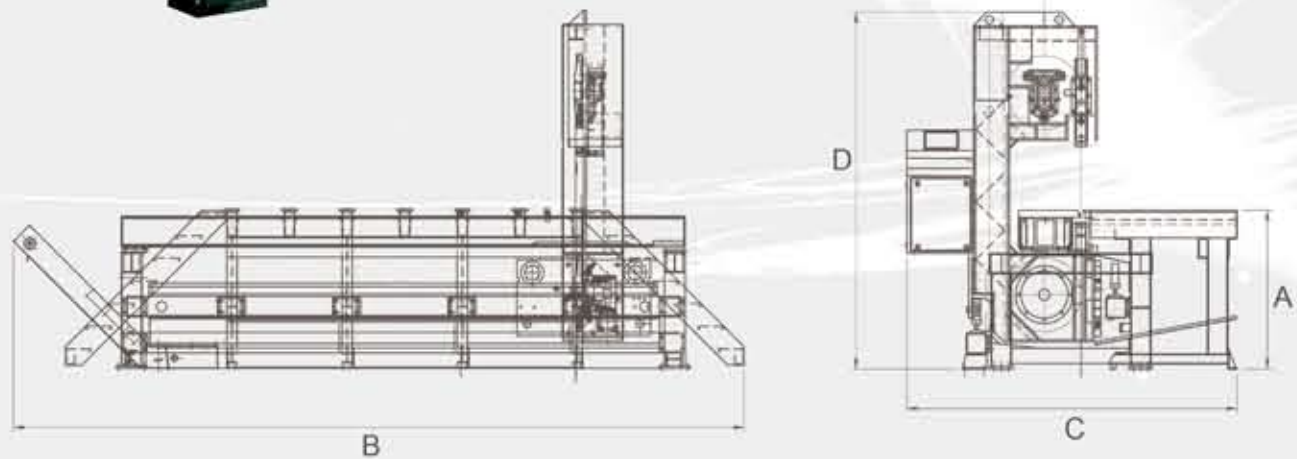




Cosen's vertical plate/block band saw models SV-4060, SV-5060, SV-7060, SV-86110, SV-80130 and SV-130160 are very suitable for plate, block, convex, concave, corner and strip cutting. With the rugged construction, this series provides outstanding cutting speed and accuracy. The quick blade changer system enables you to change blade quickly.



Wire Brush Assembly



Guide Blade Seat



Chip Conveyor (optional)

SV Series

Model		SV-4060	SV-5060	SV-7060	SV-70100	SV-86110	SV-80130	SV-130160
Capacity	Height	400mm (15.7")	500mm (20")	700mm (27.6")	700mm (27.6")	860mm (34")	800mm (32")	1300mm (51")
	Throat	660mm (26")	660mm (26")	660mm (26")	1000mm (39")	1100mm (43")	1300mm (51")	1600mm (63")
	Cutting Length	2000-7000mm	2000-7000mm	2000-7000mm	2000-7000mm	2000-7000mm	2000-7000mm	2000-7000mm(
	Length	(79" – 276")	(79" – 276")	(79" – 276")	(79" – 276")	(79" – 276")	(79" – 276")	79" – 276")
Saw Blade	Size	5815x54x1.6mm (229"x2"x0.06")	5915x54x1.6mm (233"x2"x0.06")	6315x54x1.6mm (248.6"x2"x0.06")	6800x54x1.6mm (267.7"x2"x0.06")	7440x67x1.6mm (293"x2.6"x0.06")	7600x67x1.6mm (299"x2.6"x0.06")	10000x80x1.6mm (394"x3.1"x0.06")
	Speed	20-80m/min (65-262ft/min)						
Motor Output	Blade	7.5HP	10HP	10HP	10HP	15HP	15HP	20HP
	Hydraulic	3HP / 2HP	3HP / 2HP	3HP / 2HP	3HP / 2HP	3HP / 2HP	3HP / 2HP	3HP / 2HP
	Coolant	1/4HP	1/4HP	1/4HP	1/2HP	1/2HP	1/2HP	1/2HP
	Feed	0.85KW	0.85KW	1.3KW	1.3KW	1.3KW	1.3KW	2.9KW
Coolant Tank (6000mm)		1000L (220gal)	1000L (220gal)	1000L (220gal)	1000L (220gal)	1000L (220gal)	1000L (220gal)	1000L (220gal)
Hydraulic	Tank	60/60L (13/13gal)	60/60L (13/13gal)	60/60L (13/13gal)	60/60L (13/13gal)	60/60L (13/13gal)	80/60L (17/13gal)	80/60L (17/13gal)
	Pressure	55/35 kg/cm ² (785/500psi)	55/35 kg/cm ² (785/500psi)	55/35 kg/cm ² (785/500psi)	55/35 kg/cm ² (785/500psi)	55/35 kg/cm ² (785/500psi)	55/55 kg/cm ² (785/785psi)	55/55 kg/cm ² (785/785psi)
	Output Flow	30/12 L/min (6.6/2.6 gal/min)	30/12 L/min (6.6/2.6 gal/min)	30/12 L/min (6.6/2.6 gal/min)	30/12 L/min (6.6/2.6 gal/min)	30/12 L/min (6.6/2.6 gal/min)	40/12 L/min (8.8/2.6 gal/min)	40/12 L/min (8.8/2.6 gal/min)
with Cutting length		6500mm (256")	6500mm (256")	6500mm (256")	6500mm (256")	6500mm (256")	6500mm (256")	6500mm (256")
Weight		16000Kgs	17000Kgs	17000Kgs	22000Kgs	24000Kgs	27000Kgs	30000Kgs
A (Bed Height)		1550mm (61")	1550mm (61")	1550mm (61")	1550mm (61")	1550mm (61")	1550mm (61")	1750mm (69")
B (Table Length 6M)		9000mm (354")	9000mm (354")	8700mm (342.5")	10600mm (417")	10950mm (431")	9200mm (362")	9500mm (374")
C (Width)		3300mm (130")	3300mm (130")	3300mm (130")	4350mm (171")	4250mm (167")	4250mm (167")	4900mm (193")
D (Height)		3500mm (138")	3550mm (140")	3700mm (145.7")	3700mm (145.7")	4120mm (162")	3950mm (155")	4850mm (191")

SV-H Series

Model		SV-3055H	SV-6066H	SV-40130H
Capacity	Height	300mm (11.8")	600mm (23.6")	400mm (15.7")
	Throat	550mm (21.6")	660mm (26")	1300mm (51")
	Cutting Length	by order (max. 3000mm (118"))		
Saw Blade	Size	4450 x 41 x 1.3mm (175.2" x 1.6" x 0.05")	6040 x 54 x 1.6mm (237.8" x 2" x 0.06")	6650 x 41 x 1.3mm (261.8" x 1.6" x 0.05")
	Speed	20-80m/min (66-264ft/min)		
	Tension	Hydraulic Controlled		
	Guide	Tungsten Carbide guides		
Motor Output	Blade	7.5HP (5.6KW)	10HP (7.5KW)	10HP (7.5KW)
	Hydraulic	2HP (1.5KW)	2HP (1.5KW)	2HP (1.5KW)
	Coolant	1/4HP (0.19KW)	1/4HP (0.19KW)	1/4HP (0.19KW)
Tank	Hydraulic oil	70L (15gal)	70L (15gal)	70L (15gal)
Capacity	Coolant	250L (55gal)	250L (55gal)	300L (66gal)
Saw Frame Travel		Hydraulic cylinder feeding		
Workbed Height		1350mm (53")	1475mm (58")	1500mm (59")
Floor Space (L x W x H)		cutting length: 2500mm	cutting length: 2500mm	cutting length: 2500mm
		3300 x 1500 x 2455mm (130" x 59" x 96.6")	5320 x 2200 x 3200mm (209" x 86.6" x 126")	4700 x 3188 x 2535mm (185" x 125" x 100")

Design and specification are subject to change without notice and obligation.
Custom design is acceptable.



COSEN MACHINERY
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cat. no. billet-1109

Cosen Vertical Plate Saw



**Heavy Duty
Horizontal & Vertical Saws**
for cutting billets, plates & blocks

Precise Design • Fast Cutting Speed • Rigid Construction



CE ISO 9001 certified

SH-1080D SH-8580D SH-8580S C-800NC

Common Features:

1. Saw frame and **work height selector** allow operators to preset work height and cutting depth to any designated position.
2. **Beam light** projects the blade cutting line on the workpiece, reducing efforts and time spent on measuring cut-off length.
3. **Double column design** ensures stable cutting pressure throughout the cutting cycle.
4. Specially engineered hydraulic circuits provide high cutting rate and reduced cutting time.
5. Solid **carbide blade guides** provide solid, stable support for the blade. The multiple coolant passages incorporated in the carbide guides ensure complete lubrication and cooling of the blade and blade guides.
6. **Hydraulically controlled blade tension** assures ideal blade tension at all times. When the machine is not in operation, tension is slightly relaxed to decrease blade fatigue, thus extending blade life.
7. The **independent wire brush driving system** is synchronized with the blade to obtain the best chip-cleaning. Chips are efficiently cleared from the blade giving better cuts and longer blade life.
8. The **blade motion detector** senses blade breakage and slippage. When either condition is detected, the machine automatically shuts down for your safety.



SH-8580D



Twin-Column Design

The use of massive - sized twin column provides superior rigidity necessary for consistent and smooth cutting forces throughout the entire cutting cycle.



Planetary Gear Reducer

Cosen's planetary gear reducer provides significantly higher mechanical efficiency than an ordinary worm gear drive. (Standard on all models over 1100 mm capacity)



Control Panel

Controls of the machine are ergonomically designed and conveniently located. The LED blade speed indicator is a standard feature on all Cosen Billet Saws.

Horizontal Billet Saws



SH-1080D



C-800NC (NC Automatic)
SH-8580S (Semi-Auto)

Numerical Cutoff Length Controller

With Cosen's SNC system, you can program up to 20 sets of designated cutoff lengths and quantities. With automatic kerf compensation incorporated as standard feature, there is no need for manual adjustment or calculation. Fully automated indexing and cutting is as simple and reliable as a push of a button.

SH-1311P SH-1010W C-1510NC C-1000NC

Three Sets of Vise Design

On selected Cosen billet saws, three sets of vises are used to clamp, hold and guide the material to be cut. The front and middle vises hold the stock tightly during the cutting cycles. The guide vise can be separately controlled to guide the material during the feeding cycle.

(Available on SH-1713, SH-1313 and SH-1311P)

Precision Feed Rate Valve

Cosen's precision feed rate valve allows for accurate setting of cutting speed and in turn creates optimum cutting conditions.

Last Cut Function

With this feature, the machine will automatically stop and shut off power to all systems when the last cut has been completed. This function can be easily actuated from the control station.



MODEL		C-1000NC	C-1510NC
Capacity	● Round	1000 mm (39.4")	1000 mm (39.4")
	■ Rectangular(HxW)	1000 x 1000 mm (39.4" x 39.4")	1000 x 1500 mm (39.4" x 59.1")
Saw blade	Speed	20-80 (m/min) (60HZ) (66-264 ft/min)	
	Size (LxWxT)	9400 x 67 x 1.6 (370" x 2.64" x 0.06")	10400 x 80 x 1.6 (409.8" x 3.15" x 0.06")
	Tension	Hydraulic Controlled	
	Guide	Tungsten Carbide Blade Guide (Hydraulic Clamping Force)	
	Arm	Hydraulic controlled	
	Cleaning	Wire brush with flexible drive shaft driven by brush motor	
Motor output	Saw blade	15 HP (11.25 kw)	20 HP (15 kw)
	Hydraulic	3 HP (2.2 kw)	3 HP (2.2 kw)
	Coolant	1/2 HP (0.375 kw)	1/2 HP (0.375 kw)
Feeding length	Mode	Hydraulic automatic, NC programmable, 99 steps	
	Single stroke	500 mm	500 mm
	Multi stroke	Max. 99999 mm	Max. 99999 mm
Tank capacity	Hydraulic	100 Liter	100 Liter
	Coolant	120 Liter	120 Liter
Rest Piece		400 mm	400 mm
Kerf Compensation		Automatic	
Vise Control method		Hydraulic, Full stroke cylinder	
Workbed height		630 mm (24.8")	630 mm (24.8")
Weight	NET	11000 kgs	13000 kgs
Floor space (LxWxH)		2050 x 4400 x 3500 mm (80.8"x173.4"x13") (without roller table)	2050 x 4900 x 3500 mm (80.8"x193"x137.9") (without roller table)



SH-1313 SH-1713

Hydraulically Driven Workbed with Rollers

Cosen's movable workbed allows for safe, simple loading and positioning of any sized workpiece from either side of the blade with even one single operator. Two-speed stock feeding design enables the operator to move stock quickly into sawing area and then finely adjust the material to its cutting position. (Available on SH-1713, SH-1313, SH-1311P, SH-1010W)

Blade Deviation Detector

The detector assures the straightness of a cut within the parameters preset by the operator. If the blade deviates beyond the preset values, the machine will shut off, thus preventing scrapping valuable material. (Optional)

Stock Position Cylinder

The built-in stock position cylinder can push the stock away from the fixed vise for easier handling and alignment.



SH-2020D

Hydraulic Chip Conveyor System

The shaftless system removes chips from the machine for easy disposal. The conveying speed can be adjusted based on the chip load at the operator's discretion.

Double Cylinders and Hydraulic Circuit Design

Cosen uses double cylinders and an exclusive hydraulic circuit design to enable smooth movement of the saw frame, thereby guaranteeing maximum cutting performance.

High Efficiency Inverter Blade Drive System

The inverter blade drive system comes with the LED digital display readout and stepless control, both conveniently accessible at the operator's control station.



Custom design is available on material handling and clamping and the choice of traversing sawhead vs. material feed-in shuttle bed.

Specifications

Horizontal Billet Saw Series

Model		SH-2020D	SH-1713	SH-1313	SH-1311P	SH-1010W	SH-1080D	SH-8580D	SH-8580S	C-800NC
Capacity	Round	2000mm (78.7")	1300mm (51.2")	1300mm (51")	1100mm (43.3")	1000mm (40")	800mm (31.5")	800mm (31.5")	800mm (31.5")	830mm (32")
	Square	2000mm (78.7")	1300mm (51.2")	1300mm (51")	1100mm (43.3")	1000mm (40")	800mm (31.5")	800mm (31.5")	800mm (31.5")	830mm (32")
	Rectangular	2000x2000mm	1300x1700mm	1300x1300mm	1100x1300mm	1000x1000mm	800x1000mm	800x850mm	800x850mm	830x870mm
	(H x W)	(78.7"x78.7")	(51.2"x 67")	(51" x 51")	(43.3" x 51.2")	(40"x40")	(31.5" x 39.4")	(31.5" x 33.5")	(31.5" x 33.5")	(32" x 34.2")
Saw Blade	Size(LxWxT)	15920x80x1.6mm (option:100mm Width) (626.7"x3.1"x0.06")	13000x80x1.6mm (512"x3.1"x0.06")	12300x80x1.6mm (484"x3.1"x0.06")	11000x80x1.6mm (433"x3.1"x0.06")	9400x67x1.6mm (370"x2.6"x0.06")	8800x67x1.6mm (346.5"x2.6"x0.06")	8300x67x1.6mm (326.8"x2.6"x0.06")	8300x67x1.6mm (326.8"x2.6"x0.06")	8300x67x1.6mm (326.8"x2.6"x0.06")
	Speed	15-80 m/min (49-264ft/min)								
	Tension	Hydraulic Controlled								
	Guide	Tungsten Carbide Blade Guide (Hydraulic Clamping Force)								
	Cleaning	Electric Power Driven Wire Brush								
Motor Output	Blade	25HP (18.75KW)	20HP (15KW)	20HP (15KW)	15HP (11.2KW)	15HP (11.2KW)	15HP (11.2KW)	10HP (7.5KW)	10HP (7.5KW)	10HP (7.5KW)
	Hydraulic	5HP (3.75KW)	3HP (2.2KW)	3HP (2.2KW)	3HP (2.2KW)	3HP (2.2KW)	3HP (2.2KW)	3HP (2.2KW)	3HP (2.2KW)	3HP (2.2KW)
	Coolant	0.5HP (0.37KW)	0.5HP (0.37KW)	0.5HP (0.37KW)	0.5HP (0.37KW)	0.5HP (0.37KW)	0.5HP (0.37KW)	0.5HP (0.37KW)	0.5HP (0.37KW)	0.5HP (0.37KW)
Tank	Hydraulic Oil	160 Liter	160 Liter	160 Liter	160 Liter	100 liter	100 Liter	100 Liter	100 Liter	100 Liter
Capacity	Coolant	200 Liter	200 Liter	200 Liter	200 Liter	150 liter	120 Liter	120 Liter	120 Liter	120 Liter
Vise Control Method		Hydraulic								
Split Vise		Yes	Yes	Yes	Yes	No	Yes	Yes	No	No
Double Sides Material Feeding		No	No	No	No	No	Yes	Yes	No	No
Weight		30000Kgs (66000lbs)	22000Kgs(48500lbs)	15000Kgs (33000lbs)	13700Kgs (30140lbs)	12000Kgs (26400lbs)	10000Kgs (22000lbs)	6500Kgs (14300lbs)	6000Kgs (13200lbs)	6000Kgs (13200lbs)
A (Bed Height)		830mm (32.6")	620mm (24.4")	620mm (24.4")	620mm (24.4")	620mm (24.4")	640mm (25.2")	640mm (25.2")	640mm (25.2")	640mm (25.2")
B (Length)		6600mm (260")	3000mm (118")	3000mm (118")	2200mm (86.6")	2300mm (90.6")	2100mm (82.6")	2330mm (92")	2330mm (92")	2330mm (92")
C (Width)		6340mm (250")	5892mm (232")	5542mm (218")	4900mm (193")	5200mm (204.7")	4110mm (161.7")	3890mm (153")	3890mm (153")	3890mm (153")
D (Height)		5800mm (228")	4228mm (166.5")	3900mm (153.5")	3500mm (137.8")	2700mm (106.3")	2800mm (110.2")	2940mm (116")	2940mm (116")	2940mm (116")

*Design and specifications are subjected to change without notice.

*Machine may be shown with some options.

Standard Features:

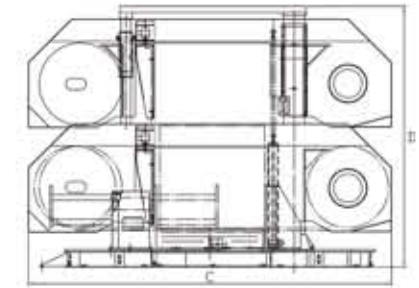
- Saw frame twin-cylinder circuit design
- Inverter controlled infinitely blade speed
- Hydraulic controlled blade guide
- 60-digit precision feed rate valve
- Hydraulically controlled blade tension
- Laser beam light
- Independent wire brush system
- Hydraulically driven guide arm
- Last cut function
- Work height selector

Additional Features on SH-1713, SH-1313, SH-1311P:

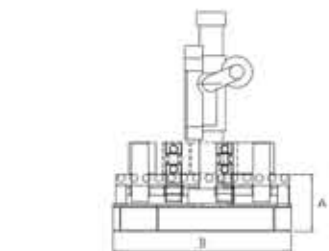
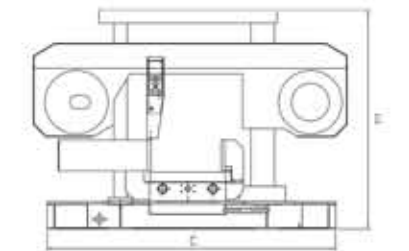
- Hydraulic driven workbed with rollers (also available on SH-1010W)
- Three sets of vise design (split vise)
- Planetary gear reducer

Optional Accessories:

- Vise clamping pressure regulator
- Blade deviation detector
- Hydraulic chip conveyor
- Powered roller table
- Roller table



For SH-2020, SH-1713, SH-1313, SH-1311P, SH-1010W

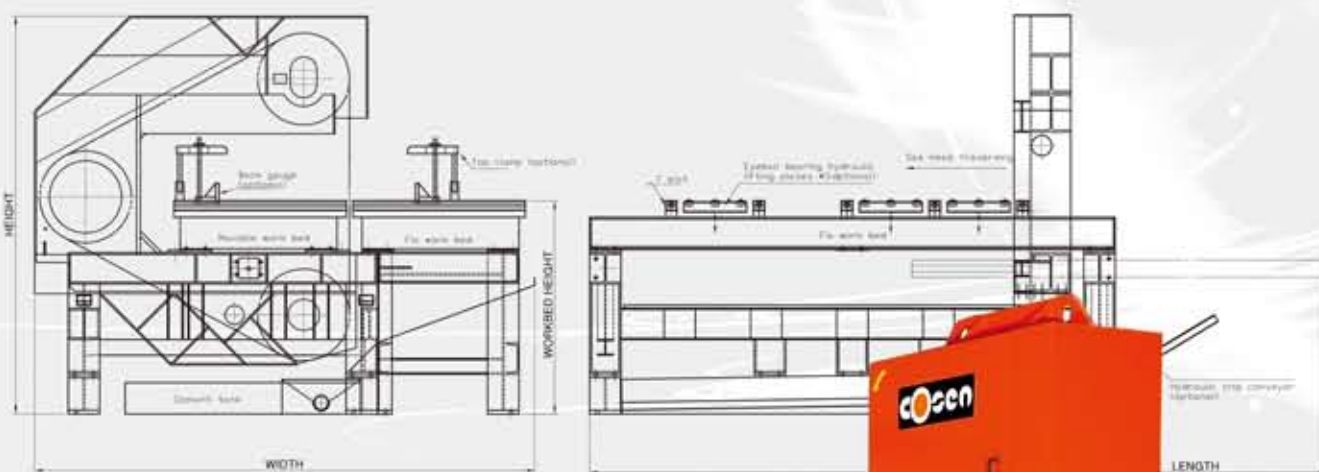


For SH-1080D, SH-8580D

SV-6066H SV-40130H SV-3055H

- Hydraulic Cylinder Driven Saw Frame

Cosen offers a complete range of plate saws for cutting different sizes from blocks, plates, squares or flats to suit individual customer's needs. Cosen's SV-H Series utilizes the hydraulic cylinder to drive the traversing head. Cutting capacity ranges up to 600 mm (23.6") in height and 2500 mm (98.4") in length. The extremely heavy - duty saw frame runs steadily and virtually vibration-free. For special sawing applications from striping large sections from a plate or making a unique cut, our SV-H Plate Saw Series is the solution you have been looking for.



Vertical Plate Saw: SV-H Series



SV-4060 SV-5060 SV-7060 SV-70100 SV-86110

- Servo Motor Driven Saw Frame

Cosen offers a full line of vertical plate saws featuring in servo motor driven traversing head. Cutting capacity ranges up to 1300 mm (51") in height and 7000 mm (276") in length. Standard features include a heavy-duty worktable that can handle all sizes of plates/blocks regardless of weight; extra wide saw frame gives a solid, vibration-free support to the blade; three precision ground steel wheels carrying the saw frame ride on two hardened, heavy-duty double rails; power-efficient planetary reducer driven by precision servo motor ensures powerful and steady feed rate; NC controlled feed and cutting rates with inverter driven variable speed allow cutting material of any type. For striping long sections of plates or blocks, Cosen's SV Plate Saw Series offers superior performance and maximum return on investment.



SV-80130 SV-130160



Laser Projection Device

Located on top of the saw frame, the laser beam light projects the route of cutting line for easy measurement.

Planetary Gear Reducer

Cosen's planetary gear reducer offers higher power transmission efficiency and output torque, allowing for very smooth cutting operation.



Saw Blade Changer

This device largely reduces the efforts and time required for changing the blade. With Cosen's saw blade changer, the saw blade can quickly travel across the retractable arms on main chassis. (Optional)



Vertical Plate Saw: SV Series



Servo Motor

The servo motor controls the cutting pressure via the power-effective planetary gear reducer and enables precise cutting rates.



Control Station

Integrated control panel enables easy and the most convenient operation. effective planetary gear reducer and enables precise cutting rates.