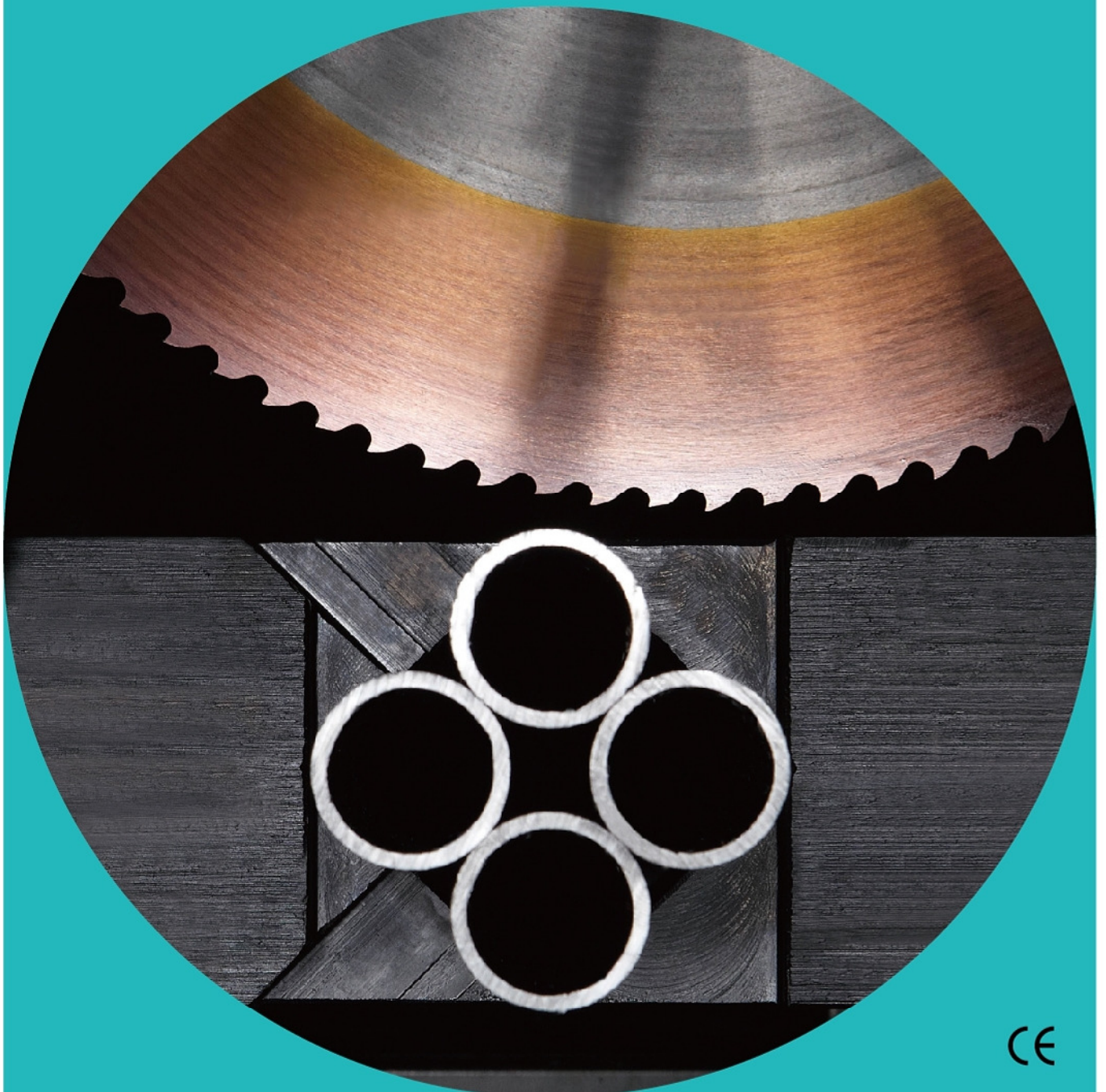




# FA SERIES

Complete Solution for Tube and Pipe

**NC Servo Hydraulic  
Circular Sawing Machine**



AC line / Air Lifting System for Angle Cut Setting

DR line / Digital Screen Displaying Feeding Length & Error Display on Control Panel

NC line / NC Servo Controlled Feeding + Touch Screen and 25mm +  $\alpha$  Crop Length

# FA series

## NC Servo Hydraulic Circular Sawing Machine

### Machine Features:

#### AC Line:

- Semi-automatic operation
- Straight and angle cutting
- Air lifting system for angle cut setting
- 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 )
- Display of Movements on Control Panel for Easy troubleshooting
- Standard with Speed Inverter for speeds of 22 ~ 162 RPM
- Fully automatic hydraulic system
- Feeding lengths up to 3 strokes X 1000 mm
- Patented Gearbox for both Heavy and Light Cutting of Tubes and Bars
- 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 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 and NC-SN Lines

#### Savings

- 25mm +  $\alpha$  – The Shortest Crop Length of any machine available in the market ( SOCO Global Patent - NC-SN Line )
- With the shortest crop lengths, the FA-111NC-SN / 127NC-SN models bring maximum material savings and more production

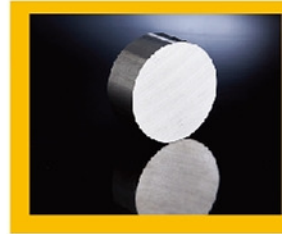
#### Performance

- Vertical Slide for maximum cutting power and rigidity
- Standard with Speed Inverter for speeds of 22 ~ 162 RPM
- Electric Servo Feeding for +/- 0.05 ~ 0.1mm Cutting Length precision (per stroke)
- Capacity up to 127mm in Tube and 90mm in Solid Bars
- Superior Gear Box design for maximum machine life and performance
- Flexible Gripper Feeding + Floating Carriage allow for 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. 75mm 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

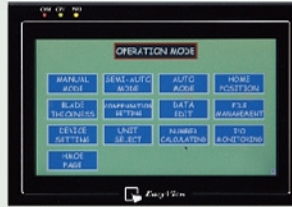
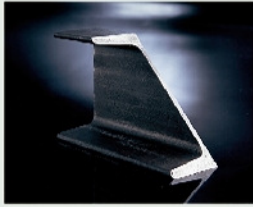


- FA-111DR / FA-127DR  
Digital Display of Feeding Length and Programmable Counter  
Control Panel with Movements' Display for Easy troubleshooting

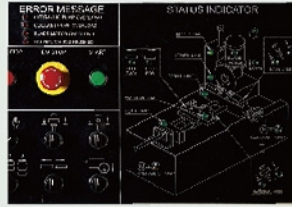


- FA-111NC / FA-111NC-SN / FA-127NC / FA-127NC-SN  
NC Servo Controlled Feeding + Touch Screen  
Global Patent, Shortest Crop Length – 25mm +  $\alpha$  ( SN Type )

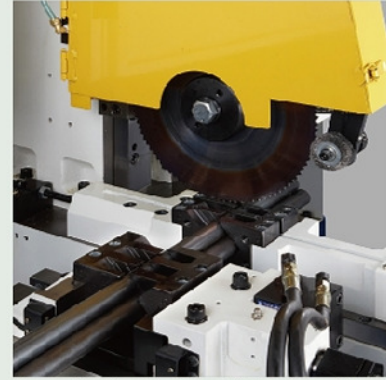




Touch Screen system with large file storage system(NC Line)



Digital Screen Displaying Feeding Length & Error Display on Control Panel (DR Line)



V-type clamping jaws for multiple tubes and bars

## Cutting Capacity ( Mild Steel ) ( mm )

Model	HVS-375AC		HVS-400AC		FA-111DR	FA-111NC	FA-127DR	FA-127NC
Cutting Angle	90°	45°	90°	45°	90°	90°	90°	90°
○ Round Tube	∅110	∅110 (*1)	∅125	∅125 (*1)	∅110	∅110	∅127	∅127
□ Square Tube	110 x 110	95 x 95 (*1)	125 x 125	100 x 100	110 x 110	110 x 110	115 x 115	115 x 115
● Solid Round Bar	∅75	∅55	∅100	∅70	∅75	∅75	∅90	∅90
■ Solid Square Bar	70 x 70	50 x 50	90 x 90	60 x 60	70 x 70	70 x 70	90 x 90	90 x 90
◊ Multiple Tubes / Bars	Optional V-type clamping jaws. Maximum 9 pieces cutting capacity ( Depend on the tubes size )							

## Specifications

Model	HVS-375AC		HVS-400AC		FA-111DR	FA-111NC	FA-127DR	FA-127NC
Type	A	B	A	B				
Main Motor	3HP x 6P	2HP x 8P	5HP/3HP, 2P/4P	5HP/2HP, 4P/6P	5/4		5/4	
Arbor RPM ( 60Hz )	72/32	55/22	44/22	22/16	22 ~ 162 ( Spindle Speed with Inverter )		22 ~ 88 ( Spindle Speed with Inverter )	
HSS Saw Blade Size ( mm )	∅250 ~ ∅370		∅250 ~ ∅400		∅250 ~ ∅370		∅250 ~ ∅400	
	HSS - Arbor Hole ∅32. Pin Hole 2 x ∅11 x 63 PCD							
Feeding Length ( mm ) (*2)	-		-		- DR Type ( Standard ) : 10~600 x 1~3 times ( Max. length is 1800 ) - DR Type ( Extended ) : 10~1000 x 1~3 times ( Max. length is 3000 ) - NC / NC-SN Type ( Standard ) : 10~550 x Unlimited Times - NC / NC-SN Type ( Extended ) : 10~950 x Unlimited Times			
Crop Length ( mm )	-		-		60 + α ( NC Line ) 25 + α ( NC-SN Line ) α = Cutting Length (*3)			
Total Power ( KW )	4.0KW ( Motor 3HP ) 3.2KW ( Motor 2HP )		5.4KW		6.4KW	9KW	6.4KW	9KW
Weight ( Kg )	1000		1000		1565 ( Standard ) 1650 ( Extended )	1600 ( Standard ) 1700 ( Extended )	1650 ( Standard ) 1750 ( Extended )	1700 ( Standard ) 1800 ( Extended )
Dimension ( mm ) ( L x W x H )	700 x 1500 x 1750 ( Standard )				- DR Type ( Standard ) : 2310 x 1100 x 1850 - NC Type ( Standard ) : 2200 x 1200 x 1900 - DR Type ( Extended ) : 3050 x 1100 x 1850 - NC type ( Extended ) : 2600 x 1200 x 1900			

Due to continuous improvements and designs : the manufacturer reserves the right to modify or make any change of all models without notice.

(\*1) Thickness under 5mm

(\*2) For Cutting Lengths over 500 mm, it is recommended to add an Output Table (RTO)

(\*3) NC-SN Line Cross Clamp is 40mm + α



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