

DCS  **ENG**

S-Cutter

Pipe Cutting & Beveling Machine

INNOBIZ  ISO 9001 ISO 14001
www.s-cutter.co.kr www.dcseng.co.kr



Company History

- 2008** Establishment of DCSENG CO., LTD.
Selected for the Ministry of Knowledge Economy's Technology Incubation Project(TBI)
- 2009** Factory Registration
- 2010** Release of Pipe Cutting & Beveling Machine 'S-500'
Venture Business Registration
- 2011** Acquisition of CE mark for 'S-500'
Accreditation of ISO9001 / ISO14001 Certificates for Quality Management System
Acquisition of Clean Business Certificate
- 2012** Establishment of Affiliated Research Institute
- 2013** Release of Pipe Cutting & Beveling Machine 'S-150'
Release of Portable Hand Beveler 'S-CM4'
Start exporting to China, Japan and Vietnam (Indirect exports : Africa / Arab Emirates)
Founded a Branch Office in Japan
- 2014** Acquisition of CE mark for 'S-150'
Capital Increase from 50 million KRW to 642 million KRW
Acquisition of Best Family-Friendly Management Certificate
- 2015** Release of Dual Cutting & Beveling Full Automatic Machine 'S-300HV' and 'S-600HV'
Acquisition of Management Innovation Business Certificate
Awarded the Patent Technology Prize
Construction and relocation to new head office building and factory
Establishment of a Branch Office in China
- 2016** Release of Pipe Cutting & Beveling Machine 'S-LT Series'
- 2017** Establishment of a Branch Office in Vietnam and Russia
Acquisition of CE mark for 'S-LT Series'
- 2018** Establishment of a Branch Office in Singapore and Thailand
- 2019** Release of Squaring Facing Machine 'S-EM0.5' and 'S-EM1.0'
Release of Tungsten Grinder 'S-TGR' and 'S-TGF'
Acquisition of CE mark for 'S-EM Series' and 'S-TG Series'
- 2020** Establishment of a Branch Office in Malaysia
Release of Tungsten Grinder 'S-TGS_C' and 'S-TGS_CL'
Acquisition of CE mark for 'S-TGS Series'
- 2021** Establishment of a Branch Office in Germany
Release of Portable Mounted-type Beveling Machine 'S-CM4_M_GC'
Release of Squaring Tube Cutting Machine 'S-TCA1.0'
Release of Portable Coating Removal Machine 'S-CM4_OD_GC, S-FRI_ID3, S-FRI_OD3, S-FRI_ID4, S-FRI_OD4'
- 2022** Acquisition of CE mark for 'S-FRI Series'
- 2023** Release of Automatic Pipe Cutting & Beveling Machine 'S-150AT'
Release of Cutting and Double Beveling Blade
Release of Welding test Coupon Cutter 'S-WCC1.0'

Business Area



Key Technology	Application	Expansion
Pipe Cutting & Beveling Engineering	Government office and residential buildings such as apartment building, IT, GMP facilities and etc.	Plant industry Oil & Gas Chemical Shipbuilding Offshore plant Aerospace industry Defense industry



- Cutter

01 S-Cutter is

Highly versatile and efficient machine designed for cutting and beveling a wide range of pipes including carbon steel, UHP tube, sanitary, stainless steel, chromium-molybdenum, titanium, super duplex, INCONEL, alloy and copper, aluminum, PP, PE and PVDF.

02 Aren't there such problems as sparks, noise and dust?

S-Cutter produces no harmful substances.
Now with this, you can work in a safe and efficient manner at a clean and comfortable environment.

03 Isn't the blade consumed too much?

Blade consumption of S-Cutter has been fundamentally reduced.

04 Isn't the blade far too expensive?

Compatible with GF and AXXAIR Cutter, S-Blade has been developed by DCSENG and is supplied with high quality and at reasonable prices.

05 S-Cutter is

Widely used for clean piping works, bio, food, GMP plants, shipbuilding and marine plants and petro-chemical plants as well as diverse sites including that require a clean working environment.





- 100LT / 150LT / 200LT

The most cost-effective Orbital Cutting Machine

Maximizing the user convenience

Capacity: Pipe O.D 13mm - 220mm

(Minimum O.D is 6mm with collet)

Pipe wall thickness maximum 8.2mm



- 150

Cut, whether thick or thin, at a Single Stroke!

Improved orbital type

Capacity: Pipe O.D 20mm - 170mm

(Minimum O.D is 6mm with collet)

Pipe wall thickness maximum 12mm



- 500

Necessary for Stainless Piping Work!

The world's first pipe-rotation cutting method
adapted machine

Capacity: Pipe O.D 60mm - 510mm

Pipe wall thickness maximum 10mm



- 300HV / 600HV

Necessary for Pipe Processing Factory!

Possible to cut and bevel the pipes on both sides
at the same time(CNC machine)

Capacity: Pipe O.D 80mm - 620mm

Pipe wall thickness maximum 80mm



- TCA1.0

One-touch automatic Squaring Tube Cutting Machine

High quality cutting with auto control by size
One-touch operation regardless of size
Capacity: Tube O.D 6 - 27.2mm



- EMO.5 / EM1.0

High quality and ultra-light Squaring Facing Machine

Necessary for UHP pipeline construction
Long-lived insert tip(enable you to use 4 surfaces)
Capacity: Tube O.D 3.18 - 27.2mm



- WCC1.0

Welding test Coupon Cutter

World's first auto-welding test coupon cutter
Safe and efficient operation
Capacity: Tube O.D 6 - 27.2mm



- TGR / TGF

Necessary tools for Welding Operator

Ultra-light and rechargeable tungsten grinder
Minimum grinding length is 20mm
Included Angle : 15° - 120° , 180°



- TGS_C / TGS_CL

Pride for Welding Operator

The most cost-effective Tungsten Grinder

Electrode Bar Size : Ø1.0, Ø1.6, Ø2.0, Ø2.4, Ø3.2

Included Angle(Type A) : 15°, 18°, 22.5°, 30°, 180°

Included Angle(Type B) : 15°, 30°, 45°, 60°, 180°



- CM4 Series

Portable Processing Machine

Pipe and plate beveling or coating removal

Capacity: Pipe O.D 25mm or more

Beveling Capacity : Max. 14C



- CM4_GC Series

Portable Mounted-type Processing Machine

Improved convenience by adapting guide roller

Pipe and plate beveling or coating removal(Pipe O.D)

Capacity: Pipe O.D 150mm or more



- FRI Series

Portable Coating Removal Machine

Pipe I.D or O.D coating removal

Enable you to remove the coating evenly

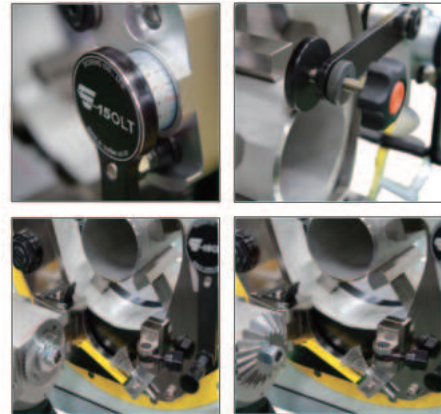
Capacity: Pipe O.D 25mm or more



-100LT / 150LT / 200LT

The most cost-effective Orbital Cutting Machine

Capacity : Pipe O.D 13 - 220mm
(Minimum O.D is 6mm with collet)
Pipe wall thickness max 8.2mm



- Maximizing the user convenience
 - Easy to replace cutting blades
 - Effective and convenient work when processing short pipes
 - Possible to cut elbows
 - Mounted with a basic stopper for cutting & beveling
 - Maximizing the convenience of repetitive work
- Clamping O.D 13 -220mm at once
 - Shortening the working hours
- Applying oilless bearing to the main shaft
 - A durability of the machine is improved
 - A clearance of the machine is minimized
- Optimally designed for the processing of the thin pipes
 - Pipe deformation is minimized
 - Minimum distance between the cutting & beveling blade and the vise(fix jaw) is secured
- Possible to finely adjust the processing depths
 - Improving the quality in cutting & beveling
 - A single touch adjustment device
- Equipped with a BLDC motor
 - Providing stable torques of all the ranges and ensuring the high reliability
 - Adjusting speed according to work types with a 6-stage control
 - With a built-in overload protection circuit

- Machine table(S-LT Series_MT)



- Machine Specifications

	Description		Unit	Specifications
- 100LT	Cutting&Beveling Capacity	Min. / Max. O.D	mm	13 / 120
		Min. / Max. Thickness	mm	0.2 / 8.2(5) ^{*recommend}
		Beveling Angle	°	30/32/35/37.5/40/45
	Technical Data	Dimensions	mm	143 x 366 x 383
Weight		kg	47	
- 150LT	Cutting&Beveling Capacity	Min. / Max. O.D	mm	(13) ^{*note} 20 / 170
		Min. / Max. Thickness	mm	0.2 / 8.2(5) ^{*recommend}
		Beveling Angle	°	30/32/35/37.5/40/45
	Technical Data	Dimensions	mm	145 x 466 x 483
Weight		kg	66	
- 200LT	Cutting&Beveling Capacity	Min. / Max. O.D	mm	(13) ^{*note} 59 / 220
		Min. / Max. Thickness	mm	0.2 / 8.2(5) ^{*recommend}
		Beveling Angle	°	30/32/35/37.5/40/45
	Technical Data	Dimensions	mm	145 x 525 x 542
Weight		kg	77	

- *note) Minimum O.D is when using the vise sub jaw.
- Minimum cutting thickness is on the basis of O.D 13mm.
- Design and specification of this products are the version as of January 2022.
- The data may be subject to change for product improvement without a prior notice.
- Be sure to read through safety precautions described in the user manual and the equipment before using the products.

- Motor Specifications

Description	Unit	Cutting Motor
Rated power	W	1000
Rated voltage	V	AC 200 - 220V / 50 - 60Hz
Rated current	A	4.5
Working environment	-	-20 °C - 40 °C / 20 - 80%RH

- Table Specifications

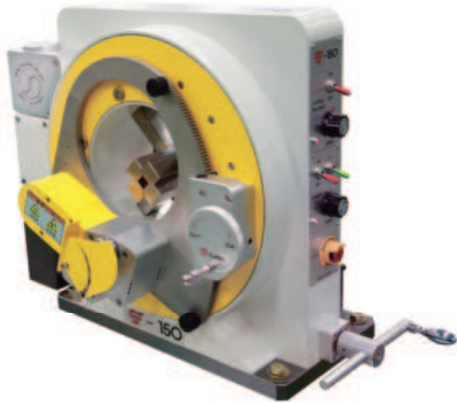
Item		Dimensions	Weight
S-LT Series_MT		660 x 930 x 1420 (Based on 4M pipe)	About 85kg
S-LT Series_RS	Pipe transfer		
S-LT Series_VS	Pipe support		

- Optional Accessory

- S-LT Series_MT : Machine table
- S-150LT_SJ : Vise sub jaw(min. 13mm)
- S-200LT_SJ : Vise sub jaw(min. 13mm)
- Non-standard collet
 - Inch: 1/4(6.35mm), 3/8(9.52mm), 1/2(12.77mm)
 - mm: 6, 8, 10, 12, 14



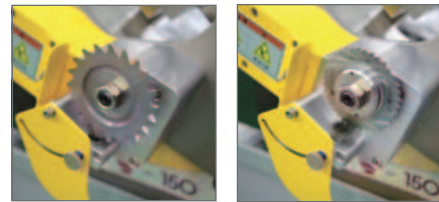
-150



Cut, whether thick or thin, at a Single Stroke

The world best convenience and speed!

Capacity : Pipe O.D 20 - 170mm
(Minimum O.D is 6mm with collet)
Pipe wall thickness max 12mm



- Maximizing the user convenience with automatic rotation
 - Thick pipes are cut in the right direction and beveled
 - Thin pipes are cut in the reverse direction (spiral duct cutting is available)
- Clamping at once from O.D 20mm to 170mm
- Newly developed orbital type
 - Axial motor mounted onto the body (to prevent the spatter while working)
 - Semi-permanent design for Anti-backlash
- The blade is freely adjustable while cutting and beveling

-150AT



- 3 Axis servo motor
 - Suitable for automated production line
 - Compatible with both manual and automatic
- Interactive touchscreen
 - Improve user convenience
 - Maximize efficiency through Data management

- Machine table(S-150_MT)



- Machine Specifications

Description		Unit	Specifications
Cutting Capacity	Min. O.D	mm	20
	Max. O.D	mm	170
	Min. Thickness	mm	0.5
	Max. Thickness	mm	12 (10) ^{*recommend}
Beveling Capacity	Min. O.D	mm	20
	Max. O.D	mm	170
	Min. Thickness	mm	-
	Max. Thickness	mm	12 (10) ^{*recommend}
	Beveling Angle	°	30/32/35/37.5/40/45
Technical Data	Dimensions	mm	660 x 360 x 505
	Weight	kg	100

- Min. cutting thickness is on the basis of 20mm.
- Design and specification of this product are the version as of January 2022.
- The data may be subject to change for product improvement without a prior notice.
- Be sure to read through safety precautions described in the user manual and the equipment before using our products.

- Table Specifications

Item		Dimensions	Weight
S-150_MT		900 x 2300 x 750 (Based on 6M pipe)	About 200kg
S-150_RS	Pipe transfer		
S-150_VS	Pipe support		

- S-150 Motor Specifications

Description	Unit	Cutting Motor	Rotating Motor
Rated power	W	1500	400
Rated voltage	V	AC 200 - 220V / 50 - 60Hz	
Rated current	A	5.7	1.85
Working environment	-	0 °C - 40 °C / 20 - 80%RH	

- S-150 Motor Specifications

Description	Unit	Cut	Clamp	Cutting insert	Cutting rotate
Motor	-	BLDC	Servo/2,500	Servo/2,500	Servo/2,500
Motor voltage	V	AC220	DC 48	DC 48	DC 48
Rated power	W	1500	400	200	750
Rated voltage	-	AC 200 - 220V / 50 - 60Hz			
Working environment	-	0 °C - 40 °C / 20 - 80%RH			

- Optional Accessory

- S-150_MT : Machine table
- Non-standard collet
 - Inch: 1/4(6.35mm), 3/8(9.52mm), 1/2(12.77mm), 5/8(15.88mm), 3/4(19.05mm)
 - A: 8(13.88mm), 10(17.3mm)
 - mm: 6, 8, 10, 12, 14

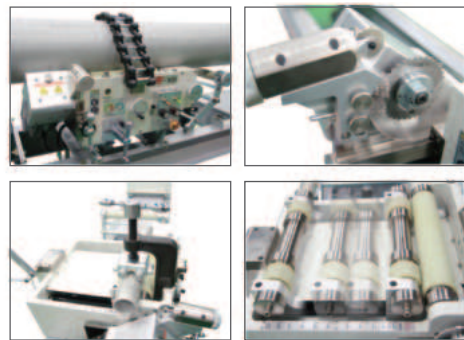
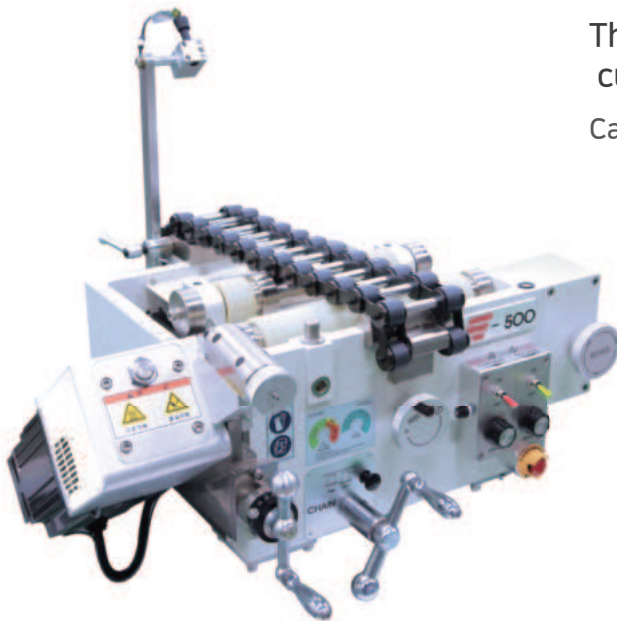


-500

Necessary for Stainless Piping Work

The world's first pipe-rotation cutting method adapted machine

Capacity : Pipe O.D 60 - 510mm (2 - 20inch)
Pipe wall thickness max 10mm



- Maximizing the user convenience with automatic rotation
- Enable you to cut and bevel from O.D 60 to 510mm with one machine
 - 2 - 20inch : Chain clamping method
 - Possible to cut up to 24inch (please contact to the head office)
- Device for preventing the jamming of saw blades is installed (exceptionally useful in large diameter pipes)
- Minimizing the eccentricity while cutting and beveling
- Free adjustment of blade while cutting and beveling is possible

- Machine rail(S-500_PR)



- Machine Specifications

Description		Unit	Specifications
Cutting Capacity	Min. O.D	mm	60
	Max. O.D	mm	510
	Min. Thickness	mm	1.2 ^{Note 1)}
	Max. Thickness	mm	10 (8) ^{**recommend)}
Beveling Capacity	Min. O.D	mm	60
	Max. O.D	mm	510
	Min. Thickness	mm	-
	Max. Thickness	mm	10 (8) ^{**recommend)}
Technical Data	Beveling Angle	°	30/32/35/37.5/40/45
	Dimensions	mm	413 x 460 x 325
Technical Data	Weight	kg	100

- *Note 1) Minimum cutting thickness is on the basis of 60mm.
- Design and specification of this product are the version as of January 2018.
- The data may be subject to change for product improvement without a prior notice.
- Be sure to read through safety precautions described in the user manual and the equipment before using our products.

- Motor Specifications

Description	Unit	Cutting Motor	Rotating Motor
Rated power	W	1500	400
Rated voltage	V	AC 200 - 220V / 50 - 60Hz	
Rated current	A	5.7	1.85
Working environment	-	0 °C - 40 °C / 20 - 80%RH	

- Table Specifications

Item	Dimensions	Weight	Q'ty
S-500_PR	5000 x 465 x 350H * Possible to divide into 1600 and 3400 (Based on 6M pipe)	About 250kg	1 EA
	S-500_PL(assembled) : 40 x 40 x 44H		1 EA
S-500_PL	40 x 40 x 44H	18kg	1 EA
S-500_PS	280 x 450 x 320H	33kg	3 EA

- Standard Accessory

- S-500_PS : Pipe support device
- S-500_PR : Pipe rail device
- S-500_PL : Pipe lift device



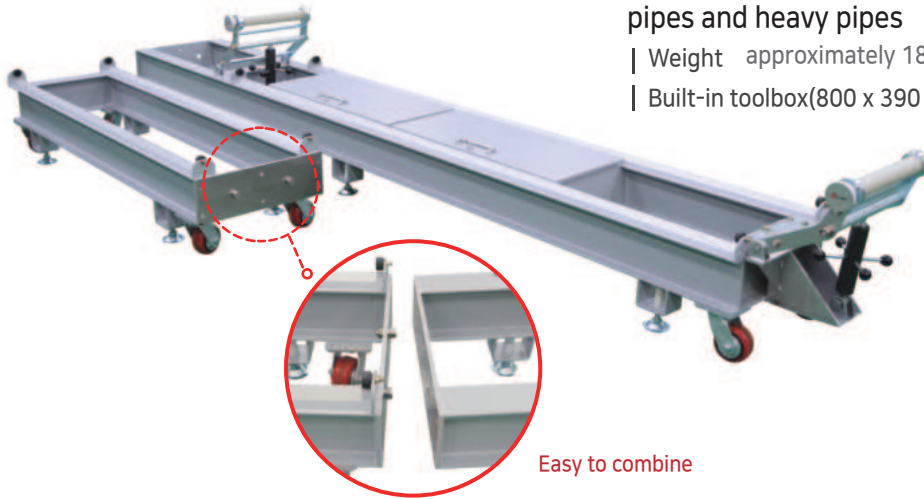
- Standard accessories supplied with S-500

► S-500_PR

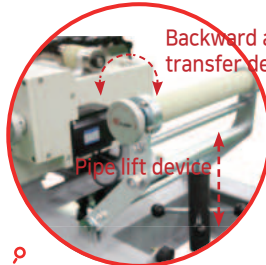
Necessary rail for the work on large diameter pipes and heavy pipes

| Weight approximately 180kg

| Built-in toolbox(800 x 390 x 160H) x2EA



Easy to combine



Backward and forward transfer device

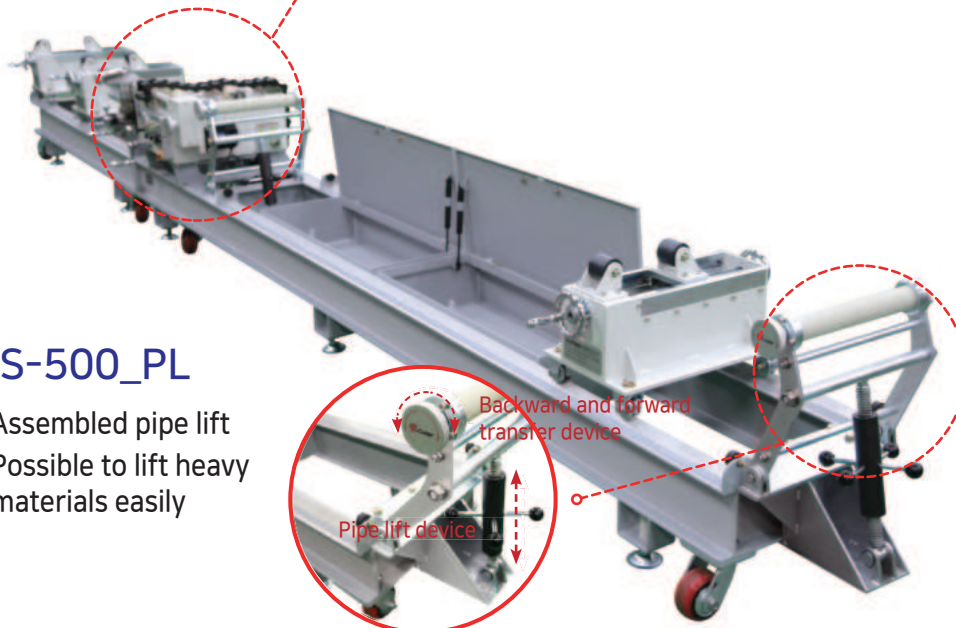
Pipe lift device

– Backward and forward transfer device

- Easy to move the heavy pipes and finely tune the cutting position

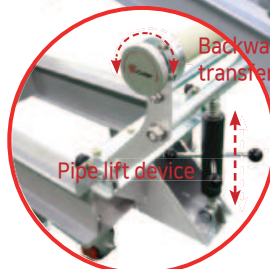
– Pipe lift device

- Easily lift up and down the heavy materials



► S-500_PL

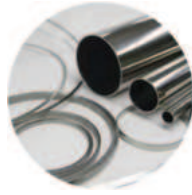
- Assembled pipe lift
- Possible to lift heavy materials easily



Backward and forward transfer device

Pipe lift device

Cutting Blade



This is a blade for cutting.
Compatible with GF and Axxair Cutter.

I Material HSS

I Thickness 1.0mm - 2.0mm

I Pipe materials Carbon steel, Stainless, Copper, PVC, PP, PVDF, Sanitary tubes, Titanium, Duplex, INCONEL, Alloy and Chromium-Molybdenum



- Cutting blade specifications

Item	O.D	I.D	No. of Blade	Recommended pipe thickness
S-6860	68	16	60	0.5 - 1.5mm
S-6844	68	16	44	1.5 - 3.0mm
S-8056	80	16	56	0.5 - 3.0mm
S-8048	80	16	48	2.0 - 5.0mm
S-8040	80	16	40	4.0 - 10.0mm
S-8036	80	16	36	7.0 - 13.0mm
S-10044	100	16	44	7.0 - 15.0mm
S-10080	100	16	80	0.5 - 1.5mm

- The above data is based on STS 304 materials.
- Use different cutting and rotation speed depending on your work conditions.

Beveling Blade



This is a blade for beveling.
Compatible with GF Cutter.

I Material HSS

I Pipe materials Carbon steel, Stainless, Copper, PVC, PP, PVDF, Sanitary tubes, Titanium, Duplex, INCONEL, Alloy and Chromium-Molybdenum

I Beveling angle 30° / 32° / 35° / 37.5° / 40° / 45°
* possible to make a custom beveling blade



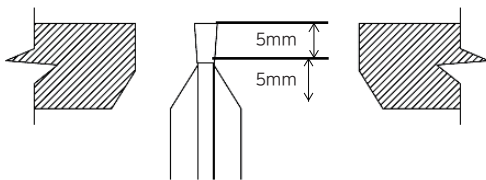
Cutting and double Beveling Blade

This is a blade for cutting and
double beveling at the same time

I Material HSS

I Pipe materials PVC, Steel, Aluminum
(* Please contact us for Stainless steel)

I Beveling angle 32° / 45°
* possible to make a customized blade





-300HV/600HV

Necessary for pipe processing factory!

Possible to cut and bevel the pipes on both sides at the same time(CNC M/C)

Capacity : Pipe O.D 80 - 620mm (3 - 24inch)
Pipe wall thickness maximum 80mm



Model		S-300HV	S-600HV	Remark
Description	Unit			
Cutting Diameter	mm(inch)	80 - 320(3 - 12)	250 - 620(10 - 24)	
Cutting Thickness	mm	80	100	
Tool Holder	set	6	6	
X-axis Distance	mm	80	100	Full Automatic
Z-axis Distance	mm	160	220	
Spindle Motor Capacity	kw	11	22	
X-axis Motor Capacity	kw	1.5	3	
Z-axis Motor Distance	kw	1	3	
Pipe Feeder Assy'	set	2	3	Full Automatic
Centering Adjust	mm	200	350	Full Automatic
Hydraulic unit	kw	3.75	6	Full Automatic
Size(L x W x H)	mm	2350 x 1400 x 2000(2200)	2800 x 2000 x 2500(2850)	
Power Source		3P/220V/60Hz	3P/380V/60Hz	
Net Weight	kg	4500	7500	


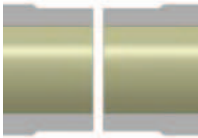
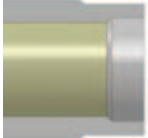

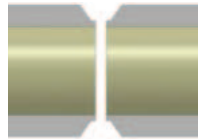




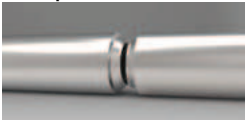


· Note) These data can be customized to fulfill your order and be subject to change without notice.
For more detail, please contact our technical sales department.

The world's First!

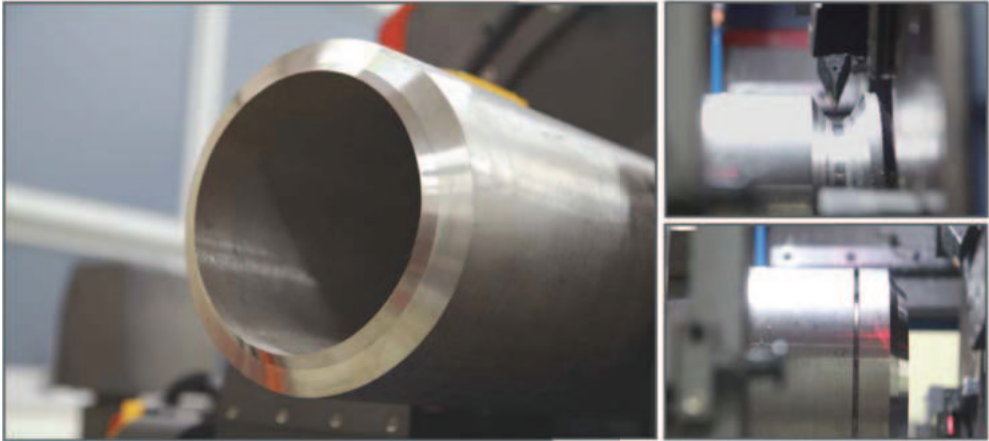
Dual Cutting & Beveling Full Automatic Machine

- Possible to cut and bevel the pipes on both sides; No need for additional cutting or beveling tools
- The minimized working space by using straight production line
- Automatic tool change is possible with 6 tool holder equipped
- Implimented the various shaping processing; 8-axis servo motor
- The integration of automatic feeder and carrying out device with centering function
- The automatic oil pressure revision system; The deformation is minimized by using the chuck pressure depending on the types of pipes
- Tool pre-setter/Chip conveyor/ Coolant system

▶ 300HV / 600HV

Improved form	Example	
	Double-sided	Single-sided
I-shaped 		
V-shaped 		
U-shaped 		
DV-shaped 		

* Full Automatic Machine can process various forms.





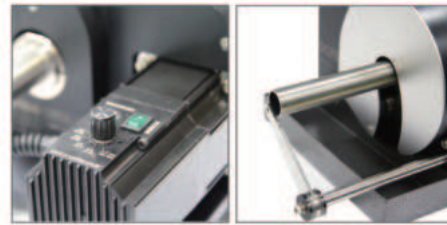
-TCA1.0



One-touch Automatic Squaring Tube Cutting Machine

High quality cutting with auto control
One-touch operation regardless of size

Capacity : Tube O.D 6 - 27.2mm



- Improving productivity with auto control by size
- Reducing the working time by using the one-touch function
- No need to change tool holder to change size
- Minimizing the damage of Tube O.D by using collet
- Minimizing secondary processing through precision processing
- Superior vertical cutting surface
- Efficient work especially for bulk by applying measuring bar
- Available in various sizes tube cutting
- Long-lived and high strength insert tip
- Easy to move and install as lightweight

- Machine Specifications

Description		Specifications
Cutting Capacity	Capacity	O.D 6 - 27.2mm (standard: 1/4, 3/8, 1/2, 3/4, 1inch)
Technical Data	Dimensions	300 x 250 x 250
	Weight	14.5kg
Motor Specifications	Rated power	200W
	Rated voltage	AC 200 - 220V / 50 - 60Hz
	Rated current	0.8A
	Working Environment	-20°C - 40°C / 20 - 80%RH

- Design and specification of this products are the version as of March 2021.
- The data may be subject to change for product improvement without a prior notice.
- Be sure to read through safety precautions described in the user manual and the equipment before using the products.

- Insert Tip Specification



- Insert tip : S-TCAR03

- Optional Accessory

- Non-standard collets
 - Inch: 5/8(15.88mm)
 - A: 8(13.88mm), 10(17.3mm), 15(21.7mm), 20(27.2mm)
 - mm: 6, 8, 10, 12, 14, 20, 25

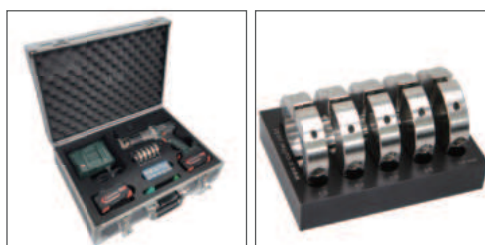
- EM0.5 / EM1.0





High quality and ultra-light Squaring Facing Machine

Necessary for UHP pipeline construction
Long-lived and high strength insert tip

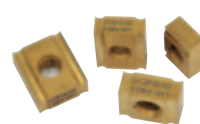
Capacity : Tube O.D 1/4 - 1inch



- Using a rechargeable motor(Ultra-light)
- Light and no vibration
- Precise facing(minimum scale is 0.05mm)
- Providing the vertical and precise processing surface(no burr)
- High-capacity battery equipped(S-EM1.0)
- Brush Less motor equipped(S-EM1.0)
- Tool designed for easy chip-out
- Usage of Insert tip
 - Enable you to use 4 surfaces (Titanium coating)
 - Long-lived and high strength insert tip
- Machine Specifications
- Insert Tip Specifications

Model	Specifications	
 - EM0.5	Rated voltage	10.8V, 2Ah
	Speed	0 - 400RPM
	Capacity	1/4, 3/8, 1/2inch (6.35, 9.53, 12.7mm)
	Weight	1.25kg(including battery)
 - EM1.0	Rated voltage	18V, 5Ah
	Speed	0 - 500RPM
	Capacity	1/4, 3/8, 1/2, 3/4, 1inch (6.35, 9.53, 12.7, 19.5, 25.4mm)
	Weight	2.6kg(including battery)

- Design and specification of this products are the version as of January 2018.
- The data may be subject to change for product improvement without a prior notice.
- Be sure to read through safety precautions described in the user manual and the equipment before using the products.



Insert tip	Model
S-EM05_0811	S-EM0.5
S-EM10_1412	S-EM1.0

- Optional Accessory

- Chip guide: S-EM10_CG
- Safety cover
- Non-standard collet(S-EM0.5): 1/8inch(3.18mm)
- Non-standard collets(S-EM1.0)
 - Inch: 1/8(3.18mm), 5/8(15.88mm)
 - A: 8(13.88mm), 10(17.3mm), 15(21.7mm), 20(27.2mm)
 - mm: 6, 8, 10, 12, 14, 20, 25



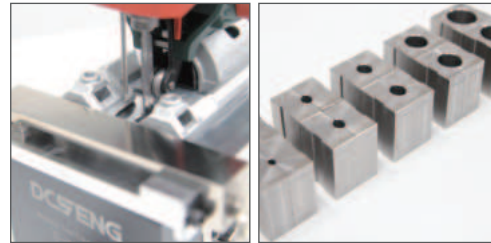
S-WCC1.0



Welding test Coupon Cutter

Necessary for UHP pipeline construction
Long-lived and high strength insert tip

Capacity : Tube O.D 6 - 27.2mm



- Optimized design for cutting the auto-welding coupon

- Able to work efficiently for cutting the widthwise of the tube
- Able to get the coupon of the same size for standardization

- Restart protection

- Prevents unintentional start-up after power supply interruption

- Safe and versatile applicability

- Apply for various O.D by simply replacing the collet
- Efficient for cutting in the middle of the long tube

- Quick tool change

- Quick and safe for changing saw blades


- Pendulum stroke

- Precise and optimize sawing with variable stroke rate

- Fast brake

- Brake area for increased safety to quickly stop

- Machine Specifications

Model	Description	Specification
 -WCC1.0	Capacity	O.D 6 - 27.2mm(Standard 1/4, 3/8, 1/2, 3/4, 1inch)
	Cutting length (widthwise)	50mm(MAX)
	Thickness	0.7 - 3.0mm
	Weight	9.9kg(7.3kg-guide, 2.6kg-jig saw)
Jig Saw	Voltage	DC 18V
	Speed	0 - 2,800rpm
	Pendulum stroke	4 levels
Charger	Rated voltage	AC 220 - 240V / 50 - 60Hz
Battery	Capacity	Li-Power 18V-5.2Ah

- Saw Specifications



- Saw(BIM): S-WCC1.0_B10

- Optional Accessory

- Non-standard collets
 - inch : 5/8(15.88mm)
 - A : 8(13.88mm), 10(17.3mm), 15(21.7mm), 20(27.2mm)
 - mm : 6,8,10,12,14, 20, 25

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DC  ENG

Total Solution of
Pipe Cutting & Beveling



- TGR / TGF



Necessary for Welding Operator

Ultralight and rechargeable Tungsten Grinder

Capacity : The minimum length of the electrode bar to be ground is 20mm



Included angle: 15° - 180°



- Using a rechargeable motor(Ultra-light)
- Precising grinding, cutting and facing
 - Including the precision setting device
- Usage of diamond wheel
 - Economic improvement by using double-sided and with cutting function
 - Select the diamond wheel roughness depending on the electrode bar specification
- Automatic concentric function
- Improving convenience by marking cut scale

- One-touch lock function is applied when changing diamond wheel
- Angle fixed type(S-TGF) and angle adjustable type(S-TGR)
- Multi-function collet application
 - No need to use jig depending on the specification of electrode bar
 - Electrode bar can be sharpened, even if it is stuck when welding
 - Non-standard electrode bar is available
 - The minimum length of electrode bar to be ground is 20mm

- Machine Specifications

Model	Specifications	
Common	Rated voltage	10.8V, 2Ah
	Speed	19500RPM
 TGR	Included angle	15° - 120°, 180°
	Capacity	ø0.5 - ø3.2
	Weight	0.89kg(including battery)
 TGF	Included angle	15°, 22.5°, 30°, 36°, 45°, 60°, 90°, 120°, 180°
	Capacity	ø0.5 - ø3.2
	Weight	0.99kg(including battery)

- Wheel Specifications



Model	Electrode bar
S-TG_40RG	2.0ø - 3.2ø
S-TG_40SG	1.0ø - 2.4ø
S-TG_40FG	0.5ø - 1.6ø

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- TGS_C / TGS_CL





Pride for Welding Operator!

Ultra-light and the Most Cost-Effective Tungsten Grinder

Electrode bar size : Ø1.0, Ø1.6, Ø2.0, Ø2.4, Ø3.2



- The most cost-effective tungsten grinder
- Ultra-light machine in the world
 - Recharable type(S-TGS_CL) 0.48kg
 - Cord type(S-TGS_C) 0.79kg
- Precising grinding, cutting, and facing
- One-touch lock for changing grinding wheel
- Machine Specifications
- Enable you to adjust the speed(level 1-6)
 - Precise grinding with proper speed depending on the electrode bar size
- Diamond wheel
 - Improved economic value by cutting with both sides of wheel
 - Automatic concentric welding function mounted
- Wheel Specifications

Model	Specifications	
Common	Workpiece	Tungsten(W)
	Electrode bar	Ø1, Ø1.6, Ø2, Ø2.4, Ø3.2
	Size	PVS Case(300*180*80)
	Included angle	Type A
Type B		15, 30, 45, 60, 180°
 -TGS_C	Rated voltage	220-240V, 50-60Hz
	Rated power	170W
	No load speed	8000-35000 RPM
	Weight	0.79Kg
 -TGS_CL	Output	10.8V, 1500mA
	No load speed	3000-18000 RPM
	Weight	0.48Kg(battery included)



Model	Electrode bar
S-TG_40RG	2.0Ø - 3.2Ø
S-TG_40SG	1.0Ø - 2.4Ø
S-TG_40FG	0.5Ø - 1.6Ø

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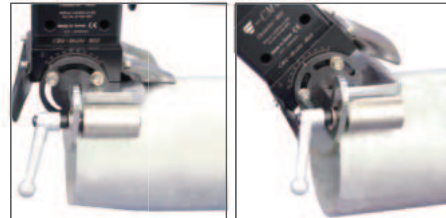
- CM4_M



Portable Hand Beveling Machine

Bevel Capacity : 0° - 90°, 0 - 14C

Pipe/Plate : Coating removal and Bevel processing



- Machine Specifications

Work Capacity	Processing Type	Pipe	Min. O.D	25.4mm(1inch)	
			Max. O.D	No limit	
		Plate	No limit		
	Materials	Steel, Stainless, Plastic, etc.			
	Depth Adjustment	One-touch method(ballplunger type for preventing loosening)			
Machine Capacity	Processing Depth	0.05mm as a minimum unit			
	Processing Angle	0° - 90°			
	Penetrating Angle	75°			
	Processing Depth	Minimum is 0.05mm, Maximum is 15mm			
	Processing Capacity	Beveling angle	Thickness	Width(mm)	
		0° (cross section)	15	15	
		15°	16	17	
		30°	19	22	
45°		14	20		
60°		10	22		
75°	8	31			
90° (surface)	5	26			
Technical Data	Weight	6.0kg			
	Dimensions	120 x 280 x 400H			
	Effectiv. Factor	4EA(S501306-CM4-780) - Enable you to use 8 surfaces			

- Motor Specifications

Description	Unit	Motor
Rated power	W	1080
Rated voltage	V	AC 200 - 220V / 50 - 60Hz
Working environment	-	-20°C - 40°C / 20 - 80%RH

- Standard Accessory

- Equipped with a guide roll for pipe
- Handle
- 1 allen wrench, 1 torx wrench

- Optional Accessory



- Insert tip : S501306-CM4_M_GC
- Insert tip fix bolt

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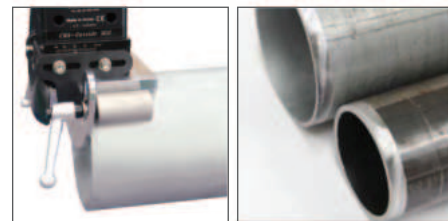
- CM4_OD



Portable Coating Removal Machine

Capacity : Maximum width is 48mm,
Maximum depth is 15mm

Pipe/Plate : Coating removal
and Plate processing



- Machine Specifications

Work Capacity	Processing Type	Pipe	Min. O.D	25.4mm(1inch)	
			Max. O.D	No limit	
	Plate		No limit		
	Materials	Steel, Stainless, Plastic, etc.			
	Depth Adjustment	One-touch method(ballplunger type for preventing loosening)			
Processing Depth	0.05mm as a minimum unit				
Machine Capacity	Processing Angle	90°			
	Penetrating Angle	75°			
	Processing Depth	Minimum is 0.05mm, Maximum is 15mm			
	Processing Capacity	Materials		Width(mm)	
		Plate	Minimum	18	
			Maximum	48	
		Pipe (When processing 0.03mm)	2inch	27	
4inch			29		
8inch			31		
12inch	33				
20inch	43				
Technical Data	Weight	6.0kg			
	Dimensions	120 x 280 x 400H			
	Effectiv. Factor	4EA(S501306-CM4-780) - Enable you to use 8 surfaces			

- Motor Specifications

Description	Unit	Motor
Rated power	W	1080
Rated voltage	V	AC 200 - 220V / 50 - 60Hz
Working environment	-	-20° C - 40° C / 20 - 80%RH

- Standard Accessory

- Equipped with a guide roll for pipe
- Handle
- 1 allen wrench, 1 torx wrench

- Optional Accessory



- Insert tip : S501306-CM4_M_GC
- Insert tip fix bolt

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 · Be sure to read through safety precautions described in the user manual and the equipment before using the products.



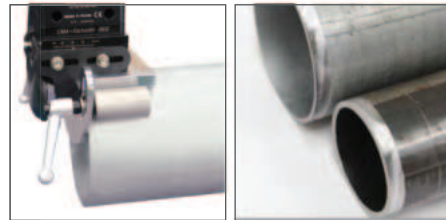
-CM4_M_GC



Portable Mounted-type Hand Beveling Machine

Bevel Capacity : 15° - 75°, 0 - 14C

Pipe/Plate : Bevel processing



- Machine Specifications

Work Capacity	Processing Type	Pipe	Min. O.D	6inch	
			Max. O.D	No limit	
		Plate	No limit		
	Materials	Steel, Stainless, Plastic, etc.			
	Depth Adjustment	One-touch method(ballplunger type for preventing loosening)			
Machine Capacity	Processing Depth	0.05mm as a minimum unit			
	Processing Angle	15° - 75°			
	Penetrating Angle	45°			
	Processing Depth	Minimum is 0.05mm, Maximum is 15mm			
	Processing Capacity	Beveling angle	Thickness	Width(mm)	
			15°	16	17
			30°	19	22
45°			14	20	
60°			10	22	
75°	8	31			
Technical Data	Weight	7.0kg			
	Dimensions	120 x 310 x 400H			
	Effectiv. Factor	4EA(S501306-CM4_M_GC) - Enable you to use 8 surfaces			

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- The data may be subject to change for product improvement without a prior notice.
- Be sure to read through safety precautions described in the user manual and the equipment before using the products.

- Motor Specifications

Description	Unit	Motor
Rated power	W	1080
Rated voltage	V	AC 200 - 220V / 50 - 60Hz
Working environment	-	-20 °C - 40 °C / 20 - 80%RH

- Standard Accessory

- Equipped with a guide roll for pipe
- Handle
- 1 allen wrench, 1 torx wrench

- Optional Accessory



- Insert tip : S501306-CM4_M_GC
- Insert tip fix bolt

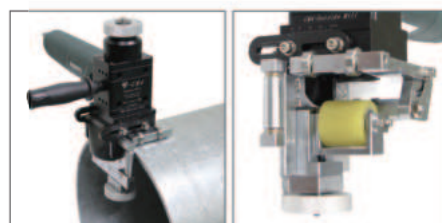
-CM4_OD_GC



Portable Mounted-type Coating Removal Machine

Capacity : Maximum width is 48mm,
Maximum depth is 15mm

Pipe/Plate : Coating removal
and Plate processing



- Machine Specifications

Work Capacity	Processing Type	Pipe	Min. O.D	6inch	
			Max. O.D	No limit	
		Plate	No limit		
	Materials	Steel, Stainless, Plastic, etc.			
	Depth Adjustment	One-touch method(ballplunger type for preventing loosening)			
	Processing Depth	0.05mm as a minimum unit			
Machine Capacity	Processing Angle	90°			
	Penetrating Angle	75°			
	Processing Depth	Minimum is 0.05mm, Maximum is 15mm			
	Processing Capacity	Materials		Width(mm)	
		Plate	Minimum	18	
			Maximum	48	
Pipe (When processing 0.03mm)		6inch	29		
		8inch	31		
	12inch	33			
	20inch	43			
Technical Data	Weight	7.0kg			
	Dimensions	120 x 310 x 400H			
	Effectiv. Factor	4EA(S501306-CM4-780) - Enable you to use 8 surfaces			

- Design and specification of this products are the version as of March 2021.
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- Motor Specifications

Description	Unit	Motor
Rated power	W	1080
Rated voltage	V	AC 200 - 220V / 50 - 60Hz
Working environment	-	-20° C - 40° C / 20 - 80%RH

- Standard Accessory

- Equipped with a guide roll for pipe
- Handle
- 1 allen wrench, 1 torx wrench

- Optional Accessory



- Insert tip : S501306-CM4_M_GC
- Insert tip fix bolt



- FRI Series (S-FRI_ID3 / S-FRI_OD3 / S-FRI_ID4 / S-FRI_OD4)

Portable Coating Removal Machine

Enable you to remove the coating of pipe I.D or O.D

Capacity : Pipe O.D 1inch - no limit



- Ensuring even quality

- Enable you to remove the coating evenly
- Cope actively with the pipe deformation

- Fast and easy to use





- 3inch pipe ID, OD processing: about 8second
- 12inch pipe ID, OD processing: about 40second

- Reducing the sparks and dust

- Improving work efficiency

- Easy-to set up
- Ultra-light

- Machine Specifications

Model	Specifications	
Common	Processing depth	Maximum 0.3mm
	Processing width	Refer to the Rotary Burr Spec.
 - FRI_ID3	Processing range	Pipe I.D
	Processing capacity	Pipe O.D 1 - 3inch
 - FRI_OD3	Processing range	Pipe O.D
	Processing capacity	Pipe O.D 1 - 3inch
 - FRI_ID4	Processing range	Pipe I.D
	Processing capacity	Pipe O.D 4inch - No limit
 - FRI_OD4	Processing range	Pipe O.D
	Processing capacity	Pipe O.D 4inch - No limit

- Motor Specifications

Description	Unit	Motor
Rated power	W	500
Rated voltage	V	AC 220V / 60Hz
No load speed	-	33000RPM

- Rotary Burr Specifications



Model	Rotary Burr	SPEC. (O.D - Processing width - depth)
S-FRI_ID	S-FRI061215(I.D)	Ø12 - 15mm - 0.3mm
S-FRI_OD	S-FRI061227(O.D)	Ø12 - 27mm - 0.3mm

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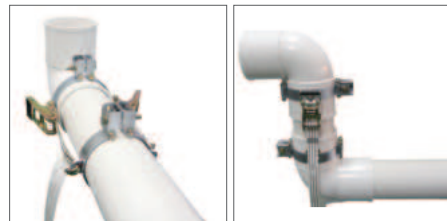
- PIT



PVC Joiners

Durable clamps structure and double ratchet straps applied

Capacity : 100A, 150A, 200A, 250A



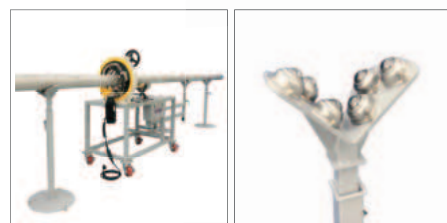
- Easy to use and perfect pipe joining(No leak)
 - Enable you to join the PVC pipe perfectly with durable clamps structure and double ratchet strap
- Join both sides of the PVC pipe at the same time
- No damage to the pipe

- PVS



Pipe V-Shaped Stand

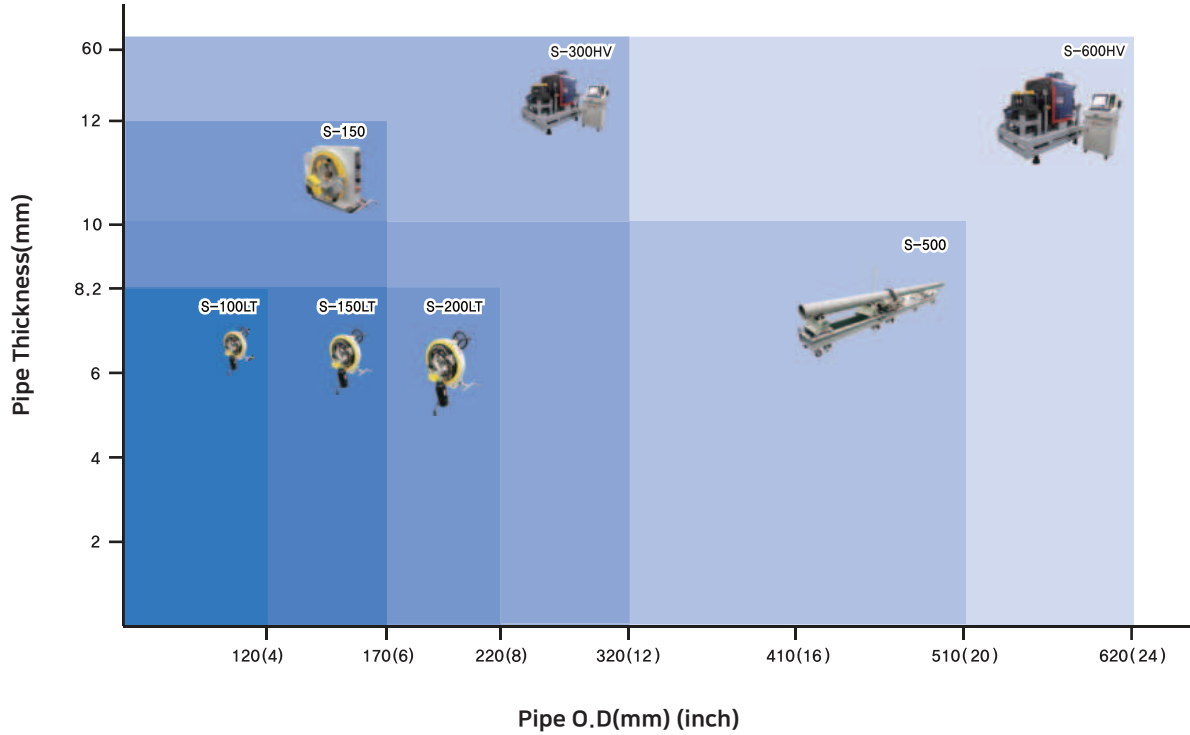
Pipe stand for supporting and transferring the pipe



- Minimize the damage to the pipe
 - Enable you to choose the material(Stainless or POM caster)
- Easily adjust the height with the height adjustment handle
- Minimize vibrating with stable support
 - By using a tripod structure pedestral stand



Criteria for machine selection



Consumption of cutting and beveling blade(quantity)

O.D (inch)	O.D (mm)	Thickness (mm)	Cutting		Beveling	
			Quantity/1EA	Blade model	Quantity/1EA	Blade model
1/2	21.7	2.1	464	S-8056	8,962	S-BB90
3/4	27.2	2.1	368		7,150	
1	34.0	2.8	300		5,720	
1 1/4	42.7	2.8	240		4,554	
1 1/2	48.6	2.8	210		4,002	
2	60.5	2.8	173		3,214	
2 1/2	76.3	3	129	S-8048	2,392	
3	89.1	3	113		2,032	
4	114.3	3	90		1,350	
5	139.8	3.4	75		1,008	
6	165.2	3.4	60	S-8040	852	
8	216.3	4	45		590	
10	267.4	4	38		476	
12	318.5	4.5	30		400	
14	355.6	5	29		340	
16	406.4	5	24		296	
18	457.2	5	20		264	
20	508.0	5	15		238	

- This data is based on STS 304 ERW SCH 10S.
- Enable you to work more efficiently by adjusting the cutting and beveling rpm(%) depending on your work condition
- Excessive cutting and fast initial entry speed can be damaged and shorten the life of blade.



Cutter

Cutting/Beveling Capacity Table(STS304)

Nominal Pipe Size		O.D (mm)	Nominal Pipe Size Chart - STS 304 ERW Pipe(KSD 3576)											
			SCH 5S		SCH 10S		SCH 20S		SCH 40S		SCH 80S		SCH 160S	
A	B		Wall Thick (mm)	Weight kg/6m	Wall Thick (mm)	Weight kg/6m	Wall Thick (mm)	Weight kg/6m	Wall Thick (mm)	Weight kg/6m	Wall Thick (mm)	Weight kg/6m	Wall Thick (mm)	Weight kg/6m
10	3/8	17.3	1.2	2.886	1.65	3.858	2.0	4.572	2.3	5.154	3.2	6.72	-	-
15	1/2	21.7	1.7	4.944	2.1	6.18	2.5	7.2	2.8	7.92	3.7	9.96	4.7	11.94
20	3/4	27.2	1.7	6.3	2.1	7.86	2.5	9.24	2.9	10.56	3.9	13.56	5.5	17.82
25	1	34.0	1.7	7.98	2.8	13.08	3.0	13.92	3.4	15.54	4.5	19.86	6.4	26.4
32	1¼	42.7	1.7	10.14	2.8	16.68	3.0	17.82	3.6	21.06	4.9	27.66	6.4	34.74
40	1½	48.6	1.7	11.58	2.8	19.14	3.0	20.46	3.7	24.84	5.1	33.18	7.1	44.04
50	2	60.5	1.7	14.52	2.8	24.12	3.5	29.82	3.9	33	5.5	45.24	8.7	67.2
65	2½	76.3	2.1	23.28	3.0	32.88	3.5	38.1	5.2	55.26	7.0	72.6	9.5	94.8
80	3	89.1	2.1	27.3	3.0	38.58	4.0	50.88	5.5	69	7.6	92.4	11.1	129.6
90	3½	101.6	2.1	31.2	3.0	44.22	4.0	58.32	5.7	81.6	8.1	113.4	12.7	168.6
100	4	114.3	2.1	32.22	3.0	49.92	4.0	66	6.0	97.2	8.6	135.6	13.5	203.4
125	5	139.8	2.8	57.36	3.4	69.6	5.0	97.8	6.6	131.4	9.5	184.8	15.9	294.6
150	6	165.2	2.8	67.8	3.4	82.2	5.0	120	7.1	168	11.0	253.8	19.2	399.6
200	8	216.3	2.8	89.4	4.0	127.2	6.5	204	8.2	255	12.7	386.4	23.0	666
250	10	267.4	3.4	134.4	4.0	157.2	6.5	253.2	9.3	358.8	15.1	569.4	29.6	1020
300	12	318.5	4.0	187.8	4.5	211.2	6.5	303	10.3	474.6	17.4	786	33.3	1422
350	14	355.6	4.0	210.0	5.0	262.2	8.0	415.8	11.1	571.8	19.0	954	35.7	1704
400	16	406.4	4.5	270.6	5.0	300.0	8.0	476.4	12.7	750	21.4	1230	40.5	2214
450	18	457.2	4.5	301.8	5.0	337.8	8.0	540.6	13.3	948	23.8	1542	45.2	2784
500	20	508.0	5.0	375.6	5.5	412.8	9.5	741	15.1	1110	26.2	1884	50.5	3420

A S-150 Recommended spec. A S-150 Maximum spec.
 S-500 Recommended spec. S-500 Maximum Spec.

