D16		85.6			
HC-20U	21.5×175	52.0	M20, W3/4	25.0	180	117.6	10	100	
				D19		124.7			

* The maximum pull-out strength is based on tests by the Center for Construction Materials Foundation.

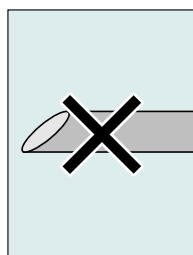
* M10, D10, M12, D13 results are from in-house test data.



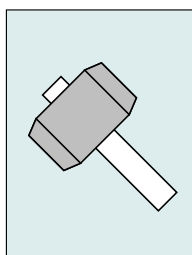
Reliably installed only by hammering in the flat cut bolt with a hammer!



No rotation required



Bolt end cut not required



Regarding the proper hammer what to use, a hammer of 1.3~1.5kg. for the M8/10/12 is best. For the M16/20, use a 1.8kg hammer.

RESIN SE Type (Spin-in)

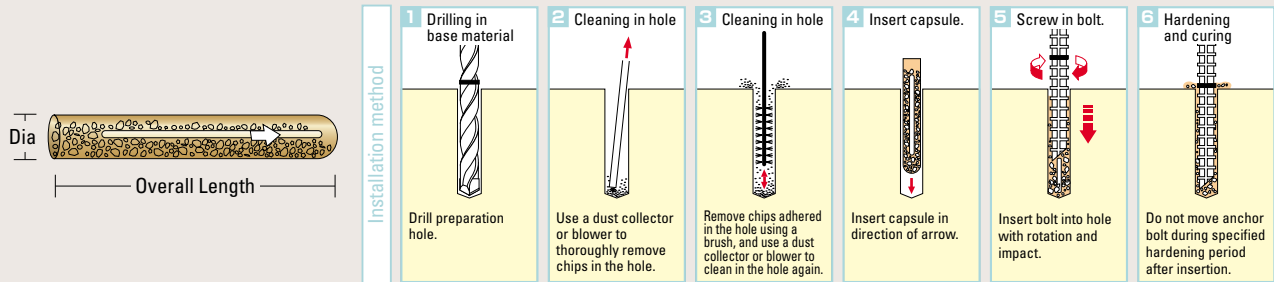
Resin anchor
(Glass Capsule)

- Excellent anchoring and earthquake resistance.
- Can adapt to construction material that is in a wet state.
- The sealed of the glass tube has a high alkali resistance preventing leaks. Also, it offers a long shelf life.



CONCRETE

STONE



● Uses

Foundation work for iron frame, Passage construction work, Tunnel construction work, Installation for vibrating machines.

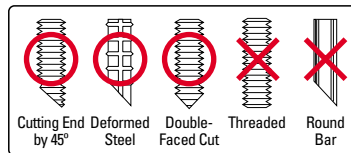
● Guideline for hardening time

Temperature (°C)	-5	5	20	30
Hardening time (min)	300	60	20	10

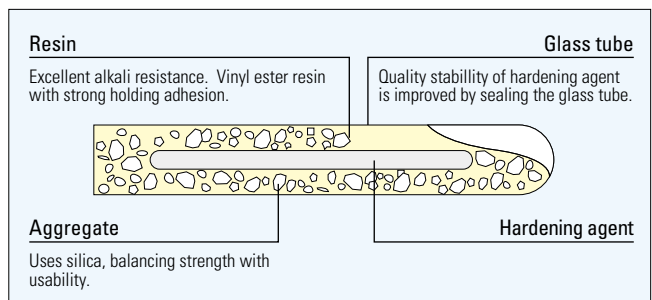
*Do not move the anchor reinforcement within the hardening time.

● Shape of bolt used

Make sure to cut the edge of the anchor bar 45° for use.
Use one with an irregular surface for the hex head set screw or deformed steel bar.



● Structural Drawing



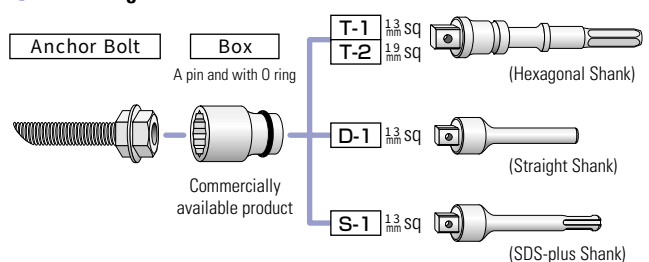
SE Type (Spin-in)									FC=21N/mm ²
Code	Dia x Length (mm)	Volume (mm)	Use Bolt	Drilling Condition (mm)		Max. Extraction Strength (kN)	Pcs./Box	Pcs./Ctn	
				Hole Dia	Hole Depth				
SE-10	10.8×90	6.6	M10, W3/8	12.0	90	46.1	10	200	
			D10	13.0		35.6			
SE-12	12.7×100	9.8	M12, W1/2	14.0	110	69.7	10	200	
			D13	16.0		64.7			
SE-16	16.8×120	21.0	M16, W5/8	18.0	130	107.6	10	100	
			D16	20.0		97.9			
SE-20	21.5×175	53.0	M20, W3/4	25.0	180	170.1	10	100	
			D19	25.0		147.3			
SE-22	21.5×210	61.0	M22, W7/8	26.0	220	196.9	5	50	
			D22	28.0		185.7			
SE-24	25.0×180	76.0	M24, W1	28.0	220	225.2	5	50	
			D25	32.0		240.3			

* The maximum pull-out strength is based on tests by the Center for Construction Materials Foundation.

SE Type Hammering Attachments

Code	Convex Dimensions	Hammering Motor	
T-1	13mm sq	Hammer drill	
T-2	19mm sq	Hammer drill	
S-1	13mm sq	Rotary hammer drill	
D-1	13mm sq	Percussion drill	

● Hammering Attachments





www.unika.co.jp

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SERIES CATALOGUE

UR 21

CORE DRILLS

HOLE SAWS

CONCRETE DRILLS

ANCHORS



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SERIES CATALOGUE

unika



Multi-functional Core Drills

UR21

S E R I E S

Safety Precautions



WARNINGS

- ❑ Wear working clothes suitable for the operation. In particular, eye protection equipment must be worn to prevent shavings from getting into your eyes.
- ❑ Prepare the working environment before starting the job. Be careful to consider safety when working in high places, being close to inflammable materials, in dark places, in rain, in wet place, on scaffolding. Consider falling, fires, electric shock, etc.
- ❑ Be sure to check if there are any defects in the product before use. Never use the product if it has any defect.
- ❑ Be sure to turn off the main switch of the drill and disconnect the power supply plug from the socket before attaching and detaching the product.
- ❑ Do not touch the product, the shavings, or the drilled surface by hand because they may be hot by drilling friction.
- ❑ Never remodel or modify the product.
- ❑ Do not touch moving parts, especially the drill tip or blades.
- ❑ When you feel anything unusual in use, stop using the product and inspect it as well as the electrical drill.
- ❑ When using the product for any other application than is specified, be sure to contact UNIKA.
- ❑ Carefully read the instruction manual of the electrical drill used before using the product.

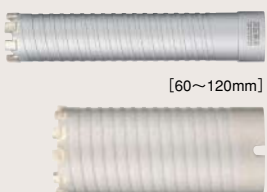


CAUTION

- ❑ Do not allow any person other than the working staff to enter the working place.
- ❑ Do not touch the blades by hand because they are very sharp.
- ❑ Please read handling description well when changing and assembling.
- ❑ Use spare parts that comply with the product specification.
- ❑ The product and its size must be appropriate for the specification of the electrical drill used.

Multi-functional Core Drills **UR21** PAT.

UR21

Percussion Core Drill V series  [25~55mm] [60~170mm]	8	Multi Core Drill M series  [25~55mm] [60~170mm]	14
Percussion Core Drill VL series (Long) 	9	Multi Core Drill M series (Short) 	15
Dry Diamond Core Drill D series  [25~55mm] [60~120mm]	10	ALC Core Drill A series  [25~55mm] [60~170mm]	16
Dry Diamond Core Drill DL series (Long) 	11	Clear Case Set 	17
Composite Core Drill F series  [25~55mm] [60~170mm]	12	For ventilating fan KV series KA series KM series KF series 	18
Composite Core Drill FS series (Short)  [25~55mm] [60~170mm]	13	Shank Assembly  [25~55mm] [60~170mm]	20
		Center Drill / Center Pin 	21
		Availability Chart	22

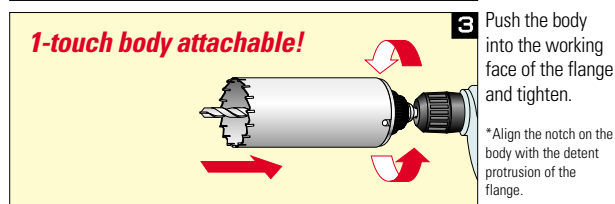
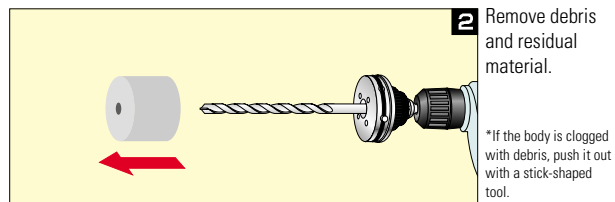
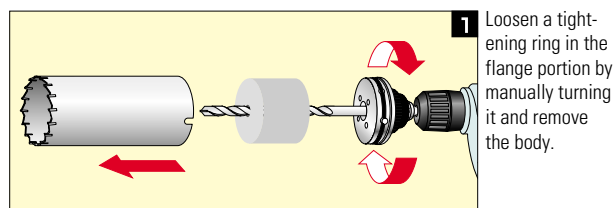
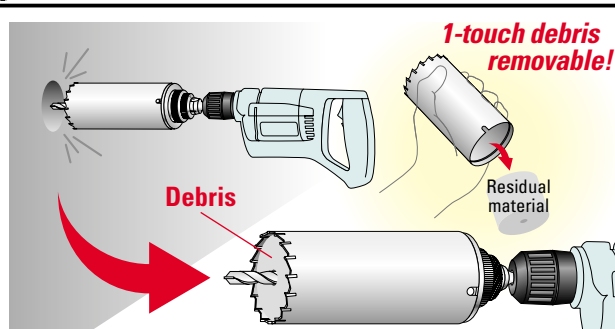
UR21 CORE DRILLS USAGE CHART

◎=Best suited ○=Suitable △=Less suitable	CONCRETE	BLOCK / BRICK	MORTAR	ALC	CERAMIC TILES	HARD EXTERIOR PANELS	STONE	WOOD	PLYWOOD	PLASTERBOARD	SOFT EXTERIOR PANELS	PVC	FRP	SHEET METAL	METAL EXTERIOR PANELS	2x4'S INCLUDING NAILS	STAINLESS STEEL	Resin-based ARTIFICIAL MARBLE
Percussion Core Drill V series		◎	○			○				○	○							
ALC Core Drill A series				◎														
Multi Core Drill M series						○		○	○	◎	◎	◎	◎					
Dry Diamond Core Drill D series	◎	○	◎	△	*○	◎	*○				○							◎
Composite Core Drill F series								◎	◎	◎	△	◎	◎	◎	◎	◎	○	

(*) Only available with water.

No tools required! 1-touch detachable!

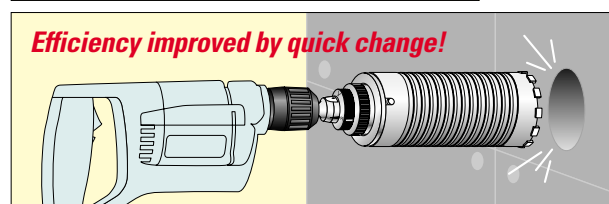
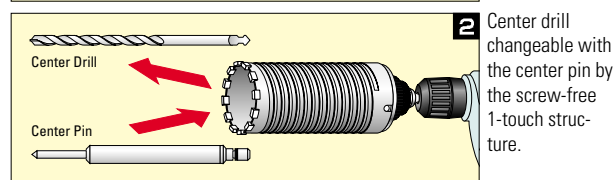
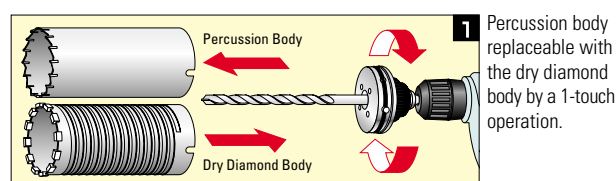
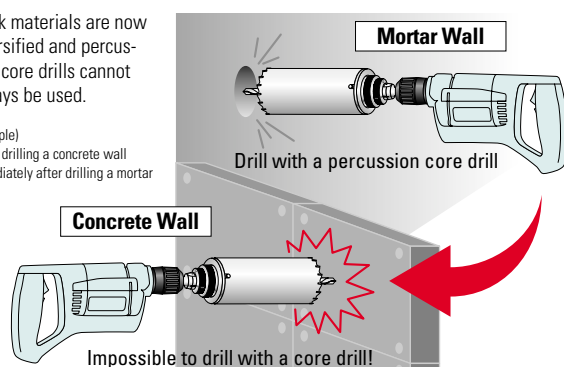
● **Debris removal**



● **Body replacement**

Work materials are now diversified and percussion core drills cannot always be used.

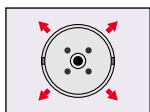
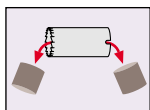
(Example)
When drilling a concrete wall immediately after drilling a mortar wall.



Latest Core Drill Features

(Diameter: 60 - 170 mm)

1-touch detachable body



Body (Replacement Blade)

Any type of residual material and debris can be easily removed since removal can be made from the front/back of the body. Only the body needs to be replaced which makes it economical.

Flange of New Material

Weight is reduced by using light and rust-resistant new material (high tensile aluminum alloy). Deterioration in durability is also prevented.

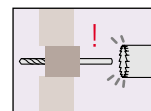
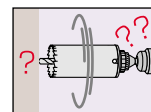
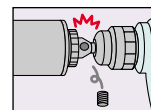
Tight Ring

The body is tightly fixed only by turning the tightening ring. The large contact area allows the rotational force from the motor to be efficiently transmitted to the cutting edge.

Screw-Free Ring

The center drill has a locking-type one-touch detachable structure. There is no need to worry about removal of the center drill since it is securely locked even when the reverse rotation function of the motor is used.

Screw-Free 1-touch Structure



5 Body Types
to meet the diversity of
materials to be drilled

UR21 PAT.
S E R I E S

UR21

V

SERIES

Percussion

- These V-series core drill bits have a cutting edge ideally shaped for hard wall materials, offering both accuracy and efficiency. Basic models are available from narrow diameters to large bores.
- Applying impact with rotation to the cutting edge enables rapid drilling by crushing the material being drilled.

*Use the rotation mode for plasterboards and soft siding boards.

BLOCK

BRICK

MORTAR

PLASTERBOARD

HARD EXTERIOR PANEL

SOFT EXTERIOR PANEL

Applicable
Electric Tool

Percussion Drill



A

ALC

- Rotating core drills specially designed for hard-to-drill ALC panels. Even large bore drilling is made easy.
- Cuts easily through ALC panels as well as the piano wire used for reinforcement, including double and triple reinforcement.

A L C (autoclaved light weight concrete)

PLASTERBOARD

Applicable
Electric Tool

Electric Drill /
Percussion Drill
(rotating mode)



For rotation use only

M

SERIES

Multi

- Multiple use for drilling in siding walls, plasterboard, FRP, veneer panels, PVC panels, composites, etc.

SOFT EXTERIOR PANEL

P V C

F R P

PLASTERBOARD

WOOD

PLYWOOD

Applicable
Electric Tool

Electric Drill /
Percussion Drill
(rotating mode)



For rotation use only

D

SERIES

Dry Diamond

- Capable of drilling through reinforced concrete (cutting up to 3/8 inch diameter reinforcement), blocks, mortar etc. without the use of water.
- Center pin type cuts using only rotation force, greatly reducing noise of vibration.

* For porcelain ceramic tile and stone, water should be used.

REINFORCED CONCRETE

HARD EXTERIOR PANEL

Resin-based **ARTIFICIAL MARBLE**

MORTAR

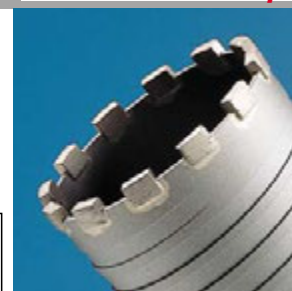
SOFT EXTERIOR PANEL

BLOCK / BRICK

* **CERAMIC TILE**

Applicable
Electric Tool

Electric Drill /
Percussion Drill
(rotating mode)



For rotation use only

F

SERIES

Compound Material

- Employs a unique double blade feature, with the inner-blade preceding the outer-blade, for boring through material such as; metallic siding, stainless steel, wood siding as well as compound material at one go.
- Perfect for use on wooden material applications, as shavings removal is easy and nail cutting is also possible.

STEEL / ALUMINUM

METAL SIDING PANEL

2x4's including nails

WOOD / PLYWOOD

PVC / FRP

PLASTERBOARD

STAINLESS STEEL

Applicable
Electric Tool

Electric Drill /
Percussion Drill
(rotating mode)



For rotation use only

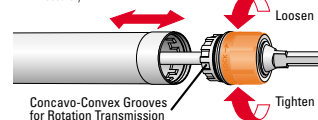
Center Drill Attachment Procedure (URCD)

1. Align the shank protrusions with the fitting grooves of the center drill and insert the drill to the back of the hole.
2. Push in the drill while turning it 60° clockwise.
3. It will lock.



Body Attachment Procedure

1. Fit the "concavo-convex grooves for rotation transmission."
2. Turn the tight ring 90° clockwise to fix the "body" and "shank" securely.



Diameter 25 ~ 55 mm All replacement blades and all sizes (diameter: 25 - 55 mm) are available for one type shank assembly.

Regular	Effective length: 170 mm	Blade Type	Blade Model	Shank Assembly
Percussion V		Carbide Tipped Center Drill (Standard Size)		ST Type
ALC A				
Multi M				
Dry Diamond D		Center Pin	 URCP-230	SDS Type
Compound Material F		HSS Center Drill	 URCD-H250	
Short	Effective length: 60 mm	Compound Material FS	 URCD-H140	

⚠ Removing debris by extracting the center drill may cause injury to your hands. Make sure to remove the body before removing debris.

⚠ Make sure to wear gloves to prevent and protect fingers and hands when extracting the center drill.

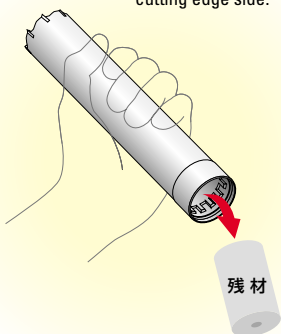
Latest Core Drill Features

(Diameter: 25 - 55 mm)

1-touch detachable body

Debris is easily removed from the front/back of the body

Only with the bodies with a diameter of 40 - 55 mm, debris is removed from the cutting edge side.



Body (Replacement Blade)

Any type of residual material and debris can be easily removed since removal can be made from the front/back of the body. Only the body needs to be replaced which makes it economical.

Body Fitting Grooves

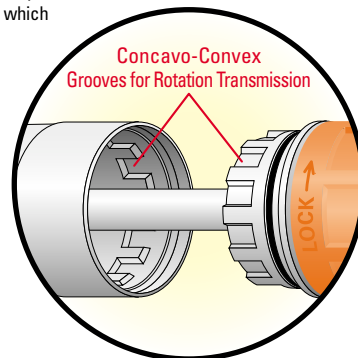
Twelve grooves efficiently transmit the rotational force from the motor to the cutting edge.

Tight Ring

The body is tightly fixed only by turning the tight ring 90°. Weight is reduced by using resin material.

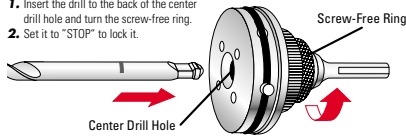
10mm/13mm Chuck Combination Shank

The shank shape (straight shank) allows for most chuck diameters.



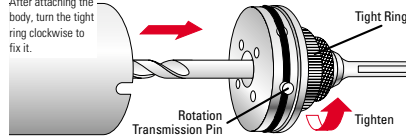
Center Drill Attachment Procedure (2CB)

1. Insert the drill to the back of the center drill hole and turn the screw-free ring.
2. Set it to "STOP" to lock it.



Body Attachment Procedure

After attaching the body, turn the tight ring clockwise to fix it.



UR21 PAT.
S E R I E S

UR21

Diameter 60 ~ 170 mm For a diameter of 60 mm or more, a shank assembly of a corresponding size is required for each size.

Regular	Percussion V	ALC A	Multi M	Dry Diamond D	Compound Material F	Screw-Free Center Drill (Standard Size)	Screw-Free Shank Assembly
(Effective length: 130 mm)						2CB-210	ST Type
						Screw-Free Center Pin DBP-No.1	SDS Type
						Screw-Free Center Drill (for Compound Material) 2CB-W200	
Long	Percussion VL	Dry Diamond DL	Multi MS	Compound Material FS	Screw-Free Center Drill (for Percussion: Long) 2CB-260	Screw-Free Center Pin (for Dry Diamond: Long) DBP-No.2L	Screw-Free Center Drill (for Multi: Short) 2CB-160
(Effective length: 200 mm)							
(Effective length: 60 mm)						Screw-Free Center Drill (for Compound: Short) 2CB-150	

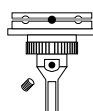
- ⚠ Removing debris by extracting the center drill may cause injury to your hands. Make sure to remove the body before removing debris.
- ⚠ Make sure to wear gloves to prevent and protect fingers and hands when extracting the center drill.

- UR21 series has a center drill / pin which does not suit some shanks. Please ask for the parts which suit the shank.

- Screw-free center drills may also be used with previous shanks, but note that the old-type center drills cannot be used with screw-free shanks.
- Both old and new-style bodies (and bits) can be used.

Old Shank

The type which fixes a center drill with a potato screw.



Conformity Center Drill

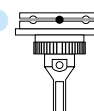
Straight (CD-type)

Half cut (CB-type)

Center Pin (DCP-type)
Long type

Screw-free Shank

Lock plunger system



Conformity Center Drill

Half cut (CB-type)

Center Pin (DCP-type)
Short type



- These V-series core drill bits have a cutting edge ideally shaped for hard wall materials, offering both accuracy and efficiency. Basic models are available from narrow diameters to large bores.
- Applying impact with rotation to the cutting edge enables rapid drilling by crushing the material being drilled.

*Use the rotation mode for plasterboards and soft siding boards.

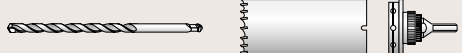
BLOCK		BRICK	
MORTAR	PLASTERBOARD	HARD EXTERIOR PANEL	SOFT EXTERIOR PANEL

Applicable Electric Tool **Percussion Drill**

25 - 55mm



60 - 170mm



UR-V (Set)

	Code		Diameter (mm)	Effective Length (mm)	Center Drill (code)	
	ST-Shank	SDS-Shank				
○	UR21-V025ST	UR21-V025SD	25	170	URCD-T250	
○	UR21-V029ST	UR21-V029SD	29			
○	UR21-V032ST	UR21-V032SD	32			
○	UR21-V035ST	UR21-V035SD	35			
	UR21-V038ST	UR21-V038SD	38			
	UR21-V040ST	UR21-V040SD	40			
	UR21-V045ST	UR21-V045SD	45			
○	UR21-V050ST	UR21-V050SD	50			
	UR21-V055ST	UR21-V055SD	55			
○	UR-V60ST	UR-V60SD	60	130	2CB-210	
○	UR-V65ST	UR-V65SD	65			
○	UR-V70ST	UR-V70SD	70			
○	UR-V75ST	UR-V75SD	75			
○	UR-V80ST	UR-V80SD	80			
	UR-V85ST	UR-V85SD	85			
	UR-V90ST	UR-V90SD	90			
	UR-V95ST	UR-V95SD	95			
○	UR-V100ST	UR-V100SD	100			
△	UR-V105ST	UR-V105SD	105			
○	UR-V110ST	UR-V110SD	110			
	UR-V115ST	UR-V115SD	115			
△	UR-V120ST	UR-V120SD	120			
	UR-V130ST	UR-V130SD	130			
	UR-V150ST	UR-V150SD	150			
	UR-V155ST	UR-V155SD	155			
○	UR-V160ST	UR-V160SD	160			
	UR-V170ST	UR-V170SD	170			

UR-V (Body)

Code	Diameter (mm)	
UR21-V025B	25	
UR21-V029B	29	
UR21-V032B	32	
UR21-V035B	35	
UR21-V038B	38	
UR21-V040B	40	
UR21-V045B	45	
UR21-V050B	50	
UR21-V055B	55	
UR-V60B	60	
UR-V65B	65	
UR-V70B	70	
UR-V75B	75	
UR-V80B	80	
UR-V85B	85	
UR-V90B	90	
UR-V95B	95	
UR-V100B	100	
UR-V105B	105	
UR-V110B	110	
UR-V115B	115	
UR-V120B	120	
UR-V130B	130	
UR-V150B	150	
UR-V155B	155	
UR-V160B	160	
UR-V170B	170	

UR-V (Center Drill)

Code	Diameter (mm)	Overall Length (mm)	Core Drill Size (mm)	
URCD-T250	10.0	250	25~55	
2CB-210		210	60~170	

UR21 (Shank Assembly)

For codes, specifications, and availability look at the **UR21** shank assembly availability list (P. 20).

Diameter 25~55 mm

All replacement blades and all sizes (diameter: 25 - 55 mm) are available for one type shank assembly.

Percussion Body
UR21-V025B ~ V055B

Center Drill
URCD-T250



SDS-Shank
UR25/55FSD

ST-Shank
UR25/55FST

Diameter 60~170 mm

For a diameter of 60 mm or more, a shank assembly of a corresponding size is required for each size.

Percussion Body
UR-V60B ~ V170B

Center Drill
2CB-210



SDS-Shank
2CB60FSD ~ 170FSD

ST-Shank
2CB60FST ~ 170FST



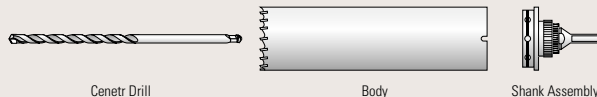
- Percussion drill bits having a cutting edge ideally shaped for hard wall materials, etc., offering both accuracy and efficiency. Long type with an effective length of 200 mm.
- Applying impact with rotation to the cutting edge enables rapid drilling by crushing the material being drilled.

*Use the rotation mode for plasterboards and soft siding boards.

BLOCK		BRICK	
MORTAR	PLASTERBOARD	HARD EXTERIOR PANEL	SOFT EXTERIOR PANEL

Applicable Electric Tool **Percussion Drill**

60-80mm



UR-VL Long (Set)

Code		Diameter (mm)	Effective Length (mm)	Center Drill (code)	
ST-Shank	SDS-Shank				
UR-VL60ST	UR-VL60SD	60	200	2CB-260	
UR-VL65ST	UR-VL65SD	65			
UR-VL70ST	UR-VL70SD	70			
UR-VL75ST	UR-VL75SD	75			
UR-VL80ST	UR-VL80SD	80			

UR-VL Long (Body)

Core	Diameter (mm)	
UR-VL60B	60	
UR-VL65B	65	
UR-VL70B	70	
UR-VL75B	75	
UR-VL80B	80	

UR-VL Long (Center Drill)

Core	Diameter (mm)	Overall Length (mm)	Core Drill Size (mm)	
2CB-260	10.0	260	60~80	

UR21 (Shank Assembly)

For codes, specifications, and availability look at the **UR21** shank assembly availability list (P. 20).

Diameter 60~80 mm

For a diameter of 60 mm or more, a shank assembly of a corresponding size is required for each size.

Percussion Long Body
UR-VL60B~VL80B

Center Drill
2CB-260



SDS-Shank
2CB60FSD~80FSD

ST-Shank
2CB60FST~80FST



Capable of drilling reinforced concrete (cutting up to 3/8 inch diameter reinforcement), blocks, mortar etc. without the use of water.

Center pin type cuts by using only rotation force, greatly reducing noise of vibration.

* For porcelain ceramic tile and stone, water should be used.

REINFORCED CONCRETE **HARD EXTERIOR PANEL** Resin-based **ARTIFICIAL MARBLE**

MORTAR **SOFT EXTERIOR PANEL** **BLOCK / BRICK** * **CERAMIC TILE**

Applicable Electric Tool **Electric Drill / Percussion Drill (rotating mode)**

25 - 55mm



60 - 120mm



UR-D (Set)

	Code		Diameter (mm)	Effective Length (mm)	Center Pin (code)	
	ST-Shank	SDS-Shank				
○	UR21-D025ST	UR21-D025SD	25	170	URCP-230	
○	UR21-D029ST	UR21-D029SD	29			
○	UR21-D032ST	UR21-D032SD	32			
○	UR21-D035ST	UR21-D035SD	35			
○	UR21-D038ST	UR21-D038SD	38			
○	UR21-D040ST	UR21-D040SD	40			
△	UR21-D045ST	UR21-D045SD	45			
○	UR21-D050ST	UR21-D050SD	50			
○	UR21-D055ST	UR21-D055SD	55			
△	UR-D60ST	UR-D60SD	60	130	DBP-No.1	
○	UR-D65ST	UR-D65SD	65			
△	UR-D70ST	UR-D70SD	70			
○	UR-D75ST	UR-D75SD	75			
△	UR-D80ST	UR-D80SD	80			
	UR-D90ST	UR-D90SD	90			
	UR-D95ST	UR-D95SD	95			
	UR-D100ST	UR-D100SD	100			
	UR-D105ST	UR-D105SD	105			
	UR-D110ST	UR-D110SD	110			
	UR-D120ST	UR-D120SD	120			

UR-D (Body)

Code	Diameter (mm)	
UR21-D025B	25	
UR21-D029B	29	
UR21-D032B	32	
UR21-D035B	35	
UR21-D038B	38	
UR21-D040B	40	
UR21-D045B	45	
UR21-D050B	50	
UR21-D055B	55	
UR-D60B	60	
UR-D65B	65	
UR-D70B	70	
UR-D75B	75	
UR-D80B	80	
UR-D90B	90	
UR-D95B	95	
UR-D100B	100	
UR-D105B	105	
UR-D110B	110	
UR-D120B	120	

UR-D (Center Pin)

Code	Overall Length (mm)	Core Drill Size (mm)	
URCP-230	230	25~55	
DBP-No.1	187	60~120	

UR21 (Shank Assembly)

For codes, specifications, and availability look at the **UR21** shank assembly availability list (P. 20).

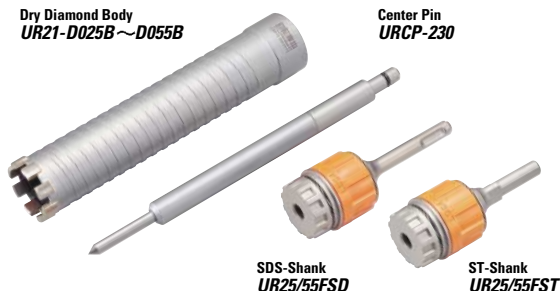
Diameter 25~55 mm

With guide plate

All replacement blades and all sizes (diameter: 25 - 55 mm) are available for one type shank assembly.

Dry Diamond Body
UR21-D025B~D055B

Center Pin
URCP-230



SDS-Shank
UR25/55FSD

ST-Shank
UR25/55FST

Diameter 60~120 mm

For a diameter of 60 mm or more, a shank assembly of a corresponding size is required for each size.

Dry Diamond Body
UR-D60B~D120B

Center Pin
DBP-No.1



SDS-Shank
2CB60FSD~120FSD

ST-Shank
2CB60FST~120FST



- Capable of drilling reinforced concrete (cutting up to 3/8 inch diameter reinforcement), blocks, mortar etc. without the use of water.
- Center pin type cuts by using only rotation force, greatly reducing noise of vibration.
- Long type with an effective length of 200 mm.

* For porcelain ceramic tile and stone, water should be used.

REINFORCED CONCRETE HARD EXTERIOR PANEL Resin-based ARTIFICIAL MARBLE

MORTAR SOFT EXTERIOR PANEL BLOCK / BRICK * CERAMIC TILE

Applicable Electric Tool Electric Drill / Percussion Drill (rotating mode)

60 - 80mm



Center Pin



Body



Shank Assembly



UR-DL Long (Set)

Code		Diameter (mm)	Effective Length (mm)	Center Pin (code)	
ST-Shank	SDS-Shank				
UR-DL60ST	UR-DL60SD	60	200	DBP-No.2L	
UR-DL65ST	UR-DL65SD	65			
UR-DL70ST	UR-DL70SD	70			
UR-DL75ST	UR-DL75SD	75			
UR-DL80ST	UR-DL80SD	80			

UR-DL Long (Body)

Code	Diameter (mm)	
UR-DL60B	60	
UR-DL65B	65	
UR-DL70B	70	
UR-DL75B	75	
UR-DL80B	80	

UR-DL Long (Center Pin)

Code	Overall Length (mm)	Core Drill Size (mm)	
DBP-No.2L	257	60~80	

UR21 (Shank Assembly)

For codes, specifications, and availability look at the **UR21** shank assembly availability list (P. 20).

⚠ Precautions on use

- Note that the cutting edge may experience wear sooner when used for concrete without the elapse of an insufficient curing period.
- Make sure to use the drill in the "rotation mode." Using the drill in the percussion/impact mode may cause falling of the cutting edge or other failures.
- Note that forced insertion/removal operations during drilling (the cutting edge collides against the hole bottom or hole wall) or excessive tilting of a tool may also cause failures.
- Make sure to use this product in a "dry" condition. Using it in a wet or a damp condition may cause not only a shorter life but also reduced operating efficiency.

Dressing (sharpening) operation

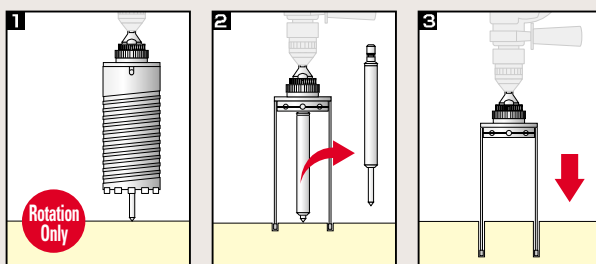
Perform dressing (sharpening) operation in the following cases:

- Where cutting quality deteriorates during drilling
- Where burns or discoloration is detected on the cutting edge

In dressing operation, perform normal drilling in heavy weight (hollow) blocks or GC/WA grinding wheels. Dressing operation is completed when diamond particles protrude from the cutting edge surface and streaks in the rotation direction become clear.

● Handling Method

(Dry Diamond UR-D/DL (common))



Align the center pin with the drilling position. Hold it tight and turn on the motor switch. [Rotation mode]

Stop the motor when the cutting edge is inserted approximately 5 mm and remove the center pin.

Lightly press the body against the drilling groove and continue operation.

Diameter 60~80 mm

For a diameter of 60 mm or more, a shank assembly of a corresponding size is required for each size.

Dry Diamond Long Body
UR-DL60B ~ DL80B

Center Pin
DBP-No.2L



SDS-Shank
2CB60FSD ~ 80FSD

ST-Shank
2CB60FST ~ 80FST



- Employs a unique double blade feature, with the inner-blade preceding the outer-blade, for boring through material such as; metallic siding, stainless steel, wood siding as well as compound material (metallic siding + insulating material + plywood) at one go.
- Perfect for use on wooden material applications, as shavings removal is easy and nail cutting is also possible. Possible to bore through several layers of thin steel plates.

STEEL / ALUMINUM | METAL SIDING PANEL | 2x4's including nails

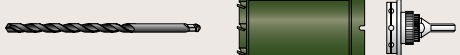
WOOD / PLYWOOD | PVC / FRP | PLASTERBOARD | STAINLESS STEEL

Applicable Electric Tool | Electric Drill / Percussion Drill (rotating mode)

25 - 55mm



60 - 170mm



UR-F (Set)

	Code		Diameter (mm)	Effective Length (mm)	Center Drill (code)
	ST-Shank	SDS-Shank			
	UR21-F025ST	UR21-F025SD	25	170	URCDH250
△	UR21-F029ST	UR21-F029SD	29		
○	UR21-F032ST	UR21-F032SD	32		
○	UR21-F035ST	UR21-F035SD	35		
△	UR21-F038ST	UR21-F038SD	38		
○	UR21-F040ST	UR21-F040SD	40		
	UR21-F045ST	UR21-F045SD	45		
△	UR21-F050ST	UR21-F050SD	50		
	UR21-F055ST	UR21-F055SD	55		
	UR-F60ST	UR-F60SD	60	130	2CB-W200
○	UR-F65ST	UR-F65SD	65		
○	UR-F70ST	UR-F70SD	70		
	UR-F75ST	UR-F75SD	75		
○	UR-F80ST	UR-F80SD	80		
	UR-F85ST	UR-F85SD	85		
	UR-F90ST	UR-F90SD	90		
	UR-F95ST	UR-F95SD	95		
	UR-F100ST	UR-F100SD	100		
	UR-F105ST	UR-F105SD	105		
○	UR-F110ST	UR-F110SD	110		
	UR-F115ST	UR-F115SD	115		
○	UR-F120ST	UR-F120SD	120		
	UR-F130ST	UR-F130SD	130		
	UR-F150ST	UR-F150SD	150		
	UR-F155ST	UR-F155SD	155		
○	UR-F160ST	UR-F160SD	160		
	UR-F170ST	UR-F170SD	170		

UR-F (Body)

Code	Diameter (mm)
UR21-F025B	25
UR21-F029B	29
UR21-F032B	32
UR21-F035B	35
UR21-F038B	38
UR21-F040B	40
UR21-F045B	45
UR21-F050B	50
UR21-F055B	55
UR-F60B	60
UR-F65B	65
UR-F70B	70
UR-F75B	75
UR-F80B	80
UR-F85B	85
UR-F90B	90
UR-F95B	95
UR-F100B	100
UR-F105B	105
UR-F110B	110
UR-F115B	115
UR-F120B	120
UR-F130B	130
UR-F150B	150
UR-F155B	155
UR-F160B	160
UR-F170B	170

UR-F (Center Drill)

Code	Diameter (mm)	Overall Length (mm)	Core Drill Size (mm)
URCDH250	9.5	250	25~55
2CB-W200		210	60~170

UR21 (Shank Assembly)

For codes, specifications, and availability look at the **UR21** shank assembly availability list (P. 20).

Diameter 25~55 mm

With guide plate

All replacement blades and all sizes (diameter: 25 - 55 mm) are available for one type shank assembly.

Compound Material Body
UR21-F025B~F055B

Center Drill
URCD-H250



SDS-Shank
UR25/55FSD

ST-Shank
UR25/55FST

Diameter 60~170 mm

For a diameter of 60 mm or more, a shank assembly of a corresponding size is required for each size.

Compound Material Body
UR-F60B~F170B

Center Drill
2CB-W200



SDS-Shank
2CB60FSD~170FSD

ST-Shank
2CB60FST~170FST



- Employs a unique double blade feature, with the inner-blade preceding the outer-blade, for boring through material such as; metallic siding, stainless steel, wood siding as well as compound material (metallic siding + insulating material + plywood) at one go.
- Possible to bore through several layers of thin steel plates.
- Short type with an effective length of 60 mm.

STEEL / ALUMINUM METAL SIDING PANEL 2x4's including nails

WOOD / PLYWOOD PVC / FRP PLASTERBOARD STAINLESS STEEL

Applicable Electric Tool Electric Drill / Percussion Drill (rotating mode)

25 - 55mm



Center Drill



Body



Shank Assembly

60 - 170mm



UR-FS Short (Set)

出 筋	Code		Diameter (mm)	Effective Length (mm)	Center Drill (code)	
	ST-Shank	SDS-Shank				
△	UR21-FS025ST	UR21-FS025SD	25	60	URCD-H140	
	UR21-FS029ST	UR21-FS029SD	29			
○	UR21-FS032ST	UR21-FS032SD	32			
	UR21-FS035ST	UR21-FS035SD	35			
	UR21-FS038ST	UR21-FS038SD	38			
	UR21-FS040ST	UR21-FS040SD	40			
△	UR21-FS045ST	UR21-FS045SD	45			
○	UR21-FS050ST	UR21-FS050SD	50			
	UR21-FS055ST	UR21-FS055SD	55			
	UR-FS60ST	UR-FS60SD	60	60	2CB-150	
○	UR-FS65ST	UR-FS65SD	65			
	UR-FS70ST	UR-FS70SD	70			
	UR-FS75ST	UR-FS75SD	75			
	UR-FS80ST	UR-FS80SD	80			
	UR-FS85ST	UR-FS85SD	85			
	UR-FS90ST	UR-FS90SD	90			
○	UR-FS95ST	UR-FS95SD	95			
	UR-FS100ST	UR-FS100SD	100			
	UR-FS105ST	UR-FS105SD	105			
△	UR-FS110ST	UR-FS110SD	110			
	UR-FS115ST	UR-FS115SD	115			
△	UR-FS120ST	UR-FS120SD	120			
	UR-FS130ST	UR-FS130SD	130			
	UR-FS150ST	UR-FS150SD	150			
	UR-FS155ST	UR-FS155SD	155			
	UR-FS160ST	UR-FS160SD	160			
	UR-FS170ST	UR-FS170SD	170			

UR-FS Short (Body)

Code	Diameter (mm)	
UR21-FS025B	25	
UR21-FS029B	29	
UR21-FS032B	32	
UR21-FS035B	35	
UR21-FS038B	38	
UR21-FS040B	40	
UR21-FS045B	45	
UR21-FS050B	50	
UR21-FS055B	55	
UR-FS60B	60	
UR-FS65B	65	
UR-FS70B	70	
UR-FS75B	75	
UR-FS80B	80	
UR-FS85B	85	
UR-FS90B	90	
UR-FS95B	95	
UR-FS100B	100	
UR-FS105B	105	
UR-FS110B	110	
UR-FS115B	115	
UR-FS120B	120	
UR-FS130B	130	
UR-FS150B	150	
UR-FS155B	155	
UR-FS160B	160	
UR-FS170B	170	

UR-FS Short (Center Drill)

Code	Diameter (mm)	Overall Length (mm)	Core Drill Size (mm)	
URCDH140	9.5	150	25~55	
2CB-150		150	60~170	

UR21 (Shank Assembly)

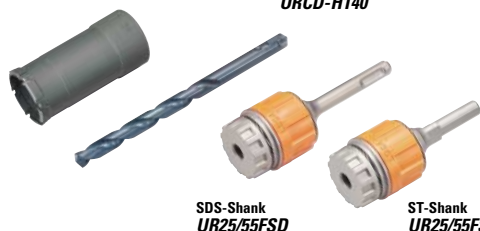
For codes, specifications, and availability look at the **UR21** shank assembly availability list (P. 20).

Diameter 25~55 mm

All replacement blades and all sizes (diameter: 25 - 55 mm) are available for one type shank assembly.

Compound Material Short Body
UR21-FS025B~FS055B

Center Drill
URCD-H140



SDS-Shank
UR25/55FSD

ST-Shank
UR25/55FST

Diameter 60~170 mm

For a diameter of 60 mm or more, a shank assembly of a corresponding size is required for each size.

Compound Material Short Body
UR-FS60B~FS170B

Center Drill
2CB-150



SDS-Shank
2CB60FSD~170FSD

ST-Shank
2CB60FST~170FST

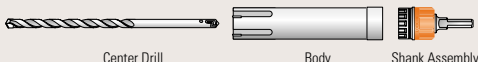


Multiple use for drilling in siding walls, plasterboard, FRP, veneer panels, PVC panels, and composites etc.

SOFT EXTERIOR PANEL	PVC	FRP
PLASTERBOARD	WOOD	PLYWOOD

Applicable Electric Tool Electric Drill / Percussion Drill (rotating mode)

25 - 55mm



60 - 170mm



UR-M (Set)

	Code		Diameter (mm)	Effective Length (mm)	Center Drill (code)	
	ST-Shank	SDS-Shank				
	UR21-M025ST	UR21-M025SD	25	170	URCD-T250	
	UR21-M029ST	UR21-M029SD	29			
⊙	UR21-M032ST	UR21-M032SD	32			
	UR21-M035ST	UR21-M035SD	35			
	UR21-M038ST	UR21-M038SD	38			
△	UR21-M040ST	UR21-M040SD	40			
	UR21-M045ST	UR21-M045SD	45			
△	UR21-M050ST	UR21-M050SD	50			
	UR21-M055ST	UR21-M055SD	55			
	UR-M60ST	UR-M60SD	60	130	2CB-210	
⊙	UR-M65ST	UR-M65SD	65			
⊙	UR-M70ST	UR-M70SD	70			
○	UR-M75ST	UR-M75SD	75			
⊙	UR-M80ST	UR-M80SD	80			
	UR-M85ST	UR-M85SD	85			
	UR-M90ST	UR-M90SD	90			
△	UR-M95ST	UR-M95SD	95			
○	UR-M100ST	UR-M100SD	100			
	UR-M105ST	UR-M105SD	105			
⊙	UR-M110ST	UR-M110SD	110			
△	UR-M115ST	UR-M115SD	115			
○	UR-M120ST	UR-M120SD	120			
	UR-M130ST	UR-M130SD	130			
	UR-M150ST	UR-M150SD	150			
	UR-M155ST	UR-M155SD	155			
○	UR-M160ST	UR-M160SD	160			
	UR-M170ST	UR-M170SD	170			

UR-M (Body)

Code	Diameter (mm)	
UR21-M025B	25	
UR21-M029B	29	
UR21-M032B	32	
UR21-M035B	35	
UR21-M038B	38	
UR21-M040B	40	
UR21-M045B	45	
UR21-M050B	50	
UR21-M055B	55	
UR-M60B	60	
UR-M65B	65	
UR-M70B	70	
UR-M75B	75	
UR-M80B	80	
UR-M85B	85	
UR-M90B	90	
UR-M95B	95	
UR-M100B	100	
UR-M105B	105	
UR-M110B	110	
UR-M115B	115	
UR-M120B	120	
UR-M130B	130	
UR-M150B	150	
UR-M155B	155	
UR-M160B	160	
UR-M170B	170	

UR-M (Center Drill)

Code	Diameter (mm)	Overall Length (mm)	Core Drill Size (mm)	
URCD-T250	10.0	250	25~55	
2CB-210		210	60~170	

UR21 (Shank Assembly)

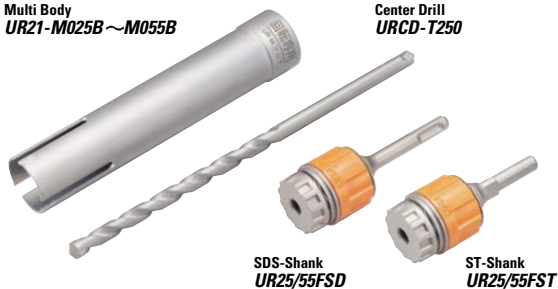
For codes, specifications, and availability look at the **UR21** shank assembly availability list (P. 20).

Diameter 25~55 mm

All replacement blades and all sizes (diameter: 25 - 55 mm) are available for one type shank assembly.

Multi Body
UR21-M025B ~ M055B

Center Drill
URCD-T250



SDS-Shank
UR25/55FSD

ST-Shank
UR25/55FST

Diameter 60~170 mm

For a diameter of 60 mm or more, a shank assembly of a corresponding size is required for each size.

Multi Body
UR-M60B ~ M170B

Center Drill
2CB-210



SDS-Shank
2CB60FSD ~ 170FSD

ST-Shank
2CB60FST ~ 170FST



- Multiple use for drilling in siding walls, plasterboard, FRP, veneer panels, PVC panels, and composites etc.
- Short type with an effective length of 60 mm.

SOFT EXTERIOR PANEL

PVC

FRP

PLASTERBOARD

WOOD

PLYWOOD

Applicable Electric Tool Electric Drill / Percussion Drill (rotating mode)

60 - 170mm



Center Drill



Body



Shank Assembly



UR-MS Short (Set)

出 筋	Code		Diameter (mm)	Effective Length (mm)	Center Drill (code)	
	ST-Shank	SDS-Shank				
	UR-MS60ST	UR-MS60SD	60	60	2CB-160	
	UR-MS65ST	UR-MS65SD	65			
	UR-MS70ST	UR-MS70SD	70			
○	UR-MS75ST	UR-MS75SD	75			
	UR-MS80ST	UR-MS80SD	80			
	UR-MS85ST	UR-MS85SD	85			
	UR-MS90ST	UR-MS90SD	90			
	UR-MS95ST	UR-MS95SD	95			
	UR-MS100ST	UR-MS100SD	100			
△	UR-MS105ST	UR-MS105SD	105			
○	UR-MS110ST	UR-MS110SD	110			
△	UR-MS115ST	UR-MS115SD	115			
	UR-MS120ST	UR-MS120SD	120			
	UR-MS130ST	UR-MS130SD	130			
	UR-MS150ST	UR-MS150SD	150			
○	UR-MS160ST	UR-MS160SD	160			
	UR-MS170ST	UR-MS170SD	170			

UR-MS Short (Body)

Code	Diameter (mm)	
UR-MS60B	60	
UR-MS65B	65	
UR-MS70B	70	
UR-MS75B	75	
UR-MS80B	80	
UR-MS85B	85	
UR-MS90B	90	
UR-MS95B	95	
UR-MS100B	100	
UR-MS105B	105	
UR-MS110B	110	
UR-MS115B	115	
UR-MS120B	120	
UR-MS130B	130	
UR-MS150B	150	
UR-MS160B	160	
UR-MS170B	170	

UR-MS Short (Center Drill)

Code	Diameter (mm)	Overall Length (mm)	Core Drill Size (mm)	
2CB-160	10.0	150	60~170	

UR21 (Shank Assembly)

For codes, specifications, and availability look at the **UR21** shank assembly availability list (P. 20).

Diameter 60~170 mm

For a diameter of 60 mm or more, a shank assembly of a corresponding size is required for each size.

Multi Short Body
UR-MS60B~MS170B

Center Drill
2CB-160



SDS-Shank
2CB60FSD~170FSD

ST-Shank
2CB60FST~170FST



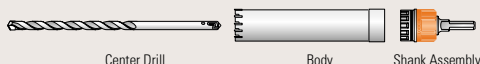
- Rotating core drills specially designed for hard-to-drill ALC panels. Even large bore drilling is made easy.
- Cuts easily through ALC panels as well as the piano wire used for reinforcing, including 1/4 inch diameter reinforcement.

A L C

PLASTERBOARD

Applicable Electric Tool Electric Drill / Percussion Drill (rotating mode)

25 - 55mm



60 - 170mm



UR-A (Set)

	Code		Diameter (mm)	Effective Length (mm)	Center Drill (code)	
	ST-Shank	SDS-Shank				
	UR21-A025ST	UR21-A025SD	25	170	URCD-T250	
△	UR21-A029ST	UR21-A029SD	29			
△	UR21-A032ST	UR21-A032SD	32			
△	UR21-A035ST	UR21-A035SD	35			
○	UR21-A038ST	UR21-A038SD	38			
○	UR21-A040ST	UR21-A040SD	40			
	UR21-A045ST	UR21-A045SD	45			
○	UR21-A050ST	UR21-A050SD	50			
	UR21-A055ST	UR21-A055SD	55			
	UR-A60ST	UR-A60SD	60	130	2CB-210	
◎	UR-A65ST	UR-A65SD	65			
◎	UR-A70ST	UR-A70SD	70			
○	UR-A75ST	UR-A75SD	75			
◎	UR-A80ST	UR-A80SD	80			
	UR-A85ST	UR-A85SD	85			
	UR-A90ST	UR-A90SD	90			
	UR-A95ST	UR-A95SD	95			
○	UR-A100ST	UR-A100SD	100			
△	UR-A105ST	UR-A105SD	105			
◎	UR-A110ST	UR-A110SD	110			
	UR-A115ST	UR-A115SD	115			
	UR-A120ST	UR-A120SD	120			
	UR-A130ST	UR-A130SD	130			
	UR-A150ST	UR-A150SD	150			
	UR-A155ST	UR-A155SD	155			
	UR-A160ST	UR-A160SD	160			
	UR-A170ST	UR-A170SD	170			

UR-A (Body)

Code	Diameter (mm)	
UR21-A025B	25	
UR21-A029B	29	
UR21-A032B	32	
UR21-A035B	35	
UR21-A038B	38	
UR21-A040B	40	
UR21-A045B	45	
UR21-A050B	50	
UR21-A055B	55	
UR-A60B	60	
UR-A65B	65	
UR-A70B	70	
UR-A75B	75	
UR-A80B	80	
UR-A85B	85	
UR-A90B	90	
UR-A95B	95	
UR-A100B	100	
UR-A105B	105	
UR-A110B	110	
UR-A115B	115	
UR-A120B	120	
UR-A130B	130	
UR-A150B	150	
UR-A155B	155	
UR-A160B	160	
UR-A170B	170	

UR-A (Center Drill)

Code	Diameter (mm)	Overall Length (mm)	Core Drill Size (mm)	
URCD-T250	10.0	250	25~55	
2CB-210		210	60~170	

UR21 (Shank Assembly)

For codes, specifications, and availability look at the **UR21** shank assembly availability list (P. 20).

Diameter 25~55 mm

All replacement blades and all sizes (diameter: 25 - 55 mm) are available for one type shank assembly.

ALC Body
UR21-A025B~A055B

Center Drill
URCD-T250



SDS-Shank
UR25/55FSD

ST-Shank
UR25/55FST

Diameter 60~170 mm

For a diameter of 60 mm or more, a shank assembly of a corresponding size is required for each size.

ALC Body
UR-A60B~A170B

Center Drill
2CB-210



SDS-Shank
2CB60FSD~170FSD

ST-Shank
2CB60FST~170FST

Diameter 60~75mm Clear case set

UR21 PAT.
S E R I E S

UR21



Case size (mm): 325 (W) x 85 (D) x 240 (H)

UR21 Set for Air Conditioner Installation Work **VFA**

Code	Diameter (mm)	Set contents	
UR-VFA65SD	65	Percussion ALC	
UR-VFA70SD	70	Compound Material Center Drill	

UR21 Set for Air Conditioner Installation Work **VFD**

Code	Diameter (mm)	Set contents	
UR-VFD65SD	65	Percussion Dry Diamond	
UR-VFD70SD	70	Compound Material Center Drill/Pin	

Diameter 32~38mm Clear case set



Case size (mm): 366 (W) x 78 (D) x 270 (H)

UR21 Set for plumbing work **VFA**

Code	Diameter (mm)	Set contents	
UR21-VFA032SD	32	Percussion ALC Compound Material Center Drill	

UR21 Set for plumbing work **VFD**

Code	Diameter (mm)	Set contents	
UR21-VFD032SD	32	Percussion Dry Diamond	
UR21-VFD035SD	35	Compound Material Center Drill	
UR21-VFD038SD	38	Center Pin	

Contents of **UR21** case set is one example of a standard set for each work. Do not hesitate to contact us for combinations.



SERIES

Percussion



- Core drill in vibration mode, has a cutting edge shape most suitable for hard wall materials etc., achieving an excellent balance between accuracy and efficiency.
- With small-amplitude vibration and rotation to the cutting edge enables speedier drilling by crushing the material being drilled while drilling.

*Use the rotation mode for plasterboard and soft siding board.

BLOCK

BRICK

MORTAR

PLASTERBOARD

HARD EXTERIOR PANEL

SOFT EXTERIOR PANEL

Applicable Electric Tool Percussion Drill

UR-KV (Set for Ventilating Fan)

Code		Diameter (mm)	Effective Length (mm)	Center Drill (code)	
ST-Shank	SDS-Shank				
UR-KV1116ST	UR-KV1116SD	110+160	130	2CB-210	

UR-KV (Body)

Code	Diameter (mm)	
UR-V110B	110	
UR-KV160B	160	

UR-KV (Center Drill)

Code	Diameter (mm)	Overall Length (mm)	Core Drill Size (mm)	
2CB-210	100	210	60~170	



UR21 (110mm Shank Assembly)

Code	Shank	
2CB-110FST	Straight	
2CB-110FSD	SDS	



SERIES

ALC



- Rotating core drills specially designed for hard-to-drill ALC panels. Even large bore drilling is made easy.
- Cuts easily through ALC panels as well as the piano wire used for reinforcing, including 1/4 inch diameter reinforcement.

A L C

PLASTERBOARD

Applicable Electric Tool Electric Drill / Percussion Drill (rotating mode)

UR-KA (Set for Ventilating Fan)

Code		Diameter (mm)	Effective Length (mm)	Center Drill (code)	
ST-Shank	SDS-Shank				
UR-KA1116ST	UR-KA1116SD	110+160	130	2CB-210	

UR-KA (Body)

Code	Diameter (mm)	
UR-A110B	110	
UR-KA160B	160	

UR-KA (Center Drill)

Code	Diameter (mm)	Overall Length (mm)	Core Drill Size (mm)	
2CB-210	100	210	60~170	



UR21 (110mm Shank Assembly)

Code	Shank	
2CB-110FST	Straight	
2CB-110FSD	SDS	

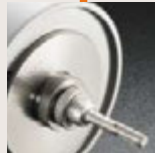


M

SERIES **Multi**



1 Shank
1-touch Body



Multiple use for drilling in siding walls, plasterboard, FRP, veneer panels, PVC panels, and composites etc.

SOFT EXTERIOR PANEL

PVC

FRP

PLASTERBOARD

WOOD

PLYWOOD

Applicable Electric Tool Electric Drill / Percussion Drill (rotating mode)

UR-KM (Set for Ventilating Fan)

Code		Diameter (mm)	Effective Length (mm)	Center Drill (code)	
ST-Shank	SDS-Shank				
UR-KM1116ST	UR-KM1116SD	110+160	130	2CB-210	

UR-KM (Center Drill)

Code	Diameter (mm)	Overall Length (mm)	Core Drill Size (mm)	
2CB-210	10.0	210	60~170	



UR-KM (Body)

Code	Diameter (mm)	
UR-M110B	110	
UR-KM160B	160	

UR21 (110mm Shank Assembly)

Code	Shank	
2CB-110FST	Straight	
2CB-110FSD	SDS	

F

SERIES **Compound Material**



1 Shank
1-touch Body



Adopts unique double blade features, with the inner-blade preceding the outer-blade, therefore, boring through material such as; metallic siding, stainless steel/wood siding as well as compound materials (metallic plate + insulating material + plywood) at one go is possible.
Swarf is efficiently discharged in boring wooden materials. It is also possible to cut nails and bore through several layers of thin steel plates.

STEEL / ALUMINUM

METAL SIDING PANEL

2x4's including nails

WOOD / PLYWOOD

PVC / FRP

PLASTERBOARD

STAINLESS STEEL

Applicable Electric Tool Electric Drill / Percussion Drill (rotating mode)

UR-KF (Set for Ventilating Fan)

Code		Diameter (mm)	Effective Length (mm)	Center Drill (code)	
ST-Shank	SDS-Shank				
UR-KF1116ST	UR-KF1116SD	110+160	130	2CB-W200	

UR-KF (Center Drill)

Code	Diameter (mm)	Overall Length (mm)	Core Drill Size (mm)	
2CB-W200	9.5	210	60~170	



UR-KF (Body)

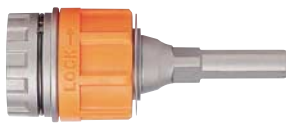
Code	Diameter (mm)	
UR-F110B	110	
UR-KF160B	160	

UR21 (110mm Shank Assembly)

Code	Shank	
2CB-110FST	Straight	
2CB-110FSD	SDS	

Shank Assembly

UR21 Shank Assembly (Straight Shank)

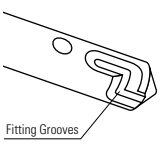
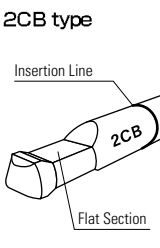
Code	Diameter (mm)	Shank Diameter (mm)	Appearance
UR25/55FST	25	10/13	Replacement bits for various sizes (25 - 55 mm) can all be used with a single type of flange shank. 
	29	(Straight)	
	32		
	35		
	38		
	40		
	45		
	50		
	55		
2CB60FST	60	13	2CB Shank All bodies from vibrating types to multis can be used with a single flange shank provided the bore size is the same. 
2CB65FST	65	(Straight)	
2CB70FST	70		
2CB75FST	75		
2CB80FST	80		
2CB85FST	85		
2CB90FST	90		
2CB95FST	95		
2CB100FST	100		
2CB105FST	105		
2CB110FST	110		
2CB115FST	115		
2CB120FST	120		
2CB130FST	130		
2CB150FST	150		
2CB155FST	155		
2CB160FST	160		
2CB170FST	170		

UR21 Shank Assembly (SDS Shank)

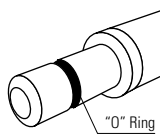
Code	Diameter (mm)	Shank Diameter (mm)	Appearance
UR25/55FSD	25	10	Replacement bits for various sizes (25 - 55 mm) can all be used with a single type of flange shank. 
	29	(SDS-plus)	
	32		
	35		
	38		
	40		
	45		
	50		
	55		
2CB60FSD	60	10	2CB Shank All bodies from vibrating types to multis can be used with a single flange shank provided the bore size is the same. 
2CB65FSD	65	(SDS-plus)	
2CB70FSD	70		
2CB75FSD	75		
2CB80FSD	80		
2CB85FSD	85		
2CB90FSD	90		
2CB95FSD	95		
2CB100FSD	100		
2CB105FSD	105		
2CB110FSD	110		
2CB115FSD	115		
2CB120FSD	120		
2CB130FSD	130		
2CB150FSD	150		
2CB155FSD	155		
2CB160FSD	160		
2CB170FSD	170		

Center Drill/Center Pin

UR21 Center Drill

Compatible Diameter	Code	Compatible Body			Appearance	
25~55mm	URCD-T250	Percussion ALC Multi	V A M	Regular		
	URCDH250	Compound Material	F	Regular		
	URCDH140	Compound Material	FS	Short		
60~170mm	2CB-210	Percussion ALC Multi	V A M	Regular		
	2CB-260	Percussion	VL	Long		
	2CB-160	Multi	MS	Short		
	2CB-W200	Compound Material	F	Regular		
	2CB-150	Compound Material	FS	Short		

UR21 Center Pin

Compatible Diameter	Code	Compatible Body			Appearance	
25~55mm	URCP-230	Dry Diamond	D	Regular		
60~170mm	DBP-Nb.1	Dry Diamond	D	Regular		
60~80mm	DBP-Nb.2L	Dry Diamond	DL	Long		

Guide Plate

UR-F (Standard Accessory)

Code	Compatible Diameter (mm)		Appearance
GP-F25	25		
GP-F29	29		
GP-F32	32		
GP-F35	35		
GP-F38	38		
GP-F40	40		
GP-F45	45		
GP-F50	50		
GP-F55	55		

UR-D (Standard Accessory)

Code	Compatible Diameter (mm)		Appearance
GP-D25	25		
GP-D29	29		
GP-D32	32		
GP-D35	35		
GP-D38	38		
GP-D40	40		
GP-D45	45		
GP-D50	50		
GP-D55	55		



* Please check whether a Straight or SDS shank is required before ordering.

UR21 SET									
Dia (mm)	Regular					Long		Short	
	Percussion UR-V	ALC UR-A	Multi UR-M	Dry Diamond UR-D	Compound UR-F	Percussion UR-VL	Dry Diamond UR-DL	Multi UR-MS	Compound UR-FS
25	○	○	○	○	○				○
29	○	○	○	○	○				○
32	○	○	○	○	○				○
35	○	○	○	○	○				○
38	○	○	○	○	○				○
40	○	○	○	○	○				○
45	○	○	○	○	○				○
50	○	○	○	○	○				○
55	○	○	○	○	○				○
60	○	○	○	○	○	○	○	○	○
65	○	○	○	○	○	○	○	○	○
70	○	○	○	○	○	○	○	○	○
75	○	○	○	○	○	○	○	○	○
80	○	○	○	○	○	○	○	○	○
85	○	○	○		○			○	○
90	○	○	○	○	○			○	○
95	○	○	○		○			○	○
100	○	○	○	○	○			○	○
105	○	○	○	○	○			○	○
110	○	○	○	○	○			○	○
115	○	○	○		○			○	○
120	○	○	○	○	○			○	○
130	○	○	○		○			○	○
150	○	○	○		○			○	○
155	○	○	○		○				○
160	○	○	○		○			○	○
170	○	○	○		○			○	○
	Dia: 25-55mm = Effective Length: 170mm / Dia: 60-170mm = Effective Length: 130mm					Effective Length: 200 mm		Effective Length: 60 mm	

Center Drill / Center Pin		
Size	Code (Conformity Body)	
25 55	URCD-T250 (Regular)	V A M
	URCD-H250 (Regular)	F
	URCD-H140 (Short)	FS
	URCP-230 (Regular)	D
60 170	2CB-210 (Regular)	V A M
	2CB-260 (Long)	vL
	2CB-160 (Short)	MS
	2CB-W200 (Regular)	F
	2CB-150 (Short)	FS
	DBP-No.1 (Regular)	D
60 80	DBP-No.2L (Long)	DL

UR21 BODY									
Dia (mm)	Regular					Long		Short	
	Percussion UR-V	ALC UR-A	Multi UR-M	Dry Diamond UR-D	Compound UR-F	Percussion UR-VL	Dry Diamond UR-DL	Multi UR-MS	Compound UR-FS
25B	○	○	○	○	○				○
29B	○	○	○	○	○				○
32B	○	○	○	○	○				○
35B	○	○	○	○	○				○
38B	○	○	○	○	○				○
40B	○	○	○	○	○				○
45B	○	○	○	○	○				○
50B	○	○	○	○	○				○
55B	○	○	○	○	○				○
60B	○	○	○	○	○	○	○	○	○
65B	○	○	○	○	○	○	○	○	○
70B	○	○	○	○	○	○	○	○	○
75B	○	○	○	○	○	○	○	○	○
80B	○	○	○	○	○	○	○	○	○
85B	○	○	○		○			○	○
90B	○	○	○	○	○			○	○
95B	○	○	○	○	○			○	○
100B	○	○	○	○	○			○	○
105B	○	○	○	○	○			○	○
110B	○	○	○	○	○			○	○
115B	○	○	○		○			○	○
120B	○	○	○	○	○			○	○
130B	○	○	○		○			○	○
150B	○	○	○		○			○	○
155B	○	○	○		○				○
160B	○	○	○		○			○	○
170B	○	○	○		○			○	○

Shank Assembly		
Code		
Straight Shank	SDS Shank	
UR25/55FST	UR25/55FSD	
2CB60FST	2CB60FSD	
2CB65FST	2CB65FSD	
2CB70FST	2CB70FSD	
2CB75FST	2CB75FSD	
2CB80FST	2CB80FSD	
2CB85FST	2CB85FSD	
2CB90FST	2CB90FSD	
2CB95FST	2CB95FSD	
2CB100FST	2CB100FSD	
2CB105FST	2CB105FSD	
2CB110FST	2CB110FSD	
2CB115FST	2CB115FSD	
2CB120FST	2CB120FSD	
2CB130FST	2CB130FSD	
2CB150FST	2CB150FSD	
2CB155FST	2CB155FSD	
2CB160FST	2CB160FSD	
2CB170FST	2CB170FSD	



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SERIES CATALOGUE

UR 21

CORE DRILLS

HOLE SAWS

CONCRETE DRILLS

ANCHORS



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Tài liệu được tổng hợp bởi đội ngũ kỹ thuật của **NPOWER** Bản quyền nội dung thuộc về công ty **Unika**

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