



# Hakken



**PROFESSIONAL  
SMART  
SOLUTIONS**

CONSEC CORPORATION



CONSEC CORPORATION

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# CONSEC



## About CONSEC CORPORATION

**HAKKEN** is a brand of **CONSEC CORPORATION**.

CONSEC CORPORATION, established in 1967, is Japanese leading manufacturer of machinery and tools for concrete coring, wall sawing and wire sawing. Our products are accumulated so much technical know-how for half a century. Furthermore, we have contractor department in house and feedback the product reliability and demand from the user point of view in order to endlessly improve the machine and find the new innovative idea.

Our mission is to contribute prosperity of society by creating innovative product and brand-new technology in the building and civil engineering market heeding safety and environment.









HAKKEN brand products play an active part in civil engineering and construction site all over the world.

Coring P.04	Core Drill	Drill Head	P.06	
		Drill Motor	P.10	
		Hydraulic Core Drill	P.13	
	Automatic Feeding System EHAC	EHAC-110 series	P.14	
		Options		
	Core Drill Options	Standard Pole Base, Angle Adjustable Pole Base, Swiveling Pole Base	P.15	
		Water Collector, Water Collector Fitting	P.16	
		Water Collector, Ceiling Water Collector	P.17	
		Stitch Drill Attachment LA, Speed Handle, Centering Plug	P.18	
		Flush Coring Adaptor, Core drill for narrow space	P.19	
		Vacuum Pump, Vacuum Pad, Transformer, Tube Wrench (Including handle)	P.20	
		Others	P.21	
	Diamond Core Bit	Wet core bit (One body type)	P.22	
Wet and Dry core bit(Three pieces type)		P.24		
Dry core drilling system		P.26		
Dry core bit		P.27		
Dry Hand Core Drill	Dry Hand Core Drill	P.28		
Cutting P.29	Wall Cutter	Wall Cutter	P.30	
		Wall Cutter Options	P.34	
		Wall Cutter Diamond Blade (Wet use)	P.35	
		Dry Wall Sawing System	P.36	
	Plunge Cutter	Plunge Cutter	P.37	
	Wire Saw	Wire Saw	P.38	
		Wire Saw Options	P.41	
		Dry Wire Sawing System	P.44	
		Dry Wire Sawing Options	P.45	
		Electric Wire Saw, Electric Wire Saw Options	P.46	
		Utility Pole Wire Saw	P.47	
	Hydraulic Unit	Compact Hydraulic Unit, Hydraulic Unit, Hydraulic Unit Options	P.48	
	Technical data			P.49

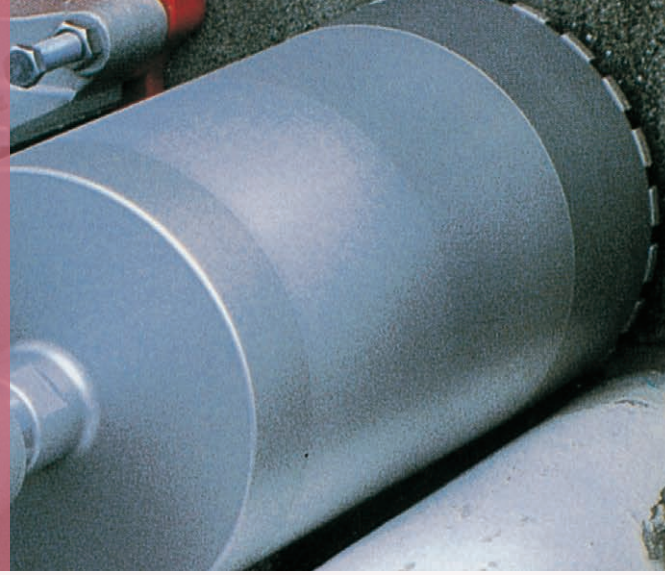
## Features of core drill & cutter

- 
**Double insulation**  
 Provides further safety for electric shock by insulating accessible tool enclosure from conductive parts by two different insulating systems.
- 
**Self-adjust**  
 Slide plate type drill carriage assy. can be set and slide on the pole base with light force. After set up it, no play between drill carriage assy and pole base.
- 
**Wet**  
 Water needed
- 
**Swiveling cock**  
 360 degree can be positioned, prevents water hose twist or bending.
- 
**Roller slide drill carriage assy.**  
 Easy to feed handle and precise drilling is possible.
- 
**Dry**  
 Water not needed
- 
**Breakage prevention Torque Limiter**  
 Prevent gear box breakage due to the core bit stuck.
- 
**One-touch handle**  
 The handle can be attached both left and right side without any tool.
- 
**Split carbon**  
 Split-faced carbon brush has endurance to the overcurrent under overload and longer life carbon brush.
- 
**Breakage prevention Clutch**  
 Prevent gear box breakage due to the core bit stuck. Clutch adjustment can be done from outside of gear box.
- 
**Spring Handle**  
 Spring-loaded feeding handle allows handle to return to the original mid-position when released, regripping is easy.
- 
**Hydraulic motor**  
 Hydraulic unit must be prepared.
- 
**Circuit protector switch**  
 Circuit protector detect the overload and shut down, prevent motor burnout.
- 
**Pole Base**  
 The pole base column size is different depending on the core drill. 49mm, 59mm, 74mm
- 
**Air motor**  
 Compressor unit must be prepared.
- 
**Double speed, Triple speed**  
 RPM can be changed to suit drilling hole size.
- 
**Flange water supply**  
 Water is efficiently supplied to the diamond blade segment through spindle, to both flanges and along blade surface.
- 
**Torque converter**  
 With integrated torque converter, cutting load can be controlled constant.
- 
**Automatic cutting**  
 Wall cutter is operated by automatic feeding system. Cutting of reinforcing steel is easy.

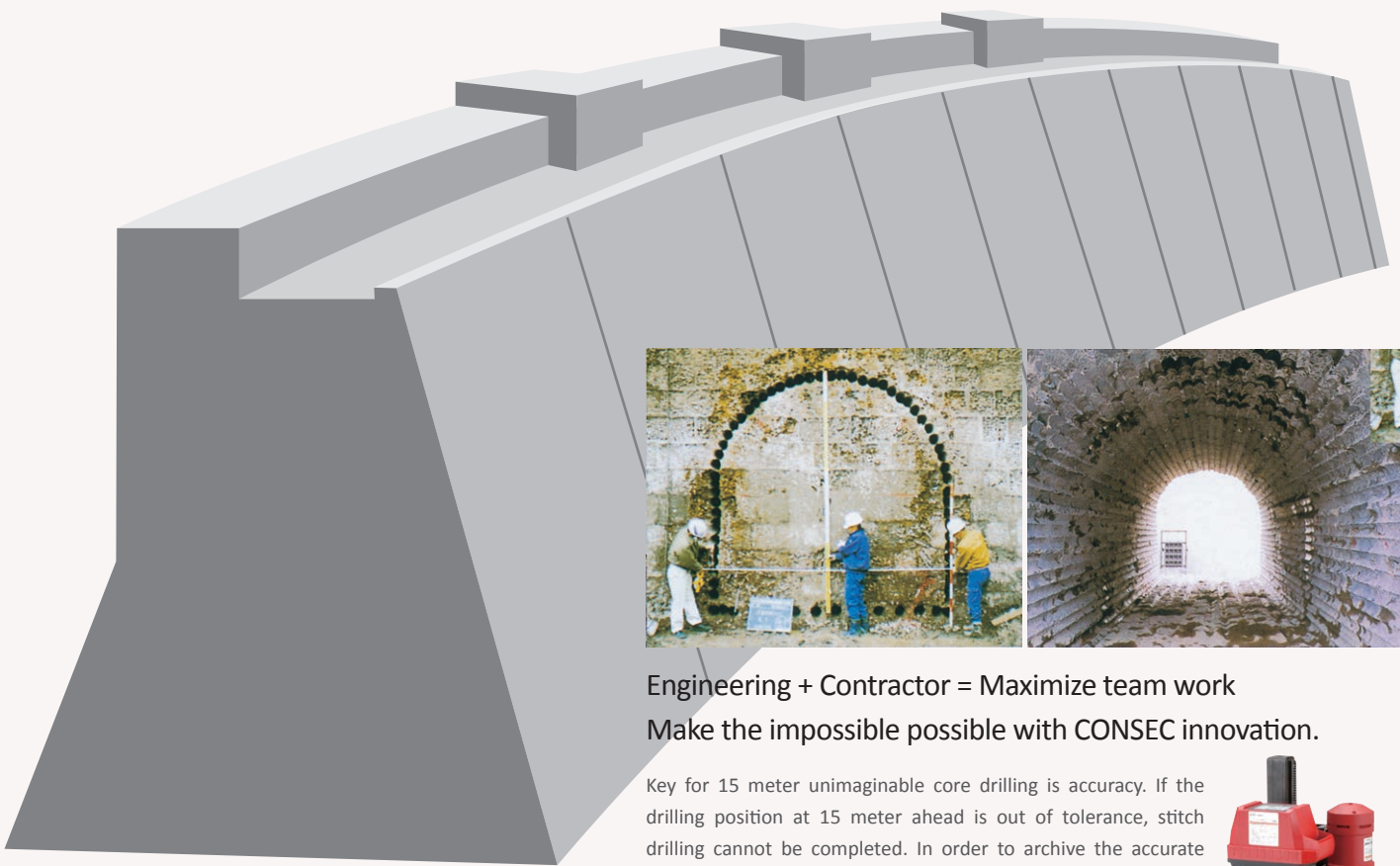


# Coring

Spin the diamond core bit by high speed, any material of structure can be drill out by no vibration and low noise.



**Opening 4mX4m tunnel on the 15m thick dam bottom wall by no vibration !!!**



Engineering + Contractor = Maximize team work  
Make the impossible possible with CONSEC innovation.

Key for 15 meter unimaginable core drilling is accuracy. If the drilling position at 15 meter ahead is out of tolerance, stitch drilling cannot be completed. In order to archive the accurate drilling, enough power core drill and well sharpen core bit must be used. In particular, drill power is needed to spin the core bit under the heavy friction between core bit barrel and drilling wall. We CONSEC have full range of core drill from super compact to heavy duty machine. Heavy duty model has outstanding power!!

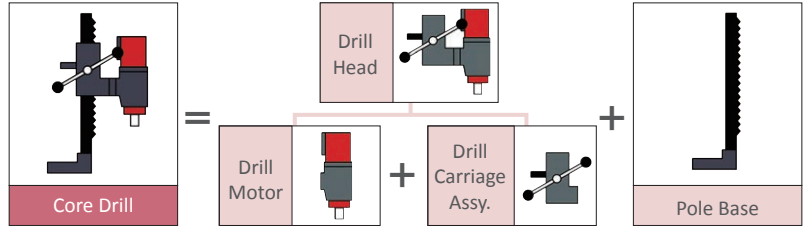


In order to drill accurate hole, the precise machine setting is essential. The special jigs are designed for rounded dam wall shape. High reputation NOKOBA bit which is durable and high drilling performance is used and ideal drilling speed is controlled by automatic feeding system. All professional factor leads to the success for the construction.



# Core Drill

(Rig Type)



### Power Transformer

▶P.20

### Automatic Feeding System

▶P.14

### Water Tank

▶P.21

### Drill Head

▶P.6~P.9

Drill Motor ▶P.10~P.12

Drill Carriage Assy. ▶P.10~P.12

Spacer

### Pole Base

▶P.15

Standard Pole Base

Swiveling Pole Base

Angle Adjustable Pole Base

### Extension Rod • Adapter

▶P.21

Adapter

Extension Rod

### Diamond Core Bit

▶P.22~P.25, 27

Diamond Core Bit

### Water Collector

▶P.16-17

Water Collector

Water Collector Fitting

### Others

▶P.20-21

Tube Wrench

Core Extracting Wire

### Vacuum Pad

▶P.20

Vacuum Pad

Vacuum Pump

Coring

Core Drill (Rig type)

Auto Feed EHAC

Core Drill Options

Diamond Core Bit

Dry Hand Core Drill

Cutting

Wall Cutter

Plunge Cutter

Wire Saw

Hydraulic Unit





# Drill Head

Coring

Core Drill  
(Rig type)

Auto Feed  
EHAC

Core Drill  
Options

Diamond  
Core Bit

Dry Hand  
Core Drill

Cutting

Wall Cutter

Plunge Cutter

Wire Saw

Hydraulic  
Unit

## Drill Head SPJ-122 series

Super light weight,  
compact single speed  
Drill Head



Core Bit, Water Collector sold separately

		1 Drill Head Specification			
Model Name		SPJ-122Hi	SPJ-122Ax	SPJ-122He-U	SPJ-122Ct
Power Source		230V		110V	
Rated Current		6.1A		14A	
Maximum Output		1,500W			
No-load speed		950min <sup>-1</sup>			
Maximum bit diameter		120mm			
Spindle thread		G1/2"	A-rod	G1/2" + 1-1/4"-7UNC	C-rod
Size	W	177mm			
	L	252mm			
	H	283mm	307mm	316mm	283mm
Weight (Drill Head only)		5.0kg		4.9kg	
Safety Certification		CE	-	CE	-
Drill Carriage Assy.		Included			
Pole Base		Not included, SB-401 and AB-401 series can be combined.			SB-401-580 Included

		2 Applicable Pole Base (Water collector Fitting included)	
Model name		SB-401-580	SB-401-700
Travel length		331mm	451mm
Weight		3.2kg	3.6kg





# Drill Head

## Drill Head SPF-181 series

Light weight, compact  
2 speed Drill Head



Core Bit, Water Collector sold separately



1 Drill Head Specification	
Model Name	SPF-181Uhzi
Power Source	230V
Rated Current	7.3A
Maximum Output	2,100W
No-load speed	700min <sup>-1</sup> / 1,250min <sup>-1</sup>
Maximum bit diameter	180mm
Spindle thread	G1/2" + 1-1/4"-7UNC
Size	W 212mm
	L 327mm
	H 423mm
Weight	10.2kg
Safety Certification	CE
Drill Carriage Assy.	Included
Pole Base	Not Included, following Pole Base can be combined.

## Common Option 49mm Pole Base

2 Applicable Pole Base (Water collector Fitting included)						
Model name	SB-493-600	SB-493-700	SB-491-810	SB-491-1000	SB-494-1000	SB-494-1035
Travel length	315mm	415mm	505mm	695mm	695mm	695mm
Weight	4.7kg	5.0kg	7.5kg	8.5kg	9.1kg	9.7kg

Coring

Core Drill  
(Rig type)

Auto Feed  
EHAC

Core Drill  
Options

Diamond  
Core Bit

Dry Hand  
Core Drill

Cutting

Wall Cutter

Plunge Cutter

Wire Saw

Hydraulic  
Unit





# Drill Head

## Drill Head SPN-203 series

Middle class single speed Drill Head  
Light weight, professional-use!!



Core Bit, Water Collector sold separately



1 Drill Head Specification			
Model Name	SPN-203Ui	SPN-203Uw	SPN-203At
Power Source	230V	120V	110V
Rated Current	8.7A	15A	15A
Maximum Output	2,400W		
No-load speed	710min <sup>-1</sup>	700min <sup>-1</sup>	760min <sup>-1</sup>
Maximum bit diameter	205mm(8")		
Spindle thread	1-1/4"-7UNC		A-rod
Size	W	247mm	
	L	328mm	
	H	419mm	413mm
Weight	11.3kg	11.0kg	10.8kg
Safety Certification	CE	-	-
Drill Carriage Assy.	Included		
Pole Base	Not Included, following Pole Base can be combined.		

## Common Option 49mm Pole Base

2 Applicable Pole Base (Water collector Fitting included)				
Model name	SB-491-810	SB-491-1000	SB-494-1000	SB-494-1035
Travel length	505mm	695mm	695mm	695mm
Weight	7.5kg	8.5kg	9.1kg	9.7kg

Coring

Core Drill  
(Rig type)

Auto Feed  
EHAC

Core Drill  
Options

Diamond  
Core Bit

Dry Hand  
Core Drill

Cutting

Wall Cutter

Plunge Cutter

Wire Saw

Hydraulic  
Unit





# Drill Head

## Drill Head SPZ-253 series

Middle class 2 speed Drill Head.  
Maximum drilling diameter 254mm.

Focused small diameter with deep hole used for seismic retrofit, high speed model SPZ-053 series is available!!



		1 Drill Head Specification		
Model Name		SPZ-253Uzi	SPZ-253U2w	SPZ-253A2t
Power Source		230V	120V	110V
Rated Current		8.7A	18.5A	20A
Maximum Output		2,400W		
No-load speed (LOW/Hi)		490/1,150min <sup>-1</sup>		520/1,200min <sup>-1</sup>
Maximum bit diameter		254mm(10")		
Spindle thread		1-1/4"-7UNC		A-rod
Size	W	254mm		
	L	353mm		
	H	456mm		446mm
Weight		13.6kg	12.4kg	
Safety Certification		CE	-	-
Drill Carriage Assy.		Included		
Pole Base		Not Included, following Pole Base can be combined.		

\* SPZ-053 series no-load speed, Low: 1,400 / High: 2,100min<sup>-1</sup>

Core Bit, Water Collector, Water Collector Fitting sold separately

		2 Applicable Pole Base (Water collector Fitting included)			
Model name		SB-491-810	SB-491-1000	SB-494-1000	SB-494-1035
Travel length		505mm	695mm	695mm	695mm
Weight		7.5kg	8.5kg	9.1kg	9.7kg

### <SPZ series high speed gear combination>

Model name	No-load speed
SPZ high speed model	1,100/ 740min <sup>-1</sup>
	2,100/ 950min <sup>-1</sup>
	2,600/1,100min <sup>-1</sup>
	2,600/1,700min <sup>-1</sup>

Coring

Core Drill (Rig type)

Auto Feed EHAC

Core Drill Options

Diamond Core Bit

Dry Hand Core Drill

Cutting

Wall Cutter

Plunge Cutter

Wire Saw

Hydraulic Unit





# Drill Motor

Coring

Core Drill (Rig type)

Auto Feed EHAC

Core Drill Options

Diamond Core Bit

Dry Hand Core Drill

Cutting

Wall Cutter

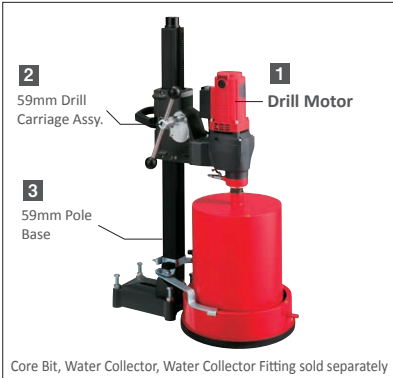
Plunge Cutter

Wire Saw

Hydraulic Unit

## Drill Motor SPM-303series

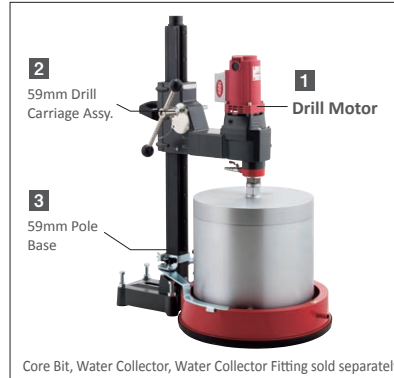
## Drill Motor SPO-400series



2 speed Drill Motor for professional!!



Core Bit, Water Collector, Water Collector Fitting sold separately



3 speed powerful Drill Motor for professional!!



Core Bit, Water Collector, Water Collector Fitting sold separately

1 Drill Motor Specification			
Model Name	SPM-303Uzi	SPM-303Uzw	SPM-303Uze
Power Source	230V	120V	110V
Rated Current	8.7A	20A	18.2A
Maximum Output	2,400W		
No-load speed (LOW/HI)	370/880min <sup>-1</sup>	400/950min <sup>-1</sup>	390/920min <sup>-1</sup>
Maximum bit diameter	305mm(12")		
Spindle thread	1-1/4"-7UNC		
Size	W	148mm	
	L	182mm	179mm
	H	452mm	456mm
Weight	11.2kg	10.5kg	
Safety Certification	CE	-	CE
Drill Carriage Assy.	Not included, CL-593S and CL-593E can be combined.		
Pole Base	Not Included, following Pole Base can be combined.		

1 Drill Motor Specification			
Model Name	SPO-400A3t	SPO-400U3w	
Power Source	120V		
Rated Current	15A	24A	
Maximum Output	3,600W		
No-load speed (LOW/HI)	300/700/950min <sup>-1</sup>		
Maximum bit diameter	406mm(16")		
Spindle thread	A-rod	1-1/4"-7UNC	
Size	W	146mm	241mm
	L	184mm	393mm
	H	472mm	483mm
Weight	11.4kg	16.9kg	
Safety Certification	-		
Drill Carriage Assy.	Not included, CL-593S and CL-593E can be combined.	Included	
Pole Base	Not Included, following Pole Base can be combined.		
Spacer type	Special Spacer 59mm (Thickness 30mm)		

## Common Option 59mm Drill Carriage Assy.

PAT.5142832

2 59mm Drill Carriage Assy.				
Model name	CL-592C	CL-592EC	CL-593S	CL-593E
Mechanism	Slide plate type		Roller slide type	
Autofeed	N/A	Yes	Yes	Yes
Weight	5.2kg	5.9kg	5.4kg	5.6kg
Standard Accessories	Fixing bolt for drill motor Parallel Key 10x8x115mm Single-ended wrench 13mm Hex. Bar wrench 4mm			

4 59mm Spacer			
Qty	1pc	2pcs	3pcs
Thickness	30mm		
Weight	0.5kg	1.0kg	1.5kg
Standard Accessories	Parallel Key Fixing bolt		

## Common Option 59mm Pole Base

3 59mm Pole Base						
Model name	SB-594-800	SB-594-900	SB-594-1000	SB-594-1035	SB-594-1235	SB-594-1535
Travel length	424mm	524mm	624mm	624mm	824mm	1,124mm
Weight	11.1kg	11.9kg	12.7kg	13.4kg	15.0kg	17.5kg





# Drill Motor

## Drill Motor SPE-400series

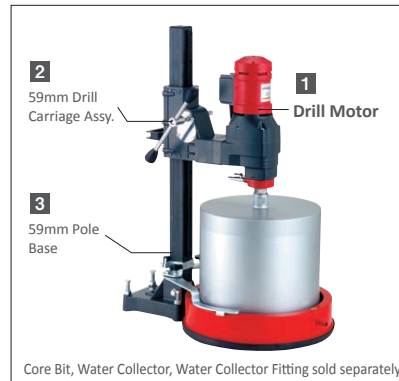


3 speed Drill Motor for professional!!



Core Bit, Water Collector, Water Collector Fitting sold separately

## Drill Motor SPX-401series



Heavy-duty 3 speed Drill Motor. Professional-use



Core Bit, Water Collector, Water Collector Fitting sold separately

1 Drill Motor Specification	
Model Name	SPE-400U3x      SPE-400A3x
Power Source	230V
Rated Current	11A
Maximum Output	3,600W
No-load speed (LOW/MIDDLE/HI)	300/800/1,400min <sup>-1</sup>
Maximum bit diameter	406mm(16")
Spindle thread	1-1/4"-7UNC      A-rod
Size	W      146mm
	L      194mm      174mm
	H      482mm      472mm
Weight	12.4kg      12kg
Spacer type	Special Spacer 59mm (Thickness 30mm)
Spacer Qty (Not used water collector)	Drilling Dia. Over 370mm 1 pc needed
Safety Certification	-
Drill Carriage Assy.	Not included, CL-593S and CL-593E can be combined.
Pole Base	Not Included, following Pole Base can be combined.

1 Drill Motor Specification	
Model Name	SPX-401U3x      SPX-401A3x
Power Source	230V
Rated Current	15.8A
Rated input	3,630W
No-load speed (LOW/MIDDLE/HI)	300/800/1,400min <sup>-1</sup>
Maximum bit diameter	406mm(16")
Spindle thread	1-1/4"-7UNC      A-rod
Size	W      151mm
	L      212mm
	H      505mm      493mm
Weight	16.1kg      15.4kg
Spacer type	Special Spacer 59mm (Thickness 30mm)
Spacer Qty (Not used water collector)	Over 370mm 1 pc needed
Safety Certification	-
Drill Carriage Assy.	Not included, CL-593S and CL-593E can be combined.
Pole Base	Not Included, following Pole Base can be combined.

## Common Option 59mm Drill Carriage Assy.

PAT.5142832

		2 59mm Drill Carriage Assy.			
Model name		CL-592C	CL-592EC	CL-593S	CL-593E
Mechanism		Slide plate type		Roller slide type	
Autofeed		N/A	Yes	Yes	Yes
Weight		5.2kg	5.9kg	5.4kg	5.6kg
Standard Accessories		Fixing bolt for drill motor Parallel Key 10x8x115mm Single-ended wrench 13mm Hex. Bar wrench 4mm			

		4 59mm Spacer		
Qty		1pc	2pcs	3pcs
Thickness		30mm		
Weight		0.5kg	1.0kg	1.5kg
Standard Accessories		Parallel Key Fixing bolt		

## Common Option 59mm Pole Base

		3 59mm Pole Base					
Model name		SB-594-800	SB-594-900	SB-594-1000	SB-594-1035	SB-594-1235	SB-594-1535
Travel length		424mm	524mm	624mm	624mm	824mm	1,124mm
Weight		11.1kg	11.9kg	12.7kg	13.4kg	15.0kg	17.5kg

Coring

Core Drill (Rig type)

Auto Feed EHAC

Core Drill Options

Diamond Core Bit

Dry Hand Core Drill

Cutting

Wall Cutter

Plunge Cutter

Wire Saw

Hydraulic Unit



# Drill Motor

Coring

Core Drill (Rig type)

Auto Feed EHAC

Core Drill Options

Diamond Core Bit

Dry Hand Core Drill

Cutting

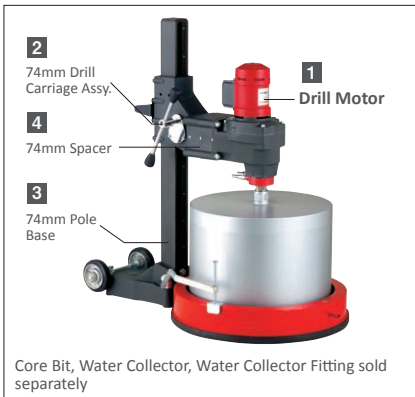
Wall Cutter

Plunge Cutter

Wire Saw

Hydraulic Unit

## Drill Motor SPX-601 series



Heavy-duty 2 speed Drill Motor for large diameter. Professional-use!



### 1 Drill Motor Specification

Model name	SPX-601U2x	SPX-601A2x
Power source	230V	
Rated current	15.8A	
Rated input	3,630W	
No-load speed (LOW/HI)	100/200min <sup>-1</sup>	
Maximum bit diameter	600mm(24")	
Spindle thread	1-1/4"-7UNC	A-rod
Size	W	187mm
	L	225mm
	H	504mm
Weight	19.8kg	19.1kg
Spacer type	Special Spacer 74mm (Thickness 52mm)	
Spacer quantity	Up to 480mm	0 pc
	Up to 590mm	1 pc
	600 to 690mm	2 pcs
Safety Certification	-	
Drill Carriage Assy.	Not included, CL-743 and CL-743E can be combined.	
Pole Base	Not Included, SB-741 and RB-741 series can be combined.	

## Common Option 74mm Drill Carriage Assy.

2 74mm Drill Carriage Assy.		
Model name	CL-743	CL-743E
Mechanism	Slide Plate type	
Autofeed mounting	Impossible	Possible
Weight	7.3kg	7.8kg
Applicable Drill Motor	SPX-24 series	
Applicable Pole Base	74mm Pole Base	
Standard Accessories	Single-ended wrench 13mm, Hex. Bar wrench 4mm	

4 74mm Spacer		
Number of spacer	2 pcs	4 pcs
Thickness	52mm	
Weight	3.0kg	5.7kg
Standard Accessories	Threaded rod, Hex. Nut, Parallel Key	

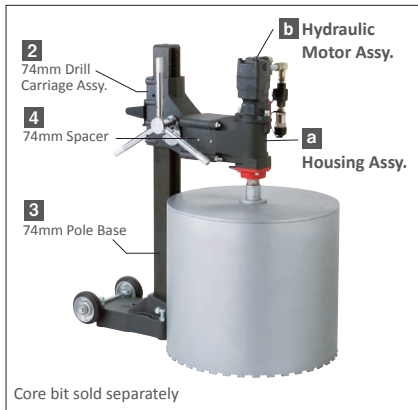
## Common Option 74mm Pose Base.

3 74mm Pole Base		
Type	Standard	Swiveling Pole Base
Model name	SB-741-1050	RB-741-1085
Travel length	592mm	
Weight	19kg	28kg




# Hydraulic Core Drill


## Hydraulic Core Drill SPU-A series



Core bit sold separately  
Max. Drilling Diameter  $\phi$ 800 robust Pole Base







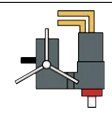
a Housing Assy.		
	Model name	SPU-A
	Weight	8.3kg
	Standard accessories	Single-ended wrench 19,36,46mm Ratchet wrench 21×26mm Parallel Key 10×8×152mm Drill Carriage fixing bolt M12×45

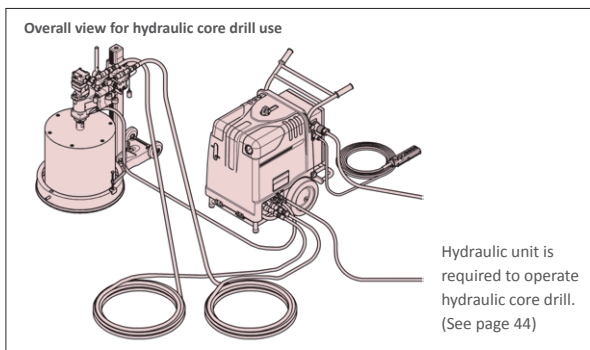
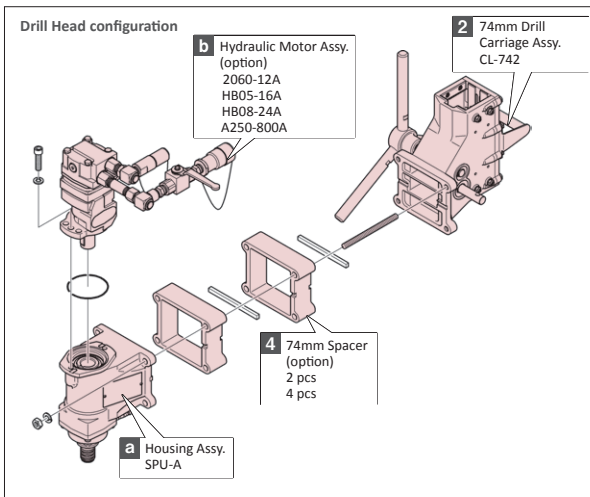
b Hydraulic Motor Assy.					
	Model name	2060-12A	HB05-16A	HB08-24A	A250-800A
	Drill head model name	SPU-12A	SPU-16A	SPU-24A	SPU-800A
	Weight	12.0kg	13.0kg	13.3kg	14.0kg
	Standard Accessories	O-ring, Hex. Bar Wrench 10mm Fixing bolt for housing assy.			

\* Hydraulic Wall Cutter CHW-50A on page 30 uses same hydraulic motor.

## Common Option 74mm Drill Carriage Assy.

<Configuration diagram with 74mm Drill Carriage Assy.>

2 74mm Drill Carriage	b Hydraulic Motor Assy.	a Housing Assy.	4 74mm Spacer	Max. Core Bit Dia.	Autofeed	Assembled figure	Drill Head model name
				Not needed	$\phi$ 406		SPU-12A
				Not needed	$\phi$ 406		SPU-16A
				2 pcs can be assembled	$\phi$ 600		SPU-24A
				4 pcs can be assembled	$\phi$ 800		SPU-800A



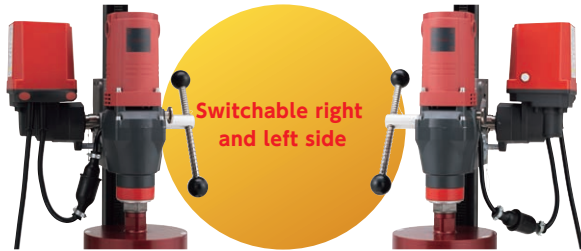
Hydraulic unit is required to operate hydraulic core drill. (See page 44)

Assembled Drill Head specifications							
Drill Head model name	SPU-12A	SPU-16A	SPU-24A	SPU-800A			
a Housing model name	SPU-A						
b Hydraulic Motor model name	2060-12A	HB05-16A	HB08-24A	A250-800A			
2 Applicable Drill Carriage Assy.	74mm Drill Carriage Assy. CL-742						
4 Spacer qty	0	1	2	3	4		
Rated Pressure	21MPa						
Rated torque	19daN-m	24daN-m	34daN-m	68daN-m			
Max. discharge	54litter/min	79litter/min	95litter/min				
Max. rotation speed	850min <sup>-1</sup>	898min <sup>-1</sup>	746min <sup>-1</sup>	389min <sup>-1</sup>			
(Use with E-1524 50/60Hz)	673/807min <sup>-1</sup>	484/580min <sup>-1</sup>	339/407min <sup>-1</sup>	169/203min <sup>-1</sup>			
(Use with E-2002A 50/60Hz)	748/850min <sup>-1</sup>	538/647min <sup>-1</sup>	377/453min <sup>-1</sup>	188/226min <sup>-1</sup>			
Core bit	Min.	2"(53mm)	4"(110mm)	8"(205mm)	12"(305mm)		
	Max.	12"(305mm)	16"(406mm)	20"(500mm)	24"(600mm)	28"(700mm)	32"(800mm)
Core bit connection	A rod screw						
Applicable core bit	A-rod screw: Three pieces type core bit						
	A-rod screw: One body thin core bit						
Size	W	328mm	357mm	357mm	329mm		
	L	466mm	466mm	518mm	570mm	622mm	674mm
	H	450mm	474mm	480mm	483mm		
Weight	30.0kg	31.0kg	32.5kg	33.5kg	35.5kg	36.5kg	

- SPU-A series has to be chosen necessary options and finish the core drill.
- With preparing several hydraulic motor, it's possible to drill optimal rotation speed.

# EHAC-110 series

New EHAC is mountable both right and left side of core drill with Drill Carriage Assy S version.



- Automatic feeding system for core drilling machine.
- Drill Assist helps big diameter drilling with slow spin.
- Core drill load setting is adjustable.
- Feed direction can be switched.
- Backlight helps operation in dark place.
- After complete drilling, feeding and drilling automatically stop.
- Integrated reinforced steel sensor function.



S version  
EHAC can be mounted on both right and left side.

Specification		
Model name	EHAC-110Sx	EHAC-110Sw
Power supply (Single phase)	AC230V 50Hz/60Hz	AC110-120V 50Hz/60Hz
Max power consumption	76.8W	
Max feeding speed	CL-49 series	Approx. 177mm/min
	CL-59 series	Approx. 118mm/min
	CL-74 series	Approx. 139mm/min
Applicable core drill machine	SPF, SPN, SPZ, SPM, SPO, SPX	
Range of motor rated current	5~16A	5~28A
Reinforced steel sensor working core bit range	25~77mm (3")	
Size	202x194x272mm	
Weight	6.7kg	6.5kg
Double speed model is available. Max feeding speed CL-49 series: Approx. 283mm/min CL-59 series: Approx. 189mm/min		



E version  
Conventional hook type

Specification		
Model name	EHAC-110Ax	EHAC-110Aw
Power supply (Single phase)	AC230V 50Hz/60Hz	AC110-120V 50Hz/60Hz
Max power consumption	76.8W	
Max feeding speed	CL-49 series	Approx. 177mm/min
	CL-59 series	Approx. 118mm/min
	CL-74 series	Approx. 139mm/min
Applicable core drill machine	SPF, SPN, SPZ, SPM, SPO, SPX	
Range of motor rated current	5~16A	5~28A
Reinforced steel sensor working core bit range	25~77mm (3")	
Size	202x166x289mm	
Weight	6.6kg	6.4kg
Double speed model is available. Max feeding speed CL-49 series: Approx. 283mm/min CL-59 series: Approx. 189mm/min		

## Options

**EHAC STOPPER**

Attach to the drill stand and set the automatic stop position.

**EHAC ONE-TOUCH HANDLE**

Handle for mounting on EHAC attachment.

Coring

Core Drill (Rig type)

Auto Feed EHAC

Core Drill Options

Diamond Core Bit

Dry Hand Core Drill

Cutting

Wall Cutter

Plunge Cutter

Wire Saw

Hydraulic Unit



# Standard Pole Base

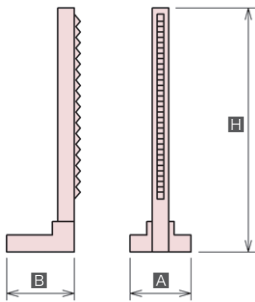


40mm Pole Base		
Model name	SB-401-580	SB-401-700
Base size <b>A</b> × <b>B</b>	127×161mm	
Height <b>H</b>	580mm	700mm
Weight	3.2kg	3.6kg

74mm Pole Base	
Model name	SB-741-1050
Base size <b>A</b> × <b>B</b>	200×320mm
Height <b>H</b>	1,050mm
Weight	19kg

\* Water Collector Fitting MA-46 included

49mm Pole Base						
Model name	SB-493-600	SB-493-700	SB-491-810	SB-491-1000	SB-494-1000	SB-494-1035
Travel length	315mm	415mm	505mm	695mm	695mm	695mm
Weight	4.7kg	5.0kg	7.5kg	8.5kg	9.1kg	9.7kg

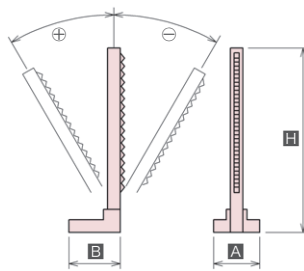


59mm Pole Base						
Model name	SB-594-800	SB-594-900	SB-594-1000	SB-594-1035	SB-594-1235	SB-594-1535
Base size <b>A</b> × <b>B</b>	180×265mm					
Height <b>H</b>	800mm	900mm	1,000mm	1,035mm	1,235mm	1,535mm
Weight	11.1kg	11.9kg	12.7kg	13.4kg	15.0kg	17.5kg

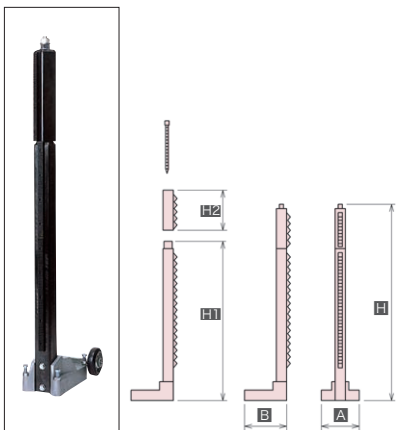
# Angle Adjustable Pole Base



Pole size	40mm		49mm		59mm
Model name	AB-401-580	AB-401-700	AB-491-885	AB-491-1075	AB-591-1085
Base size <b>A</b> × <b>B</b>	135×190mm		185×250mm		190×295mm
Height <b>H</b>	580mm	700mm	849mm	1,075mm	1,087mm
Weight	4.1kg	4.5kg	10.5kg	11.5kg	18.3kg
Adjustment angle	Plus 0 to 45°		Minus 60° to plus 60°(15°intervals)		



# Swiveling Pole Base



Pole size	49mm	59mm		74mm
Main pole model name	SB-494-1035	SB-594-1035	SB-594-1235	SB-594-1535
Sub pole model name	RP-491	RP-591		RB-741-1085
Base size <b>A</b> × <b>B</b>	177×217mm	180×265mm		200×320mm
Whole Height <b>H</b>	1,284mm	1,359mm	1,559mm	1,859mm
Main pole height <b>H1</b>	1,035mm		1,235mm	1,535mm
Sub pole height <b>H2</b>	260mm	340mm		374mm
Weight	11.9kg	16.8kg	18.4kg	20.9kg
				28.0kg

Coring

Core Drill  
(Rig type)

Auto Feed  
EHAC

Core Drill  
Options

Diamond  
Core Bit

Dry Hand  
Core Drill

Cutting

Wall Cutter

Plunge Cutter

Wire Saw

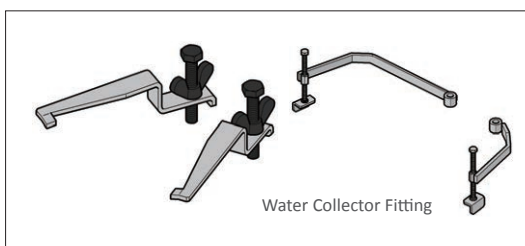
Hydraulic  
Unit

# Water Collector / Water Collector Fitting



Water Collector (Height 64mm)

Model name	Product image	Max. core bit dia.	Material	Dimension(mm)
MS-120J II		120mm	Resin	φ183×60 (H) Hole Dia.φ124
MS-130F		130mm	Resin	φ208×60 (H) Hole Dia.φ90 (Possible to ream φ116,140)
MS-160J		160mm	Aluminum	φ191×59 (H) Hole Dia.φ164
MS-180F		180mm	Resin	φ242×61 (H) Hole Dia.φ170 (Possible to ream φ190)
MS-200F		200mm	Hard rubber	φ280×64 (H) Hole Dia.φ220
MS-2J		2" (3": reaming)	Hard rubber	φ125×64 (H) Hole Dia.φ58 (Possible to ream φ70,82)
MS-3J		3" (4": reaming)	Hard rubber	φ165×64 (H) Hole Dia.φ83 (Possible to ream φ95,115)



Pole base size	Model name	Remarks
40mm	MA-46	-
49mm	MK-49	-
59mm	MK-59	-
	MK-59-1	Spacer 1 pc
	MK-59-3	Spacer 3 pcs
74mm	MK-74-0	-
	MK-74-1	Spacer 1 pc
	MA-74-2	Spacer 2 pcs
	MA-74-4	SPX: Spacer 2 pcs SPU: Spacer 4 pcs

Coring

Core Drill  
(Rig type)

Auto Feed  
EHAC

Core Drill  
Options

Diamond  
Core Bit

Dry Hand  
Core Drill

Cutting

Wall Cutter








Plunge Cutter

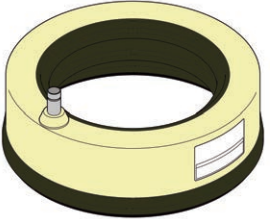
Wire Saw

Hydraulic  
Unit



# Water Collector / Ceiling Water Collector

Water Collector (Height 94mm)				
Model name	Product image	Max. core bit dia.	Material	Dimension(mm)
MS-2		2" (3": reaming)	Hard rubber	φ125×94 (H) Hole Dia.φ58 (Possible to ream φ70,82)
MS-3		3" (4": reaming)		φ165×94 (H) Hole Dia.φ83 (Possible to ream φ95,115)
MS-4		4"		φ210×94 (H) Hole Dia.φ130
MS-6		6"		φ250×94 (H) Hole Dia.φ180
MS-8		8"		φ310×94 (H) Hole Dia.φ230
MS-10		10"	Aluminum	φ310×109 (H) Hole Dia.φ266
MS-12		12"	Steel	φ388×109 (H) Hole Dia.φ326
MS-14		14"		φ450×109 (H) Hole Dia.φ380
MS-16		16"		φ515×109 (H) Hole Dia.φ435
MS-18		18"		φ575×109 (H) Hole Dia.φ490
MS-20		20"		φ635×109 (H) Hole Dia.φ545

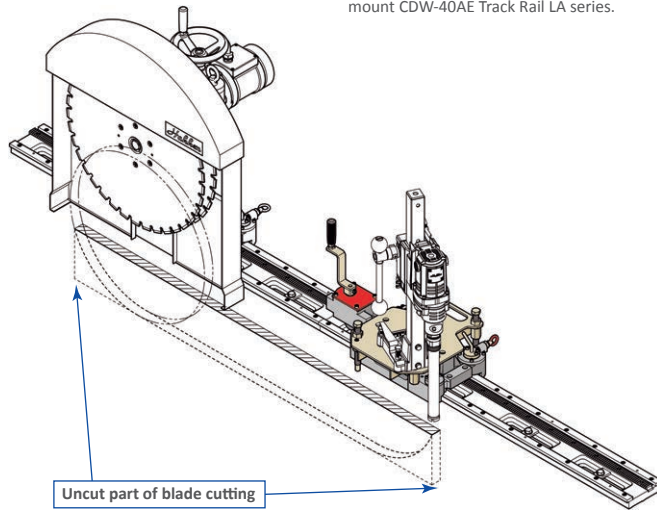
Ceiling Water Collector (Made-to-order)				
Model name	Product image	Max. core bit dia.	Material	Dimension(mm)
CP-1		1"	Hard rubber	φ210×94 (H) Hole Dia.φ24
CP-1 1/4		1 1/4"		φ210×94 (H) Hole Dia.φ30
CP-1 1/2		1 1/2"		φ210×94 (H) Hole Dia.φ37
CP-2		2"		φ210×94 (H) Hole Dia.φ50
CP-2 1/2		2 1/2"		φ210×94 (H) Hole Dia.φ60
CP-3		3"		φ210×94 (H) Hole Dia.φ74
CP-3 1/2		3 1/2"		φ210×94 (H) Hole Dia.φ84
CP-4		4"		φ210×94 (H) Hole Dia.φ106
CP-5		5"		φ250×94 (H) Hole Dia.φ125
CP-6		6"		φ250×94 (H) Hole Dia.φ156
CP-7		7"		φ310×94 (H) Hole Dia.φ176
CP-8		8"		φ310×94 (H) Hole Dia.φ200

Ceiling Water Collector is dedicated for Hydraulic Core Drill. If drilling to the upward direction by electric core drill, water might come in the motor and cause short circuit. Do not use for electric core drill

# Stitch Drill Attachment LA



Specifications	
Size(W×L×H)	484×347×339mm
Height from ground level to plate where fixed pole base	115.5mm
Travel per handle revolution	Approx. 8mm
Weight	12kg



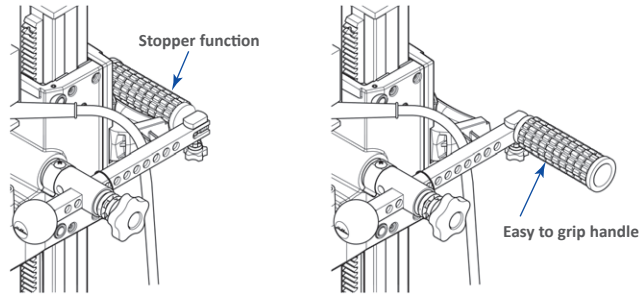
# Speed Handle



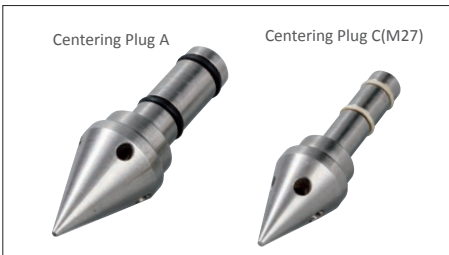
Specifications	
Max. rolling radius	315mm
Weight	1.2kg

### One-touch pin helps quick-release!

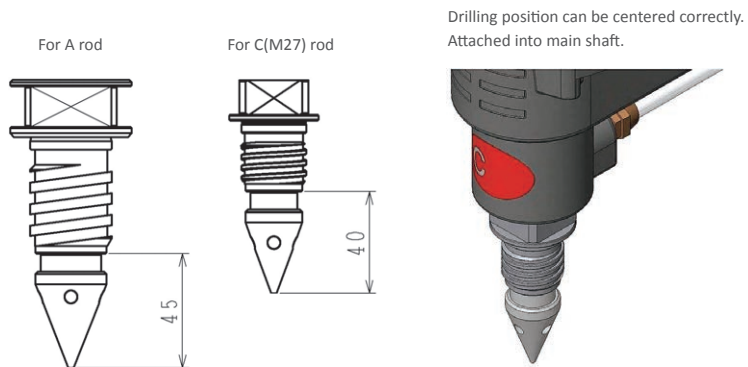
The situation of deep drilling, speed handle can be used as stopper when extension bar added. In addition, during stitch drilling, turning handle for reverse direction is much faster, which minimize the working time.



# Centering Plug



Model name	
Centering Plug A	
Centering Plug C(M27)	



Coring

Core Drill (Rig type)

Auto Feed EHAC

Core Drill Options

Diamond Core Bit

Dry Hand Core Drill

Cutting

Wall Cutter

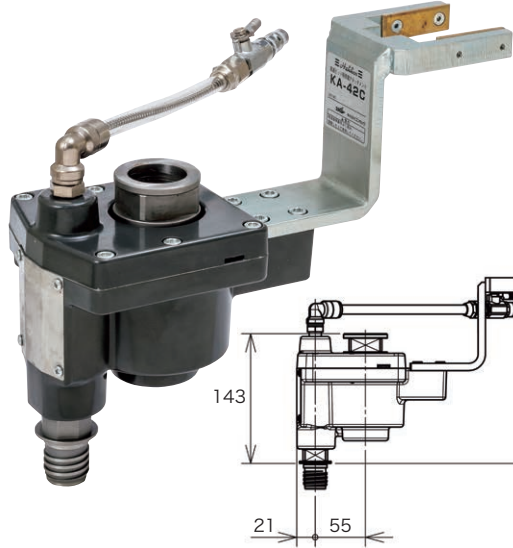
Plunge Cutter

Wire Saw

Hydraulic Unit

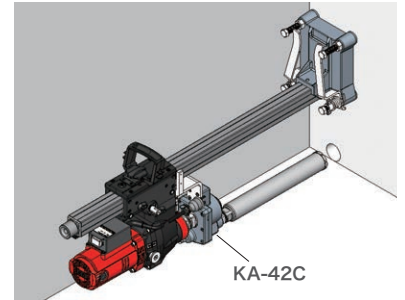
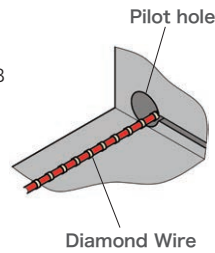


# Flush Coring Adapter KA-42C



Minimized the gear case thickness, which enable to drill border against the wall or pilot hole for flush wire sawing. (Minimum core bit diameter for border drilling :  $\phi 42$ )  
 \*Do not drill over 400mm depth.

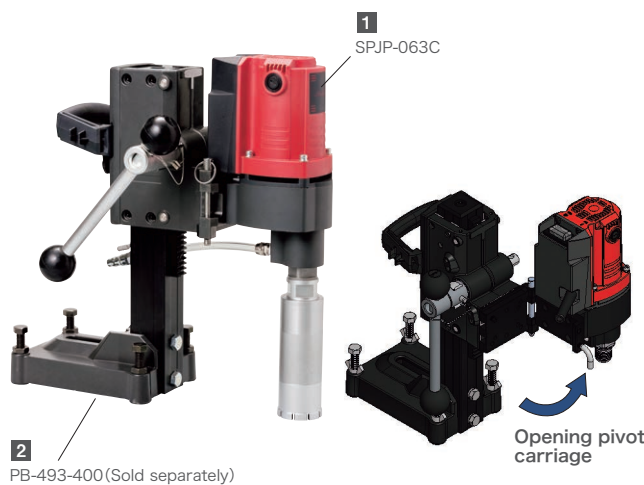
Output spindle RPM can be increased double speed of input, which is used for only high-speed anchor core bit. Only 49mm pole base is mountable.



Model name	KA-42C
Applicable core drill	SPF series SPN series SPZ series
Maximum bit diameter	61mm
Input spindle thread	A -rod
Output spindle thread	C-rod
Speed increasing ratio	1:2 (Double speed of input)
Size(WxLxH)	112x288x232mm
Weight	4.0kg
Standard Accessories	Single-ended wrench 27mm, 36mm

Appropriate Shift Position		○ : Proper    △ : Depends on the workpiece    × : Not appropriate		
		Note) If RPM is too fast, diamond of segment might be rounded		
Model Name	Shift Position	Core bit diameter		
		20mm	35.4mm	61mm
SPF-181 series	HI		○	
	LOW	×	△	×
SPN-203 series	-	×	△	○
SPZ-253 series	HI		○	
	LOW		×	△

# Core drill for narrow space SPJP-063C

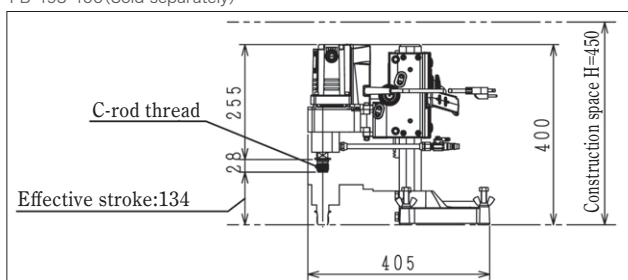


Possible to drill at low height space. For example, changing support for bridge, inside of manhole. Pivot carriage can be opened when concrete core is taking out or adding extension rod.

1 Drill Head specifications	
Model name	SPJP-063C
Power Source	100V
Rated Current	14A
Maximum Output	1,500W
No-load speed	950min <sup>-1</sup>
Maximum bit diameter	160mm
Spindle thread	C-rod
Size(WxLxH)	210x336x284mm
Weight	7.7kg

2 Pole Base specifications	
Model name	PB-493-400
Base size	142x200mm
Weight	4.0kg

High-speed anchor core bit should be used.



Coring

Core Drill (Rig type)

Auto Feed EHAC

Core Drill Options

Diamond Core Bit

Dry Hand Core Drill

Cutting

Wall Cutter

Plunge Cutter

Wire Saw

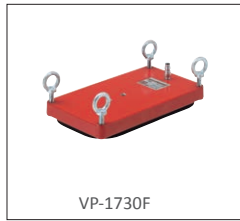
Hydraulic Unit

# Vacuum Pump / Vacuum Pad

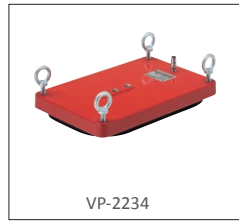
Mountable core drill on any cutting object without anchor bolt



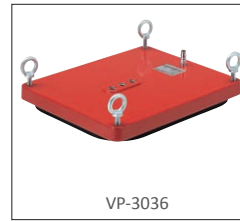
VPM-50V



VP-1730F



VP-2234



VP-3036



Vacuum Pad  
VPH-20W

Vacuum Pump	
Model name	VPM-50V
Power supply	Single Phase 110V 50/60Hz
Max. output	40W
Pumping speed	12ℓ/min(50Hz) 15ℓ/min(60Hz)
Ultimate pressure	0.094MPa
Size	220×340×230mm
Weight	12kg

Vacuum Pad				
Model name	VP-1730F	VP-2234	VP-3036	VPH-20W
Pole Base	4060, □40		□40, □49, □59	
Applications	Flat Surface (Only for floor)	Flat Surface		Rounded Surface φ234~Flat
Size	170×300mm	220×340mm	300×360mm	314×420mm
Weight	2.0kg	2.8kg	3.6kg	7.5kg

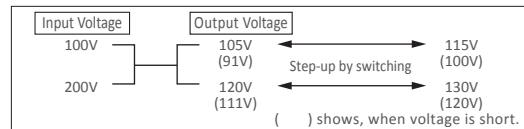
# Transformer

Increase electric power, definitive portable transformer



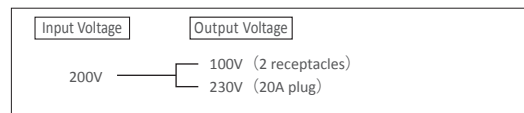
HDT-3B

Model name	HDT-3B
Rated capacity	3kVA
Rated time	Continuous
Input voltage	100/200V Switching
Frequency	50/60Hz
Output receptacles	100V 15A×2 120V 15A×1
Boost switch	10%
Size	201×290×191mm
Weight	12kg

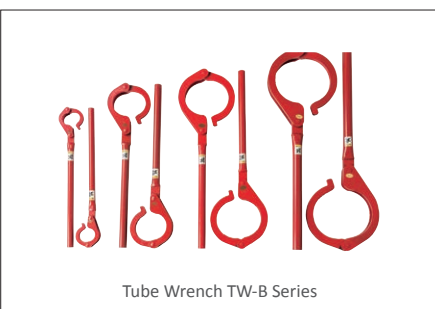


HDT-5B Pro

Model name	HDT-5B Pro
Rated capacity	5kVA
Rated time	Continuous
Input voltage	200V Switching
Frequency	50/60Hz
Output receptacles	100V 15A×2 230V 20A×1
Boost switch	-
Size	172×290×295mm
Weight	11.5kg



# Tube Wrench ( Including handle )



Tube Wrench TW-B Series

Model name	
Tube Wrench	TW-2B
	TW-2.5B
	TW-3B
	TW-3.5B
	TW-4B
	TW-5B
	TW-6B
	TW-7B
	TW-8B

Model name	
Tube Wrench	TW-9B
	TW-10B
	TW-12B
	TW-14B
	TW-16B
	TW-18B
	TW-20B

2 pieces necessary for use.

Coring

Core Drill  
(Rig type)

Auto Feed  
EHAC

Core Drill  
Options

Diamond  
Core Bit

Dry Hand  
Core Drill

Cutting

Wall Cutter

Plunge Cutter


Wire Saw

Hydraulic  
Unit

# Others

Streamlining and labor-saving support

**Core Extracting Wire**



Use for taking out concrete core.

**Water Tank T-13B**



Tank capacity 13 liter, supply water by air pressure even height. 3m hose with couplers included.

**Water Tank T-6A**




Tank capacity 6.9 liter, supply water by air pressure even height. 4m hose with couplers included.

**No Anchor Base NA-63**



Use for the test piece extraction on asphalt road. Applicable pole base: SB-401,491 series.

**Fence Fixed Attachment FA-230**




Applicable drill motors:SPJ/F/N/Z series(CL493)  
Clamping width:70~230mm  
Size: 220×300×120mm Weight:10.6kg

**Chuck Adapter**



This allows to change C or A rod screw to drill chuck. It is possible to chuck Max 13mm drill.

**Extension Rod**



●Extension rod for A thread.  
\* Can not be used with core bit less than 1 1/2" dia.

Model name	Outer diameter	Effective length
100L	41mm	100mm
150L		150mm
300L		300mm
500L		500mm

●Extension rod for A thread for high power motor.  
\* Can not be used with core bit less than 1 1/2" dia.


Model name	Outer diameter	Effective length
300L	41mm	300mm
500L		500mm

●Extension rod for C thread.  
●Extension rod for M27 thread.  
\* Can not be used with core bit less than φ32.

Model name	Outer diameter	Effective length
100L	36mm	100mm
200L		200mm

Deep drilling can be achieved by attaching this rod between a core bit and a main shaft.

**Adapter**



Model name
A rod → C rod
A rod → Unify 1 1/4" rod
A rod → Nittoku rod
A rod → M27 rod
A rod → G 1/2" rod
C rod → A rod
C rod → M27 rod
C rod → 1/2"-20UNF rod
C rod → G 1/2"
M27 rod → A rod
M27 rod → C rod
Unify 1 1/4" rod → A rod
Nittoku rod → A rod
G 1/2" → A rod
G 1/2" → C rod

Possible to change the thread of main shaft.

**Carrying Case FC**



Drill head SPF series and pole base SB-493-600 can be stored.

**Support Jack**



Fix the pole base between ceiling and floor with supporting post by screwing Support Jack on top of pole base. Applicable pole base is □49 and □59.

Coring

Core Drill (Rig type)

Auto Feed EHAC

Core Drill Options

Diamond Core Bit

Dry Hand Core Drill

Cutting

Wall Cutter

Plunge Cutter

Wire Saw

Hydraulic Unit



# Wet core bit (One body type: Laser welded)

## One body thin core bit A rod screw

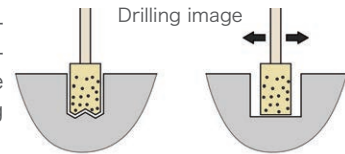
Smart ONE LASER

**Smart ONE** LASER **A Rod**  
One body thin core bit



Multi layer structure segment\*1 reduce shaking and meandering. Laser welding\*2 helps to prevent segment breakage. Well balanced drilling speed and lifetime!

Drilling efficiency is improved by reducing extra cutting, shaking and meandering by created groove on the surface of multi layer structure segment during drilling.



\*1) Only Bond M and over  $\phi 52$ . Bond S isn't multi layer.

\*2)  $\phi 27, 310, 360$  are used silver brazing.

Groove becomes guide and reduce the shaking (Over  $\phi 52$ )

Normal core bit Shaking



Bond Mark	Performance		Applicable Core drill
S	Speed	Cutting edge designed for middle duty core drill. Priority is speed. The lifetime is shorter than other bond.	SPF series SPN series SPZ series SPM series
M	Standard	Cutting edge designed for balanced both drilling speed and lifetime. From middle duty to heavy duty core drill can be used.	SPN series SPZ series SPM series SPO series

### <One body thin core bit> Smart ONE LASER A rod

Spanner size: 36mm

Size	Outer- Inner dia.	Drilling depth 250mm			Drilling depth 370mm			Drilling depth 420mm(450mm for $\phi 110, 130, 160$ )				
		Full length	Size	BOND	Full length	Size	BOND		Full length	Size	BOND	
				M			S	M			S	M
27	26.8×20.4mm	—	—	—	443mm	$\phi 27 \times 370L$	●	●	—	—	—	—
32	31.8×25.4mm	—	—	—		$\phi 32 \times 370L$	●	●	—	—	—	—
40	39.8×33.4mm	—	—	—	433mm	$\phi 40 \times 370L$	●	●	483mm	$\phi 40 \times 420L$	●	●
52	51.8×45.4mm	307mm	$\phi 52 \times 250L$	●	427mm	$\phi 52 \times 370L$	●	●			477mm	$\phi 52 \times 420L$
56	55.8×49.4mm		$\phi 56 \times 250L$	●		$\phi 56 \times 370L$	●	●	$\phi 56 \times 420L$	●		●
65	64.8×58.4mm		$\phi 65 \times 250L$	●		$\phi 65 \times 370L$	●	●	$\phi 65 \times 420L$	●		●
70	69.8×63.4mm		$\phi 70 \times 250L$	●		$\phi 70 \times 370L$	●	●	$\phi 70 \times 420L$	●		●
75	74.8×68.4mm		$\phi 75 \times 250L$	●		$\phi 75 \times 370L$	●	●	$\phi 75 \times 420L$	●		●
80	79.8×73.4mm		$\phi 80 \times 250L$	●		$\phi 80 \times 370L$	●	●	$\phi 80 \times 420L$	●		●
90	89.8×83.4mm		$\phi 90 \times 250L$	●		$\phi 90 \times 370L$	●	●	$\phi 90 \times 420L$	●		●
100	99.8×93.4mm		$\phi 100 \times 250L$	●		$\phi 100 \times 370L$	●	●	$\phi 100 \times 420L$	●		●
106	105.8×99.4mm		$\phi 106 \times 250L$	●		$\phi 106 \times 370L$	●	●	$\phi 106 \times 420L$	●		●
110	109.8×103.4mm		$\phi 110 \times 250L$	●		$\phi 110 \times 370L$	●	●	507mm	$\phi 110 \times 450L$		●
120	119.8×113.4mm	$\phi 120 \times 250L$	●	$\phi 120 \times 370L$	●	●	477mm	$\phi 120 \times 420L$	●	●		
130	129.8×123.4mm	$\phi 130 \times 250L$	●	$\phi 130 \times 370L$	●	●	507mm	$\phi 130 \times 450L$	●	●		
150	149.8×143.4mm	$\phi 150 \times 250L$	●	$\phi 150 \times 370L$	●	●	477mm	$\phi 150 \times 420L$	●	●		
160	159.8×153.4mm	$\phi 160 \times 250L$	●	$\phi 160 \times 370L$	●	●	507mm	$\phi 160 \times 450L$	●	●		
180	179.8×173.4mm	$\phi 180 \times 250L$	●	$\phi 180 \times 370L$	●	●	477mm	$\phi 180 \times 420L$	●	●		
200	200.6×193.4mm	$\phi 200 \times 250L$	●	$\phi 200 \times 370L$	●	●		$\phi 200 \times 420L$	●	●		
210	210.6×203.4mm	—	—	$\phi 210 \times 370L$	—	●		$\phi 210 \times 420L$	—	●		
230	230.6×223.4mm	—	—	$\phi 230 \times 370L$	—	●		$\phi 230 \times 420L$	—	●		
250	250.6×243.4mm	—	—	$\phi 250 \times 370L$	—	●		$\phi 250 \times 420L$	—	●		
260	260.6×253.4mm	—	—	$\phi 260 \times 370L$	—	●		$\phi 260 \times 420L$	—	●		
280	280.6×273.4mm	—	—	$\phi 280 \times 370L$	—	●		$\phi 280 \times 420L$	—	●		
310	310.6×303.4mm	—	—	$\phi 310 \times 370L$	—	●		$\phi 310 \times 420L$	—	●		
360	360.6×353.4mm	—	—	$\phi 360 \times 370L$	—	●		$\phi 360 \times 420L$	—	●		

■ Drilling depth not included segment height. \*Full length includes new segment height.

■ Rescue segment welded over  $\phi 75$  core bit. Rescue segment is thin which helps to escape from stuck on steel rebar .

Coring

Core Drill (Rig type)

Auto Feed EHAC

Core Drill Options

Diamond Core Bit

Dry Hand Core Drill

Cutting

Wall Cutter

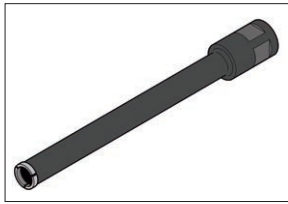
Plunge Cutter

Wire Saw

Hydraulic Unit

# Wet core bit (One body type: Laser welded, silver brazing)

## High-speed anchor core bit A rod screw

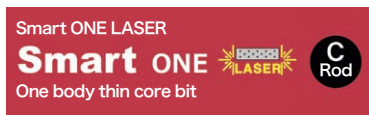


<High speed core bit> Spanner size: 36mm

Size	Model name	Outer- Inner dia.	Drilling depth	Full length
20	High speed core bit φ20×250L A	19.8×12.8mm	250mm	315mm
24	High speed core bit φ24×250L A	23.8×16.8mm		
25	High speed core bit φ25×300L A	24.8×17.8mm	300mm	365mm
30	High speed core bit φ30×300L A	29.8×23.4mm		
42	High speed core bit φ42×450L A	42.1×35.7mm	450mm	505mm
48	High speed core bit φ48×450L A	47.8×41.4mm		

\* Drilling depth , Full length not included segment height.

## One body thin core bit C rod screw



Bond Mark	Performance	Applicable Core drill
S	Speed Cutting edge designed for light duty core drill SPJ series. Priority is speed. The lifetime is shorter than other bond.	SPJ series
M	Standard Cutting edge designed for balanced both drilling speed and lifetime.	SPJ series SPF series



<One body thin core bit> Smart ONE LASER C rod

Spanner size: 32mm

Size	Model name	Outer- Inner dia.		Full length
		Bond S (Speed)	Bond M (Standard)	
27	Core Bit Smart ONE laser C rod φ27×260L <sup>1</sup>	26.8×20.4mm		313mm
32	Core Bit Smart ONE laser C rod φ32×260L	31.8×25.4mm		
40	Core Bit Smart ONE laser C rod φ40×260L	39.8×33.8mm	39.8×33.4mm	
52	Core Bit Smart ONE laser C rod φ52×260L	51.8×45.8mm	51.8×45.4mm	
56	Core Bit Smart ONE laser C rod φ56×260L	—	55.8×49.4mm	
65	Core Bit Smart ONE laser C rod φ65×260L	64.8×58.8mm	64.8×58.4mm	
70	Core Bit Smart ONE laser C rod φ70×260L	69.8×63.8mm	69.8×63.4mm	
75	Core Bit Smart ONE laser C rod φ75×260L	74.8×68.8mm	74.8×68.4mm	
80	Core Bit Smart ONE laser C rod φ80×260L	79.8×73.8mm	79.8×73.4mm	
90	Core Bit Smart ONE laser C rod φ90×260L	89.8×83.8mm	89.8×83.4mm	
100	Core Bit Smart ONE laser C rod φ100×260L	99.8×93.8mm	99.8×93.4mm	
106	Core Bit Smart ONE laser C rod φ106×260L	105.8×99.8mm	105.8×99.4mm	
110	Core Bit Smart ONE laser C rod φ110×260L	109.8×103.8mm	109.8×103.4mm	
120	Core Bit Smart ONE laser C rod φ120×260L	119.8×113.8mm	119.8×113.4mm	
130	Core Bit Smart ONE laser C rod φ130×260L	129.8×123.8mm	129.8×123.4mm	
140	Core Bit Smart ONE laser C rod φ140×260L	—	139.8×133.4mm	
150	Core Bit Smart ONE laser C rod φ150×260L	149.8×143.8mm	149.8×143.4mm	
160	Core Bit Smart ONE laser C rod φ160×260L	159.8×153.8mm	159.8×153.4mm	
170	Core Bit Smart ONE laser C rod φ170×260L	—	169.8×163.4mm	
180	Core Bit Smart ONE laser C rod φ180×260L	—	179.8×173.4mm	
200	Core Bit Smart ONE laser C rod φ200×260L	—	199.8×192.0mm	
210	Core Bit Smart ONE laser C rod φ210×260L	—	209.8×202.0mm	

■ Drilling depth not included segment height. \*Full length includes new segment height.

■ Rescue segment welded over φ75 core bit. Rescue segment is thin which helps to escape from stuck on steel rebar .

\*1) φ27 is not laser welding.

# Core bit (Three pieces type Wet / Dry)

## Three pieces core bit

Smart SEPA



# Smart SEPA

Three pieces core bit

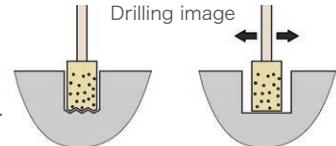


Smart SEPA

Rescue segment used for over 3"

Multi layer structure segment\*<sup>1</sup> reduce shaking and meandering. Laser welding\*<sup>2</sup> helps to prevent segment breakage. Well balanced drilling speed and lifetime!

Drilling efficiency is improved by reducing extra cutting, shaking and meandering by created groove on the surface of multi layer structure segment during drilling.

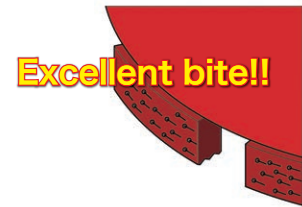


Groove becomes guide and reduce the shaking (Over 2")

Normal core bit Shaking

\*1) Used from size 2"

\*2) From 1" to 1 1/2" and over 8" are used silver brazing



Smart SEPA NS



Bond and segment specifications are same as Smart SEPA bond M. Only connection thread to tube is Norton / Shibuya specifications. 2", 2 1/2", 3 1/2", 5" and 8" only

Size	Outer- Inner dia.	Drilling depth
2"	53.2×44.2mm	35mm
2 1/2"	64.7×55.7mm	40mm
3 1/2"	89.9×80.9mm	
5"	128.5×118.5mm	70mm
8"	204.0×194.0mm	



Hi-speed anchor core bit (Bond S)



Designed for fast drilling for unreinforced concrete. (Millimeter size)  
Recommended RPM: 2100min<sup>-1</sup>  
Silver brazing  
(Speed type)



Hi-speed anchor core bit (Bond M) Rescue



Designed for long-life for unreinforced concrete. Half of segment used rescue segment, which enable to take out concrete core easily.  
Recommended RPM: 2100min<sup>-1</sup>  
Silver brazing  
(Longer lifetime)



Pro series core bit



Designed for SPX series with multi layer structure segment. Laser welding  
Only 2", 4" and 6" are available  
(Longer lifetime)



NOKOBA bit DX



Unique shape segment bites well and fast drilling is possible.  
Silver brazing  
(Speed type)



Dry core bit MD



Designed dry drilling only  
3 lines on shank means dry core bit MD (Standard)



Coring

Core Drill (Rig type)

Auto Feed EHAC

Core Drill Options

Diamond Core Bit

Dry Hand Core Drill

Cutting

Wall Cutter

Plunge Cutter

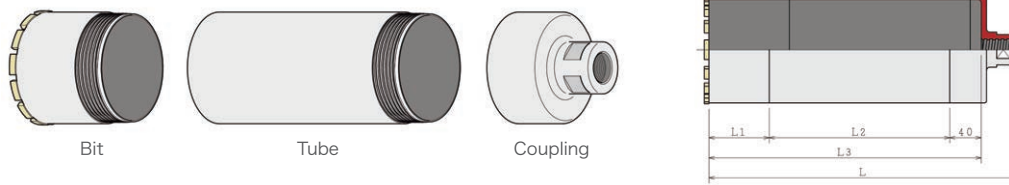
Wire Saw

Hydraulic Unit



# Core bit (Three pieces type Wet / Dry)

## Three pieces core bit



<Bit, Tube, Coupling A rod screw combination table >

Spanner size: 46mm

Size Inch	Outer- Inner dia.			Drilling depth				Full length (L)			
	Smart SEPA	NOKOBA bit	Dry core bit MD	Bit(L1)	Tube(L2)	Coupling A rod screw	Drilling depth(L3)				
1"	28mm	27.7×18.7mm	27.4×18.8mm	27.7×18.3mm	30mm	280(330)mm	0mm	310(360)mm	410(460)mm		
1 1/4"	33mm	33.3×24.3mm	33.0×24.4mm	33.3×23.9mm	35mm	280(330)mm	0mm	315(365)mm	410(465)mm		
1 1/2"	41mm	40.7×31.7mm	40.4×31.8mm	40.7×31.3mm				305(355)mm			
2"	53mm	52.8×43.8mm	52.8×44.2mm	52.8×43.4mm				345(395)mm			
2 1/2"	65mm	64.4×55.4mm	64.4×55.8mm	64.4×55.0mm	40mm	270(320)mm	40mm	350(400)mm	410(460)mm		
3"	77mm	77.2×68.2mm	77.2×68.6mm	77.2×67.8mm				380(430)mm			
3 1/2"	90mm	89.7×80.7mm	89.7×81.1mm	89.7×80.3mm				400(450)mm			
4"	110mm	110.0×100.0mm	110.0×100.4mm	110.0×99.6mm	70mm	90mm	40mm	380(430)mm	440(490)mm		
5"	128mm	128.0×118.0mm	128.0×118.4mm	128.0×117.6mm	90mm			270mm		400mm	460(510)mm
6"	160mm	160.0×150.0mm	160.0×150.4mm	160.0×149.6mm							400mm
7"	180mm	180.0×170.0mm	180.0×170.4mm	180.0×169.6mm	90mm	270mm	400mm	460mm			
8"	205mm	205.0×193.0mm	205.0×193.4mm	205.0×192.6mm							
9"	230mm	230.0×218.0mm	230.0×218.4mm	230.0×217.6mm	90mm	270mm	400mm	460mm			
10"	254mm	254.0×242.0mm	254.0×242.4mm	254.0×241.6mm							
12"	305mm	305.0×293.0mm	305.0×293.4mm	305.0×292.6mm	90mm	270mm	400mm	460mm			
14"	355mm	355.0×343.0mm	355.0×343.4mm	—							
Size Millimeter		Hi-speed anchor core bit	Hi-speed anchor core bit Rescue								
φ20	20mm	20.2×10.8mm	—	—	50mm	300mm	0mm	350mm	440mm		
φ22	22mm	22.2×12.8mm	—	—	30mm			330mm	420mm		
φ24	24mm	24.2×14.8mm	—	—		35mm	280(330)mm	0mm	310(360)mm	410(460)mm	
φ28.1(1")	28.1mm	28.1×18.7mm	28.1×19.1mm	—	29mm				275mm	0mm	315(365)mm
φ33.7(1 1/4")	33.7mm	33.7×24.3mm	33.7×24.7mm	—		270mm	270mm	0mm			304mm
φ35.4	35.4mm	36.6×27.2mm	36.6×27.6mm	36.4×27.4mm	35mm				285mm	0mm	299mm
φ38	38mm	38.7×29.3mm	38.7×29.7mm	—		35mm	270(320)mm	0mm			305(355)mm
φ41.1(1 1/2")	41.1mm	41.1×31.7mm	41.1×32.1mm	—	29mm(*1)				270mm	47mm	346mm
φ42	42mm	42.2×32.8mm	42.2×33.2mm	42.0×33.0mm							
φ45	45mm	45.2×35.8mm	45.2×36.2mm	45.0×36.0mm							
φ48	48mm	48.2×38.8mm	48.2×39.2mm	48.0×39.0mm							
φ61	61mm	61.0×51.6mm	61.0×52.0mm	61.0×52.0mm							

■ Drilling depth, full length not included segment height.

■ We also produce shorter tube, drilling depth 100mm and 150mm for size from 1" to 8" core bit.

\*1) This drilling length is Dry core bit MD. Drilling length of Hi-speed anchor core bit is 40mm.

■ ( ) dimensions are the value using Tube 350L.

Coring

Core Drill (Rig type)

Auto Feed EHAC

Core Drill Options

Diamond Core Bit

Dry Hand Core Drill

Cutting

Wall Cutter

Plunge Cutter

Wire Saw

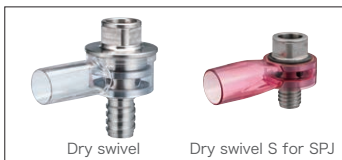
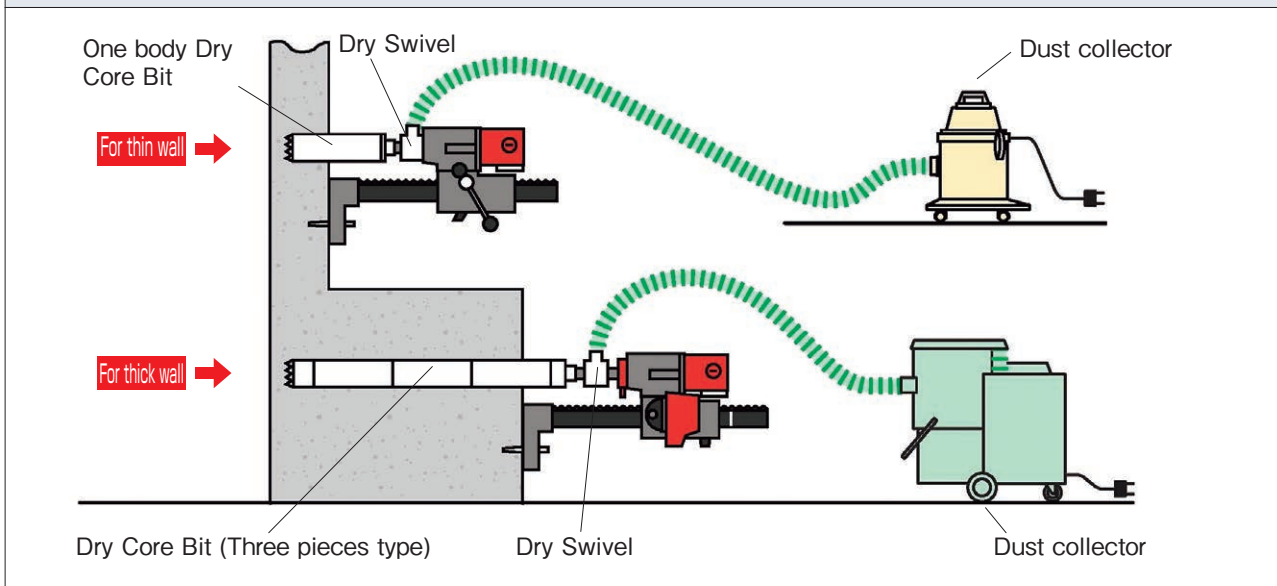
Hydraulic Unit

# Dry core drilling system

## Features

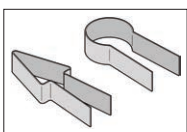
- Possible to drill reinforced concrete without water at high-speed.
- Concrete dust vacuumed up from inside of the dry swivel and doesn't fly way.
- Due to the transparent swivel, the dust collection condition can be observed visually.
- Low noise and possible to drill same speed as wet drilling.

Dry core drilling system configuration diagram



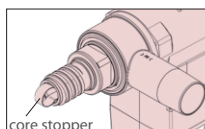
	Model name	Applicable machine
Dry swivel	C to A rod screw	SPJ-C / SPF-C
	M27 to A rod screw	SPJ - M27 / SPF-M27
	A to A rod screw	SPF-A / N / Z / M / O / X
	1 1/4" UNC to A rod screw	SPF / N / Z / M / O / X
Dry swivel S	C to C rod screw	SPJ-C
	M27 to C rod screw	SPJ-M27

Core stopper included

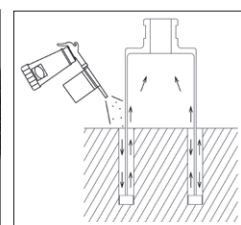


Core Stopper	
Model name	Applicable
Core stopper A	For A rod screw
Core stopper C	For C rod screw

●How to use  
During the drilling, core stopper keeps vacuum air way of main shaft not to shut out by concrete fragments.



**Dressing Powder M**  
To sharpen the dry core bit.  
1kg x 2 pack, Supply pump x 1



Coring

Core Drill (Rig type)

Auto Feed EHAC

Core Drill Options

Diamond Core Bit

Dry Hand Core Drill

Cutting

Wall Cutter

Plunge Cutter

Wire Saw

Hydraulic Unit

# Dry core bit (One body type ,Three pieces type)

## ✘ One body thin dry core bit C rod screw

Dry One  
**DRY ONE**  
 Dry core bit for SPJ series



<One body thin core bit> Dry ONE C rod (Drilling depth: 260mm) Spanner size: 32mm

Size	Outer- Inner dia.	Full length	Model name
27	27.2×20.8mm	311mm	Core Bit Dry ONE C rod φ27×260L
32	32.2×25.8mm		Core Bit Dry ONE C rod φ32×260L
40	40.2×33.8mm		Core Bit Dry ONE C rod φ40×260L
52	52.2×45.8mm		Core Bit Dry ONE C rod φ52×260L
56	56.2×49.8mm		Core Bit Dry ONE C rod φ56×260L
65	65.2×58.8mm		Core Bit Dry ONE C rod φ65×260L
70	70.2×63.8mm		Core Bit Dry ONE C rod φ70×260L
75	75.2×68.8mm		Core Bit Dry ONE C rod φ75×260L
80	80.2×73.8mm		Core Bit Dry ONE C rod φ80×260L
90	90.2×83.8mm		Core Bit Dry ONE C rod φ90×260L
100	100.2×93.8mm		Core Bit Dry ONE C rod φ100×260L
106	106.2×99.8mm		Core Bit Dry ONE C rod φ106×260L
110	110.2×103.8mm		Core Bit Dry ONE C rod φ110×260L
120	120.2×113.8mm		Core Bit Dry ONE C rod φ120×260L

■ Drilling depth not included segment height. \*Full length includes new segment height.

## ✘ Three pieces dry core bit A rod screw

Three pieces dry core bit MD series

Inch size: 1" ~12"

Millimeter size: φ35.4~φ61

(Detail dimension, see Page 25)

Dry core bit has three lines



Coring

Core Drill  
(Rig type)

Auto Feed  
EHAC

Core Drill  
Options

Diamond  
Core Bit

Dry Hand  
Core Drill

Cutting

Wall Cutter

Plunge Cutter

Wire Saw

Hydraulic  
Unit

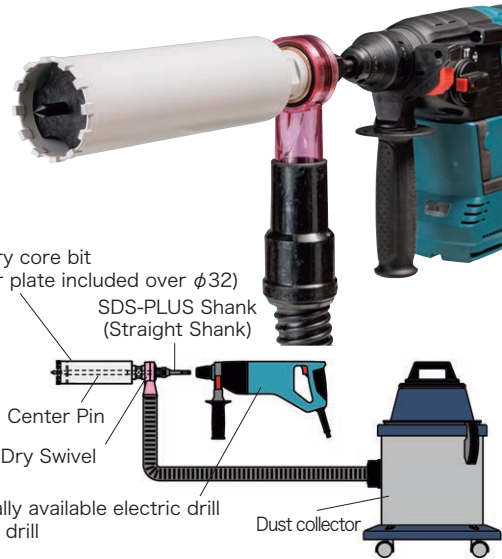


# Dry Hand Core Drill

Coring

## Universal drill adapter (Dry hand core drill)

Dry drilling is possible with commercially available electric drill or hammer drill.



Core Drill (Rig type)

Auto Feed EHAC

Core Drill Options

Diamond Core Bit

Dry Hand Core Drill

Dry Swivel M18-C	
Drill connection	M18
Core bit connection	C rod screw
Spanner size	24mm
Dust hose inner diameter	φ38

Center Pin (For drill shank)	
Applicable shank	HAKKEN specified item

SDS-PLUS Shank	
Thread	M18

Straight Shank	
Thread	M18

Commercially available electric drill or hammer drill

- Dry drilling is possible with HDD dry core bit (Under φ28 cannot be used)  
\*Drill must be used drill mode, not use hammer drilling mode.  
\*SDS-PLUS Shank should be used HAKKEN specified item.  
If it is used except HAKKEN specified item, Center Pin might not be used.
- Core stopper shape keeps vacuum air way not to shut out even concrete core broken.
- Concrete dust vacuumed up from inside of the dry swivel and doesn't fly way.
- Due to the transparent swivel, the dust collection condition can be observed visually.

Cutting

## HDD dry core bit C rod screw

Spanner size: 32mm



Size	Outer- Inner dia.	Drilling depth	Full length
14.5	14.5 × 5.5mm	200mm	251mm
16	16.0 × 7.0mm		
19	19.0 × 10.0mm		
20	20.0 × 11.0mm		
22	22.0 × 13.0mm		
25	25.0 × 16.0mm		247mm
28	28.0 × 19.0mm		
32	32.5 × 25.5mm		
40	40.5 × 33.5mm		
52	52.5 × 45.5mm		

Size	Outer- Inner dia.	Drilling depth	Full length
60	60.5 × 53.5mm	200mm	248mm
65	65.5 × 58.5mm		
70	70.5 × 63.5mm		
75	75.5 × 68.5mm		
80	80.5 × 73.5mm		
90	90.5 × 83.5mm		
106	106.5 × 99.5mm		
110	110.5 × 103.5mm		
120	120.5 × 113.5mm		

- Drilling depth not included segment height. \*Full length includes new segment height.
- Center plate included over size φ32

Wall Cutter

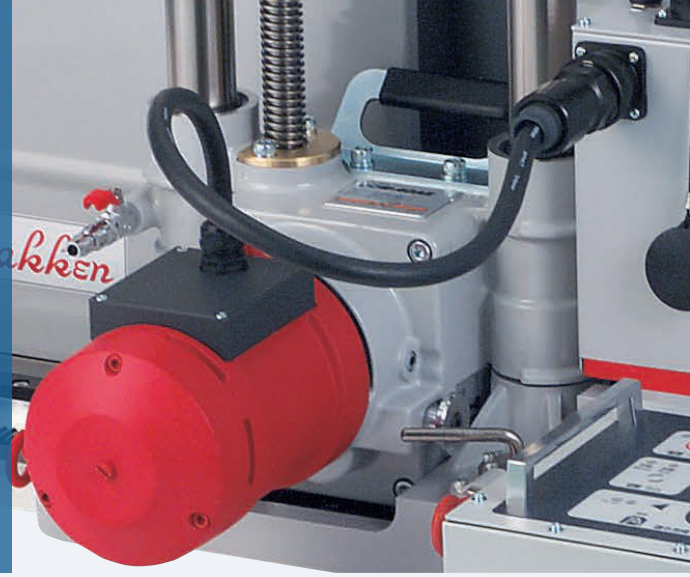
Plunge Cutter

Wire Saw

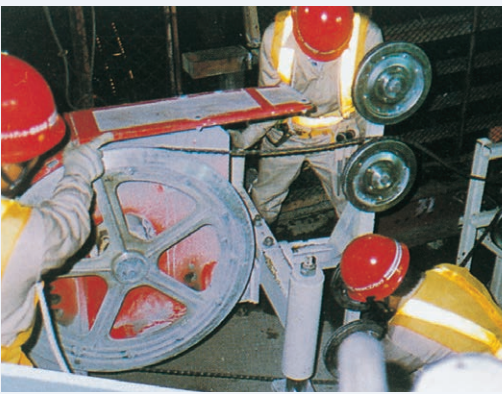
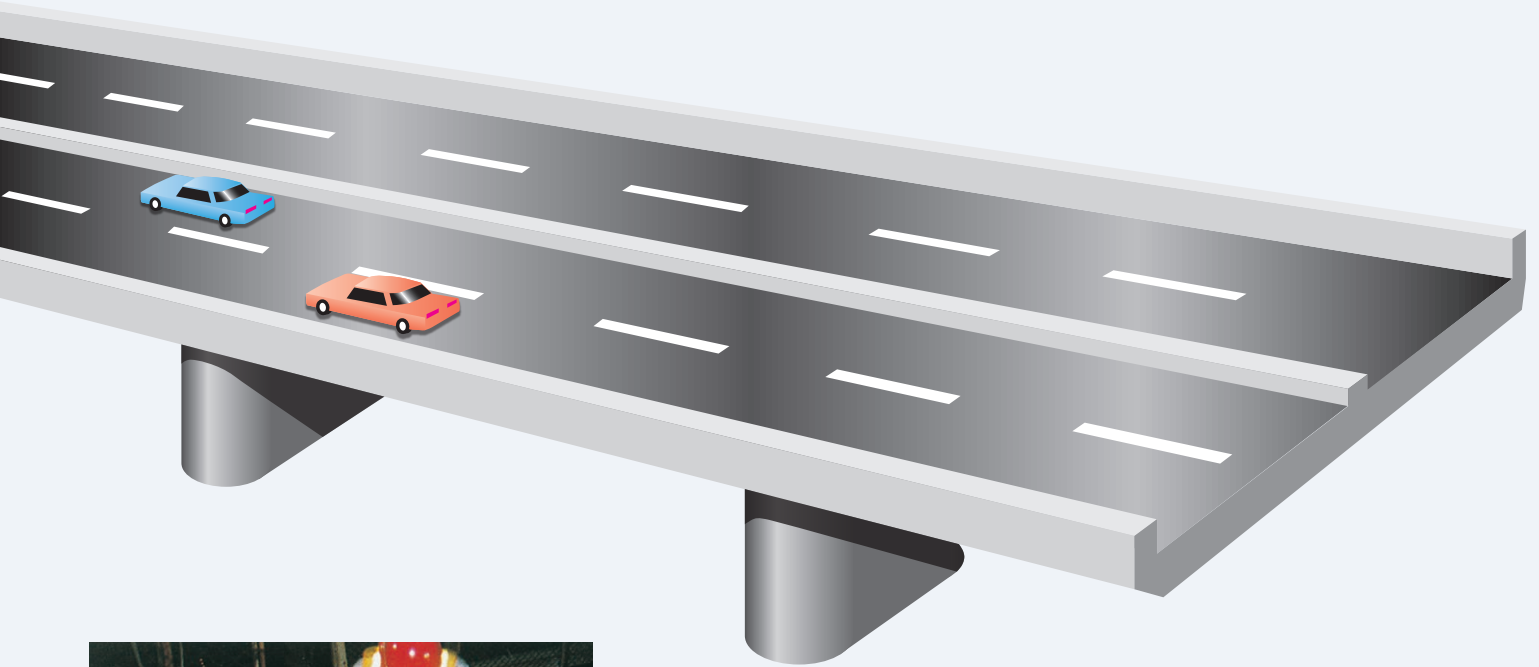
Hydraulic Unit

# Cutting

Any shape of construction is possible to cut under no vibration and low noise using diamond wire or diamond blade.



Remove the bridge of express way at urban area within one night by no vibration and low noise.



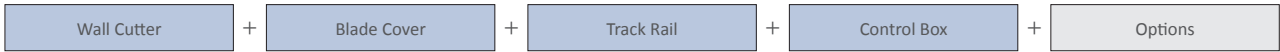
Bridge disappears in one night before someone knows!!  
Make the impossible possible with CONSEC innovation.

Key is how to cut the bridge faster and silent into concrete block which is possible to carry. Breaker makes heavy noise and takes time, furthermore there is a risk that cut piece falls down to the ground.

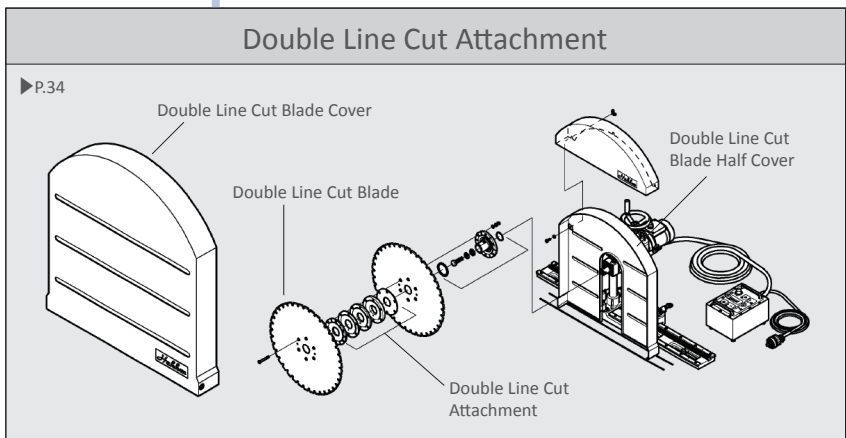
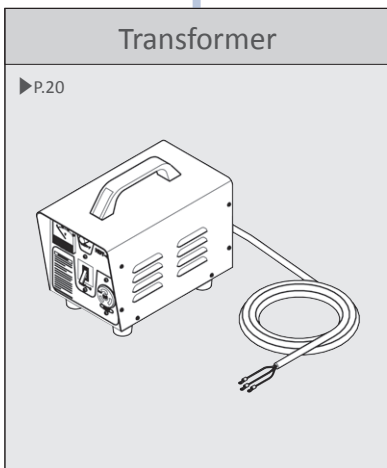
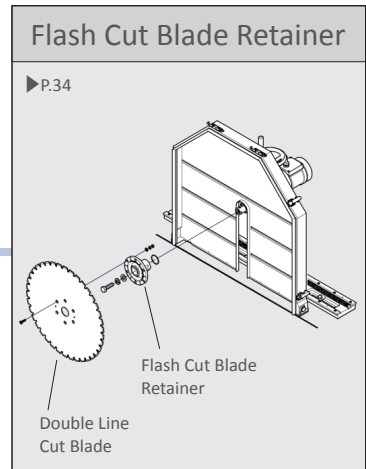
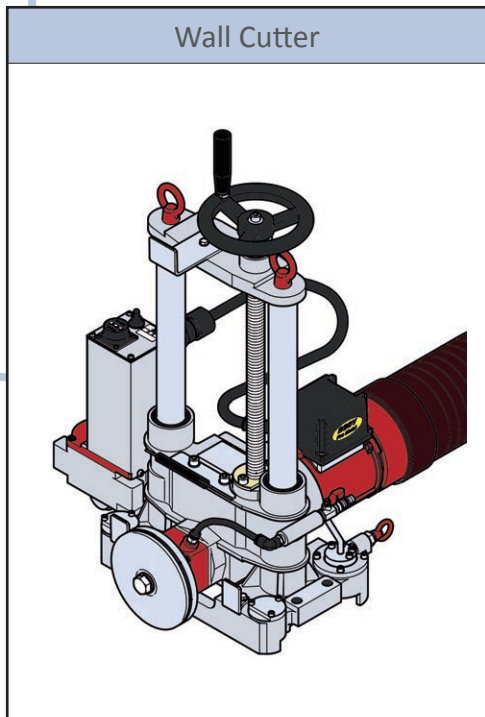
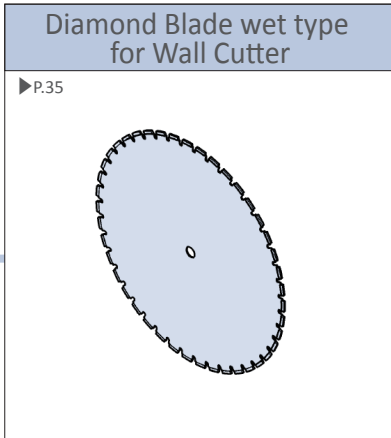
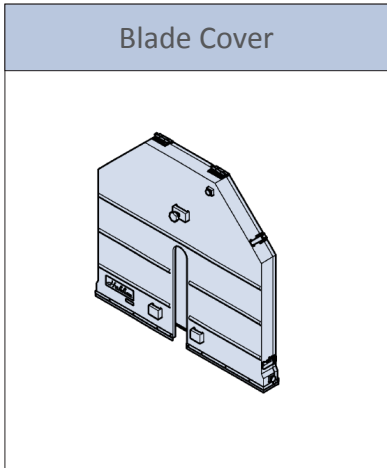
Diamond Wire Saw method is possible to cut reinforced concrete with high speed and low noise.



# Wall Cutter



Wall Cutter consists of Wall Cutter, Blade Cover, Track Rail and Control Box.  
When you order, please choose model of each components.



Coring

Core Drill (Rig type)

Auto Feed EHAC

Core Drill Options

Diamond Core Bit

Dry Hand Core Drill

Cutting

Wall Cutter

Plunge Cutter

Wire Saw

Hydraulic Unit



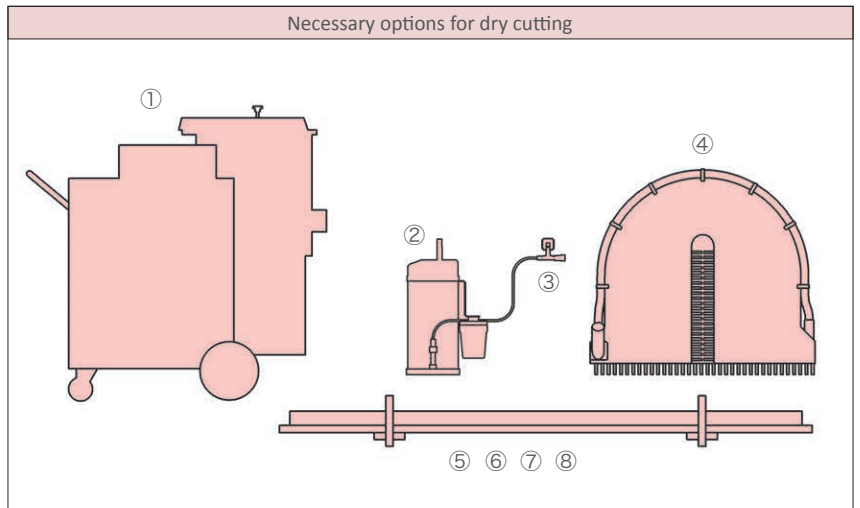
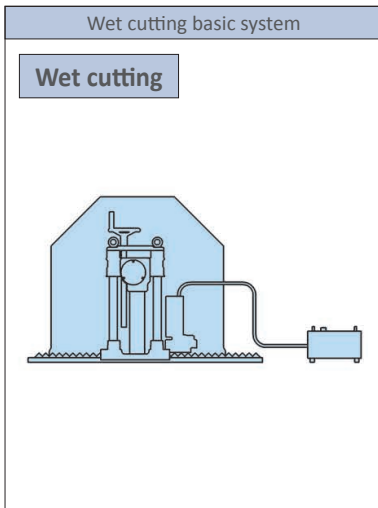
# Wall Cutter

## Wet Cutting and Dry Cutting

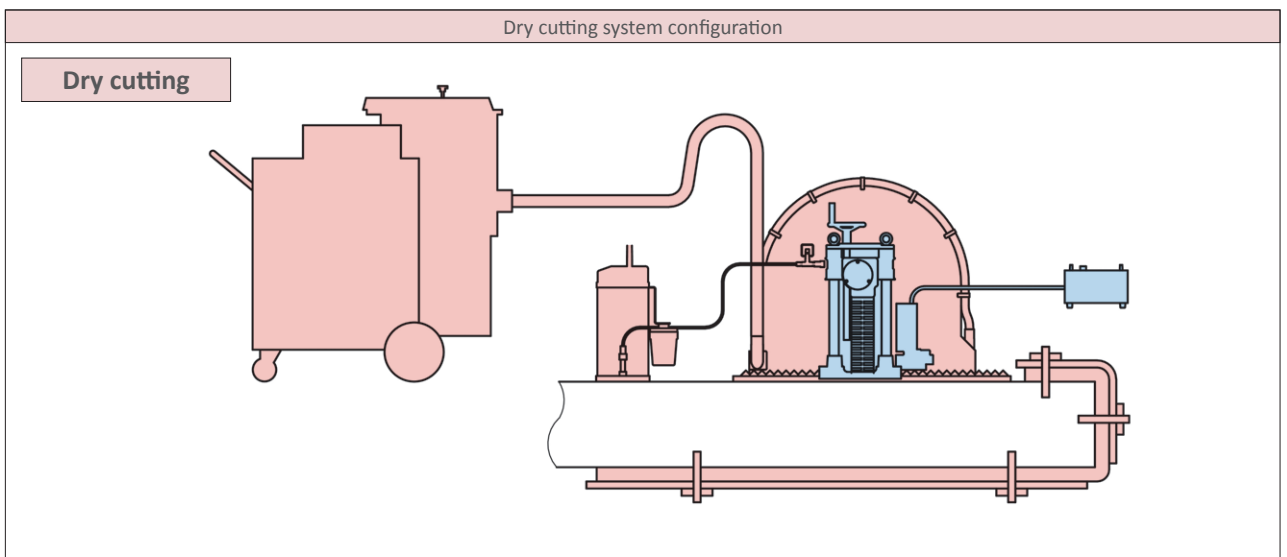
Consec original Wall Cutter is possible to use conventional wet cutting, in addition, as unique method dry mist cutting is also possible.

Dry cutting is used standard Wall Cutter (Electric or Hydraulic) and dry cutting options.

Diamond blade must be used dedicated dry type (See page 36).



Model name	Qty
① Dust Collector	1
② Water Tank	1
③ Water Mist Regulator Assy. DR-5A	1
④ Dry Cutting Blade Cover 30AD	1
⑤ Wire Guard Fitting	As required
⑥ Sponge 1000 (6pcs)	As required
⑦ Pressing Plate for Flat Surface 500 6pcs	As required
⑧ Pressing Plate for Flat Surface 1000 6pcs	As required



Coring

Core Drill  
(Rig type)

Auto Feed  
EHAC

Core Drill  
Options

Diamond  
Core Bit

Dry Hand  
Core Drill

Cutting

Wall Cutter

Plunge Cutter

Wire Saw

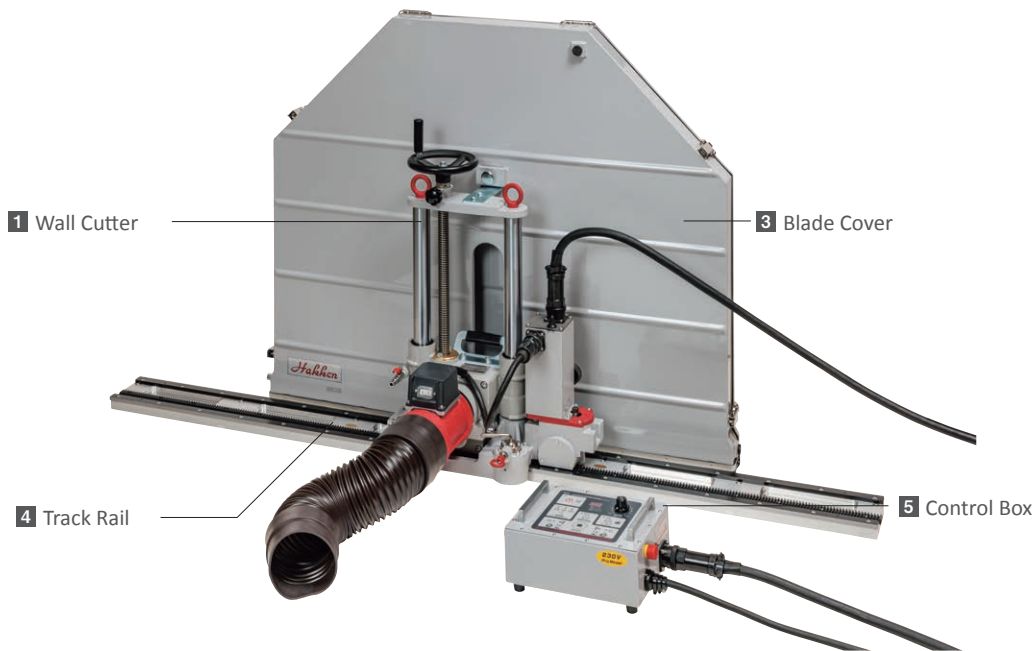
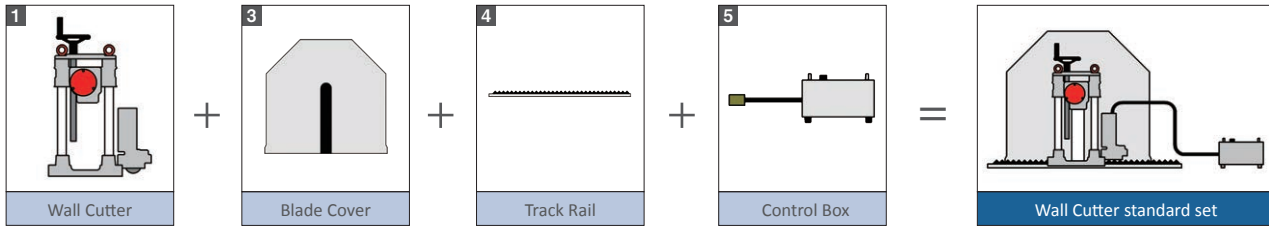
Hydraulic  
Unit

# Wall Cutter

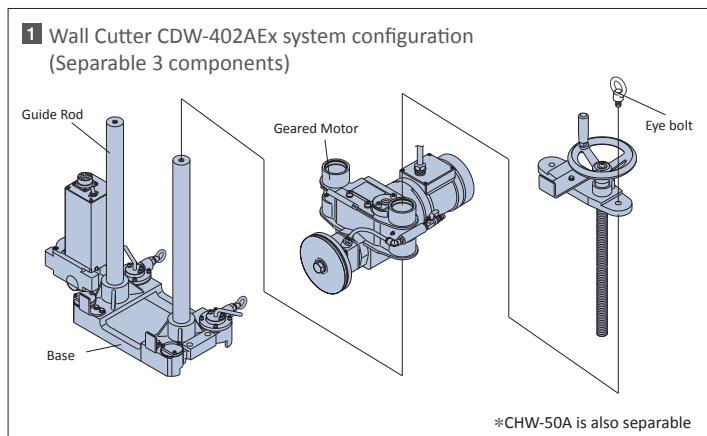
## Electric Wall Cutter CDW-402AEx

Heavy duty electric wall cutter

PAT.4435652



1 Wall Cutter	
Model name	CDW-402AEx
Power supply	Single-phase 230V 50/60Hz
Rated current	15.8A
Rated input	3,630W
No-load speed	320/780min <sup>-1</sup> (Low/High)
Max. blade dia.	40" (1,036mm) Step cut needed using small blade
Max. cutting depth (Blade outer diameter / 2-90)	438mm (In case 40" (1,036mm) blade)
Blade Bore Dia.	35mm
Size (W×L×H)	484×480×754.5mm
Weight(Excluding Cord)	37.5kg

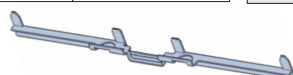


## Common options Blade Cover / Track Rail / Control Box

3 Standard Blade Cover			
Model name	30A	40A	48A
Max. blade dia.	30" (782mm)	40" (1,036mm)	48" (1,240mm)
Weight	9.7kg	13.5kg	18.0kg

4 Track Rail			
Model name	600LA	1200LA	1800LA
Length	600mm	1,200mm	1,800mm
Weight	6.2kg	12.5kg	18.8kg

\*In case of using 48A, we recommend to use Quad Bracket 48A.



Coring

Core Drill  
(Rig type)

Auto Feed  
EHAC

Core Drill  
Options

Diamond  
Core Bit

Dry Hand  
Core Drill

Cutting

Wall Cutter

Plunge Cutter

Wire Saw

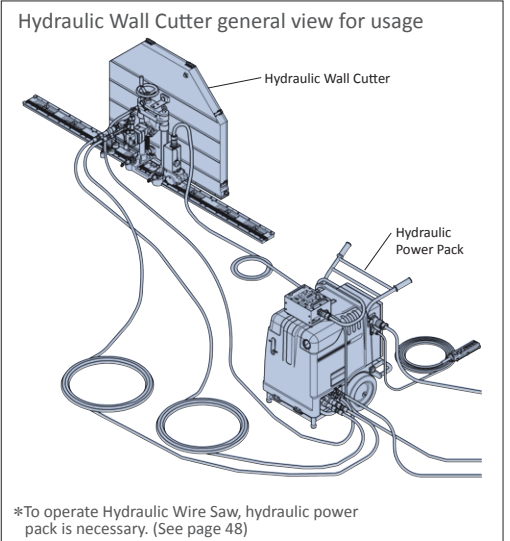
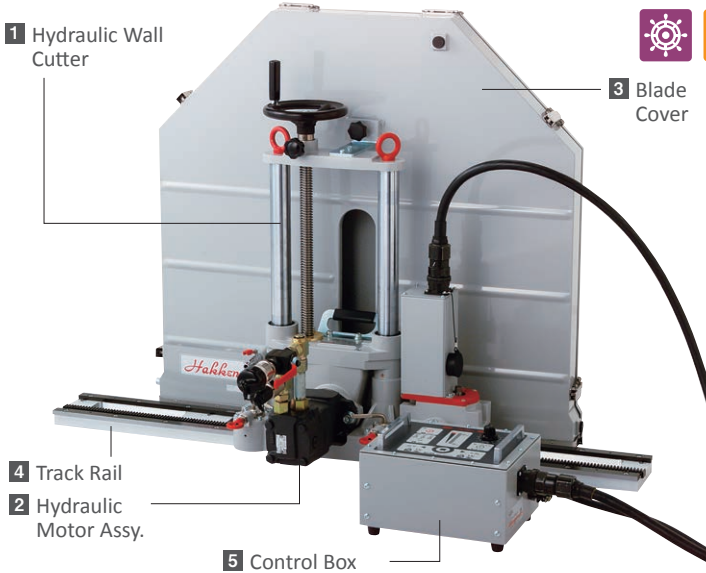
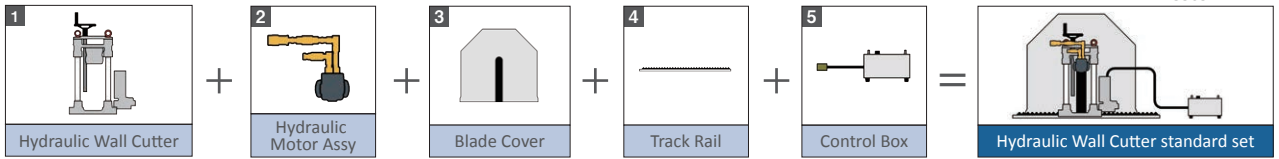
Hydraulic  
Unit

# Wall Cutter

## Hydraulic Wall Cutter CHW-50A

High speed Hydraulic motor

PAT.4435652



1 Hydraulic Wall Cutter	
Model name	CHW-50A
Weight	28kg
Standard accessories	Standard Tool

2 Hydraulic Motor Assy.			
Model name	2060-12A	HB05-16A	HB08-24A
Applicable blade diameter	30"(782mm)	40"(1,036mm)	48"(1,240mm)
Weight	12.0kg	13.0kg	13.3kg
Standard accessories	O-ring, Allen Wrench 10mm, Bolt		



\*This is same motor as page 13 hydraulic core drill SPU-A series

1 + 2 Assembled Hydraulic Wall Cutter Specification				
Model name	CHW-50A			
Standard blade diameter	30"(782mm)			
Blade bore dia.	35mm			
Applicable control box	BE-32Ax (Manual operation must be selected)			
Hydraulic motor model name	2060-12A	HB05-16A	HB08-24A(*)	
Rated pressure	21MPa			
Rated torque	19daN-m	24daN-m	34daN-m	
Max. flow	54ℓ/min	79ℓ/min	95ℓ/min	
Max. rotation speed	850min <sup>-1</sup>	898min <sup>-1</sup>	746min <sup>-1</sup>	
(E-1524A 50/60Hz)	673/807min <sup>-1</sup>	484/580min <sup>-1</sup>	339/407min <sup>-1</sup>	
(E-2002A 50/60Hz)	748/850min <sup>-1</sup>	538/647min <sup>-1</sup>	377/453min <sup>-1</sup>	
Max. Blade Dia.	30"(782mm)	40"(1,036mm)	48"(1,240mm)	
Max. Cutting Depth (Blade outer diameter $\cdot \frac{90}{2}$ )	301mm	428mm	530mm	
Size	Width	484mm		
	Length	410mm	434mm	440mm
	Height	741mm		
Weight	40kg	41kg	41kg	

\*Important:  
CHW-50A cannot be mounted 48" cutting blade without step cut. Firstly required cutting with under 30" cutting blade, then use its cutting slit, 48" cutting blade can be mount on the CHW-50A.

5 Control Box	
Model name	BE-32Ax
Power supply	AC230V 50/60Hz
Max power consumption	150W
Applicable machine	CDW-402AEx DSX-101Ax CHW-50A
Size (265×200×148mm)	265×200×148
Weight	3.9kg

- Automatic feeding controller for electric wall cutter and electric wire saw
- Soft start circuit integrated
- Motor current shows numerical indication
- Manual control is possible
- Motor current is adjustable in 0.5A step from 5A to 16A
- Auto stop function (except CHW-50A)
- Back light helps visibility



Coring

Core Drill (Rig type)

Auto Feed EHAC

Core Drill Options

Diamond Core Bit

Dry Hand Core Drill

Cutting

Wall Cutter

Plunge Cutter

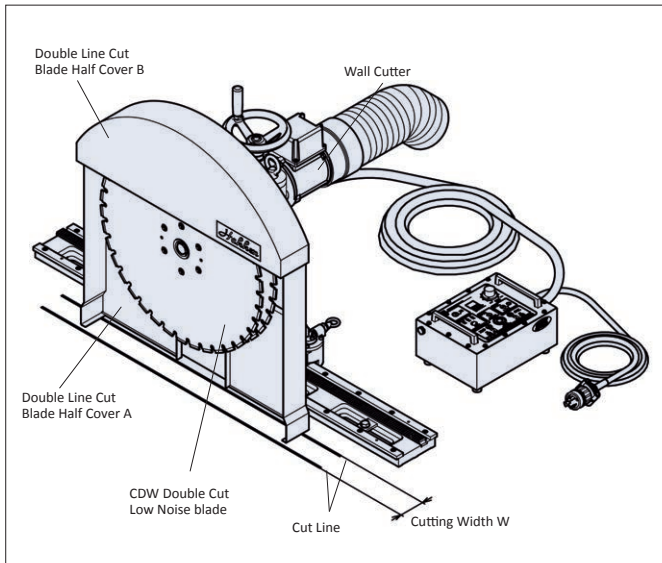
Wire Saw

Hydraulic Unit



# Wall Cutter Options

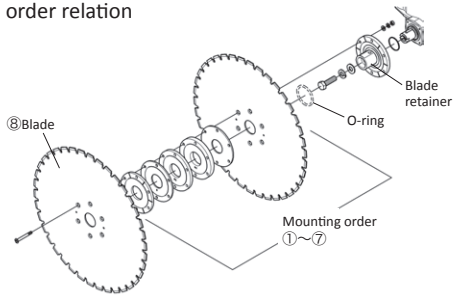
## Double Line Cut Attachment



Specification		
Model name	CDW-402AEx	CHW-50A
Cutting width	20-50mm (5mm interval)	
Blade	1 or 2	

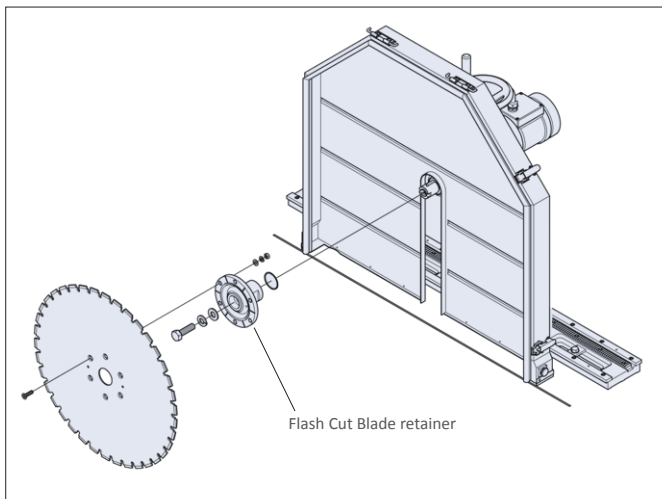
Model name	
CDW Double Cut Flange Set	
	22A
Double Line Cut Full Cover	24A
	26A
	31A
Double Line Cut Half Cover	24A
	26A
	31A

Cutting width and spacer mounting order relation



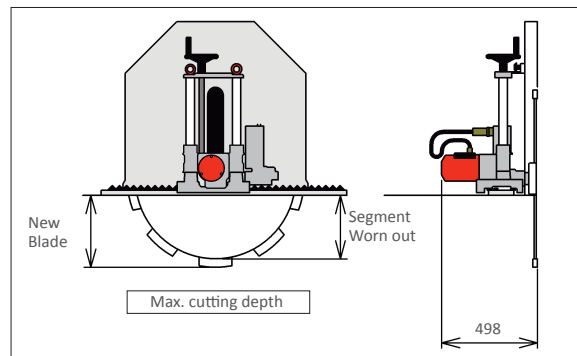
Cutting Width W	Mounting order								
	O-ring	①	②	③	④	⑤	⑥	⑦	⑧
50mm	No	Blade	5mm w/groove	5mm	10mm	15mm	-		
45mm		5mm w/groove	Blade	5mm w/groove	10mm	15mm	-		
40mm		5mm	5mm w/groove	Blade	5mm w/groove	5mm	15mm		
35mm		10mm	5mm w/groove	Blade	5mm w/groove	15mm	-	7.5mm w/groove	Blade
30mm	Yes	15mm	5mm w/groove	Blade	5mm w/groove	10mm	-		
25mm		5mm	15mm	5mm w/groove	Blade	5mm w/groove	5mm		
20mm		10mm	15mm	5mm w/groove	Blade	5mm w/groove	-		
One blade Cutting		3mm black	5mm	5mm	10mm	15mm	-		

## Flash Cut Blade Retainer



Model name
Flash Cut Blade retainer

\*Standard blade cover can be used but need to remove front cover.



\*Blade has to be used "Double Line Cut Blade"

Coring

Core Drill (Rig type)

Auto Feed EHAC

Core Drill Options

Diamond Core Bit

Dry Hand Core Drill

Cutting

Wall Cutter

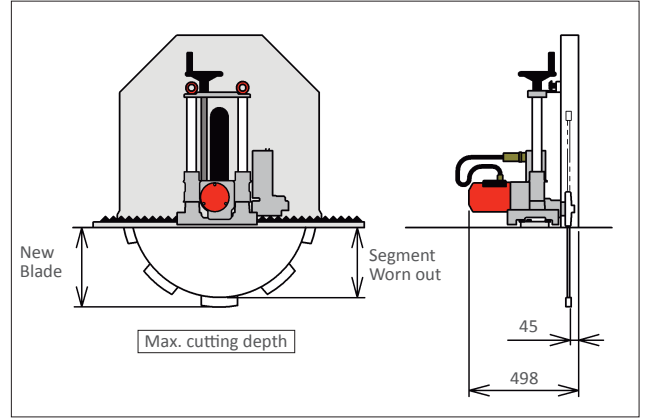
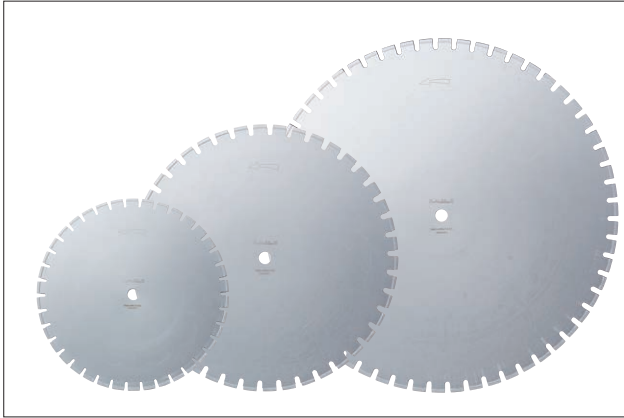
Plunge Cutter

Wire Saw

Hydraulic Unit

# Wall Cutter Diamond Blade (Wet use)

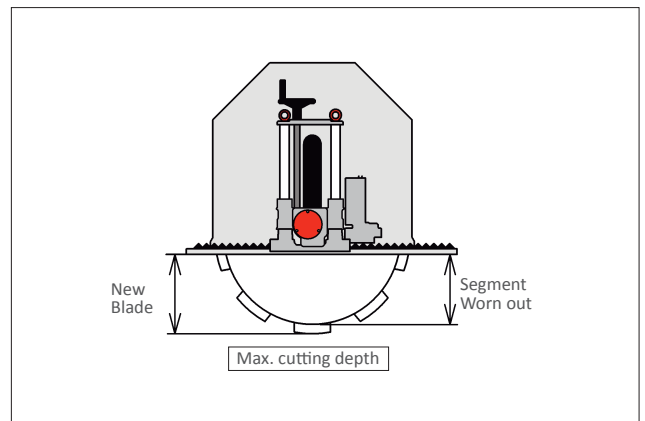
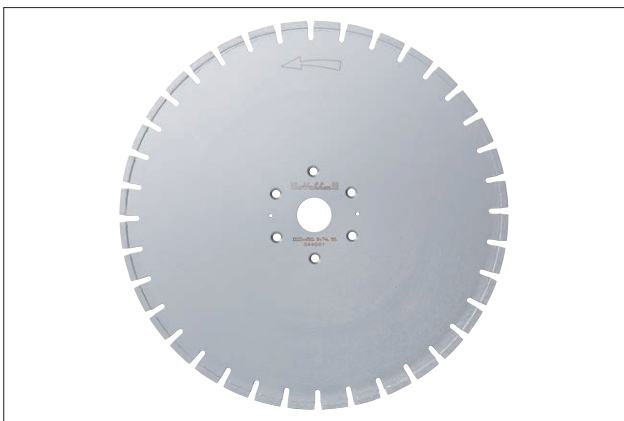
## Wall Cutter Blade



※Dimension not included duct hose

Model name	Size	Segment size		Bore Dia.	Max. cutting depth	
		Thickness	Height		New blade	Segment worn out
Wall Cutter Blade(Low noise)24"×4.5T S	24"	4.5mm	10mm	35mm	235mm	226mm
Wall Cutter Blade(Low noise) 26" x 5T S	26"	5.0mm			260mm	251mm
Wall Cutter Blade(Low noise) 30" x 5T S	30"	5.0mm			311mm	302mm
Wall Cutter Blade(Low noise) 40" x 4.5T S	40"	4.5mm			438mm	429mm
Wall Cutter Blade(Low noise) 48" x 4.5T S	48"	4.5mm			540mm	531mm

## Double Line Cut Blade



■The blade can be set on Double Line Cut Attachment or Flash Cut Blade Retainer.

Model name	Size	Segment size		Bore Dia.	Max. cutting depth	
		Thickness	Height		New blade	Segment worn out
Double Line Cut Blade(Low noise) 22" x 4.5T S	22"	4.5mm	10mm	50.8mm (35mm ring included)	209mm	200mm
Double Line Cut Blade(Low noise) 24" x 4.5T S	24"				235mm	226mm
Double Line Cut Blade(Low noise) 26" x 4.5T S	26"				260mm	251mm
Double Line Cut Blade(Low noise) 30" x 4.5T S	30"				311mm	302mm

Coring

Core Drill  
(Rig type)

Auto Feed  
EHAC

Core Drill  
Options

Diamond  
Core Bit

Dry Hand  
Core Drill

Cutting

Wall Cutter

Plunge Cutter

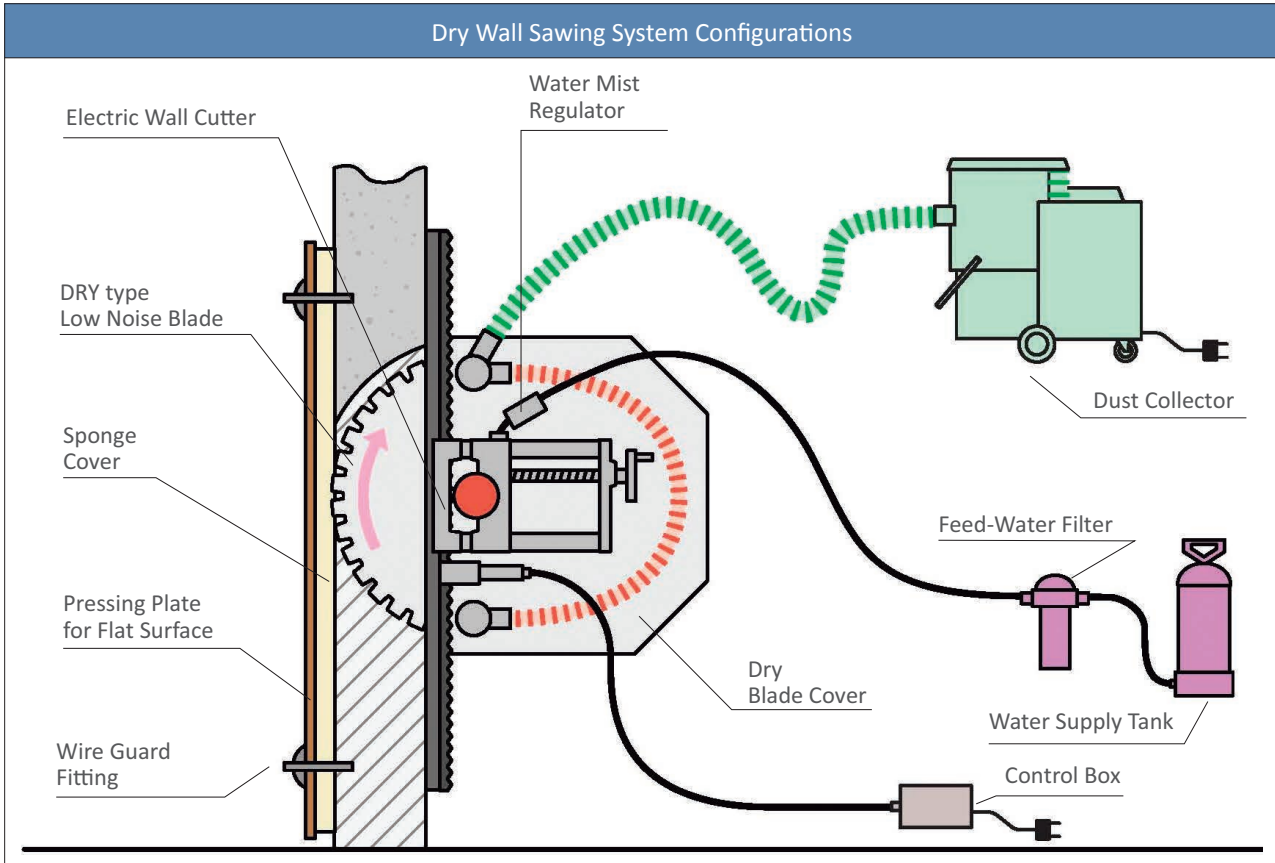
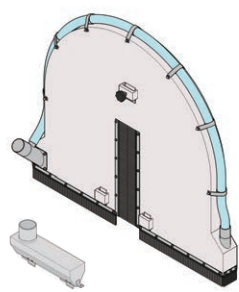
Wire Saw

Hydraulic  
Unit

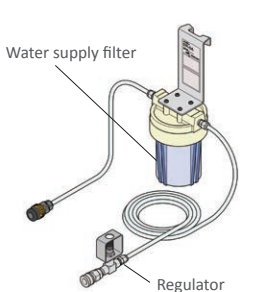
# Dry Wall Sawing System

## Features

- CONSEC Original Dry Wall Sawing System doesn't generate slurry water.
- Sound deadening material is used for diamond blade, minimize the particular dry cutting noise.
- Back side of cutting concrete is covered by dedicated sponge cover, and directly collected concrete dust by Dust Collector. So work field can be always kept clean. Cleaning process is unnecessary at work field.
- Cutting blade cooled by water mist(15ml/min)





Model name  
Dry Blade Cover 30AD



Water supply filter  
Regulator

Model name  
Water Mist Regulator Assy. DR-5A



Model name  
DRY type Low Noise Blade 30"  
DRY type Low Noise Blade 26"  
DRY type Low Noise Blade 22"  
DRY type Low Noise Blade 18"

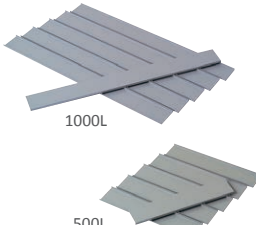


7.5kW high power extractor  
Model name  
Dust Collector VI-0752B



Tank capacity 13 liter, possible to supply water to height.


Model name  
Water Supply Tank T-13B



1000L  
500L

Length 1000mm and 500mm available

Model name  
Pressing Plate for Flat Surface 6pcs  
500L  
1000L



The installation bolt is W3/8.

Model name  
Wire Guard Fitting



Sponge is internally coated to prevent the cutting powder from getting out.

Model name  
Sponge 1000 (6pcs)

Coring

Core Drill (Rig type)

Auto Feed EHAC

Core Drill Options

Diamond Core Bit

Dry Hand Core Drill

Cutting

Wall Cutter

Plunge Cutter

Wire Saw

Hydraulic Unit



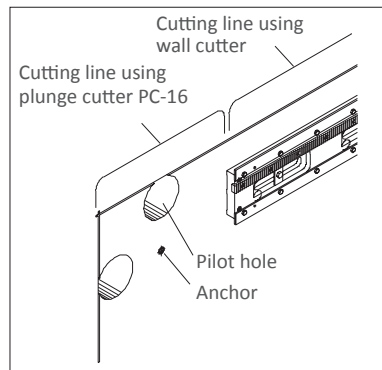
# Plunge Cutter

## What is plunge cutter method?

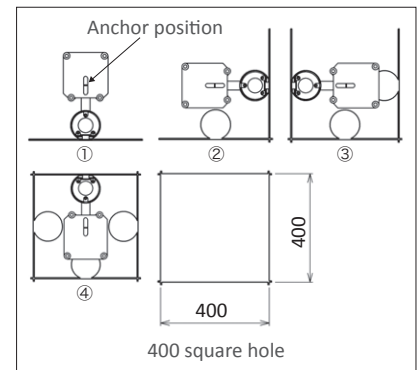
Unlike Wall Cutter which does not allow cutting deeper than the radius of diamond blade, plunge cutter enables cutting of thick reinforced concrete deeper than the diameter of blade by plunging its rotation axis into pilot hole which has to be drilled before plunging.

## Plunge Cut Attachment PC-16

Square opening without over cut



■ No over cut opening is enabled combination with wall cutter



■ Possible to open 350-400 square hole using one anchor

- Consisted of "Main Body of Plunge Cut PC-16", "Cover" and "Pole Base", 3 components
- To make a hole, "Diamond Blade", "Drill Head" and "Core Bit 4\""

Specifications	
Applicable drill head	SPN-201, 202, 203 series
Max. cutting thickness	282mm
Max. blade diameter	16"
Pilot hole	4"(110mm)

Model name	
Main Body of Plunge Cut PC-16	
49x49 Pole Base for Plunge Cut	
Water Collector MS-130F	
Plunge Cut Cover 16"	



Blade for Plunge Cut Attachment PC-16		
Model name	Outer diameter	
Blade for PC-16	8"	218mm
	10"	268mm
	12"	318mm
Low Noise Blade for PC-16	14"	368mm
	16"	418mm

Coring

Core Drill (Rig type)

Auto Feed EHAC

Core Drill Options

Diamond Core Bit

Dry Hand Core Drill

Cutting

Wall Cutter

Plunge Cutter

Wire Saw

Hydraulic Unit

# Wire Saw

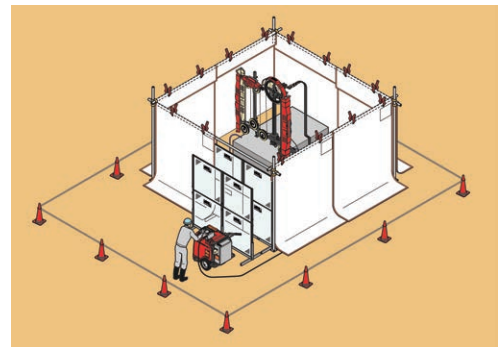


\* Protection board and protection net are temporarily removed for taking photo.

## What is the Diamond Wire Saw ?

Unlike rotational cutting by conventional blade saw, Diamond Wire Saw shows great facility in cutting and demolition for large size of reinforced concrete structures. Cutting is performed by winding diamond wire around the cutting object and traveling the wire with high speed.

PAT.4172887, 4017937, 4147096, 4199524

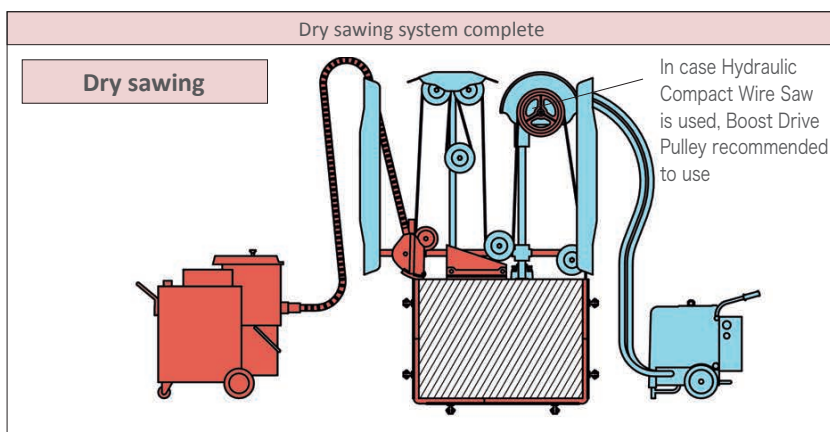
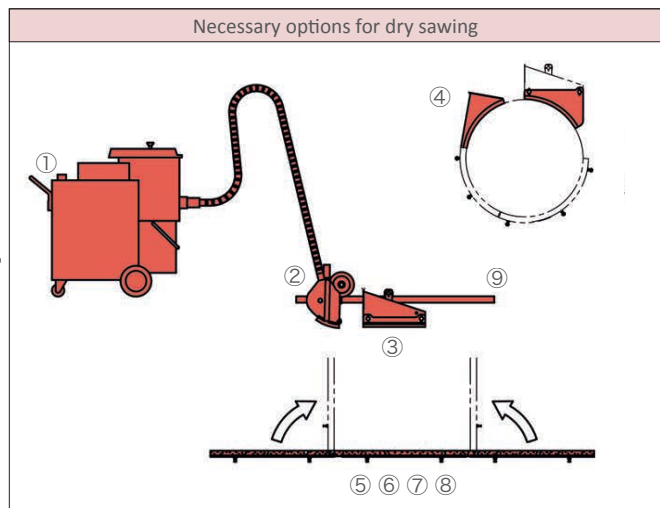
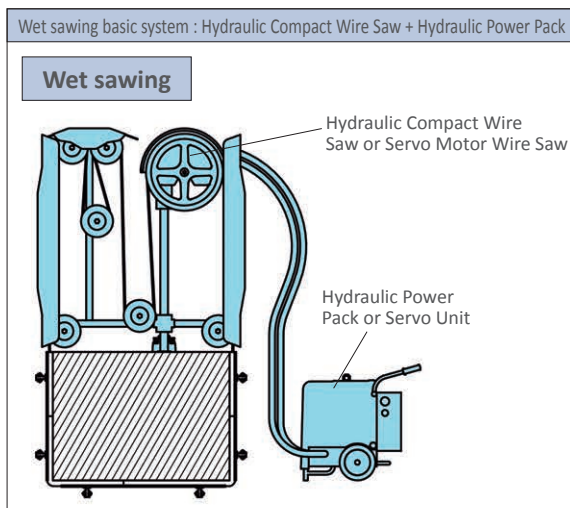


## Wet and Dry Sawing

HAKKEN Wire Saw is possible to use conventional wet sawing with feeding water to the cutting position, furthermore it enables complete dry wire sawing.

In order to do sawing by dry method, basic Hydraulic Compact Wire Saw or Servo Motor Wire Saw is used with dry wire sawing options.

(Refer to page 44・45)



Model name	Qty
① Dust Collector	1
② Intake Guide Pulley Assy.	1
③ Dust Cover Assy.	1
④ R500 Dust Cover Assy.	1*
⑤ Wire Guard Fitting	As required
⑥ Sponge 1000	As required
⑦ Pressing Plate for Curved Surface 1000	As required
⑧ Pressing Plate for Flat Surface 500	As required
Pressing Plate for Flat Surface 1000	As required

\*④ for cutting Cylindrical column  
⑨ Guide Bar should be used necessary length

Coring

Core Drill (Rig type)

Auto Feed EHAC

Core Drill Options

Diamond Core Bit

Dry Hand Core Drill

Cutting

Wall Cutter

Plunge Cutter

Wire Saw

Hydraulic Unit

# Wire Saw

## Hydraulic Compact Wire Saw DSM-103A

Easy setting, transportation  
For civil engineering and construction



Separable components help  
easy work at narrow area  
and height

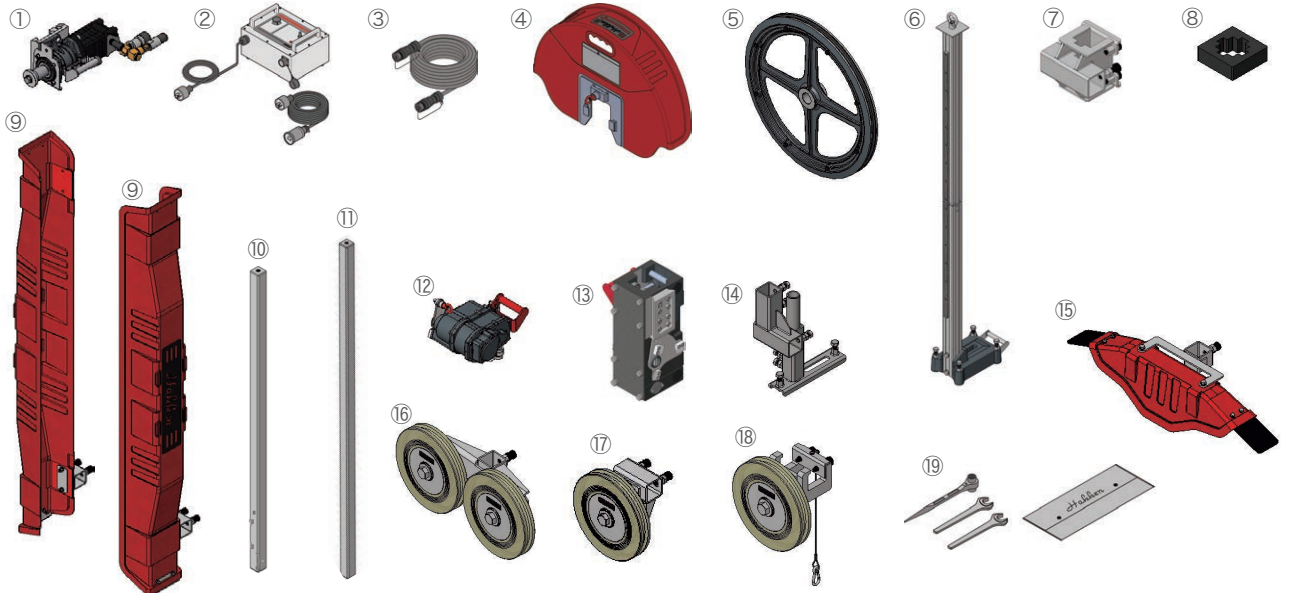


Specifications	
Model name	DSM-103A
Rated pressure	21MPa
Max. rotation speed	850min <sup>-1</sup>
Wire diameter	10-11mm
Wire storage	12.4m
Pulley travel	1.150mm
Applicable hydraulic power pack	E-2002A eco+, E-1524A, E-1124A
Size (W×L×H)	1,904×543×2,076mm
Weight (Excluded control box and cable)	170kg



\*Diamond wire not included

Diamond Wire Saw can be separated following components.



Model name	Qty
① Main Motor Assy. PW-102A	1
② Control Box BW-103A	1
③ Connection Cable 101A	1
④ Main Pulley Cover Assy. 102A	1
⑤ Main Pulley Assy. 103A	1
⑥ Pole Base Assy. 101A	1
⑦ Guide Bar Clamp Assy. 102A	1
⑧ Shock Absorption Rubber DSM	1
⑨ Side Cover Assy. 102A	2
⑩ □50 Guide bar 1500L 101A	1

Model name	Qty
⑪ □50 Guide Bar 1800L 102A	1
⑫ Feed Assy. FW-102A	1
⑬ Carriage Assy. CW-103A	1
⑭ Offset Sub Pole Bracket Assy 102A	1
⑮ Sub Pole Cover Assy 102A	1
⑯ Double φ250 Resin Guide Pulley Assy. GX	1
⑰ φ250 Resin Guide Pulley Assy. GX	3
⑱ φ250 Easy Attaching Resin Guide Pulley Assy. GX	1
⑲ Tool Set 102A	1



# Wire Saw

## Servo Motor Wire Saw DSME-200A

Easy setting, transportation  
For civil engineering and construction



\*Diamond wire not included

Most advanced DSM electric version  
powered by high-power 20kW servo motor

Specifications	
Model name	DSME-200A
Power source	Three phase 400/440V 50/60Hz
Motor power	20kW
Rated current	32A
Output shaft max. torque	276Nm (Boost mode)
Max. rotation speed	850min <sup>-1</sup>
Wire diameter	10-11mm
Wire storage	12.4m
Pulley travel	1,150mm
Size (W×L×H)	1,904×543×2,076mm
Weight (Excluded control box and cable)	180kg



Check the movie

**Electric Wire Saw Drive unit 01 (Package deal) ...A**

Hydraulic Compact Wire Saw DSM-103A can be upgrade Servo Motor Wire Saw DSME-200A with purchasing above 4 components.

Model name	Remarks
Servo Motor Wire Saw DSME-200A	A and ④~⑱ (⑨: 2 pcs, ⑰: 3 pcs)

Model name	Remarks
Electric Wire Saw Drive unit 01	⑳~㉓

Model name
㉔ Servo Motor Assy. EW-200A
㉕ Servo Unit Assy. SW-200A
㉖ Servo Cable Assy. 15m 200A
㉗ Feed Cable Assy. 15m 200A

## Servo Motor Wire Saw Options

### Step Up Transformer

Tough Boy TB-R (Punctureless tire) (6.2kg)

Step Up Transformer

Step Up Transformer for Servo Motor Wire Saw DSME-200A. Three phase 200V power can be raised up three phase 400V. Can be fixed on Tough Boy.

Model name
Step Up Transformer SUT-22A
Tough Boy TB-R (Punctureless tire)

### Storage Case

Hard Case for EW

Storage Case for Servo Motor Wire Saw DSME-200A. For EW: Servo Motor Assy. EW-200A, For SW: Servo Unit Assy. SW-200A, For RW: Remote Controller RW-200A

Model name
Hard Case for EW
Hard Case for SW
Hard Case for RW

Coring

Core Drill (Rig type)

Auto Feed EHAC

Core Drill Options

Diamond Core Bit

Dry Hand Core Drill

Cutting

Wall Cutter

Plunge Cutter

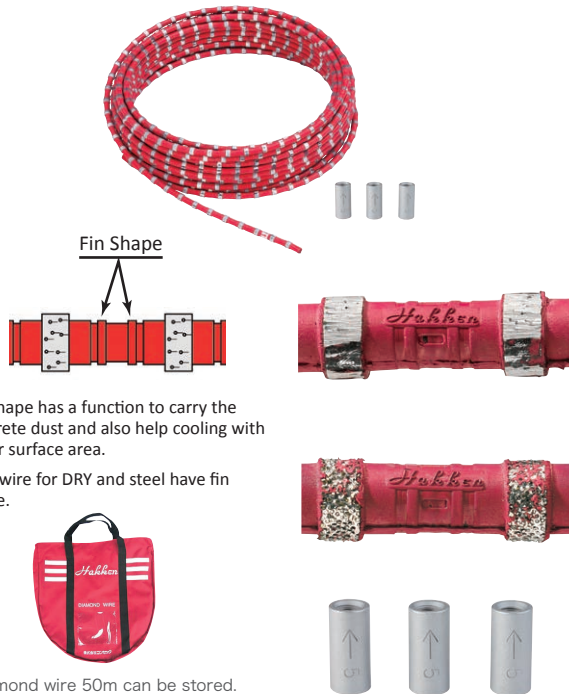
Wire Saw

Hydraulic Unit

# Wire Saw

## Diamond Wire

Wire basic length is 50m. 20m and 30m length are also possible to supply.



Fin Shape has a function to carry the concrete dust and also help cooling with larger surface area.

SVIII wire for DRY and steel have fin shape.

Diamond wire 50m can be stored.

### <SVIII Wire for WET sintered type> (For reinforced concrete)



Beads Dia.	Bond	Features
10.5mm	H	Long Life
	M	Standard
	S	Fast cutting
	P	Premium
	P+	Use for DSME only
11.0mm	H	Long Life
	M	Standard
	P	Premium

※Diamond wire connector is supplied one piece per 2m length

### <SVIII Wire for DRY sintered type> (For reinforced concrete)



Beads Dia.	Bond	Features
10.5mm	D	Used for Dry wire sawing system, rubber has fin shape

※Diamond wire connector is supplied one piece per 2m length

### <SVIII Wire for steel electrodeposition type>



Beads Dia.	Bond	Features
10.5mm	E	Used for steel or reinforced concrete. Dry and wet cutting is possible for reinforced concrete. Steel cutting has to be used with water. Rubber has fin shape

※Diamond wire connector is supplied one piece per 2m length

### <Connector>

Model name	Remarks
Joint Sleeve SVIII 20 pcs	All SVIII Diamond Wire can be connected. 20 pcs per pack.

## Wire Saw Options

### Battery Hydraulic Press

Speedy wire connection is possible with battery drive electric hydraulic press. IP56

Model name	Model name
Battery Hydraulic Press BP-8.5T2	Dies 9-9.5
Battery Pack 14.4V 4.2Ah	Battery Charger
Carrying Case BP	

### Hand Hydraulic Press

Use for diamond wire connection

Model name
Hand Hydraulic Press EP-300N
Dies set for EP-300N

### Wire Cutter

Special cutter for diamond wire

### Double Resin Guide Pulley Assy. GX

Use for increase wire storage

Model name
Double φ200 Resin Guide Pulley Assy. GX
Double φ250 Resin Guide Pulley Assy. GX

### Resin Guide Pulley Assy. GX

Made of urethane resin, high abrasion resistance

Model name
φ200 Resin Guide Pulley Assy. GX
φ220 Resin Guide Pulley Assy. GX
φ250 Resin Guide Pulley Assy. GX

### Easy Attaching Resin Guide Pulley Assy. GX

Made of urethane resin, high abrasion resistance. Possible to mount on pole from middle

Model name
φ200 Easy Attaching Resin Guide Pulley Assy. GX
φ250 Easy Attaching Resin Guide Pulley Assy. GX

### Resin Pulley GX

Made of urethane resin, high abrasion resistance. Replacement pulley

Model name
φ200 Resin Pulley GX
φ220 Resin Pulley GX
φ250 Resin Pulley GX
φ200 Long Life Pulley GX

Coring

Core Drill (Rig type)

Auto Feed EHAC

Core Drill Options

Diamond Core Bit

Dry Hand Core Drill

Cutting

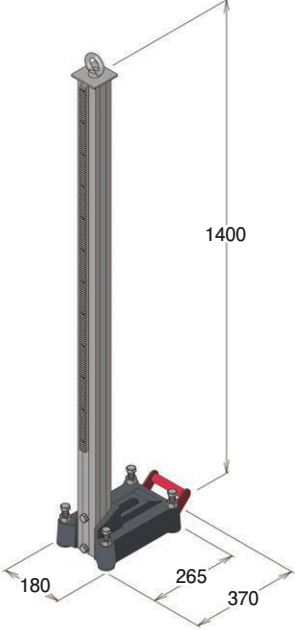





Wall Cutter


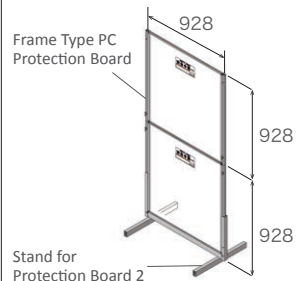
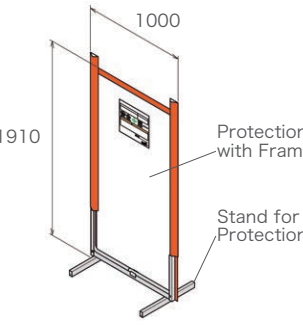
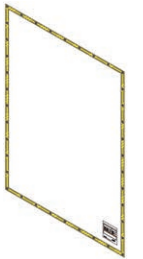
Plunge Cutter





Wire Saw

Hydraulic Unit

# Wire Saw Options

<p><b>Pole Base Assy.102A</b></p>  <p>One piece type pole base. Total height is 1400mm.</p>	<p><b>Pole Base for Guide Pulley</b></p>  <p>Use for wider cutting object. Pole height: 1m</p>	<p><b>Electromagnetic Brake Assy. 101A</b></p>  <p>Brake for slide block. Selector switch on control box turn off, brake is activated.</p>	<p><b>Centrifugal Brake Assy. 102A</b></p>  <p>PAT.5863319</p> <p>Centrifugal brake prevent breakage unexpected falling down of slide block.</p>			
<p><b>Easy Attaching Offset Sub Pole Bracket Assy.102A</b></p>  <p>Easy to change the sub pole position.</p>	<p><b>Adjustable Bracket Assy. 101A / Adjustable Stand Assy. 101A</b></p>  <p>Adjustable Bracket Assy.      Adjustable Stand Assy.      Adjustable Stand Assy.</p> <p>Wire saw can be set up on rounded surface like chimney or uneven place like steps.</p> <table border="1" data-bbox="1037 1097 1388 1176"> <thead> <tr> <th>Model name</th> </tr> </thead> <tbody> <tr> <td>Adjustable Bracket Assy.</td> </tr> <tr> <td>Adjustable Stand Assy.</td> </tr> </tbody> </table>			Model name	Adjustable Bracket Assy.	Adjustable Stand Assy.
Model name						
Adjustable Bracket Assy.						
Adjustable Stand Assy.						

<p><b>Guide Bar</b></p>  <p>Long guide bar</p> <table border="1" data-bbox="113 1568 427 1653"> <thead> <tr> <th>Model name</th> </tr> </thead> <tbody> <tr> <td>Guide bar 1350L 101A</td> </tr> <tr> <td>Guide bar 2000L 102A</td> </tr> </tbody> </table>	Model name	Guide bar 1350L 101A	Guide bar 2000L 102A	<p><b>Frame Type PC Protection Board</b></p>  <p>Stand for Protection Board 2</p> <table border="1" data-bbox="432 1568 746 1653"> <thead> <tr> <th>Model name</th> </tr> </thead> <tbody> <tr> <td>Frame Type PC Protection Board</td> </tr> <tr> <td>Stand for Protection Board 2</td> </tr> </tbody> </table>	Model name	Frame Type PC Protection Board	Stand for Protection Board 2	<p><b>Wire Saw Protection Cloth with Frame</b></p>  <p>Stand for Protection Board 2</p> <table border="1" data-bbox="751 1568 1066 1653"> <thead> <tr> <th>Model name</th> </tr> </thead> <tbody> <tr> <td>Wire Saw Protection Cloth with Frame</td> </tr> </tbody> </table>	Model name	Wire Saw Protection Cloth with Frame	<p><b>Wire Saw Protection Cloth 1.5x2m</b></p>  <table border="1" data-bbox="1070 1568 1391 1653"> <thead> <tr> <th>Model name</th> </tr> </thead> <tbody> <tr> <td>Linking Wire Saw Protection Cloth 1.5x2m</td> </tr> <tr> <td>Linking Pin (15 pcs)</td> </tr> </tbody> </table>	Model name	Linking Wire Saw Protection Cloth 1.5x2m	Linking Pin (15 pcs)
Model name														
Guide bar 1350L 101A														
Guide bar 2000L 102A														
Model name														
Frame Type PC Protection Board														
Stand for Protection Board 2														
Model name														
Wire Saw Protection Cloth with Frame														
Model name														
Linking Wire Saw Protection Cloth 1.5x2m														
Linking Pin (15 pcs)														

<p><b>Easy Attaching Water Supply Hose Assy. 101A</b></p>  <p>Possible to mount □50 Guide bar or scaffold pipe.</p>	<p><b>Water Stop Packing</b></p>  <p>Possible to save cutting water with inserting in cut slit. Because water doesn't flow out and can keep the water around Diamond wire.</p>	<p><b>Resin Wedge(20pcs)</b></p>  <p>Use for making the space to prevent diamond wire stuck.</p>	<p><b>Diamond Wire Bag</b></p>  <p>50m of diamond wire can be stored.</p>
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Coring

Core Drill (Rig type)

Auto Feed EHAC

Core Drill Options

Diamond Core Bit

Dry Hand Core Drill

Cutting

Wall Cutter

Plunge Cutter

Wire Saw

Hydraulic Unit



# Wire Saw Options

Coring

Core Drill  
(Rig type)

Auto Feed  
EHAC

Core Drill  
Options

Diamond  
Core Bit

Dry Hand  
Core Drill

Cutting

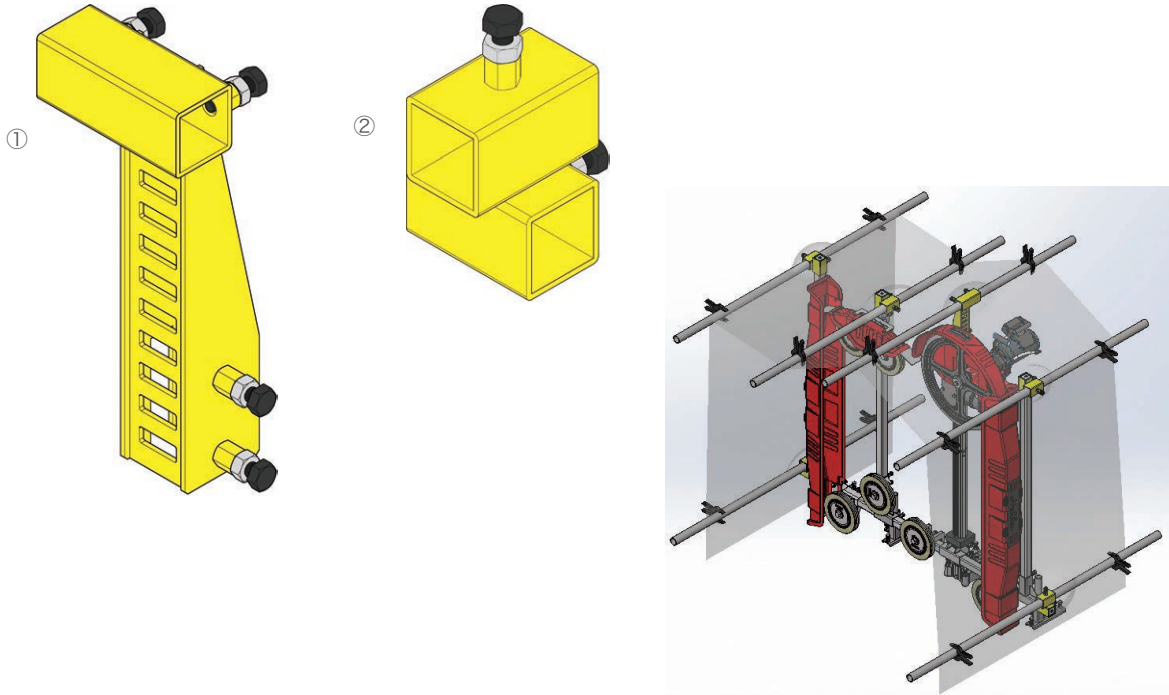
Wall Cutter

Plunge Cutter

Wire Saw

Hydraulic  
Unit

## Protection Cloth Attachment

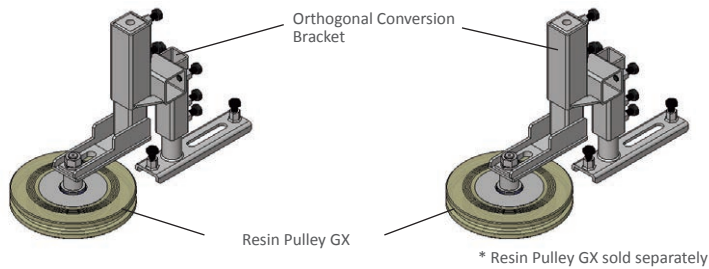


Linking Wire Saw Protection Cloth can be easily set up on wire saw machine with using Protection Cloth Attachment for securing safety. Protection Cloth Attachment should be mounted on Pole Base or Guide Bar and use pipe as a frame.

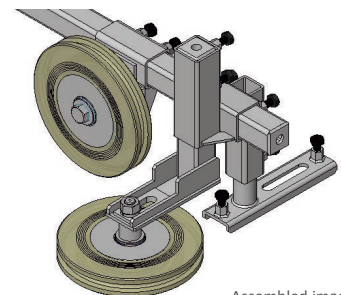
### Model name

①	Protection Cloth attachment for Pole Base
②	Protection Cloth attachment for Guide Bar

## Orthogonal Conversion Bracket



It is used when the Diamond Wire is needed to change direction orthogonally. Need to order 2 pcs for use.



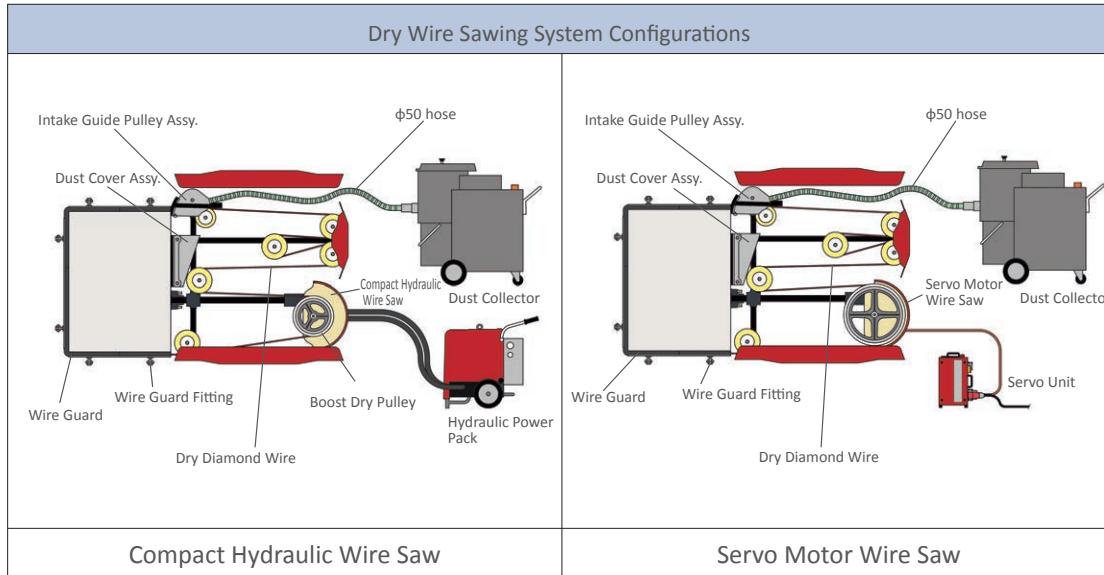
Assembled image

# Dry Wire Sawing System

CONSEC ORIGINAL Dry Wire Sawing System is an innovative construction method, which cuts reinforced concrete construction same speed as conventional wet wire sawing with using dedicated DRY diamond wire by adding Intake Guide Pulley Assy., Dust Collector to Hydraulic Compact Wire Saw DSM-103A or Servo Motor Wire Saw DSME-200A.

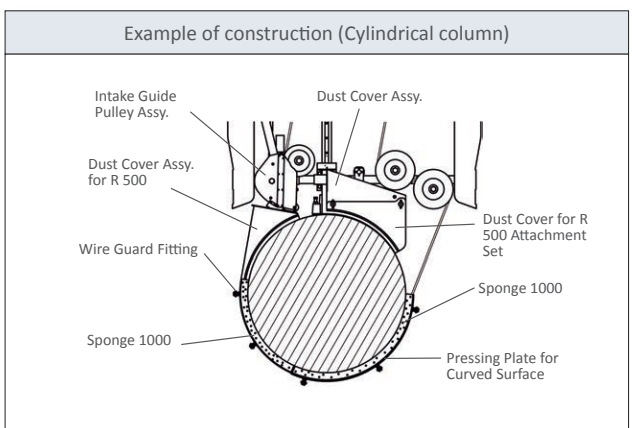
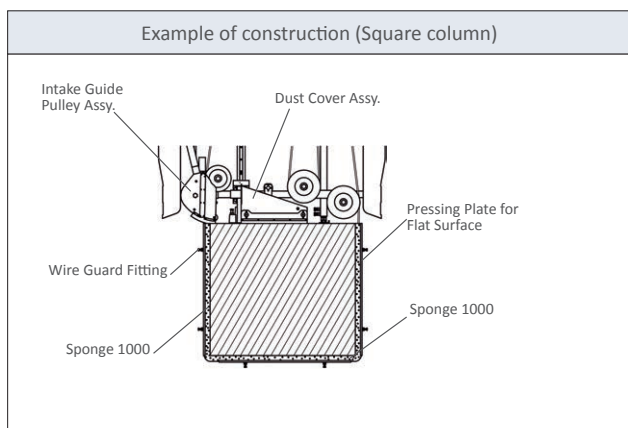
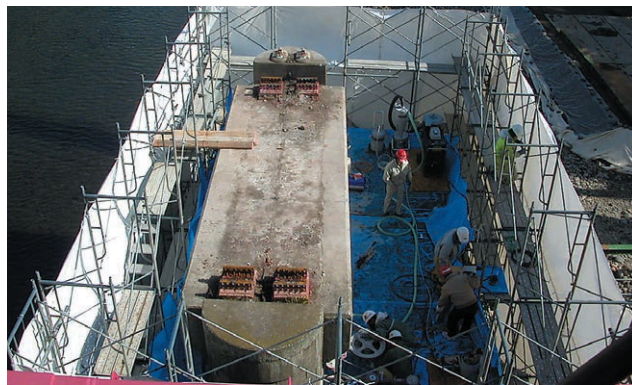
## FEATURES

- Unnecessary to think about slurry pollution because of not generating slurry water by dry sawing method.
- Cutting dust is collected directly into dust collecting bag, no need to clean working place.
- Dedicated Dry Diamond Wire has a cooling fin shape, and the fin can also carry the cutting dust.



## CONSEC ORIGINAL DRY WIRE SAW APPLICATION EXAMPLE

- Dry Wire Sawing System is low noise and no water leakage. Possible to open the shop at first floor, with doing wire sawing at second floor simultaneously.
- No large volume slurry water generated, efficient wire sawing is possible in underground or indoor.
- Sawing work at the bridge over a rivers or seas, the installation of oil fence is not required. Environmentally friendly construction is possible with our techniques.







- Coring
- Core Drill (Rig type)
- Auto Feed EHAC
- Core Drill Options
- Diamond Core Bit
- Dry Hand Core Drill

- Cutting
- Wall Cutter
- Plunge Cutter
- Wire Saw

- Hydraulic Unit

# Dry Wire Sawing options

Coring

Dust Collector	Boost Dry Pulley	Intake Guide Pulley Assy.	Dust Cover Assy.
		PAT.4113805 	
3 phase 7.5kW high power dust collector. Dual use wet and dry. Model name: Vi0752B	Dedicated dry wire sawing for DSM series. Sawing speed is 1.3 times than standard pulley.	As cutting progresses, collect the concrete dust securely by following dust position.	Dust cover for finishing phase for cutting.

Core Drill (Rig type)

Auto Feed EHAC

Core Drill Options

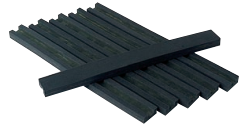
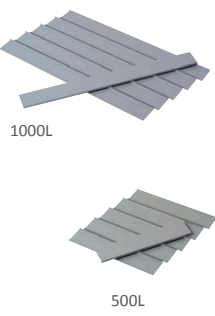
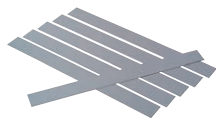

Diamond Core Bit

Nozzle Pulley Assy.	Water Supply Tank T-38	Dust Cover Assy. for R 500 and Attachment Set	Guide Bar 2 1600L	Wire Guard Fitting
				
Pulley equipped mist nozzle which sprayed 5 liter per hour. Included water supply hose 20m. Used for dry mist wire sawing method.	36 liter capacity. Used for dry mist wire sawing method.	Used for curved surface cutting. In case of column, diameter $\phi 1000 \pm 100$	For mount dry mist options for wire saw. Side Cover Assy cannot be mounted on original Guide Bar 1350L.	The installation bolt is W3/8.

Dry Hand Core Drill

Cutting

Wall Cutter

Sponge 1000 (6pcs)	Pressing Plate for Flat Surface 6pcs	Pressing Plate for Curved Surface 6pcs	Compressor
			
Sponge is internally coated to prevent the cutting powder from getting out.	Length 1000mm and 500mm available	Possible to use up to R300mm. Length: 1000mm	Commercial item

Plunge Cutter

Wire Saw

Hydraulic Unit

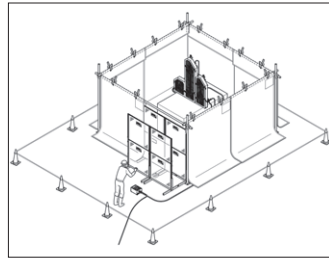


# Electric Wire Saw DSX-10Ax

Compact wire saw

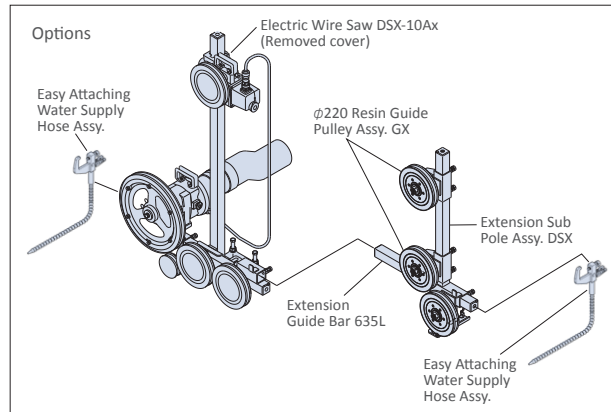
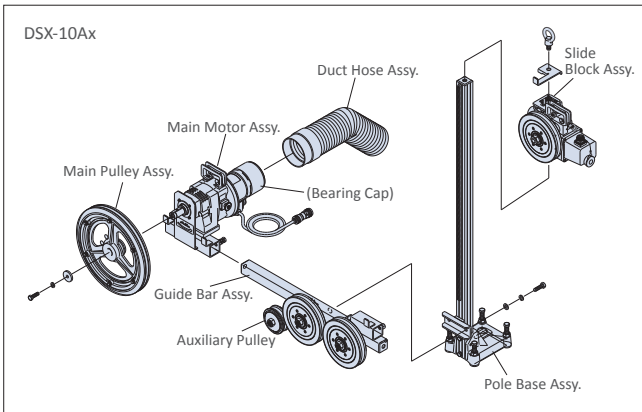


PAT.4714858



Do not need to prepare Hydraulic Power Pack. 0.6m<sup>2</sup> sawing section is most suitable.

Specifications	
Model name	DSX-10Ax
Power source	Single phase 230V 50/60Hz
Rated current	15.8A
Rated input	3,630W
No-load rotation speed	HI 1,000min <sup>-1</sup> LOW 420min <sup>-1</sup>
Cutting capacity	0.65m <sup>2</sup> (φ910)
Size (W×L×H)	919×532×1,486mm
Weight	78kg
Consisted of Main Motor Assy., Slide Block Assy., Main Pulley Assy., Pole Base Assy., Guide Bar Assy., Main Cover Assy. Slide Block Cover Assy., Motor Cover Assy., Duct Hose Assy.	



Control Box BE-32Ax	
<ul style="list-style-type: none"> <li>Automatic feeding controller for electric wall cutter and electric wire saw</li> <li>Soft start circuit integrated</li> <li>Motor current shows numerical indication</li> <li>Manual control is possible</li> <li>Motor current is adjustable in 0.5A step from 5A to 16A</li> <li>Auto stop function (except CHW-50A)</li> <li>Back light helps visibility</li> </ul>	
Model name	BE-32Ax
Power source	Single phase 230V 50/60Hz
Max. power consumption	150W
Applicable machine	CDW-402AEx DSX-101Ax CHW-50A
Size (W×L×H)	265×200×148mm
Weight	3.9kg

# Electric Wire Saw Options

Main Motor DSX-10Ax	Main Pulley Assy. DSX	Options for Extension	Easy Attaching Water Supply Hose Assy. 101A				
Motor with gear box for drive Main Pulley	Dedicated Main Pulley for DSX. Outer diameter: 400mm	<table border="1"> <thead> <tr> <th>Model name</th> </tr> </thead> <tbody> <tr> <td>φ220 Resin Guide Pulley Assy. GX</td> </tr> <tr> <td>Extension Sub Pole Assy. DSX</td> </tr> <tr> <td>Extension Cover Assy. DSX</td> </tr> </tbody> </table>	Model name	φ220 Resin Guide Pulley Assy. GX	Extension Sub Pole Assy. DSX	Extension Cover Assy. DSX	Water supply position is movable
Model name							
φ220 Resin Guide Pulley Assy. GX							
Extension Sub Pole Assy. DSX							
Extension Cover Assy. DSX							

Coring

Core Drill (Rig type)

Auto Feed EHAC

Core Drill Options

Diamond Core Bit

Dry Hand Core Drill

Cutting

Wall Cutter

Plunge Cutter

Wire Saw

Hydraulic Unit

# Utility Pole Wire Saw UPW-100A

Dry diamond wire saw operated by hydraulic developed for cutting concrete pole. Possible to cut concrete pole near to the wall and narrow space.



Check the movie

Easy set up only 2 pieces of chain used for fixing concrete pole. No water needed, clean cutting.



### 《Recommended power pack and dust extractor》

Power pack	E-1124A, E-1524A, E-2012A eco*
Dust collector (Commercial item)	Suction power: Not less than 300W Capacity: Not less than 25 liter



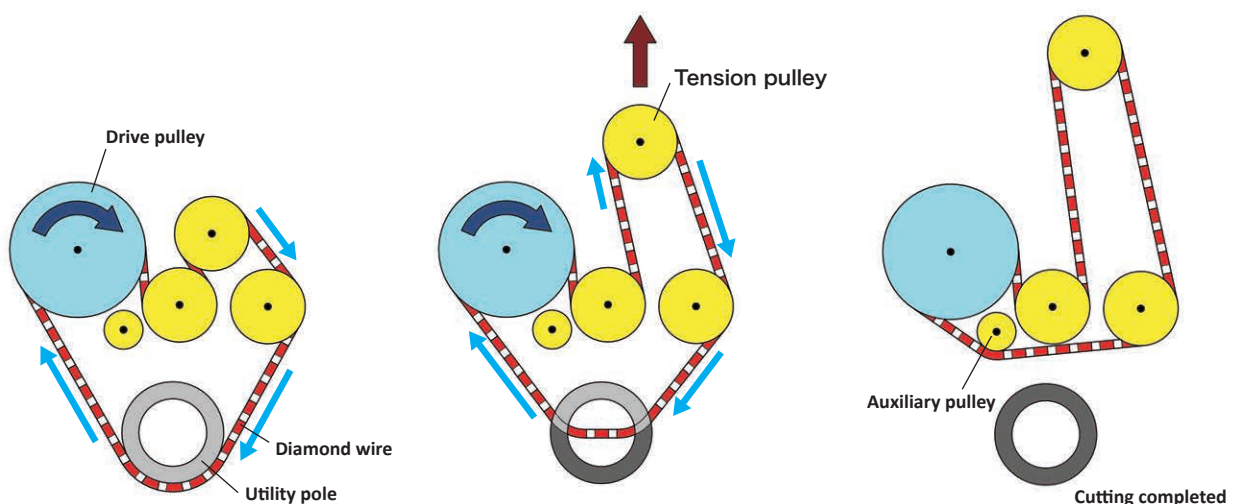
Specification	
Model name	UPW-100A
Concrete Pole Dia.	φ260~340mm
Hydraulic motor spec	Rated Pressure: 20.5MPa, Max. Flow: 54 liter/min
Recommended Hydraulic source spec	Pressure: 20.5MPa, Flow: Over 40 liter/min
Applicable Diamond Wire (Dia. × Length)	φ10.5mm × 4m
Dust collection nozzle dia.	φ38 (Adapted hose inner dia. φ38)
Power source (Control Box)	AC100V (Over 1kVA Generator needed)
Size (W×H×L)	1,029×804×1,433~1,478mm
Weight (Excluded Control Box and Cable)	95kg
Standard accessories	Control Box UPW (Power cable: 10m) Connection Cable 20m Single-ended Wrench 13mm Hex. Bar Wrench 4mm

### 《Dedicated Dry Diamond Wire》

Model name	UPW Wire φ10.5-D
Wire length	4m (Screw type connector already caulked)



## Utility Pole Wire Saw cutting process



Diamond wire surrounded utility pole moves rotationally by drive pulley.

Tension pulley moves and applied tensile force, then utility pole cutting proceeded.

Utility pole cut completely when tension pulley reaches stroke end. After finishing cutting, auxiliary pulley catches the diamond wire.

Coring

Core Drill (Rig type)

Auto Feed EHAC

Core Drill Options

Diamond Core Bit

Dry Hand Core Drill

Cutting

Wall Cutter

Plunge Cutter

Wire Saw

Hydraulic Unit

## Compact Hydraulic Unit E-2012A(x) eco+



### Applicable model

- Hydraulic Compact Wire Saw DSM series
- Hydraulic Core Drill SPU series
- Hydraulic Wall Cutter CHW series

Specifications		
Model name	E-2012A eco+	E-2012Ax eco+
Power source	Three phase 200/230V 50/60Hz	Three phase 400V 50/60Hz
Motor	Water-cooled 20kW 2P	
Max. pressure	28MPa	
Discharge	50Hz	23.5-54.5 litter/min
	60Hz	28.3-65.6 litter/min
Oil Tank Capacity	20 litter	
Size (WxLxH)	680x943x902~1,242mm	
Weight	240kg	

## Hydraulic Unit E-1524A(x)



### Applicable model

- Hydraulic Compact Wire Saw DSM series
- Hydraulic Core Drill SPU series
- Hydraulic Wall Cutter CHW series

Specifications		
Model name	E-1524A	E-1524Ax
Power source	Three phase 200/230V 50/60Hz	Three phase 400V 50/60Hz
Motor	15kW	
Max. pressure	21MPa	
Discharge	50Hz	23.6-43.1 litter/min
	60Hz	28.2-51.7 litter/min
Oil Tank Capacity	60 litter	
Size (WxLxH)	670x1,090x874mm	
Weight	350kg	

## Hydraulic Unit E-1124A(x)



### Applicable model

- Hydraulic Compact Wire Saw DSM series
- Hydraulic Core Drill SPU series
- Hydraulic Wall Cutter CHW series

Specifications		
Model name	E-1124A	E-1124Ax
Power source	Three phase 200/230V 50/60Hz	Three phase 400V 50/60Hz
Motor	11kW	
Max. pressure	21MPa	
Discharge	50Hz	23.6-43.1 litter/min
	60Hz	28.2-51.7 litter/min
Oil Tank Capacity	60 litter	
Size (WxLxH)	670x1,090x874mm	
Weight	330kg	

## Options for Hydraulic Unit

<p>Hydraulic Hose Assy. Nitto Coupling 20m 5/8</p> <p>Possible to use for extension</p>	<p>Conversion Adaptor B male - F male 1/2</p> <p>Use for conversion Bridgestone coupling and Nitto flat face coupling</p>	<p>Conversion Adaptor B female - F female 1/2</p> <p>Use for conversion Bridgestone coupling and Nitto flat face coupling</p>	<p>Depressurization Tool for Hydraulic Hose</p> <p>Open the coupling to relieve pressure</p>
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Coring

Core Drill (Rig type)

Auto Feed EHAC

Core Drill Options

Diamond Core Bit

Dry Hand Core Drill

Cutting

Wall Cutter

Plunge Cutter

Wire Saw

Hydraulic Unit



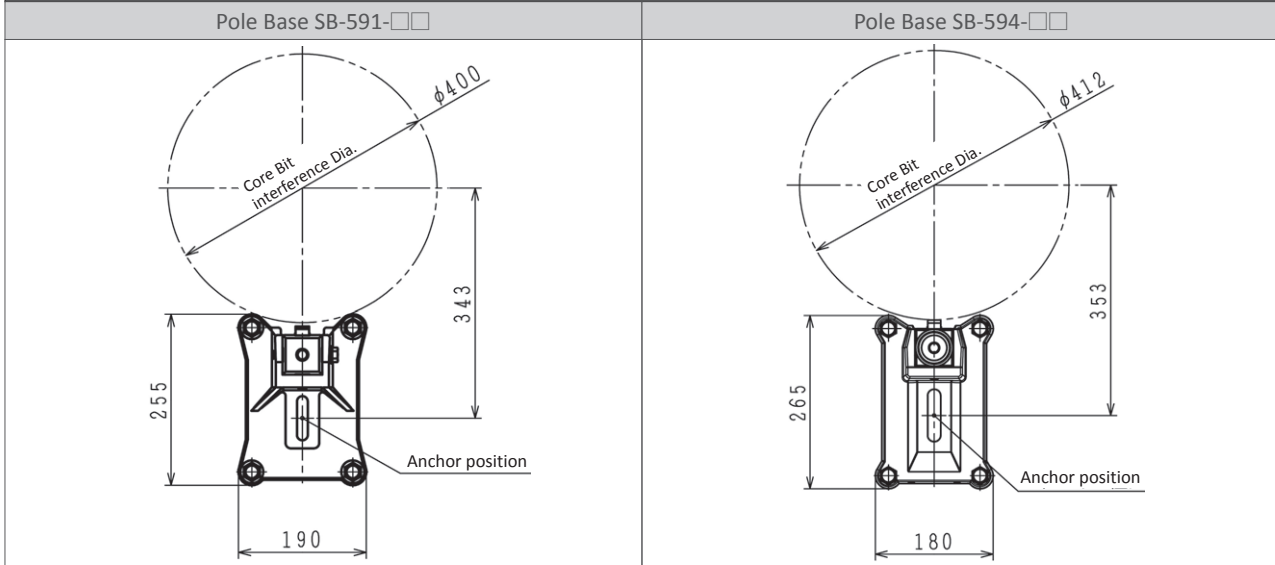
# Technical data

## Pole base size and maximum core bit diameter

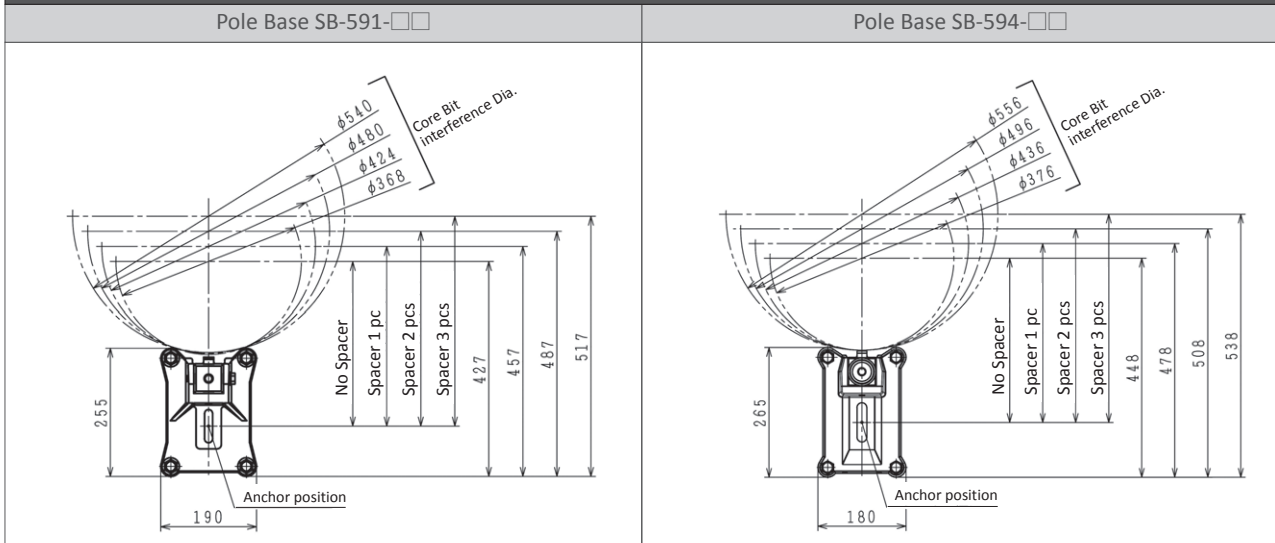
■SPJ-123(122) series		■SPF-161(181) series		
Pole Base SB-401-□□	Pole Base SB-491-□□	Pole Base SB-492-□□	Pole Base SB-492-□□	Pole Base SB-494-□□
■SPN-203 series				
Pole Base SB-491-□□	Pole Base SB-492-□□	Pole Base SB-493-□□	Pole Base SB-494-□□	
■SPZ-253(053) series				
Pole Base SB-491-□□	Pole Base SB-492-□□	Pole Base SB-493-□□	Pole Base SB-494-□□	

# Technical data

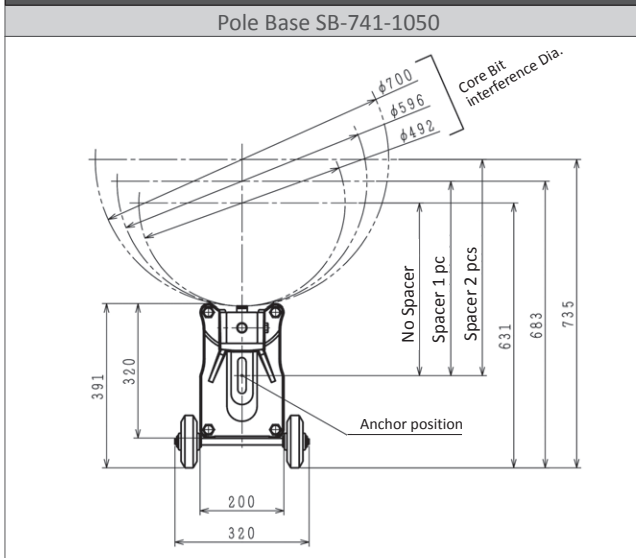
## ■ SPM-303 series



## ■ SPE-400 series (Mountable Spacer: 3 pcs), ■ SPO-400 series (Mountable Spacer: 3 pcs) ■ SPX-401 series (Mountable Spacer: 3 pcs)



## ■ SPX-601 series (Mountable Spacer: 2 pcs)



## ■ SPU-12A,16A series (No Spacer) ■ SPU-24A (Mountable Spacer: 2 pcs) ■ SPU-800A (Mountable Spacer: 4 pcs)

