

DCS ENG
S-Cutter
Pipe Cutting & Beveling Machine



DCSENG CO., LTD. main building

Company History

- 2008** Foundation of DCSENG CO., LTD.
Selected for the Ministry of Knowledge Economy's Technology Incubation Project(TBI)
Acquired Korean and International Patent for Pipe Cutting & Beveling Machine
- 2009** Registered Factory
- 2010** Released Pipe Cutting & Beveling Machine 'S-500'
Registered as a Venture Business
- 2011** Acquired a CE mark for 'S-500'
Accreditation of ISO9001 / ISO14001 Certificates for Quality Management System
Acquired Clean Business Certificate
- 2012** Foundation of Affiliated Research Institute
- 2013** Released Pipe Cutting & Beveling Machine 'S-150'
Released Portable Hand Beveler 'S-CM4'
Started Exporting to China, Japan and Vietnam (Indirect export : Africa / Arab Emirates)
Founded a Branch Office in Japan
- 2014** Acquired a CE mark for 'S-150'
Capital Increase from 50 million KRW to 642 million KRW
Acquired Best Family Friendly Management Certificate
- 2015** Released Dual Cutting & Beveling Full Automatic Machine 'S-300HV' and 'S-600HV'
Acquired Management Innovation Business Certificate
Awarded the Patent Technology Prize
Constructed and moved to new head office building and factory
Founded a Branch Office in China
- 2016** Released Pipe Cutting & Beveling Machine 'S-LT Series'
- 2017** Founded a Branch Office in Vietnam and Russia
Acquired a CE mark for 'S-LT Series'
- 2018** Founded a Branch Office in Singapore and Thailand
- 2019** Released Squaring Facing Machine 'S-EM0.5' and 'S-EM1.0'
Released Tungsten Grinder 'S-TGR' and 'S-TGF'



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

Efficient machine that can be used for cutting and beveling of sanitary pipe, stainless pipe, chromium-molybdenum tube, titanium pipe, super duplex pipe, INCONEL, alloy and copper Tube, aluminum pipe, PP pipe, PE pipe and PVDF pipe as well as UHP tube used for super clean pipe and carbon steel.

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 6mm - 220mm(1/4 - 8inch)

Pipe wall thickness maximum 8.2mm

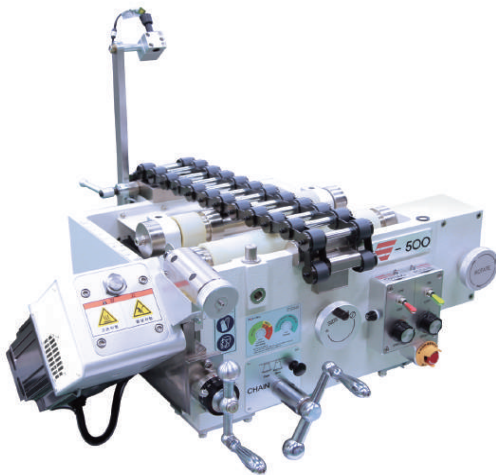
- 150

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

Developed into orbital type

Capacity : Pipe O.D 6mm - 170mm(1/4 - 6inch)

Pipe wall thickness maximum 12mm



- 500

Necessary for Stainless Piping Work!

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

Capacity : Pipe O.D 16mm - 510mm(3/8 - 20inch)

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 (3 - 24inch)

Pipe wall thickness maximum 80mm



- CM4

Portable Hand Beveler

Pipe plate film removal and beveling process

Capacity : Pipe O.D 25.4mm - no limit

Bevel capacity maximum 14C



- EM0.5 / EM1.0

High quality and ultra-light Squaring Facing Machine

Necessary for UHP pipeline construction

Long-lived insert tip(using 4 surfaces)

Processing specification : 1/4 - 1inch

- TGR / TGF

Necessary tools for Welding Operator

Ultra-light and rechargeable tungsten grinder

Minimum grinding length is 15mm

Included degree : 15° - 180°

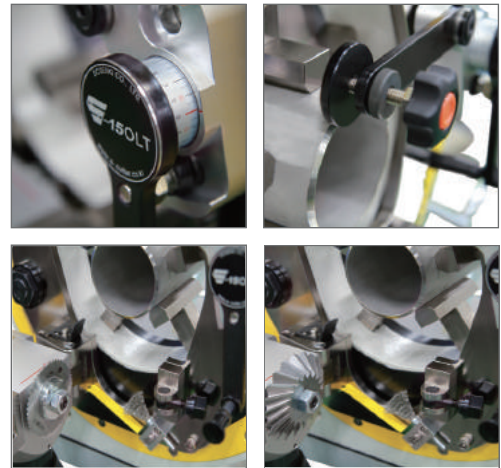




- 100LT / 150LT / 200LT

The most cost-effective Orbital Cutting Machine

Capacity : Pipe O.D 6 - 220mm (1/4 - 8inch)
Pipe wall thickness maximum 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 6 -220mm at once

- Tube Collet(1/4, 3/8, 1/2inch)
- No need for an auxiliary vise(vise jaw)
- 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

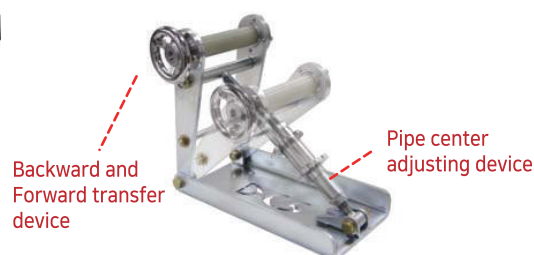
— Possible to finely tune the processing depths

- 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

– Using with the machine table(S-LT Series_MT)



– Machine Specifications

	Description		Unit	Specification
	Cutting&Beveling Capacity	Min. / Max. O.D	mm(inch)	6(1/4) / 120(4)
		Min. / Max. Thickness	mm	0.2 / 8.2(5)
		Beveling Angle	°	30/32/35/37.5/40/45
	Mechanical Data	Dimensions	mm	143 x 366 x 383
		Weight	kg	47
	Cutting&Beveling Capacity	Min. / Max. O.D	mm(inch)	6(1/4) / 170(6)
		Min. / Max. Thickness	mm	0.2 / 8.2(5)
		Beveling Angle	°	30/32/35/37.5/40/45
	Mechanical Data	Dimensions	mm	145 x 466 x 483
		Weight	kg	66
	Cutting&Beveling Capacity	Min. / Max. O.D	mm(inch)	6(1/4) / 220(8)
		Min. / Max. Thickness	mm	0.2 / 8.2(5)
		Beveling Angle	°	30/32/35/37.5/40/45
	Mechanical Data	Dimensions	mm	145 x 525 x 542
		Weight	kg	77

- Minimum O.D is using the tube collet(1/4, 3/8, 1/2inch).
- Minimum O.D for S-200LT is using the vise sub jaw and tube collet.
- Minimum cutting thickness is on the basis of O.D 16mm(3/8inch).
- 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.

– Motor Specifications

Description	Unit	Cutting Motor
Rated output	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		Dimension(D x L x H)	Weight
S-LT Series_MT		660 x 930 x 1420 (Based on 4M pipe)	About 130kg
S-LT Series_RS	Pipe transfer		
S-LT Series_VS	Pipe support		

– Optional Accessories

- S-LT Series_MT : Machine table
- S-LT Series_RS : Pipe transfer device
- S-LT Series_VS : Pipe support device
- S-150LT_SJ : Vise sub jaw(13 - 20mm)
- S-200LT_SJ : Vise sub jaw(13 - 60mm)

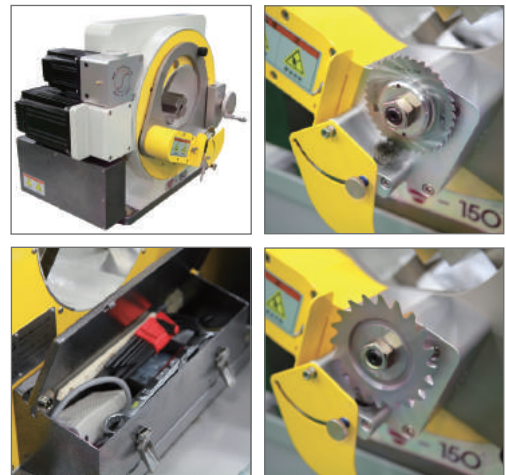
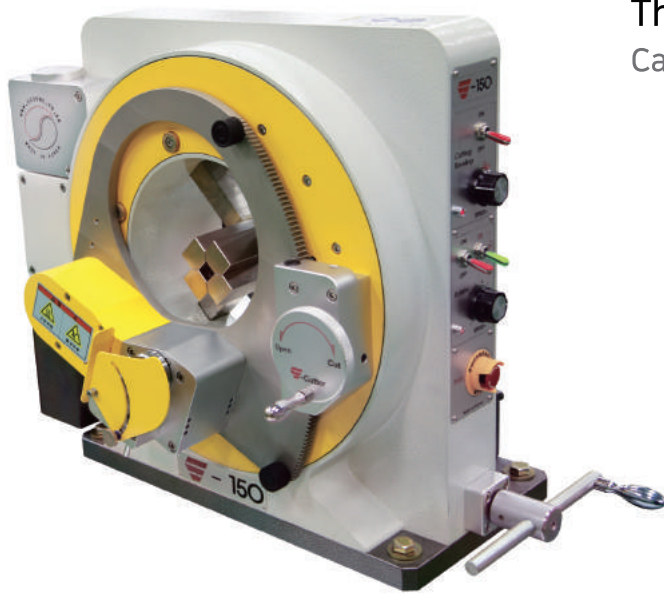


- 150

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

The world best convenience and speed!

Capacity : Pipe O.D 6 - 170mm (1/4 - 6inch)
Pipe wall thickness maximum 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)
- The blade is freely adjustable while cutting and beveling
- Newly developed orbital type
 - Axial motor mounted onto the body (to prevent the spatter while working)
 - Semi-permanent design for Anti-backlash
- Clamping at once from O.D 6mm to 170mm

– Using with the machine table(S-150_MT)



– Machine Specifications

Description		Unit	Specification
Cutting Capacity	Min. O.D	mm(inch)	6 (1/4) ^{Note 1)}
		mm(inch)	16 (3/8)
	Max. O.D	mm(inch)	170 (6)
	Min. Thickness	mm	0.5 ^{Note 2)}
	Max. Thickness(recommend)	mm	12 (10)
Beveling Capacity	Min. O.D	mm(inch)	16 (3/8)
	Max. O.D	mm(inch)	170 (6)
	Min. Thickness	mm	
	Max. Thickness(recommend)	mm	12 (10)
	Beveling Angle	°	30/32/35/37.5/40/45
Mechanical Data	Dimensions	mm	660 x 360 x 505
	Weight	kg	100

- Note 1) When using the Tube collet(1/4, 3/8, 1/2inch).
- Note 2) Min. cutting thickness is on the basis of 16mm(3/8inch).
- 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 output	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		Dimension(D x L x H)	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		

– Optional Accessories

- S-150_MT : Machine table
- S-150_RS : Pipe transfer device
- S-150_VS : Pipe support device

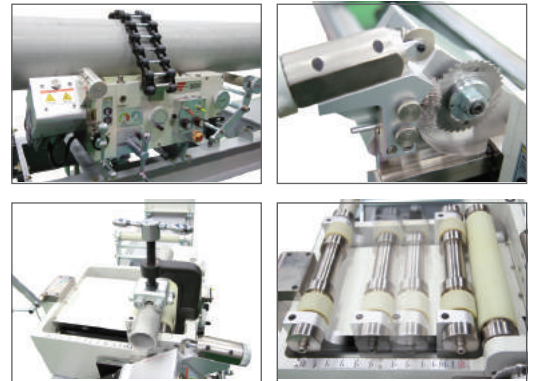
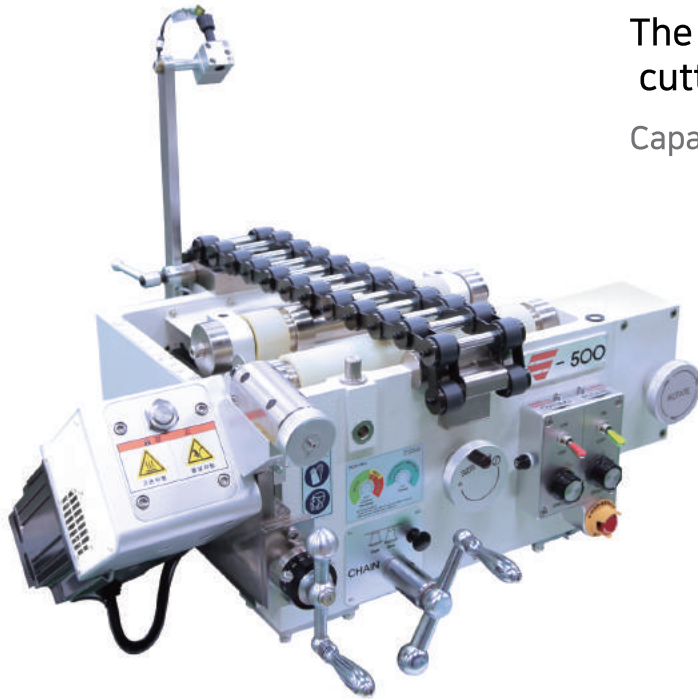


- 500

Necessary for Stainless Piping Work

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

Capacity : Pipe O.D 16 - 510mm (3/8 - 20inch)
Pipe wall thickness maximum 10mm



- Maximizing the user convenience with automatic rotation
- Enable you to cut and bevel from O.D 16 to 510mm with one machine
 - 3/8 - 2inch : Vise clamping method
 - 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

– Using with the total rail(S-500_PR)



– Machine Specifications

Description		Unit	Specification
Cutting Capacity	Min. O.D	mm(inch)	16 (3/8)
	Max. O.D	mm(inch)	510 (20)
	Min. Thickness	mm	0,8 ^{Note 1)}
	Max. Thickness(recommend)	mm	10 (8)
Beveling Capacity	Min. O.D	mm(inch)	16 (3/8)
	Max. O.D	mm(inch)	510 (20)
	Min. Thickness	mm	
	Max. Thickness(recommend)	mm	10 (8)
	Beveling Angle	°	30/32/35/37,5/40/45
Mechanical Data	Dimensions	mm	413 x 460 x 325
	Weight	kg	92

- Note 1) Minimum cutting thickness is on the basis of 16mm(3/8inch).
- 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 output	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	Dimension(D x L x H)	Weight	Q'ty
S-500_PR	5000 x 465 x 350H * Possible to divide into 1600 and 3400 (Based on 6M pipe)	About 180kg	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 Accessories

- S-500_VC : Vise clamp(3/8 - 2inch)
- S-500_CC : Chain clamp(2 - 20inch)
- S-500_PS : Pipe support device
- S-500_PR : Pipe rail device
- S-500_PL : Pipe lift device



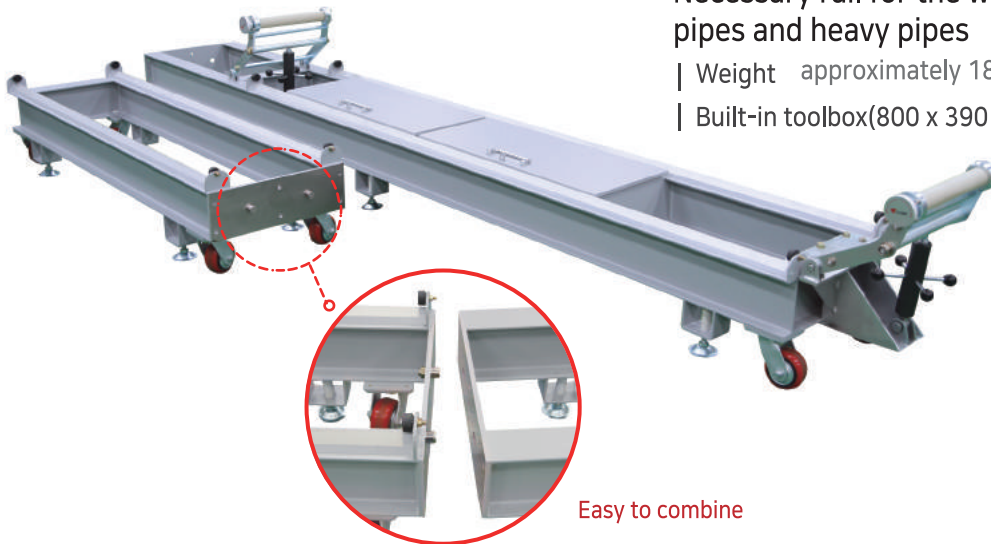
Standard accessories supplied with S-500

► S-500_PR

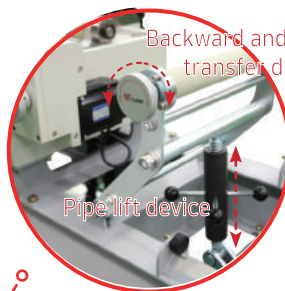
Necessary rail for the work on large diameter pipes and heavy pipes

| 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

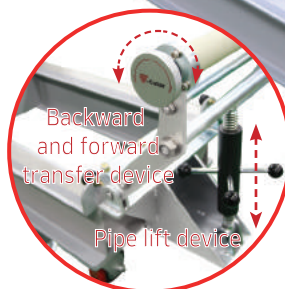
- Easy to move the heavy pipes and finely tune the cutting position

– Pipe lift device

- Easily lift up and down the heavy materials

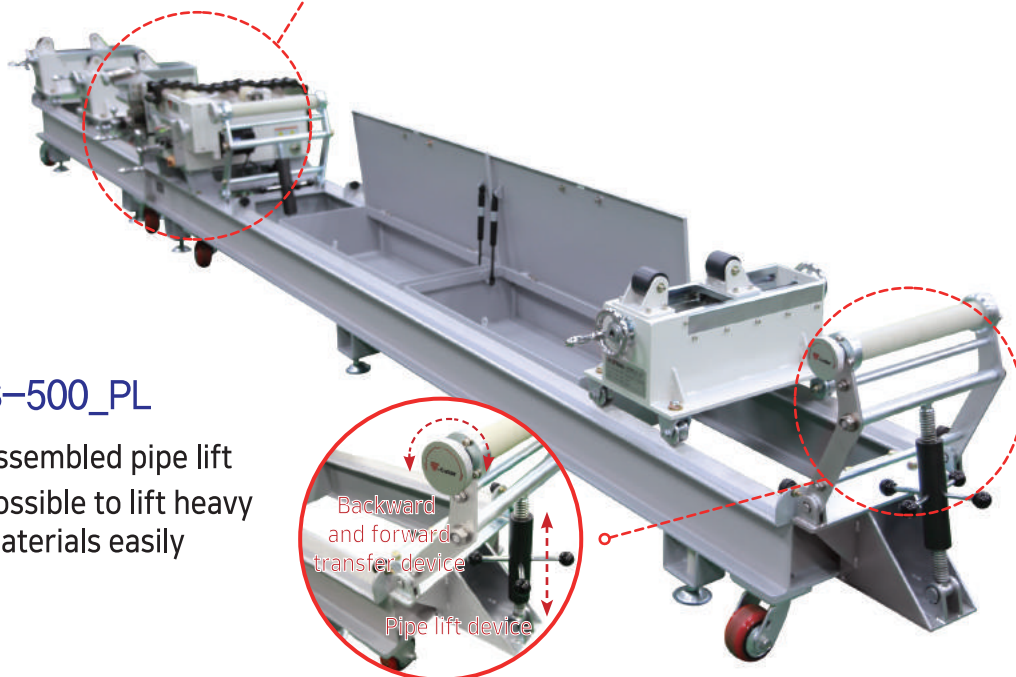
► S-500_PL

- 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.

- | Material HSS
- | Thickness 1.0mm - 2.0mm
- | Pipe materials Carbon steel, Stainless, Copper, PVC, PP, PVDF, Sanitary tubes, Titanium pipes, Chromium-Molybdenum tubes, Duplex pipes, INCONEL and Alloy



– Cutting blade specification

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.

- | Material HSS
- | Pipe materials Carbon steel, Stainless, Copper, PVC, PP, PVDF, Sanitary tubes, Titanium pipes, Chromium-Molybdenum tubes, Duplex pipes, INCONEL and Alloy
- | Beveling angle 30°/32°/35°/37.5°/40°/45°
* possible to make a custom beveling 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(8)	6(8)	
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	

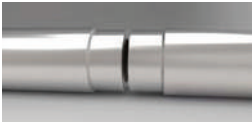
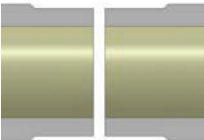
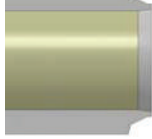
Note) These data can be customized to fulfill your order and be subject to change without notice.
For more detail, please contact our technical sales department.

The world's First!

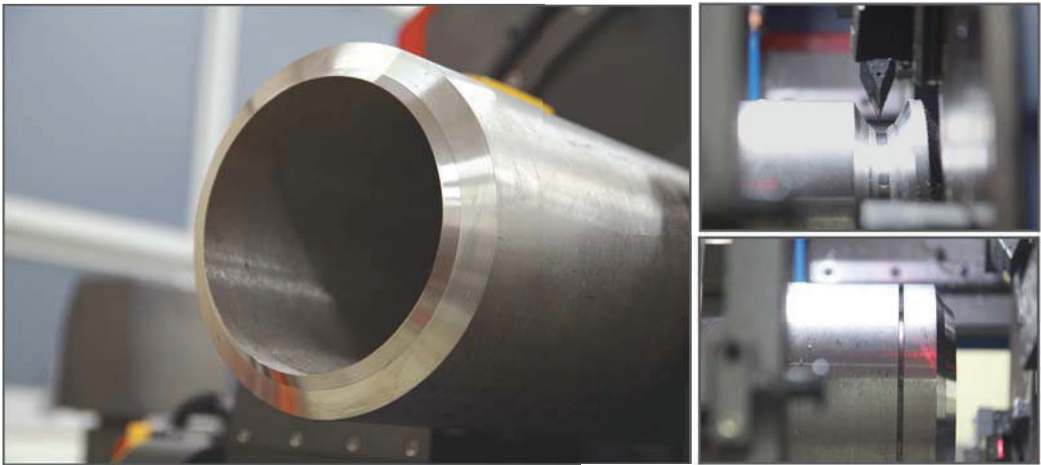
Dual Cutting & Beveling Full Automatic Machine

- 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

► S-300HV, S-600HV

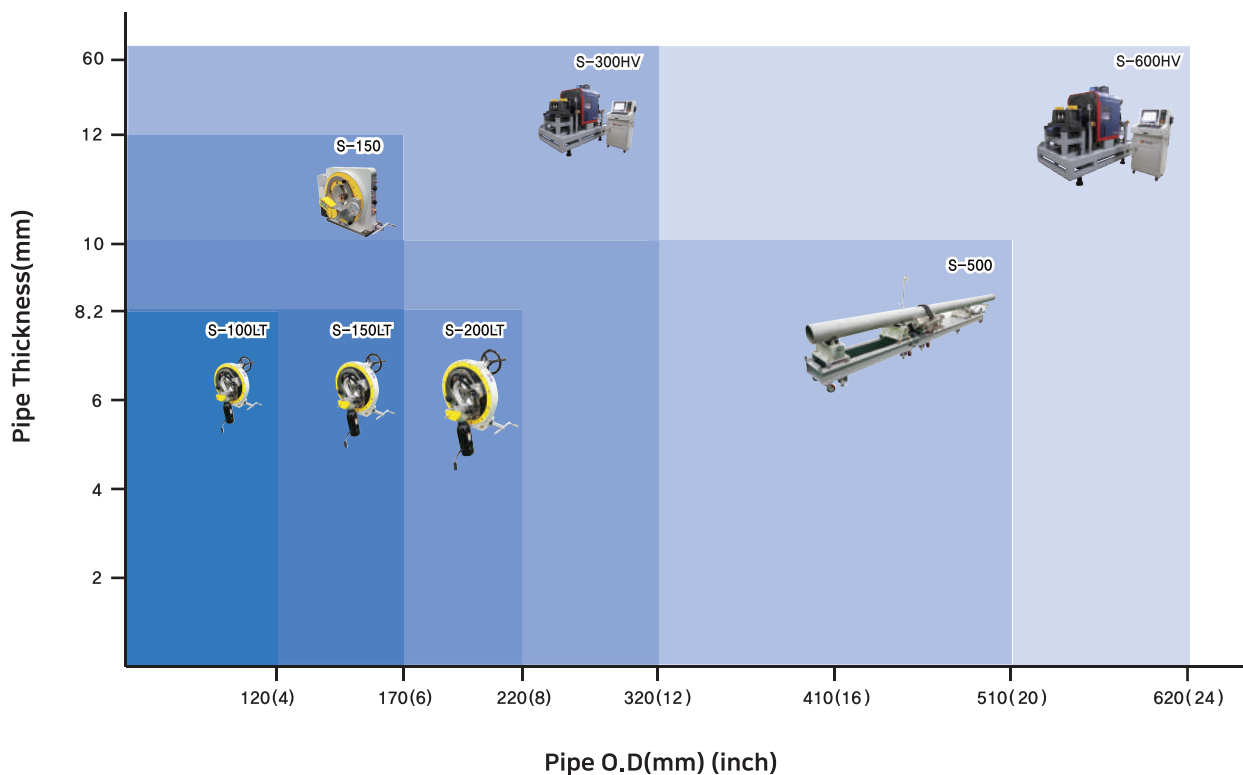
Improved form	Example	
	Double-sided	Single-sided
I-shaped 		
V-shaped 		
U-shaped 		
DV-shaped 		

* Full Automatic Machine can process various forms.





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		852	
8	216.3	4	45	S-8040	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	1 1/4	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	1 1/2	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	2 1/2	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	3 1/2	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

가 S-150 Recommended spec.

가 S-150 Maximum spec.

S-500 Recommended spec.

S-500 Maximum Spec.



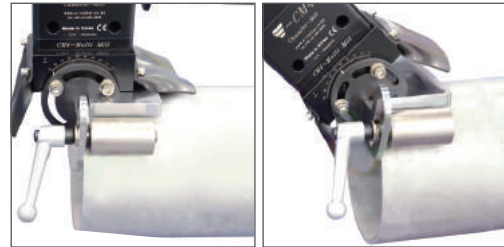
- CM4_M



Multi-function Hand Beveler

Bevel Capacity : 0° - 90°, 0 - 14C

Pipe/Plate : Film 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)		
Processing Depth		0.05mm as a minimum unit		
Machine Capacity	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		
Machine Specification	Weight	6.0kg		
	Dimensions	85 x 85 x 185H		
	Effectiv. Factor	4EA(S501306-CM4-780) - usage of 8 surfaces		

– Motor Specifications

Description	Unit	Cutting Motor
Rated output	W	1050
Rated voltage	V	AC 200 - 220V / 50 - 60Hz
Working environment	-	-20° C - 40° C / 20 - 80%RH

– Standard Accessories

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

– Optional Accessories



- Insert tip : S501306-CM4-780
- Insert tip fix bolt

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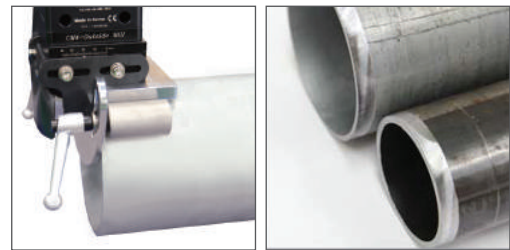
- CM4_OD



Portable Plate Processing Machine

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

Pipe/Plate : Film 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)		
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
	Machine Specification	Weight	6.0kg	
Dimensions		85 x 85 x 185H		
Effectiv. Factor		4EA(S501306-CM4-780) - usage of 8 surfaces		

– Motor Specifications

Description	Unit	Cutting Motor
Rated output	W	1050
Rated voltage	V	AC 200 - 220V / 50 - 60Hz
Working environment	-	-20 °C - 40 °C / 20 - 80%RH

– Standard Accessories

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

– Optional Accessories



- Insert tip : S501306-CM4-780
- Insert tip fix bolt

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- 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 : 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 tip-out
- Usage of Insert tip
 - Enable you to use 4 surfaces (Titanium coating)
 - Long-lived and high strength insert tip

– Machine Specifications

Model	Specification	
 - EM0.5	Rating	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	Rating	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	2.3kg(including battery)

– Insert Tip Specifications



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

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- TGR / TGF



Necessary for Welding Operator

Ultralight and rechargeable Tungsten Grinder

Capacity : The minimum length of the electrode bar to be ground is 15mm

Included angle: 15° - 180°



- Using a rechargeable motor(Ultra-light)
- Precise 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
- Improved convenience by marking cut scale
- Machine Specifications
- One-touch lock function is applied when changing diamond wheel
- Two models, 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 15mm
- Wheel Specifications

Model	Specification	
Common	Rating	10.8V, 2Ah
	Speed	19500RPM
 - TGR	Included angle	15° - 120°, 180°
	Capacity	0.5ø - 3.2ø
	Weight	0.89kg(including battery)
 -TGF	Included angle	15°, 22.5°, 30°, 36°, 45°, 60°, 90°, 120°, 180°
	Capacity	0.5ø - 3.2ø
	Weight	0.99kg(including battery)



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

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