



A Specialized Manufacturer of **Sawing Machine**



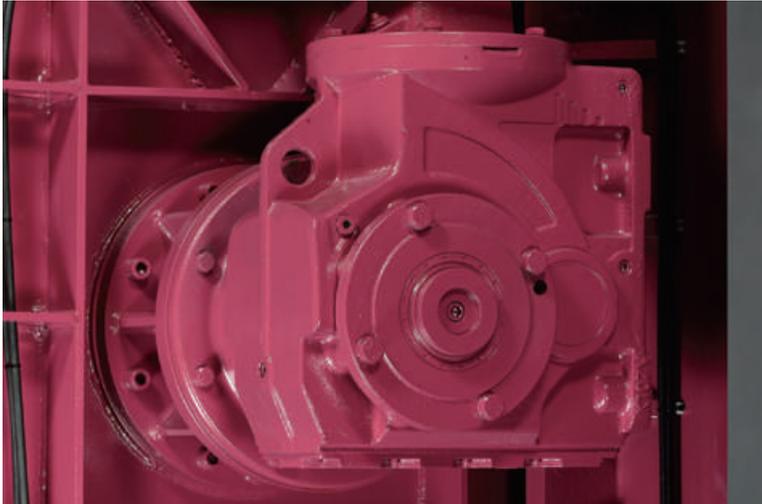
SINGULAR MACHINERY CO., LTD.

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High Quality | High Rigidity | High Efficiency

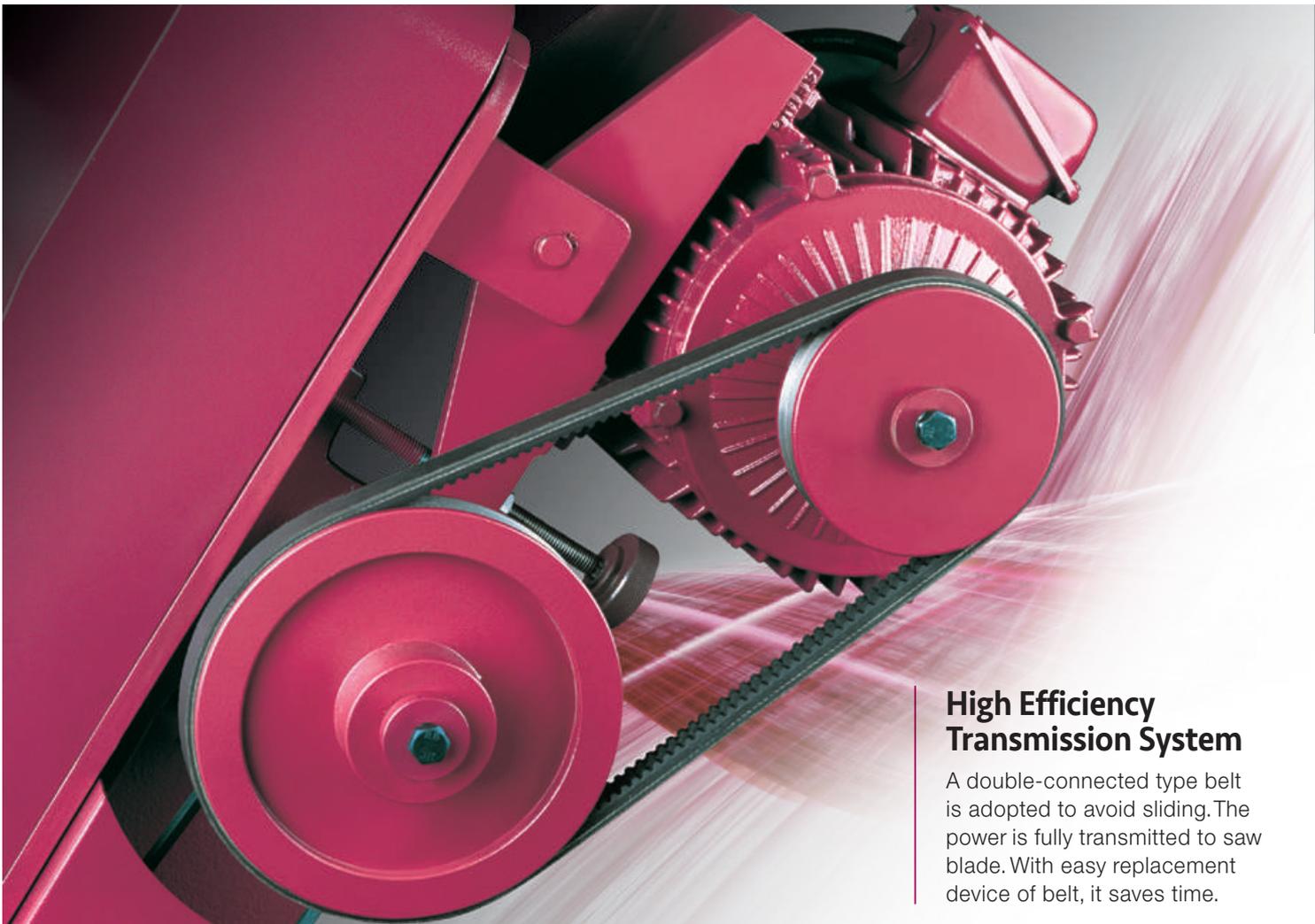
SINGULAR DESIGN OF SAWING MACHINE

Excellence in Machinery Design and Mechanical Craftsmanship



Helical-bevel gear reducer

Allows the higher transmission efficiency, higher stability and less noise.



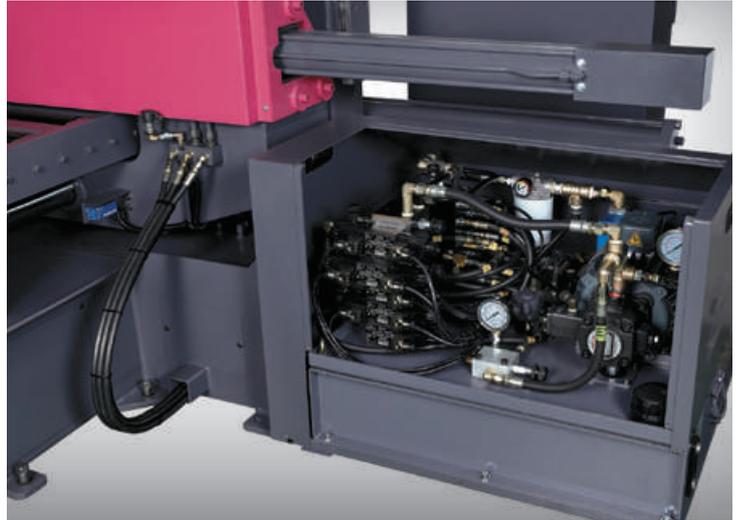
High Efficiency Transmission System

A double-connected type belt is adopted to avoid sliding. The power is fully transmitted to saw blade. With easy replacement device of belt, it saves time.



Cutting depth control

Precisely control cutting depth by presetting.



Modularized hydraulic system

Allows efficient hydraulic control and easy maintenance.



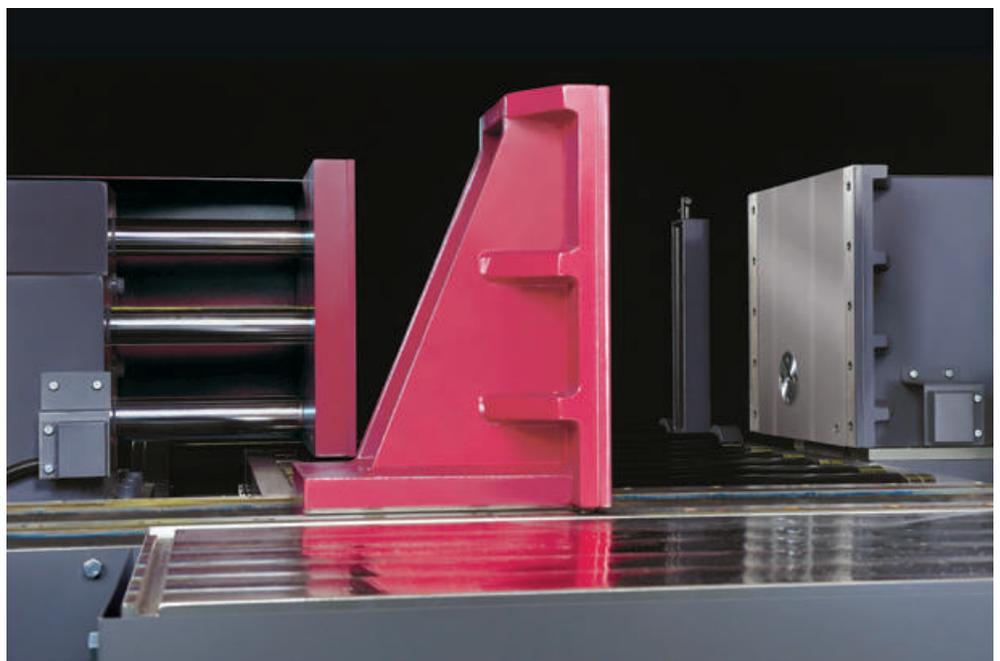
Control Panel

Control panel and touch screen collocated with human machine interface allow easy operation and high efficiency.

The information of problems and trouble shooting are showed in screen when machine operates abnormally and historical date also recorded for reference.

Out of Stock Monitor

The machine stops automatically when work-piece's length is shorter than the cutting length to avoid the falling of remained piece and the damage of the index guiding shaft.



SINGULAR DESIGN OF SAWING MACHINE

Excellence in Machinery Design and Mechanical Craftsmanship



Hydraulic Chip Conveyor

The reverse pushing design conveys chips efficiently. It can make chips drier when conveying and save more space.

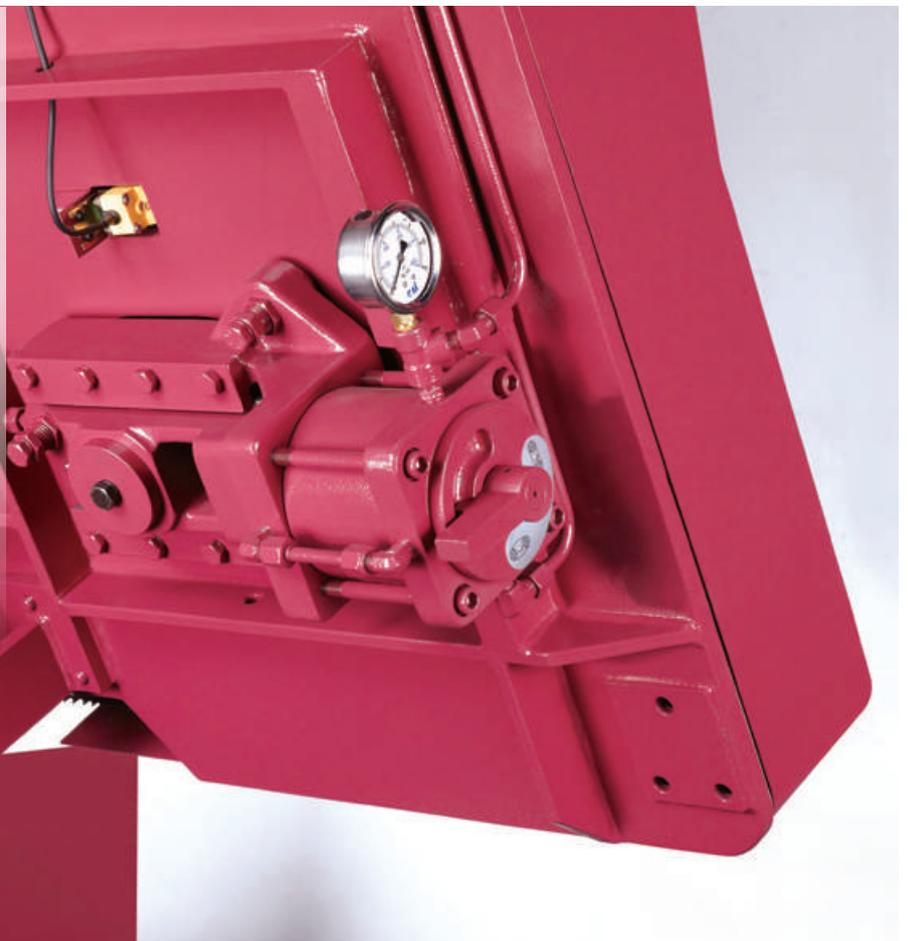
Band Deviation Monitor

The machine stops automatically when the deviation of the saw blade is over the preset figure. It allows a square cutting and avoids wasting the cutting material.



Hydraulic Blade Tension

The blade tension is preset according to practical demand and maintained. The blade is loosened when the machine stops. It allows high cutting efficiency and long blade life.





Saw arm and vise coordinately move using linear guideway

Saw arm synchronously moved by band and vise allows easy operating, prevents colliding.



Electrical Circuit Board

An efficient PLC and high quality components are adopted for electrical control system. The applicable space collocation allows easy and convenient maintenance and save time.

Magnetic Scale

The contact-free positioning system allows the high precision of length setting and prevents the problems of dirt build-up that besets other positioning systems.



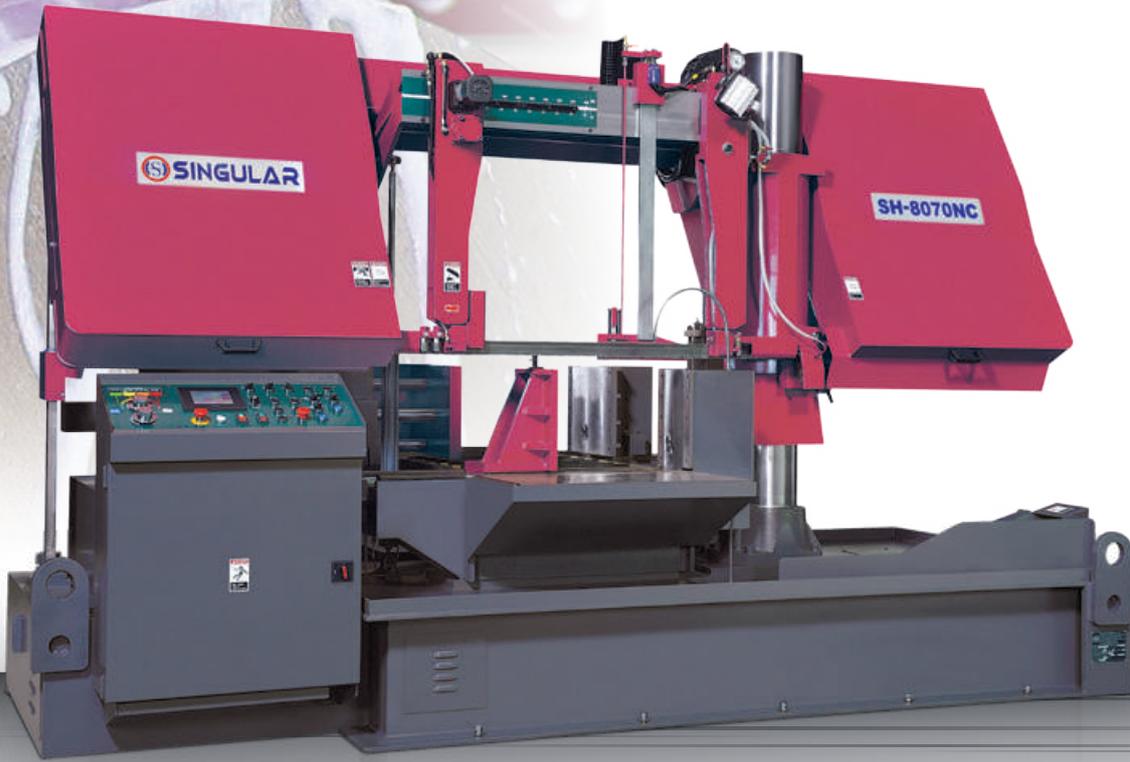
NC Band Saw



SH-4242NC



SH-6056NC



SH-8070NC



SH-5650NC



NC Band Saw Specifications

Model		Unit	SH-3028NC	SH-4033NC	SH-4242NC	SH-5046NC
Cutting Capacity	●	mm	10 ~ 280	10 ~ 330	10 ~ 420	10 ~ 460
	■		W10xH10~W300xH280	W10xH10~W400xH330	W10xH10~W420xH420	W10xH10~W510xH460
Bundle Cutting	Max.	mm	W250 x H100	W370 x H170	W370 x H200	W480 x H240
	Min.		W165 x H15	W165 x H50	W165 x H80	W240 x H80
Saw Blade	Size	mm	3,820 x 34 x 1.1	4,242 x 34 x 1.1	4,880 x 41 x 1.3	5,300 x 41 x 1.3
	Speed	m/min	16 ~ 85			
	Tension		Hydraulic			
Motors Output	Saw Blade		3.7 KW (5 HP)	3.7 KW (5 HP)	5.5 KW (7.5 HP)	5.5 KW (7.5 HP)
	Hydraulic Pump		0.75 KW (1 HP)	0.75 KW (1 HP)	1.5 KW (2 HP)	1.5 KW (2 HP)
	Coolant Pump		0.2 KW (1/4 HP)			
Tanks	Hydraulic	L	60	60	85	85
	Coolant		80	90	100	110
Feeding Length (Single / Multiple)		mm	400 / 3,600	500 / 4,500	500 / 4,500	500 / 4,500
Working Height		mm	700	700	700	750
Dimensions		mm	W2,100xL1,990xH1,300	W2,250xL2,195xH1,400	W2,450xL2,235xH1,665	W2,580xL2,240xH1,800
Net Weight		kg	1,750	2,000	2,500	2,850

Standard Equipment & Accessories

- PLC control for all electric and hydraulic functions.
- Infinitely variable blade speed controlled by inverter.
- Idle wheel motion detector with blade stalling and breakage shutoff.
- Shuttle type automatic feed and sliding work table with roller.
- Hydraulic blade tension.
- Automatic blade height control and rapid approach.
- Carbide blade guide with roller bearing.
- Nesting fixture for bundle cutting.

- Length setting: Magnetic scale.
- 20 workstations presetting.
- Automatic chip conveyor.
- Power driven blade-cleaning wire brush.
- Flushing hose for machine cleaning.
- Work lamp.
- One set of tools in tool box.
- One set of 2-meter roller stand.

Optional Equipment

- Variable vise pressure.
- Blade deviation monitor.
- Out of stock monitor.



SH-5650NC	SH-6056NC	SH-6260NC	SH-8056NC	SH-8070NC	SH-1080NC
10 ~ 500	10 ~ 560	10 ~ 600	10 ~ 560	100 ~700	200 ~ 800
W10xH10~W560xH500	W10xH10~W610xH560	W10xH10~W620xH600	W10xH10~W800xH560	W100xH100~W800xH700	W200xH25~W1,000xH800
W480 x H260	NA	W480 x H440	NA	NA	NA
W240 x H80		W260 x H360			
5,450 x 41 x 1.3	6,600 x 54 x 1.6	6,560 x 41 x 1.3	7,000 x 54 x 1.6	8,000 x 54 x 1.6	8,800 x 67 x 1.6
16 ~ 85					
Hydraulic					
5.5KW (7.5HP)	7.5 KW (10 HP)	5.5 KW (7.5 HP)	7.5 KW (10 HP)	11.2 KW (15 HP)	11.2 KW (15 HP)
1.5KW (2HP)	2.2 KW (3 HP)	1.5 KW (2 HP)	2.2 KW (3 HP)	2.2 KW (3 HP)	2.2 KW (3 HP)
0.2 KW (1/4 HP)					
85	130	95	130	135	130
110	140	150	140	230	240
500 / 4,500	400 / 3,600	400 / 3,600	400 / 3,600	400 / 3,600	400 / 3,600
750	850	800	850	800	830
W2,630xL2,260xH1,820	W3,210xL2,135xH2,160	W3,210xL2,130xH2,030	W3,410xL2,135xH2,160	W3,910xL2,240xH2,300	W4,350xL2,390xH2,750
3,000	4,500	3,800	4,850	7,100	11,500

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SH-1080NC

Fully Automatic Band Saw



SH-4033A



SH-4242A

Specifications

Model		Unit	SH-3028A	SH-4033A	SH-4242A	SH-5046A
Cutting Capacity	●	mm	10 ~ 280	10 ~ 330	10 ~ 420	10 ~ 460
	■		W10xH10~W300xH280	W10xH10~W400xH330	W10xH10~W420xH420	W10xH10~W510xH460
Bundle Cutting	Max.	mm	W250 x H100	W370 x H170	W370 x H200	W480 x H240
	Min.		W165 x H15	W165 x H50	W165 x H80	W240 x H80
	Size	mm	3,820 x 34 x 1.1	4,242 x 34 x 1.1	4,880 x 41 x 1.3	5,300 x 41 x 1.3
Saw Blade	Speed	m/min	16 ~ 85			
	Tension		Hydraulic			
Motors Output	Saw Blade		3.7 KW (5 HP)	3.7KW (5 HP)	5.5 KW (7.5 HP)	5.5 KW (7.5 HP)
	Hydraulic Pump		0.75 KW (1 HP)	0.75 KW (1 HP)	1.5 KW (2 HP)	1.5 KW (2 HP)
	Coolant Pump		0.2 KW (1/4 HP)			
Tanks	Hydraulic	L	60	60	85	85
	Coolant		80	90	100	110
Feeding Length (Single / Multiple)		mm	400 / 3,600	500 / 4,500	500 / 4,500	500 / 4,500
Working Height		mm	700	700	700	750
Dimensions		mm	W2,100xL1,990xH1,300	W2,250xL2,195xH1,400	W2,450xL2,235xH1,665	W2,580xL2,240xH1,800
Net Weight		kg	1,750	2,000	2,500	2,850



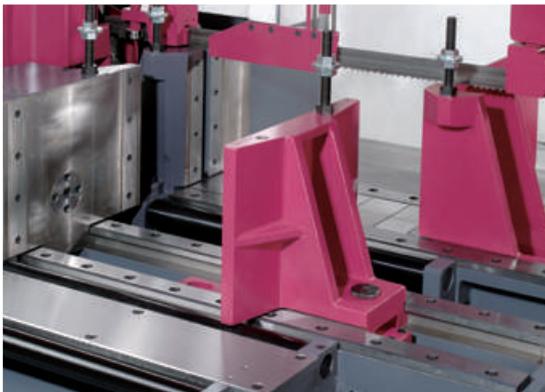
Standard Equipment & Accessories

- PLC control for all electric and hydraulic functions.
- Infinitely variable blade speed controlled by inverter.
- Idle wheel motion detector with blade stalling and breakage shutoff.
- Shuttle type automatic feed and sliding work table with roller.
- Hydraulic blade tension.
- Automatic blade height control and rapid approach.

- Carbide blade guide with roller bearing.
- Nesting fixture for bundle cutting. (NA for SH-6056A, SH-8056A, SH-8070A, SH-1080A)
- Length setting: Screw & nut with digital indicator.
- Automatic chip conveyor.
- Power driven blade-cleaning wire brush.
- Flushing hose for machine cleaning.
- Work lamp.
- One set of tools in tool box.
- One set of 2-meter roller stand.

Optional Equipment

- Variable vise pressure.
- Blade deviation monitor.
- Out of stock monitor.



SH-5650A	SH-6056A	SH-6260A	SH-8056A	SH-8070A	SH-1080A
10 ~ 500	10 ~ 560	10 ~ 600	10 ~ 560	100 ~ 700	200~ 800
W10xH10~W560xH500	W10xH10~W610xH560	W10xH10~W620xH600	W10xH10~W800xH560	W100xH100~W800xH700	W200xH25~W1,000xH800
W480 x H260	NA	W480 x H440	NA	NA	NA
W240 x H80		W260 x H360			
5,450 x 41 x 1.3	6,600 x 54 x 1.6	6,560 x 41 x 1.3	7,000 x 54 x 1.6	8,000 x 54 x 1.6	8,800 x 67 x 1.6
16 ~ 85					
Hydraulic					
5.5 KW (7.5 HP)	7.5 KW (10 HP)	5.5 KW (7.5 HP)	7.5 KW (10 HP)	11.2 KW (15 HP)	11.2 KW (15 HP)
1.5 KW (2 HP)	2.2 KW (3 HP)	1.5 KW (2 HP)	2.2 KW (3 HP)	2.2 KW (3 HP)	2.2 KW (3 HP)
0.2 KW (1/4 HP)					
85	130	95	130	135	130
110	140	150	140	230	240
500 / 4,500	400 / 3,600	400 / 3,600	400 / 3,600	400 / 3,600	400 / 3,600
750	850	800	850	800	830
W2,630xL2,260xH1,820	W3,210xL2,135xH2,160	W3,210xL2,130xH2,030	W3,410xL2,135xH2,160	W3,910xL2,240xH2,300	W4,350xL2,390xH2,750
3,000	4,500	3,800	4,850	7,100	11,500

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Semiautomatic Band Saw



SH-1100SA

SH-1713SA

Specifications

Model		Unit	SH-3028SA	SH-4033SA	SH-5650SA
Cutting Capacity	●	mm	10 ~ 280	10 ~ 330	10 ~ 550
	■		W10 x H10 ~ W300 x H280	W10 x H10 ~ W400 x H330	W10 x H10 ~ W560 x H500
Bundle Cutting	Max.	mm	W250 x H100	W370 x H170	W480 x H240
	Min.		W165 x H15	W165 x H50	W240 x H80
Saw Blade	Size	mm	3,820 x 34 x 1.1	4,242 x 34 x 1.1	5,450 x 41 x 1.3
	Speed	m/min	20, 35, 50, 65, 80	20, 35, 50, 65, 80	20, 35, 50, 65, 80
	Tension		Hydraulic		
Motors Output	Saw Blade		3.7 KW (5 HP)	3.7 KW (5 HP)	5.5 KW (7.5 HP)
	Hydraulic Pump		0.75 KW (1 HP)	0.75 KW (1 HP)	1.5 KW (2 HP)
	Coolant Pump		0.2 KW (1/4 HP)		
Tanks	Hydraulic	L	60	60	85
	Coolant		75	80	110
Working Height		mm	700	700	750
Dimensions		mm	W2,110 x L1,210 x H1,520	W2,240 x L1,210 x H1,550	W2,890 x L1,550 x H1,800
Net Weight		kg	1,200	1,650	2,600

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SH-8056SA

Standard Equipment & Accessories

- PLC control for all electric and hydraulic functions.
- Idle wheel motion detector with blade stalling and breakage shutoff.
- Hydraulic blade tension.
- Carbide blade guide with roller bearing.
- Length setting: Manual setting.
- Power driven blade-cleaning wire brush.
- Flushing hose for machine cleaning.
- Work lamp.
- One set of tools in tool box.
- One set of 2-meter roller stand.

Optional Equipment

- Nesting fixture for bundle cutting.
- Automatic chip conveyor.
- Variable vise pressure.
- Blade deviation monitor.
- Infinitely variable blade speed controlled by inverter.

SH-8056SA	SH-1080SA	SH-1100SA	SH-1713SA
10 ~ 560	560 ~ 800	550 ~ 1100	695 ~ 1300
W10 x H10 ~ W800 x H560	W560 x H25 ~ W1,000 x H800	W550xH25~W1100xH1100	W695xH25~W1700xH1300
W480 x H280	NA		
W260 x H160	NA		
6,800 x 54 x 1.6	8,800 x 67 x 1.6	10,000 x 67 x 1.6	13,000 x 80 x 1.6
16 ~ 85 (INV.)	16 ~ 85	15 ~ 80 (INV.)	12 ~ 75 (INV.)
Hydraulic			
7.5 KW (10 HP)	11.2 KW (15 HP)	11.2 KW (15 HP)	15KW (20HP)
2.2 KW (3 HP)	2.2 KW (3 HP)	2.2 KW (3 HP)	3.7KW (5HP)
0.2 KW (1/4 HP)			
120	85	90	165
140	220	200	280
850	720	680	680
W3,300 x L1,950 x H2,000	W4,350 x L2,160 x H2,650	W4,600xL2,400xH3,250	W6,200xL2,800xH3,800
3,800	11,000	14,000	21,000

Pivot Type Band Saw



SS-3028NC | SS-4033NC

Standard Equipment & Accessories

- PLC control for all electric and hydraulic functions.
- Infinitely variable blade speed controlled by inverter.
- Idle wheel motion detector with blade stalling and breakage shutoff.
- Shuttle type automatic feed and sliding work table with roller.
- Hydraulic blade tension.
- Automatic blade height control and rapid approach.
- Carbide blade guide with roller bearing.
- Nesting fixture for bundle cutting.
- Length setting: Magnetic scale.
- 20 workstations presetting.
- Automatic chip conveyor.
- Power driven blade-cleaning wire brush.
- Flushing hose for machine cleaning.
- Work lamp.
- One set of tools in tool box.
- One set of 2-meter roller stand.

Optional Equipment

- Variable vise pressure.
- Blade deviation monitor.
- Out of stock monitor.

Specifications

Model		Unit	SS-3028NC SS-3028A	SS-4033NC SS-4033A
Cutting Capacity	●	mm	10 ~ 280	
	■		W10xH10 ~ W300xH280	
Bundle Cutting	Max.	mm	W250 x H100	
	Min.		W165 x H15	
Saw Blade	Size	mm	3,820 x 34 x 1.1	4,242 x 34 x 1.1
	Speed	m/min	16 ~ 85	
	Tension		Hydraulic	
Motors Output	Saw Blade		3.7 KW (5 HP)	
	Hydraulic Pump		0.75 KW (1 HP)	
	Coolant Pump		0.2 KW (1/4 HP)	
Tanks	Hydraulic	L	60	
	Coolant		80	90
Feeding Length (Single / Multiple)	mm	400 / 3,600		
Working Height	mm	700		
Dimensions	mm	W2,130xL1,990xH1,260	W2,300xL2,060xH1,330	
Net Weight	kg	1,720	1,920	

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SS-3028A | SS-4033A

Standard Equipment & Accessories

- PLC control for all electric and hydraulic functions.
- Infinitely variable blade speed controlled by inverter.
- Idle wheel motion detector with blade stalling and breakage shutoff.
- Shuttle type automatic feed and sliding work table with roller.
- Hydraulic blade tension.
- Automatic blade height control and rapid approach.
- Carbide blade guide with roller bearing.
- Nesting fixture for bundle cutting.
- Length setting: Screw & nut with digital indicator.
- Automatic chip conveyor.
- Power driven blade-cleaning wire brush.
- Flushing hose for machine cleaning.
- Work lamp.
- One set of tools in tool box.
- One set of 2-meter roller stand.

Optional Equipment

- Variable vise pressure.
- Blade deviation monitor.
- Out of stock monitor.



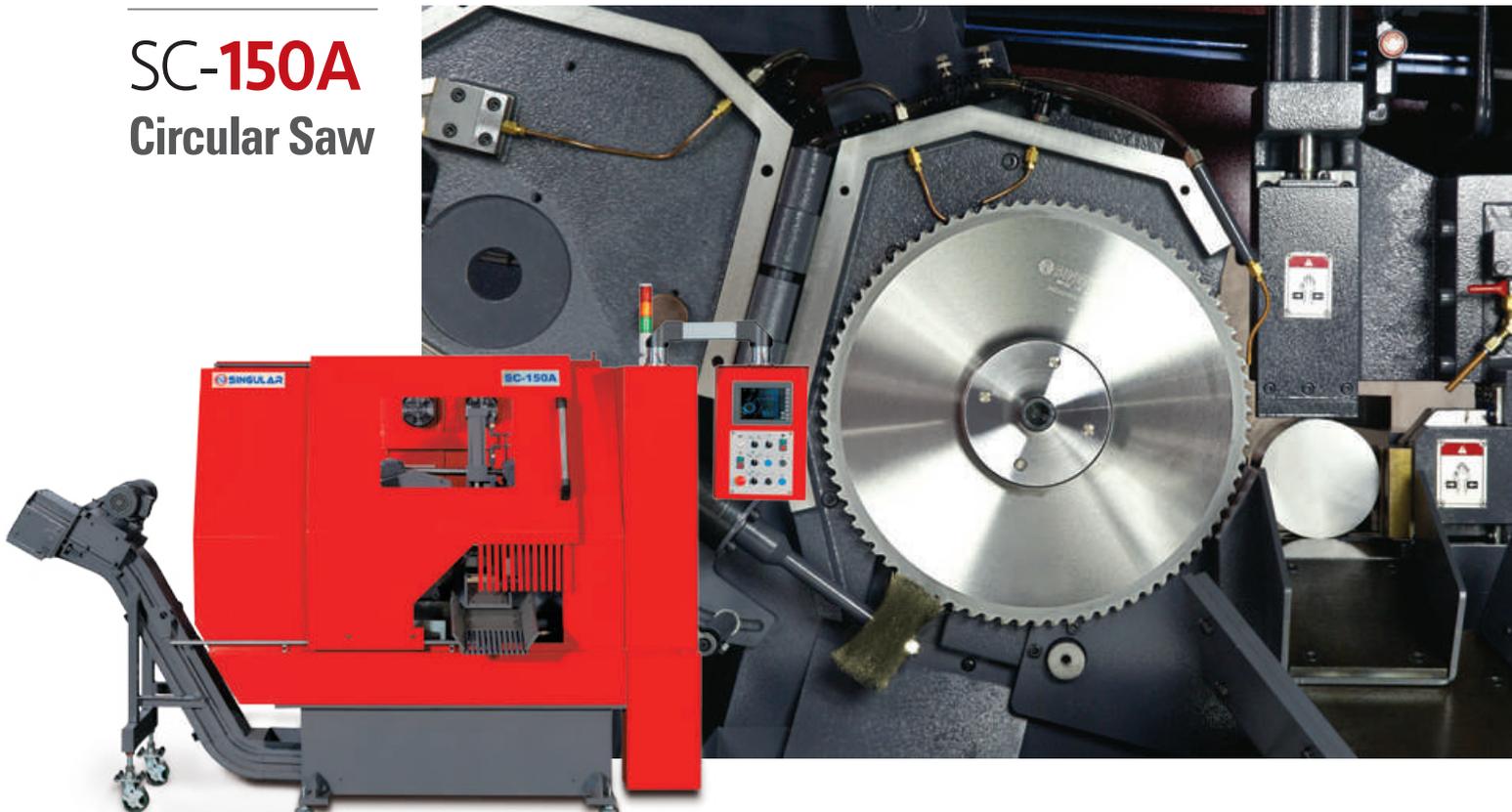
SH-1080SA Semiautomatic Band Saw



A Specialized Manufacturer of **Sawing Machine**

High Quality | High Rigidity | High Efficiency

SC-150A Circular Saw



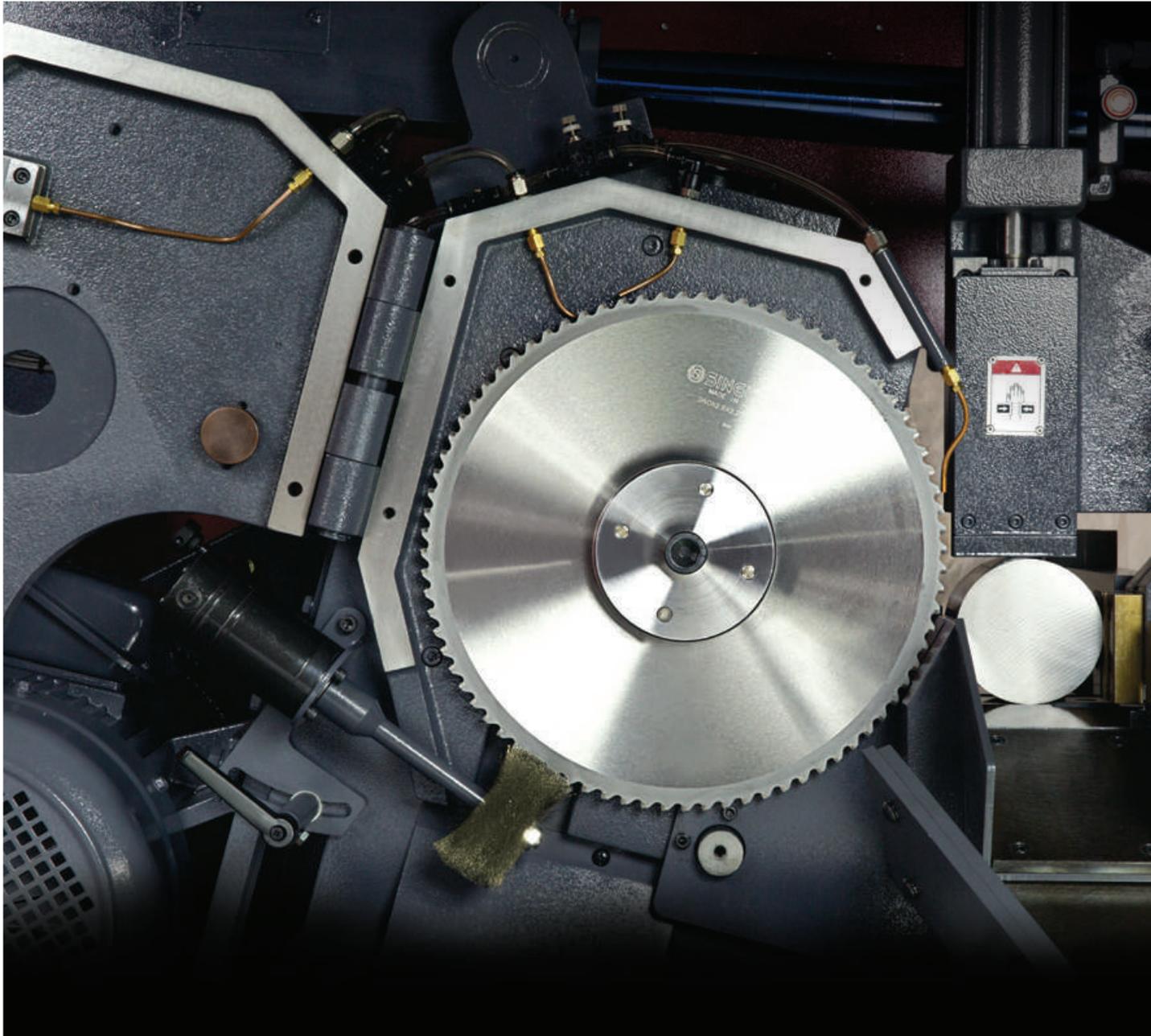


SINGULAR MACHINERY CO., LTD.

No.16, Alley 231, Ln. 162, Sec. 7, Fengyuan Blvd.,
Fengyuan Dist., Taichung City 42086, Taiwan
Tel: +886-4-2527-1025 Fax: +886-4-2527-1079

www.singular-co.com
www.singular-co.com.tw
singu.lar@msa.hinet.net



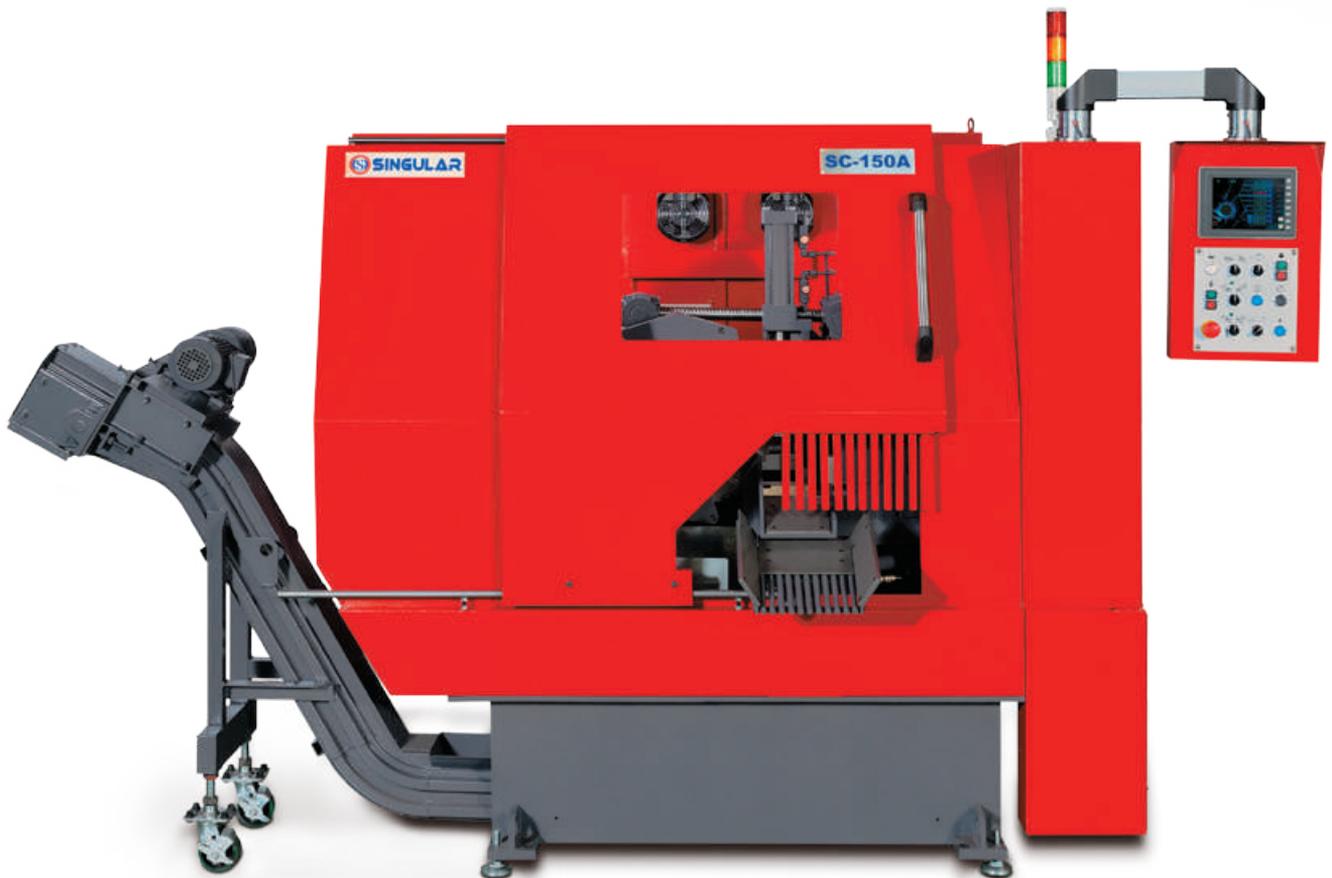


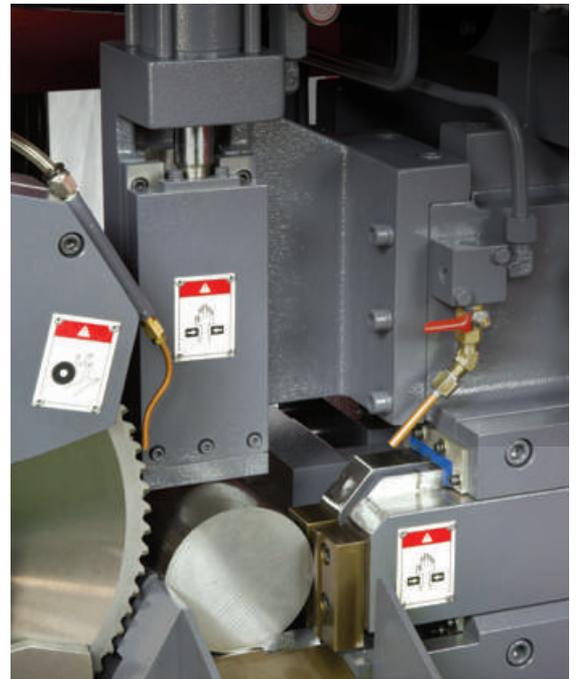
SC-150A Circular Saw



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A Specialized Manufacturer of Sawing Machine

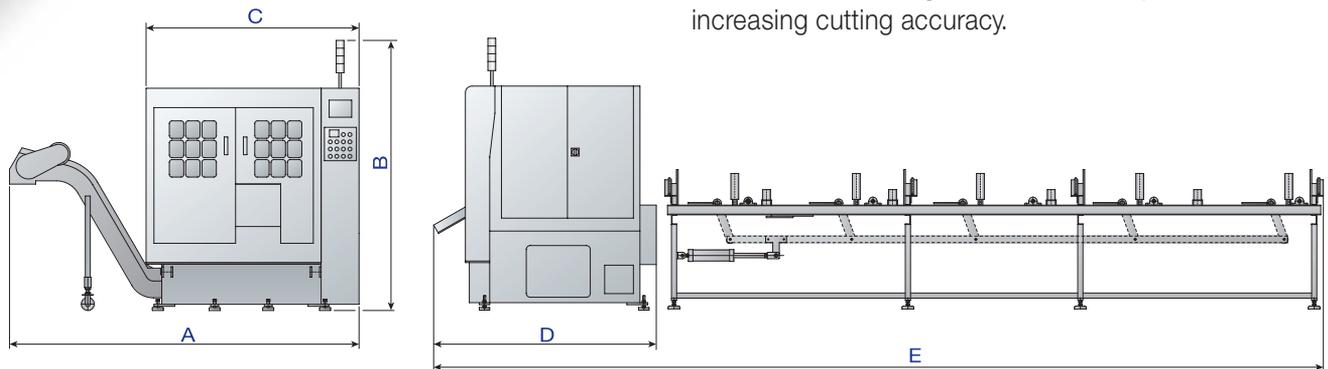
SC-150A Circular Saw





Hydraulic Front & Vertical Vises

The hydraulic front and vertical vises firmly clamp the material, reducing vibration efficiently and increasing cutting accuracy.



Model	A	B	C	D	E
SC-75A	2,675	2,410	1,630	1,710	6,820
SC-100A	2,915	2,460	1,870	1,800	6,900
SC-150A	3,020	2,130	2,070	2,250	7,080



Touch Screen | Control Panel

The control panel and touch screen allow easy operation and high efficiency. The information for problem solving & trouble shooting are shown on screen when the machine operates abnormally. Historical data is also recorded for reference.



Servo Motor Bar Feed

The servo motor and ball screw bar feed system rapidly feeds the material to its accurate position. This is a key factor for high volume cutting requirements.



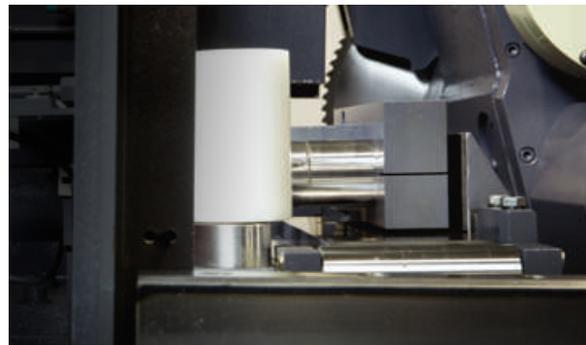
Vertical Air Cylinder

While the feeding table is searching for the material front end, the vertical cylinder firmly presses the material without damaging it. This allows accurate material positioning.



Hydraulic Sorting Chute

The automatic sorting system separates the head and tail-pieces at the ends of each bar. This allows for longer unattended operation and easy disposal of the off cut material.



Out of Stock Monitor

The photoelectric monitor effectively adapts to variable condition of the material. It accurately works even if the material is crooked or with rough surface.

Power Wire Brush

The hydraulically powered chip brush that actively cleans chips from the saw blade. This extends blade life and maintains cutting efficiency.



Bar Lifting System

The hydraulic lifting system efficiently moves different sizes of material from the loading area to the feeding area. This saves time and increases productivity.

Servo Motor Blade Feed

The servo motor and ball screw blade feed system accurately control cutting speed and blade positioning. This allows high cutting efficiency and long blade life.



Model		SC-75A	SC-100A	SC-150A
Cutting Capacity	●	8 ~ 75 mm	10 ~ 100 mm	70 ~ 150 mm
	■	8 x 8 ~ 60 x 60 mm	10 x 10 ~ 80 x 80 mm	70 x 70 ~ 110 x 110 mm
Blade Motor		15 HP	15 HP	25 HP
Hydraulic Pump Motor		2 HP	3 HP	3 HP
Blade Speed		30 ~ 150 rpm		
Blade Size (φ x kerf x Thickness)		285 x 2.0t mm	360 x 2.6t mm	460 x 2.7 x 2.25 mm
Blade Feed		Servo Motor and Ball Screw		
Bar Feed		Servo Motor and Ball Screw		
Automatic Feed Length	Single	6 ~ 600 mm		
	Multiple	6,000 mm		
Automatic Chip Conveyor		Chain Type		
Cooling		Air Compressed Oil Mist		
Machine Weight with Table		2,300 kg	2,800 kg	3,600 kg
Floor Space (Machine with Table)		W2,680 x L6,820 mm	W2,920 x L6,900 mm	W3,020 x L7,100 mm

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Standard Equipment & Accessories

- PLC Control for Electric & Hydraulic Functions
- Easy Conversational HMI
- Infinitely Variable Blade Speed Controlled by Inverter
- Hydraulic Front & Vertical Vises
- Floating Shuttle Device
- Hydraulic Sorting Chute
- Electro-Magnetic Powder Brake

- Photoelectric Out of Stock Monitor
- Automatic Chip Conveyor
- Power Wire Brush
- Air Blow Device for Tube Cutting
- Automatic Loading Table
- Cutting Mist Oil - 5 Gallons
- Work Lamp
- One Set of Tools in Tool Box

Optional Equipment

- Oil Mist Filter
- Variable Vise Pressure



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No.16, Alley 231, Ln. 162, Sec. 7, Fengyuan Blvd.,
Fengyuan Dist., Taichung City 42086, Taiwan
Tel: +886-4-2527-1025 Fax: +886-4-2527-1079

www.singular-co.com
www.singular-co.com.tw
singular@msa.hinet.net