

### Specifications

Model	AH-250H	AH-300H	AH-320H	AH-400H	AH-460H	
Capacity	●	250mm (10")	300mm (12")	320mm (12.6")	400mm (16")	460mm (18")
	■	250x250mm(10"x10")	300x300mm(12"x12")	320x320mm(12.6"x12.6")	400x400mm(16"x16")	460x460mm(18"x18")
	■ (W x H)	280x250mm(11"x10")	340x300mm(13.4"x12")	380x320mm(15"x12.6")	400x400mm(16"x16")	460x460mm(18"x18")
Saw Blade	Speed	15-100m/min. (49.5~330fpm)				
	Size	3505x34x1.1mm (138"x1.33"x0.042")	3820x34x1.1mm (150.4"x1.33"x0.042")	4240x34x1.1mm (167"x1.33"x0.042")	4570x41x1.3mm (178"x1.6"x0.050")	4670x41x1.3mm (184"x1.6"x0.050")
	Tension	Hydraulic				
Motor Output	Saw blade	3HP (2.2KW)	5HP (3.75KW)	5HP (3.75KW)	7.5HP (5.5KW)	7.5HP (5.5KW)
	Hydraulic	1HP (0.75KW)	1HP (0.75KW)	1HP (0.75KW)	2HP (1.5KW)	2HP (1.5KW)
	Coolant pump	1/8HP (0.1KW)	1/8HP (0.1KW)	1/8HP (0.1KW)	1/4HP (0.19KW)	1/4HP (0.19KW)
Tank Capacity	Hydraulic	40l (10.6gal)	40l (10.6gal)	38l (10gal)	74l (19.4gal)	88l (23gal)
	Coolant	64l (16.8gal)	64l (16.8gal)	58l (15.3gal)	84l (22gal)	84l (22gal)
Vise Control		Stationary & Movable Hydraulic Vise			Full stroke hydraulic front / rear vises	
	MODE	Hydraulic Automatic				
Feeding		One stroke 403mm, Max. 3627mm(142") (0-9times)	One stroke 403mm, Max. 3627mm(142") (0-9times)	One stroke 403mm, Max. 3627mm(142") (0-9times)	One stroke 603mm, Max. 5427mm(213") (0-9times)	One stroke 603mm, Max. 5427mm(213") (0-9times)
	LENGTH					
HEIGHT OF WORKBED		660mm (26")	660mm (26")	790mm (31")	750mm (29.5")	770mm (30.3")
GROSS WEIGHT		1300kgs (2860lbs)	1500kgs (3300lbs)	1700kgs (3740lbs)	2400kgs (5280lbs)	2500kgs (5500lbs)
FLOOR SPACE		2090x1850x1700mm (82.3"x72.8"x66.9")	2180x1950x1700mm (85.8"x76.7"x66.9")	2180x2200x1990mm (86"x87"x78")	2650x2700x2400mm (104.3"x106.3"x94.5")	2650x2700x2510mm (104.3"x106.3"x98.8")

STANDARD ●      OPTIONAL ■

ITEM	AH-250H	AH-300H	AH-320H	AH-400H	AH-460H
Gantry type	-	-	●	-	-
Infinite blade speed control with inverter	●	●	●	●	●
Mechanical stepless blade speed control device	■	■	■	-	-
Split front vise	●	●	●	●	●
Idle wheel motion detector	●	●	●	●	●
Precision pressure and feed rate dual valve	●	●	●	●	●
Hydraulic blade tension device	●	●	●	●	●
Self lubricating carbide and roller guide	●	●	●	●	●
Independent control station	-	-	●	●	●
Built in work light	●	●	●	●	●
Full stroke hydraulic front / rear vises	■	■	■	●	●
Vibration damper	■	■	■	■	■
Double retracting vise	■	●	●	●	●
Hydraulic nesting fixture	■	■	■	■	■
Power roller table	■	■	■	■	■
Roller table (2M) with side roller	■	■	■	■	■
Vise pressure regulator	■	■	■	■	■
Hydraulic chip conveyor	■	■	■	■	■
Deviation detector	■	■	■	■	■

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



for Hard Material





# Brief description

## on COSEN

COSEN, established in 1976, is a leading professional manufacturer of horizontal band saws, including manual, semi-automatic, automatic and NC series, with capacity ranging from Ø200 through Ø2,000mm.

Despite keen and incessant competition from local and overseas market during the past two decades, COSEN remains growing strong due to its continuous research and improvement. Currently COSEN's products have been successfully marketed to more than 50 countries all over the world, including Japan, USA, UK, European countries and South East Asia countries etc., due to its products being quality competitive, cost effective, and durable.

COSEN's band saws have been CE certified and passed the EMC test (Electro-Magnetic Compatibility). Not only COSEN produces quality products but also provides prompt technical backup service any time for customers upon request.



AH-250H



AH-300H



AH-400H



AH-460H

## Precise Design Fast Cutting Speed

COSEN AH-250H, AH-300H, AH-320H, AH-400H and AH-460H are high production heavy duty machines with quickly repeated set-up features and in high accuracy performance, provide an ideal cut-off machine in a wide range of material. After loading the material to be cut and setting the required cut-off length and workpiece number, the machine will automatically handle all the subsequent operations. They are the most suitable for mass production.



AH-320H

### Gantry type

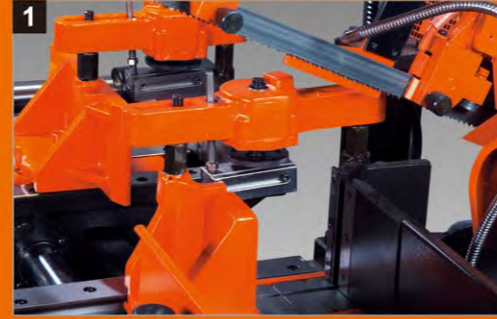
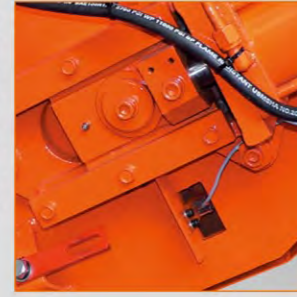
AH-320H features two oversized round columns for maximum amount of support to the saw frame. The cross link on top adds to great structural strength. The rigid dual columns with large diameter guide the saw frame for a more powerful, smooth and accurate cutting. Cutting force and feed rate are applied evenly from top to bottom of the cut.



The hydraulic chip conveyor features shaftless design which is more convenient and effective for chips removal. Also, the hydraulic motor does not burn out like traditional electric motors. (optional)



The idle wheel motion detector protects the saw blade to avoid damaging people and machine in case the blade overloads during cutting. Also, if the saw blade is broken or slips, the machine will stop running in seconds.



AH-250H | AH-300H

AH-320H

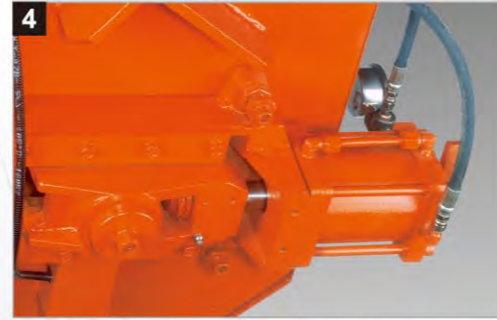


The rigid twin columns and cross link design guide the sawhead for a more powerful, smooth and accurate cutting and provide the cutting forces distributed from top to bottom of the machine frame during the cutting period. (available on AH-320H only)

1. Two sets of horizontal vises and two pairs of optional vertical nesting designed for bundle cutting. The adjustable horizontal and vertical clamping devices can tightly press and hold the stock for a better cutting performance.

2. Indexing Length Control provides for accurate and easy set up in increments of 0.05mm (0.001").

3. Dual valve design will achieve optimal cutting performance, based on the simple setting of feed rate and pre-selective cutting pressure for different materials.



4. Hydraulic blade tension controller ensures correct blade tension, extending blade life and improving cutting performance.

5. Automatic work height selector and quick approach rod will position the saw frame to safe clearance, so that the next piece can be positioned. After feeding, the blade will drop quickly to a small clearance off work piece. At which time, it proceeds at a preset cutting speed.



AH-320H



AH-250H



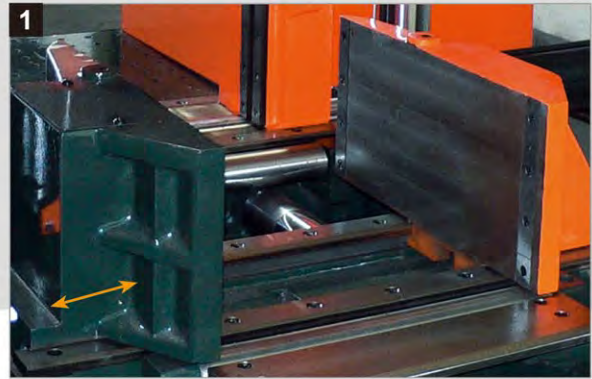
AH-300H



## NESTING FIXTURE

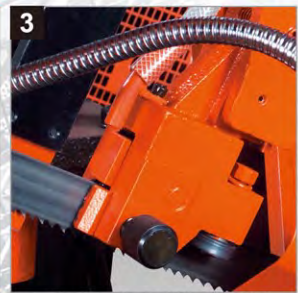
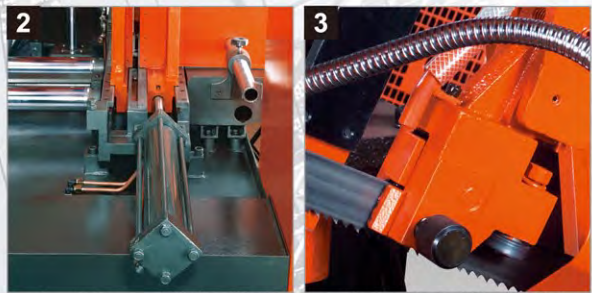


The split front vise will hold the work piece on both sides of the blade for a burr-free cut. Also it can do automatic feeding of material down to a length of 50mm.



## AH-400H | AH-460H

1. The double retracting vise jaws open and close simultaneously, compensating for crooked and/or misaligned material. In addition, this design reduces the remnant piece to a length of merely 50 mm (2"). (standard on AH-400H / AH-460H)
2. Front vise clamping and unclamping for any work size can be controlled on control panel without any need of manual operation to approach the vise to the material. (standard on AH-400H / AH-460H)
3. The bearing guides eliminate stress by pre-aligning the blade before it enters the carbide guide. There are two extra inserts located on a central axis, which supports the blade from the top, providing the blade with extra penetrating force. The carbide grooved guide allows coolant through, to lubricate and cool blade as well as work piece.



AH-400H



AH-460H