



Complete Solution for Tube and Bar

Specifications		SA-77NC-U	SA-77NC-NF	
Cutting Capacity (mm)	Round Tube	Ø10 ~ Ø80		
	Solid Round Bar	O.D. 10 ~ O.D. 80		
	Solid Square Bar	10 x 10 ~ 55 x 55		
Main Machine	Saw Blade	Blades	TCT or HSS Saw Blade	
		Diameter (mm)	Ø220 ~ Ø285 x 2t	
	Cooling	Water Soluble Cooling Lubricating Oil or Oil Mist System	Oil Mist System or Cooling Air (*)	
	Cutting Head	Spindle Motor (Kw/p)	7.5 / 4	5.5 / 4
		Spindle Speed (rpm)	10 ~ 200	1000 ~ 1500
		Cutting Axis	Electric Servo	
	Hydraulic System	Motor (Kw/p)	2.2 / 4	
Pressure (Kg/cm²)		60		
Chip Disposal		Automatic Chip Conveyor		
Material Feeding System	Feeding Axis	Electric Servo		
	Feeding Stroke (mm)	10 ~ 500 (**)		
	Cutting Length (mm)	10 ~ 200 (***)		
	First Crop (mm)	10 ~ 60		
	Last Crop (mm)	50 + α (****)		
Loading Magazine	Type	M6 Sliding Loading Magazine (Standard) (*****)		
	Loading Capacity (Kg)	4000		
Control	Interface	Touch Screen		
	Power	3 Phases, AC220V, 60Hz		
Dimension	L x W x H (mm)	7900 x 1900 x 1600		
Weight (Kg)	Cutting Machine	3395		
	Loading Magazine (MBL-6)	800		

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

(\*) Optional Cooling Air Gun

(\*\*) Optional Max. Feeding Length can up to 1000mm

(\*\*\*) For Cutting Lengths over 200 mm, a SOCO Material Unloader must be added

(\*\*\*\*) α = Cutting length

(\*\*\*\*\*) Optional MBLL-6 Bundle Loader



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## SA-77NC

High Speed Tube and Solid Bar Sawing Machines  
2 Electric Axis with Sawing Capacity up to 80mm

SOCO Global Patents - Unique Bundle Loading Magazine (MBLL-6)

70% Manpower Saving

Shortest Material Changeover Time



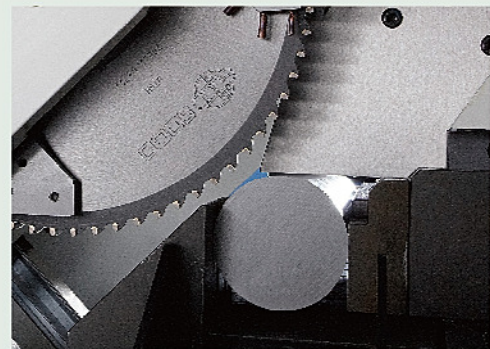
# SA-77NC

2 Electric Axis with Sawing Capacity up to 80mm  
SOCO Unique Loader (MBLL-6) , 70% Manpower Saving

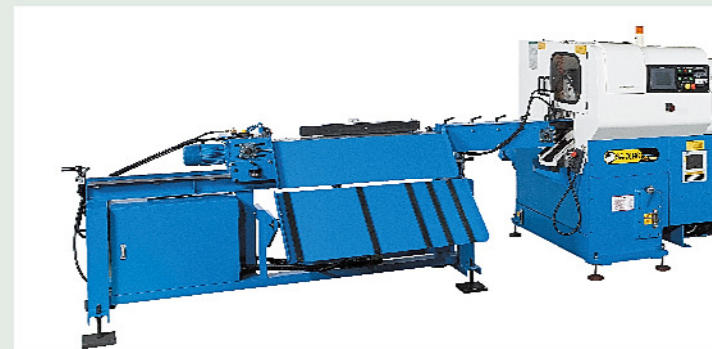
**U type ( Ferrous TCT + HSS )**

**NF type ( Non-Ferrous / Aluminum )**

The new SOCO Tube and Solid Bar Cutting Line incorporates the newest technology with unparalleled functions. This revolutionary innovation brings you the unique loader ( MBLL-6 ) – saving 70% labor and material changeover time (SOCO Global Patent). With capacity up to 80mm in solid bar and tube cutting, it is guaranteed to bring you continuous savings and production.



Electric Servo Feeding and Cutting



Optional SOCO Unloader ( Cutting Length over 200mm )

## 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:
  - OD10mm Mild Steel Bar, L = 10mm, Cycle time = 4 secs
  - OD42mm Mild Steel Bar, L = 230mm, Cycle time = 7~8 secs
  - OD80mm Mild Steel Bar, L = 12.2mm, Cycle time = 10 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
  - Cutting length precision : +/- 0.05 mm ~ +/- 0.1 mm

## Automation

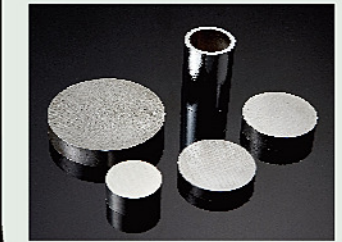
- MBLL-6 Bundle Loader – Saving 70% labor and material changeover time
- Automatic Material Alignment : Automatically align all material before loading onto the machine
- Shortest Material Changeover Time : While one stock bar is cutting, the next one is aligned and follows immediately behind to shorten change-over time
- Bundle capacity up to 4000kg

## 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.



Global Patent - Bundle Loading Magazine ( MBLL-6 )  
Saving 70% Labor and Material Changeover Time



Working Pieces



Fashion and Safety Cover