

# FA series

## NC Servo Circular Sawing Machine 20mm Shortest Crop Length

### Machine Features:

#### AC Line:

- Semi-automatic operation
- Straight and angle cutting
- Air lifting system for angle cut setting (optional)
- Roller Type Material Input Stand (optional)
- Roller Type Material Output Stand and adjustable length gauge and stopper (optional)

#### DR Line:

- Digital counter for automatic operation (Cutting length / Quantity set up / Counter)
- Fully automatic hydraulic system
- Feeding lengths up to 3 strokes X 1000mm
- Vertical sliding saw head ensures stable and precise cutting
- Backlash eliminating device prolongs the life of saw blade
- Counter Balance System for maximum stability through the entire cut
- Patented floating feeding carriage for superior cutting length accuracy and smooth material handling
- Rigid and reliable clamping vise provides secure material holding
- Automatic lubrication system maintains good work performance
- Circulating cooling system results in smooth cutting surfaces and longer blade life
- Electronic saw blade protection cover for safety operation
- Built-in chips tray for convenient cleaning and maintenance

#### NC Line:

#### Savings

- 20mm ( V type Clamping Jaw ) - The Shortest Crop Length of any machine available in the market (SOCO Global Patent)
- With the shortest crop lengths, the FA-110NC brings maximum material savings and more production

#### Performance

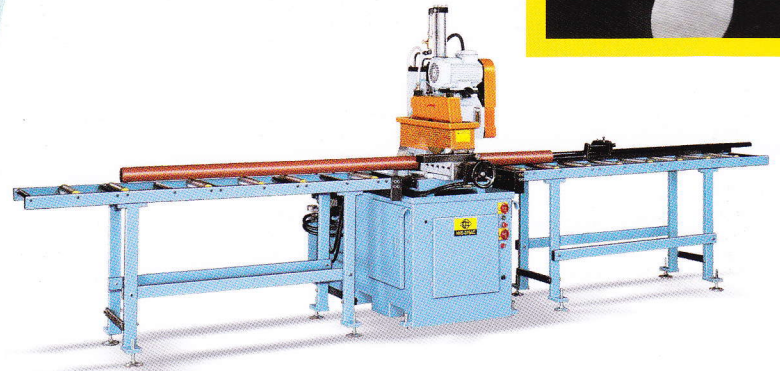
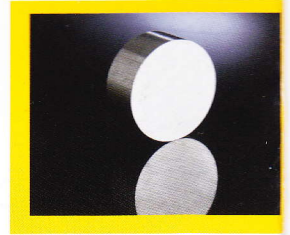
- Vertical Slide for maximum cutting power and rigidity
- Electric Servo Feeding for +/- 0.05 ~ 0.1mm cutting length precision
- Capacity up to 110mm in tube and 70mm in solid bars
- Superior Gear Box design for maximum machine life and performance
- Flexible Gripper Feeding allows maximum feeding precision even in material which is not perfectly straight
- Cutting Examples
  - O.D.50mm solid bar, L = 150mm, cycle time is 28sec
  - O.D.75.4mm steel tube, L = 139mm, cycle time is 11.5sec

#### Software

- Intuitive and user friendly interface with Touch Screen system
- Ability to program multiple cutting lengths per bar
- Large file storage system
- Safety Covers (optional) for maximum operator protection and comfort
- Ability to use Flat and Bundle clamps for multiple tubes cutting

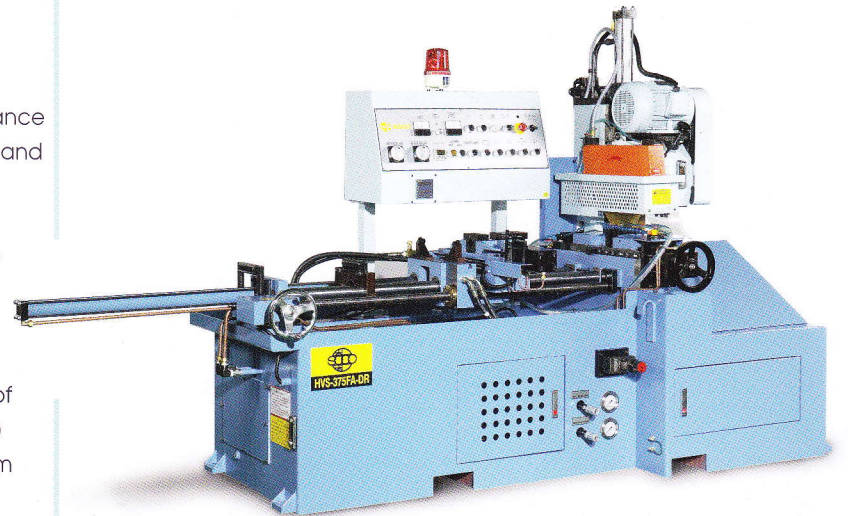
### ■ HVS-375AC / HVS-400AC

Air Lifting System for Angle Cut Setting



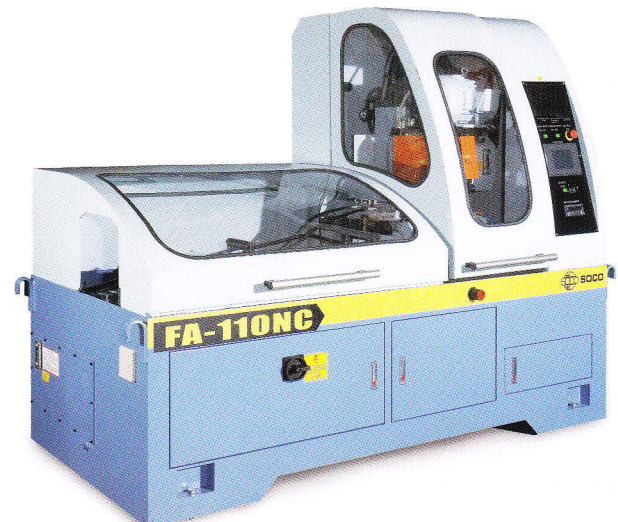
### ■ HVS-375FA-DR / HVS-400FA-DR

Digital Screen Displaying Feeding Length



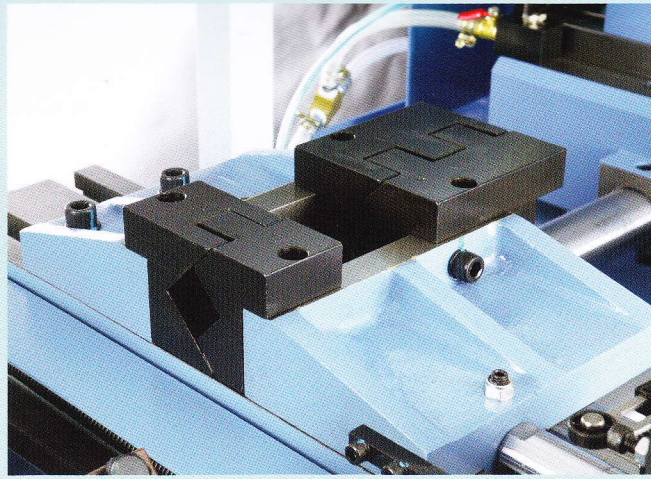
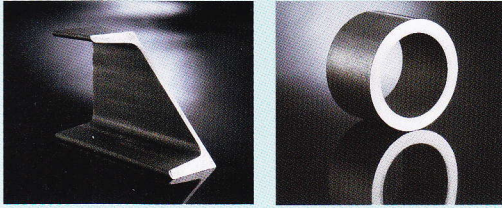
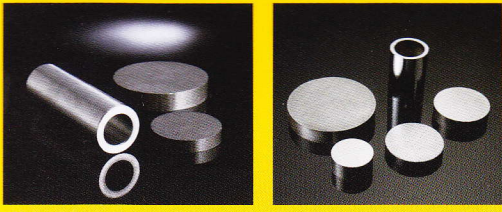
### ■ FA-110NC

NC Servo Controlled Feeding + Touch Screen  
Global Patent, Shortest Crop Length - 20mm





V-type clamping jaws for multiple tubes and bars



Cutting Capacity ( Mild Steel ) ( mm )

Model	HVS-375AC		HVS-400AC		HVS-375FA-DR			HVS-400FA-DR		FA-110NC	
	90°	45°	90°	45°	90°	90°	90°	90°	90°		
○ Round Tube	Ø110	Ø110	Ø125	Ø125	Ø110	Ø125	Ø110	Ø125	Ø110		
□ Square Tube	110 x 110	95 x 95	125 x 125	100 x 100	110 x 110	125 x 125	100 x 100	125 x 125	100 x 100		
▭ Rectangular Tube	160 x 100	110 x 100	160 x 100	110 x 100	160 x 100	160 x 100	160 x 100	160 x 100	160 x 100		
└ Angle Bar	100 x 100	95 x 95	120 x 120	100 x 100	-	-	-	-	-		
● Solid Round Bar	Ø75	Ø55	Ø100	Ø70	Ø75	Ø100	Ø70	Ø100	Ø70		
■ Solid Square Bar	65 x 65	50 x 50	100 x 100	75 x 75	65 x 65	100 x 100	75 x 75	100 x 100	65 x 65		
◆ Multiple Tubes / Bars	Optional V-type clamping jaws. Maximum 9 pieces cutting capacity ( Depend on the tubes size )										

Specifications

Model	HVS-375AC			HVS-400AC		HVS-375FA-DR			HVS-400FA-DR		FA-110NC	
	A	B	C	A	B	A	B	C	A	B	A	B
Type	A	B	C	A	B	A	B	C	A	B	A	B
Main Motor ( HP / Pole )	3/6	2/8	5/4	5/3 , 2/4	5/2 , 4/6	3/6	2/8	5/4	5/3 , 2/4	5/2 , 4/6	3/6	5/4
Arbor RPM ( 60Hz )	72/32	55/22	108/48	44/22	22/16	72/32	55/22	108/48	44/22	22/16	72/32	108/48
HSS Saw Blade Size ( mm )	Ø275 ~ Ø375			Ø275 ~ Ø400		Ø275 ~ Ø375			Ø275 ~ Ø400		Ø275 ~ Ø370	
	Arbor Hole Ø32. Pin Hole 2 x Ø11 x 63 PCD											
Feeding Length ( mm )	-					- DR Standard type: 6 ~ 700 x 1 ~ 3 times ( Max. length is 2100 ) - DR Extend type : 6 ~ 1000 x 1 ~ 3 times ( Max. length is 3000 ) - NC Standard type : 10 ~ 550 x unlimited times - NC Extend type : 10 ~ 900 x unlimited times						
Hydraulic System	Motor 3HP, 4P, Twin Pump, Working Pressure 25 ~ 50kg/cm <sup>2</sup>											
Cooling System	0.125HP, Water Pump, Automatic Coolant Circulation										0.25HP, Water Pump, Automatic Coolant Circulation	
Weight (Kg)	400			460		1100			1200		1700(CE)	
Dimension ( mm ) ( L x W x H )	70 x 150 x175					- DR Standard type : 2400 x 1100 x 1900 - DR Extend type : 3120 x 1100 x 1900 - NC type : 2315 x 1100 x 1900						

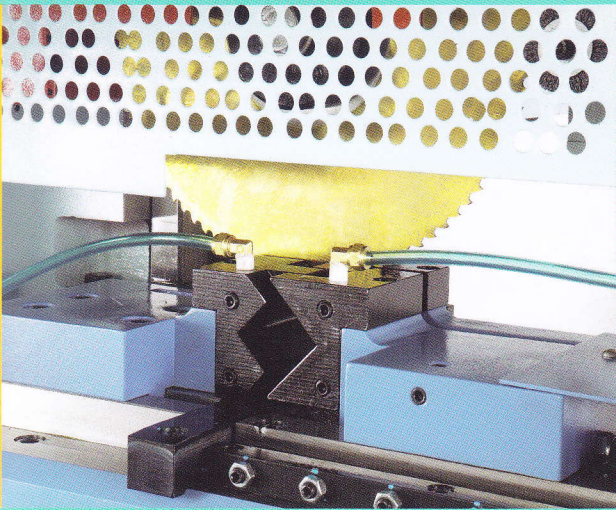
\* Due to continuous improvements and designs; the manufacturer reserves the right to modify or make any changes of all models without notice.





## FA SERIES

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20mm Shortest Crop Length



**Complete  
Solution for Tube  
and Bar**

