

# Specification

| Model                  |   | SH-4030   | SH-5542  | SH-7050  | SH-7550S                                     |
|------------------------|---|---|--|--|--|
| Max. Capacity          |          | 300mm (12")   | 420mm (16.5")                                    | 500mm (20")                                    | 500 mm (20")                                 |
|                        |          | 300 mm (12")  | 420mm (16.5")                                    | 500mm (20")                                    | 500 mm (20")                                 |
|                        |  (H x W) | 300x400mm (12"x15.7")                                 | 420x550mm(16.5"x21.6")                           | 500x700mm (20"x27.6")                          | 500x750mm (20"x29.5")                        |
| Blade                  | Capacity  | 3820L x 34W x 1.1Tmm<br>(150.4" x 1.3" x 0.042")      | 5300L x 41W x 1.3Tmm<br>(208.7" x 1.6" x 0.050") | 5450L x 41W x 1.3Tmm<br>(215" x 1.6" x 0.050") | 6040L x 54W x 1.6Tmm<br>(238" x 2" x 0.063") |
|                        | Speed   | 21,38,55,68,81m/min(60Hz)<br>(70,127,180,224,267 fpm) | 20-100 m/min. (66-328 fpm)                       |  |  |
|                        | Tension   | Hydraulic (with blade breakage detector)              |  |  |  |
| Motor                  | Blade   | 3.75kW (5HP)  | 5.5kW (7.5HP)                                    | 5.5kW (7.5HP)                                  | 5.5kW (7.5HP)                                |
|                        | Hydraulic   | 0.75kW (1HP)  | 1.5kW (2HP)                                      | 0.75kW (1HP)                                   | 1.5kW (2HP)                                  |
|                        | Coolant   | 0.1kW (1/8HP)   | 0.1kW (1/8HP)                                    | 0.1kW (1/8HP)                                  | 0.18kW (1/4HP)                               |
| Tank                   | Hydraulic   | 25L (6.2gal.)   | 35L (8.75gal.)                                   | 35L (8.75gal.)                                 | 40L (10gal.)                                 |
|                        | Coolant   | 60L (15gal.)  | 95L (23.75gal.)                                  | 85L (21.25gal.)                                | 85L (21.25gal.)                              |
| Work Bed Height        |   | 740mm (29.1")   | 700mm(27.5")                                     | 700mm (27.5")                                  | 700mm (27.5")                                |
| Net Weight             |   | 1000kgs (2200lbs)                                     | 1800kgs (3960lbs)                                | 1950kgs (4290lbs)                              | 2280kgs (5016lbs)                            |
| Gross Weight           |   | 1200kgs (2640lbs)                                     | 2300kgs (5060lbs)                                | 2450kgs (5390lbs)                              | 2600kgs (5720lbs)                            |
| Floor Space (LxWxH)    |   | 800 x 1905 x 1700mm<br>(31.5" x 75" x 67")            | 1100 x 2550 x 1900mm<br>(43.3" x 100.4" x 74.8") | 900 x 3200 x 2150mm<br>(35.5" x 126" x 84.6")  | 1410 x 3150 x 2010mm<br>(55.5" x 124" x 79") |
| Shipping Space (LxWxH) |   | 900 x 2185 x 1728 mm<br>(35.4" x 86" x 68")           | 1610 x 2620 x 2190mm<br>(63.5" x 103" x 86")     | 1120 x 3175 x 2270mm<br>(44" x 125" x 89.4")   | 1450 x 3225 x 2210mm<br>(57" x 127" x 87")   |

| Model                  |           | SH-8550S                                      | SH-7656  | SH-7662  | SH-1080F   |
|------------------------|-----------|---|--|--|--|
| Max.                   | ●         | 500 mm (20")                                  | 560mm (22")                                      | 620 mm (24.4")                                 | 800mm (31.5")                                    |
| Capacity               | ■         | 500 mm (20")                                  | 560mm (22")                                      | 620mm (24.4")                                  | 800mm (31.5")                                    |
|                        | ■ (H x W) | 500x850mm (20"x33.5")                         | 560x760mm (22"x30")                              | 620x760mm (24.4"x30")                          | 800x1000mm(31.5"x39.4")                          |
| Blade                  | Capacity  | 6300L x 54W x 1.6Tmm<br>(248" x 2" x 0.063" ) | 6665L x 54W x 1.6Tmm<br>(262.4" x 2.1" x 0.063") | 7200L x 54W x 1.6Tmm<br>(283" x 2.1" x 0.063") | 8850L x 54W x 1.6Tmm<br>(348.4" x 2.1" x 0.063") |
|                        | Speed     | 20-100 m/min. (66-328 fpm)                    |  |  |  |
|                        | Tension   | Hydraulic (with blade breakage detector)      |  |  |  |
| Motor                  | Blade     | 7.3 kW (10 HP)                                | 7.3 kW (10 HP)                                   | 7.3 kW (10 HP)                                 | 7.3 kW (10 HP)                                   |
|                        | Hydraulic | 1.5 kW (2 HP)                                 | 1.5 kW (2 HP)                                    | 1.5 kW (2 HP)                                  | 2.19 kW (3 HP)                                   |
|                        | Coolant   | 0.18 kW (1/4 HP)                              | 0.19 kW (1/4 HP)                                 | 0.19 kW (1/4 HP)                               | 0.365 kW (1/2 HP)                                |
| Tank                   | Hydraulic | 35L (8.75gal.)                                | 50L (12.5gal.)                                   | 50L (12.5gal.)                                 | 75L (18.75gal.)                                  |
|                        | Coolant   | 90L (22.5gal.)                                | 100L (25gal.)                                    | 100L (25gal.)                                  | 120L (30gal.)                                    |
| Work Bed Height        |           | 700mm (27.6")                                 | 700mm (27.6")                                    | 600mm (23.6")                                  | 650mm (25.6")                                    |
| Net Weight             |           | 2380kgs (5236lbs)                             | 3200kgs (7040lbs)                                | 3500kgs (7700lbs)                              | 5800kgs (12760lbs)                               |
| Gross Weight           |           | 2700kgs (5940lbs)                             | 3600kgs (7920lbs)                                | 3900kgs (8580lbs)                              | 6200kgs (13640lbs)                               |
| Floor Space (LxWxH)    |           | 1410 x 3150 x 2110mm<br>(55.5" x 124" x 83")  | 1400 x 3300 x 2450mm<br>(55" x 130" x 96.5")     | 1200 x 3560 x 2360mm<br>(47.2" x 140" x 93")   | 2900 x 4400 x 2750mm<br>(114" x 173" x 108.3")   |
| Shipping Space (LxWxH) |           | 1626 x 3378 x 2235mm<br>(64" x 133" x 88")    | 1520 x 3630 x 2240mm<br>(60" x 143" x 88")       | 1335 x 3710 x 2490mm<br>(52.2" x 146" x 98")   | 20' open top container                           |

- Design and specifications are subject to change without notice and obligation.
- Machine may be shown with some optional accessories.



## HIGH RIGIDITY SEMI-AUTOMATIC HORIZONTAL BILLET SAWS



**COSEN MACHINERY**  
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CAT. NO. SH-1203



CE ISO 9001 certified

Cosen, cuts more for less!



Precise Design  
Fast Cutting Speed  
Rigid Construction .....

COSEN supplies a full range of semi-automatic band saws that exceed the requirements of all bandsawing applications. With its rigid construction and superior features, COSEN's line of semi-automatic heavyduty bandsaws offers **precision** at the cutting edge, **efficiency** in operation and low cost per cut, and **durability** in a demanding production environment.



**SH-4030**  
● 300 mm  
■ 300 x 400 mm



**Split vise**  
Split vise is located on both sides of the saw blade. Even for cutting short piece or profile steel, the split vise can tightly clamp the material and effectively reduce burr on most material.



**SH-5542**  
● 420 mm ■ 420 x 550 mm



**Hydraulic lifting take-in roller**  
The take-in roller is actuated in hydraulic force to lift up the stock for easy adjustment of the stock position. The hydraulic lifting roller and a fine feed hand wheel making loading and positioning of material simple. (optional for SH-4030)



**Work bed**  
Work bed with two additional rollers together support the material and makes feeding easy.  
  
Combining the provided in-feed workbed with the optional gear-driven powered roller table allows material feeding even smoother and more convenient.



**Hydraulic blade tension**  
Automatic hydraulic tension device will provide tension to blade when machine is turned on and will release tension when turned off, extending blade life. The on-off switch is an added feature - making blade changing quicker and easier.



**Wire brush**  
The powered chip brush removes the chips from the blade, maximizing productivity and extending blade life.



## SH-7550S / SH-8550S

- 500 mm
- 500 x 750 mm
- 500 mm
- 500 x 850 mm



### Work height selector

Work height selector allows maximum efficiency in semi-automatic operation. When the blade cuts off material, the blade will return to the preset work height automatically, thus saving time and money for more productive sawing.



## SH-7050

- 500 mm
- 500 x 700 mm



Hydraulic lifting with manual ratcheting take-in roller



Hydraulic lifting take-in roller with power feeding table (optional)



## SH-7662

• 620 mm ■ 620 x 760 mm



### Work height selector

Work height selector allows operator to easily set clearance height of workpiece, making it more convenient and safer for material handling. Lower limit is easily set for notching jobs when necessary.



### Hydraulic guide arm

Hydraulic actuated guide arm is easy to adjust to proper position from the control panel.  
(available on SH-7656 / SH-1080F only)



### Hydraulic blade insert

Automatic hydraulically powered blade guides ensure secure clamping during cutting.

## SH-7656

• 560 mm  
■ 560 x 760 mm

Prism vise for hex-shaped bundles of tubes/pipes also come as optional accessory.  
(Refer to accessory list on page 9 for applicable models.)

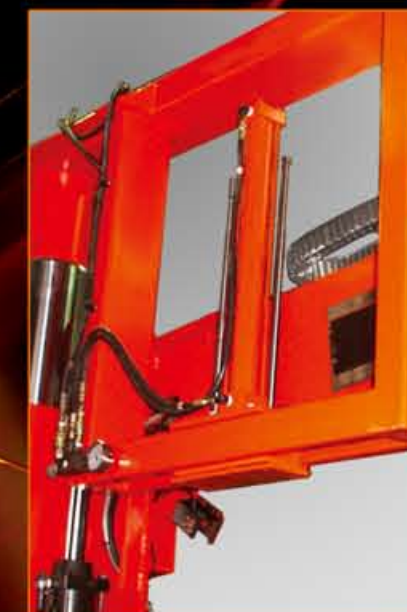




**Independent wire brush driving system**  
The independently driven wire brush system rotates in sync with the blade motor to achieve effective cleaning and brush life.  
(available on SH-1080F only)



**Full stroke top clamp (optional)**  
The special top clamp features full capacity clamping of bundled material regardless of bundle width or height.



## SH-1080F

- 800 mm
- 800 x 1000 mm

With 800 mm round and 1000 mm width capacity, this model is perfect for heavy-duty tube/pipe cutting applications.



**Hydraulic lifting take-in roller with powered feeding table (optional)**



OPTION ■ STANDARD ●

| ITEM  | SH-4030 | SH-5542 | SH-7050 | SH-7550S<br>SH-8550S | SH-7656 | SH-7662 | SH-1080F |
|---|---------|---------|---------|----------------------|---------|---------|----------|
| Twin columns and cross-link design                        | ---     | ●       | ●       | ●                    | ●       | ●       | ●        |
| Infinite blade speed control                              | ■       | ●       | ●       | ●                    | ●       | ●       | ●        |
| Digital blade speed indicator                             | ■       | ●       | ●       | ●                    | ●       | ●       | ●        |
| Split vise  | ●       | ●       | ---     | ●                    | ●       | ●       | ●        |
| Blade breakage detector                                   | ●       | ●       | ●       | ●                    | ●       | ●       | ●        |
| Precision pressure and feed rate dual valve               | ●       | ●       | ●       | ●                    | ●       | ●       | ●        |
| Hydraulic blade tension device                            | ●       | ●       | ●       | ●                    | ●       | ●       | ●        |
| Self lubricating carbide and roller guide                 | ●       | ●       | ●       | ●                    | ●       | ●       | ●        |
| Separate control station                                  | ---     | ●       | ●       | ●                    | ●       | ●       | ●        |
| Hydraulic lifting take-in roller                          | ■       | ●       | ●       | ●                    | ●       | ●       | ●        |
| Hydraulic lifting take-in roller with power feeding table | ---     | ---     | ■       | ■                    | ■       | ■       | ■        |
| Full stroke hydraulic vise                                | ■       | ●       | ●       | ●                    | ●       | ●       | ●        |
| Work height selector                                      | ●       | ●       | ●       | ●                    | ●       | ●       | ●        |
| Hydraulic blade clamping inserts                          | ---     | ---     | ---     | ●                    | ●       | ●       | ●        |
| Planetary reducer   | ---     | ---     | ---     | ---                  | ■       | ■       | ■        |
| Top clamp   | ■       | ■       | ■       | ■                    | ■       | ■       | ■        |
| Full stroke top clamp                                     | ---     | ---     | ---     | ■                    | ■       | ■       | ■        |
| Powered roller table                                      | ■       | ■       | ■       | ■                    | ■       | ■       | ■        |
| Roller table (2M) with side roller                        | ■       | ■       | ■       | ■                    | ■       | ■       | ■        |
| Vise pressure regulator                                   | ■       | ■       | ■       | ■                    | ■       | ■       | ■        |
| Hydraulic chip conveyor                                   | ■       | ■       | ■       | ■                    | ■       | ■       | ■        |
| Blade deviation detector                                  | ■       | ■       | ■       | ■                    | ■       | ■       | ■        |
| Vibration damper  | ■       | ■       | ■       | ■                    | ■       | ■       | ■        |
| Harmonics dampener  | ---     | ---     | ■       | ■                    | ■       | ■       | ■        |
| Automatic wedging resistance                              | ---     | ---     | ■       | ■                    | ■       | ■       | ■        |
| Prism vise for clamping hex-shaped bundle                 | ---     | ---     | ■       | ■                    | ■       | ■       | ■        |

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#### Vise pressure regulator

Essential for cutting tubes or softer material, Cosen's infinitely variable vise pressure regulator helps you easily adjust and monitor clamping pressure from 0 to full capacity.



#### Powered roller table

The motor-powered super heavy-duty roller table can help you send workpiece to the cutting area easily with a simple operation.



#### Vibration damper

Cosen's vibration damper can effectively reduce blade vibration produced under high-speed cutting, in turn increasing cutting rate and enabling smooth cut-off surfaces.



#### Hydraulic chip conveyor

Cosen's hydraulically powered shaftless chip conveyor allows for maximum chip removal and does not burn out like traditional electric motors when material falls and binds in the way.

#### • Harmonics dampener

While cutting wide structural materials i.e. H-beam, the distance between the two guide seats is usually far apart resulting harmonics at the blade. Applying this device **between the guide seats** can effectively eliminate harmonics by clamping the blade back.

#### • Prism vise for clamping hex-shaped bundle

The prism vise is constructed to cut hexagonal shaped bundles. With the prism vise, there is more contact between the vises and the pipes and less gap between adjacent pipes, thus facilitating secure clamping and precise cutting.

#### • Automatic wedging resistance

When cutting some heavy wide-flange beams, the material may stress relieve and pinch the blade. To prevent the blade from becoming wedged in the cut, the Automatic Wedging Resistance option detects the increase in required amperage and commands the saw bow to automatically rise and return into the cut repeated throughout the remainder of the cut.



#### Blade deviation detector

With this option, the machine will stop automatically once the blade deviates beyond preset range, preventing unnecessary loss in material or tooling costs.



#### 2M Roller Table

Used when cutting long work pieces, the sturdily-built roller table keeps material level with the machine.  
(Other length available. Please consult Cosen.)