

Specifications		SA-77NC-U SA-77NC-NF SA-77NC-NFA	SA-115NC-U SA-115NC-NF SA-115NC-NFA	SA-160NC-U		
Cutting Capacity (mm) (※1)	Round Tube (※2)	Ø10 ~ Ø80	Ø20 ~ Ø115	Ø50 ~ Ø160		
	Solid Round Bar	O.D. 10 ~ O.D. 80	O.D. 20 ~ O.D. 115	O.D. 50 ~ O.D. 152.4		
	Solid Square Bar	10 x 10 ~ 55 x 55	20 x 20 ~ 80 x 80	50 x 50 ~ 115 x 115		
Main Machine	Saw Blade	Blades	TCT or HSS ( U type ) HSS ( NF & NFA type )	TCT or HSS ( U type ) HSS ( NF & NFA type )	TCT	HSS
		Diameter ( mm )	Ø250 ~ Ø285 x 2.0t	Ø315 ~ Ø360 x 2.5t	Ø400 ~ Ø460 x 2.7	Ø400 ~ Ø450 x 3t
		Cooling	Oil mist spray system	Oil mist spray system	Oil mist spray system	
	Cutting Head	Spindle Speed ( RPM )	10 ~ 200 ( U type ) 1000 ~ 1500 ( NF type ) 2000 ~ 3000 ( NFA type )	60 ~ 130 ( U type ) 1000 ~ 1200 ( NF type ) 1500 ~ 3000 ( NFA type )	15 ~ 120	
		Cutting Axis	Electric Servo	Electric Servo	Electric Servo	
Chip Disposal	Automatic Chip Conveyor ( U & NF type ) Vacuum Chip Remover ( NFA type )	Automatic Chip Conveyor ( U & NF type ) Vacuum Chip Remover ( NFA type )	Automatic Chip Conveyor			
Material Feeding System	Feeding Axis	Electric Servo	Electric Servo	Electric Servo		
	Feeding Length ( mm )	10 ~ 500 ( Per Stroke ) 10 ~ 1000 ( Optional )	10 ~ 500 ( Per Stroke )	15 ~ 790 ( Per Stroke )		
	Cutting Length ( mm )	10 ~ 500 (※3)	10 ~ 400 (※4)	15 ~ 350 (※5)		
Software and Interface		SOCO i2 controls + Touch Screen	SOCO i2 controls + Touch Screen	SOCO i2 controls + Touch Screen		
Loading Magazine	Material Length	3000 ~ 6000 mm	3000 ~ 6000 mm	3000 ~ 6000 mm		
	Loading Capacity ( Kg )	1700 ( M6 ) 4000 ( MB6 )	2000 ( M6 ) 4000 ( MB6 )	4500 ( M6 )		
Dimensions ( L x W x H ) ( cm )	Cutting Machine	260 x 210 x 180	260 x 285 x 200	290 x 210 x 200		
	Cutting Machine + M6 Loader	753 x 205 x 180	777 x 205 x 200	807 x 226 x 200		
	Cutting Machine + MB6 Loader	774 x 236 x 180	777 x 250 x 200	-		
Weight ( Kg )	Cutting Machine	3420	3540	5000		
	Loading Magazine	840 ( M6 ) 3470 ( MB6 )	1850 ( M6 ) 4000 ( MB6 )	1500 ( M6 )		

(※1) Material hardness under HRC20

(※2) For (O.D. / tube thickness) > 15, an optional adjustable clamp is suggestable

(※3) Needs Material Output Roller system for cutting lengths over 200 mm, SOCO CL for cutting length over 500 mm

(※4) Needs Material Output Roller system for cutting lengths over 150 mm, SOCO CL for cutting length over 400 mm

(※5) Needs Material Output Roller system for cutting lengths over 100 mm,

(※6) MB6 is for Round Tubes and Round Bars

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



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# SA-77NC / SA-115NC / SA-160NC

Complete Solution for Tube and Pipe

High Speed Tube and Solid Bar Sawing Machines  
2 Electric Axis . Sawing Capacity up to 160 mm



SOCO Global Patents - Unique Bundle Loading Magazine ( MB6 )

70% Manpower Saving

Shortest Material Changeover Time



SA-77NC



# SA-77NC / SA-115NC / SA-160NC

- 2 Electric Axis . Sawing Capacity up to 160 mm
- SOCO Unique Loader (MB6), 70% Manpower Saving

U type ( Ferrous TCT + HSS )  
 NF / NFA type ( Copper & Brass / Aluminum )

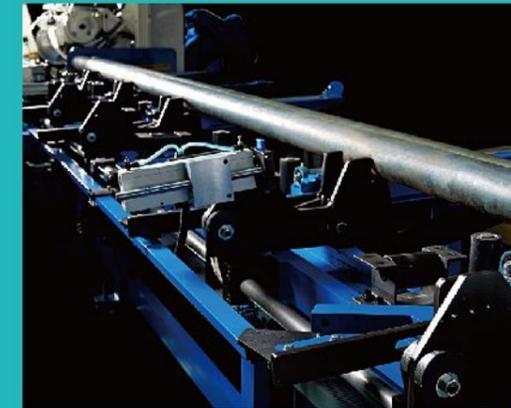
The new SOCO Tube and Bar Cutting Line incorporates the newest technology with unparalleled functions. This revolutionary innovation brings you the unique loader (MB6) and unloader (CL) – saving 70% labor and material changeover time (SOCO Global Patent). With capacity up to 152 mm in solid bar and 160 mm in tube cutting, it is guaranteed to bring you continuous savings and production.



SA-160NC  
( With optional Fume extraction )



SA-115NC  
(CE type)



Global Patent - Bundle Loading Magazine ( MB6 )  
Saving 70% Labor and Material Changeover Time

### Savings & Production

- Using a thinner and smaller TCT Saw Blade, there is lower initial investment in blade and long term savings in material.
- HSS Saw Blades may also be used, with standard built-in settings and blade cooling system, for even more savings on tube cutting.

### Performance

- Superior Speed:
  - SA-77NC
    - OD 42 mm Mild Steel Bar, Cutting time = 6.3 secs
    - OD 80 mm Mild Steel Bar, Cutting time = 11 secs
  - SA-115NC
    - OD 115mm Mild Steel Bar, Cutting time = 15 secs
- Dynamic Cutting:
  - Fast Approach Speed
  - Low Speed during blade entry
  - High Speed after cutting through the tube's wall
  - Lowest Speed at re-entry into tube's lower wall
- Long Blade Life:
  - Superior Designed Gearbox
  - Electromagnetic Brake System
  - " 0 " Backlash
- Accuracy and Precision
  - Electric Servo Cutting
  - Electric Servo Feeding
  - Floating Feeding Carriage

### Automation

- MB6 Bundle Loader – Saving 70% labor and material changeover time
- Automatic Material Alignment : Automatically align all material before loading onto the machine
- Shortest Material Changeover Time : While one stock bar is cutting, the next one is aligned and follows immediately behind to shorten changeover time
- Bundle capacity up to 3500 Kg (MB6)

### Software

- SOCO Recommendation System for ideal settings based on material and cutting requirements.
- Intuitive and user friendly interface with Touch Screen System.
- Ability to program 5 cutting lengths per bar.

