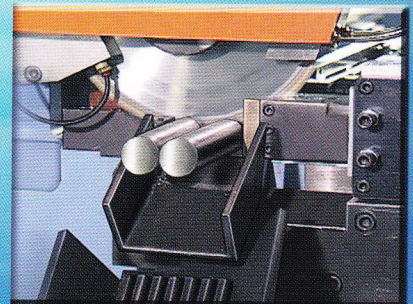
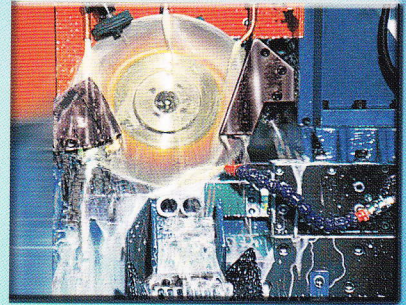




**Numerical Control,
Fully Automatic,
High Speed, and Precise
Circular Sawing Machine**

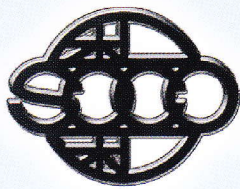
SA-80-CNC



030T10, 01E

Oct 11, 2022

SOCO
SA-80CNC



SOCO®

SA-80-CNC

Numerical Control, Fully Auto High Speed, and Precise Circular Sawing Machine

Main Features:

1. The Sawing Head moves vertically along the triple slides in a specially designed Triumph Arch Structure, to ensure the r
2. Equipped with Servo Motor and Precision Ball Screws to achieve fast and stable cutting, easy and flexible speed contro
3. The high power sawing head comes with high efficiency gears and special designed backlash eliminating structure to e
4. The design of two 180° blade-holding guides prevents the blade from vibrating. Together with high pressure cooling sys
5. The sawing head temperature control protects the blade from high temperature and thus prolongs the blade lives and en
6. The special forced alignment feeding system, along with floating function, protects the work piece from scratches and allows the most precise cutting length control. (The feeding setting is in 0.01 mm increment).
7. The Interactive Touch Screen allows easy storage, editing, and operation of cutting length control, cutting speed control provide convenient troubleshooting.
8. The Automatic Material Loading Magazine provides the most convenient operation. The whole production process is co

SA-80CNC-S Cutting Efficiency

Example 1

Saw Blade : Power 2000 Titanium Nitride Coating High
Work Piece : Seamless Tubes of JIS SCM415 Bearing S
OD \varnothing 38.1mm/m x 4m/m x 20mm in length

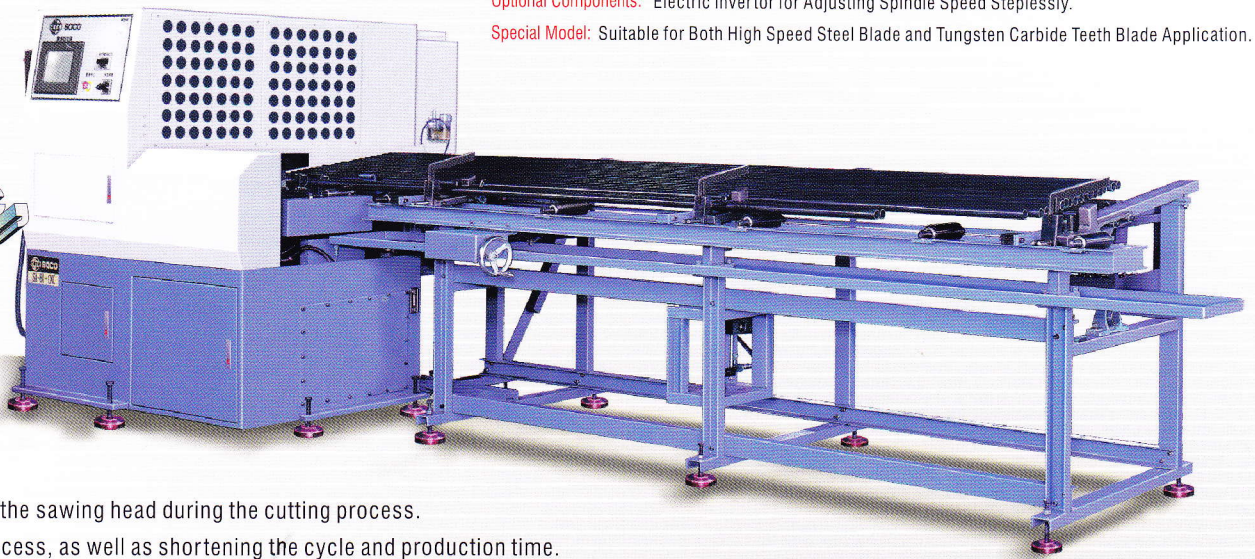
Tubes per Feed : 2

Cycle Time : 5 ± 1 sec (± 1 sec is based on the requ
Output/8 Hours : 11520 pcs.



Gear Head Cooler
(Optional: Coolant Cooler)

Automatic Machine



Standard Components: 1. Cutting Machine 2. Material Loading Magazine 3. Auto Chip Conveyor
4. Cooling System 5. Saw Blade (1 pcs)

Optional Components: Electric Invertor for Adjusting Spindle Speed Steplessly.

Special Model: Suitable for Both High Speed Steel Blade and Tungsten Carbide Teeth Blade Application.

rigidity and stability of the sawing head during the cutting process.
during the cutting process, as well as shortening the cycle and production time.
ensure fast, stable, and smooth cutting, as well as to prolong blade lives.
them, this design increases the cutting speed, precision, and prolongs the blade lives.
ensures high precision cutting.
interference during the feeding process. The automatic CNC Servo Feeding System also
cutting amount setting, and other data. The screen also displays the error and malfunction messages to
completely automated and thus achieving maximum efficiency.

Speed Steel Blade
precision of work piece)

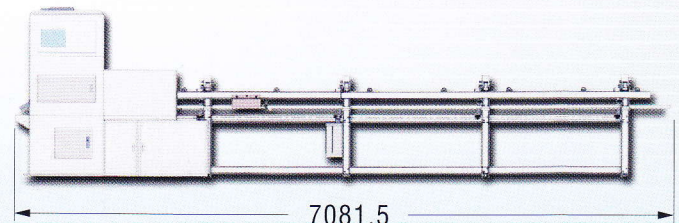
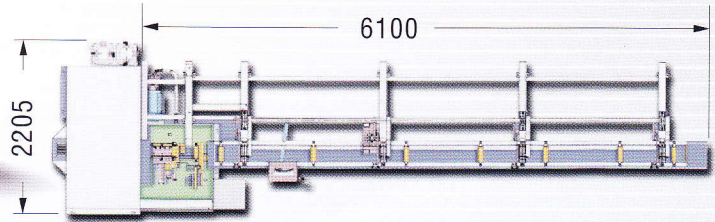
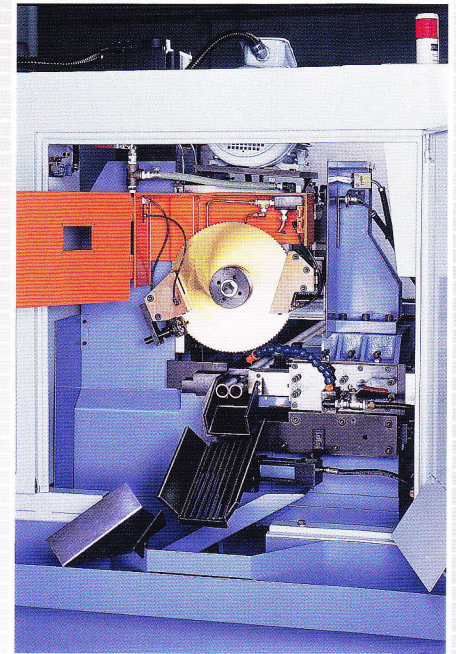
Example 2

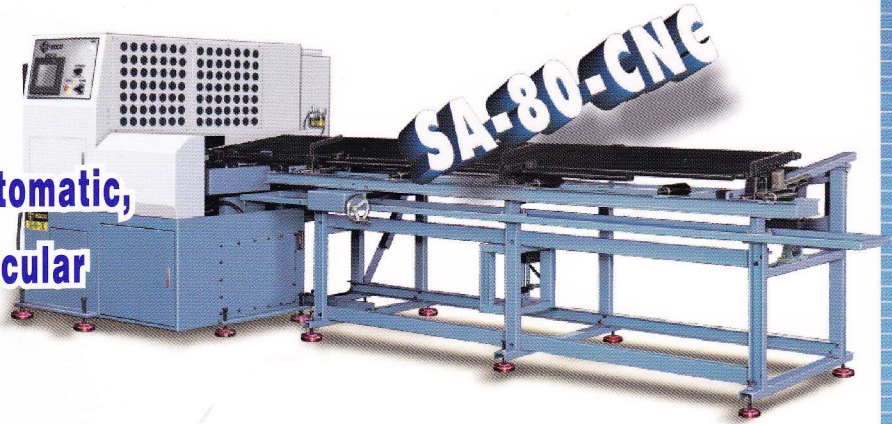
Saw Blade : Power 2000 Titanium Nitride Coating High Speed Steel Blade
Work Piece: Stainless Steel Solid Round Bar
OD 50m/m x 12.5mm in length
Bars per Feed: 1
Cycle Time : 35 ± 1 sec.
Output/8 Hours : 822 pcs
Blade Life Span: approx.4100 cuts, or 8 M2 of cutting amount.

3A- 30CNC-C Cutting Efficiency

Example 3.

Saw Blade : Tungsten Carbide Teeth Blade (throw away type)
Work Piece : Mild Carbon Steel Solid Round Bar JIS S56C
OD 50m/m x 30mm in length
Bars per Feed: 1
Cycle Time : 8 ± 1 sec.
Output/8 Hours : approx. 3600 pcs.





**Numerical Control, Fully Automatic,
High Speed, and Precise Circular
Sawing Machine**

Specification

Machine Specifications			SA-80-CNC-S	SA-80-CNC-C	
			Equipped with HSS Blade	Equipped with TCT Blade	
Cutting Capacity	◎ Round Tube	Single Tube	∅15 ~ ∅80mm	-----	
		Dual Tubes	∅15 ~ ∅40mm	-----	
	● Solid Bar	Single Bar	∅15 ~ ∅80mm	&15 ~ &80mm	
		Dual Bars	∅15 ~ ∅35mm	-----	
Material Length			3000 ~ 6500mm	3000~6500mm	
Size			∅275 ~ ∅360mm	∅280/∅315/∅360mm	
Main Machine	Blade	Cooling	Water Soluble Cooling Lubricating Oil, Auto Circulation, Pump 1/2HP	Vegetable Oil, Oil Mist Spray with Compressed Air	
		Cutting Head	Spindle Motor	7.5 hp · 4p	10hp · 4p
	Spindle Speed		Standard	H Speed 100RPM L Speed 80RPM	128RPM
			Option	Speed 16~140RPM Stepless Adjust with Inverter	90~200RPM Stepless Adjust with Inverter
	Gear Box		Air Cooler Control Temperature	Air Cooler Control Temperature	
	Guiding Structure		Triumph Arch Structure with Triple Slides	Triumph Arch Structure with Triple Slides	
	Feeding Way		Serve Motor + Ball Screw	Serve Motor + Ball Screw	
	Chip Disposal			Automatic Chip Conveyor	Automatic Chip Conveyor
	Hydraulic System	Motor	2HP · 4p	2HP · 4p	
		Pressure	50kg/cm ²	50kg/cm ²	
Material Feeding System	Serve		Serve Motor + Ball Screw	Serve Motor + Ball Screw	
	Clamping Device		Forced Alignment with Floating Function	Forced Alignment with Floating Function	
	Feeding Length		6~630mm	6~630mm	
	First Crop		12~60mm	12~60mm	
	Last Crop		110mm+α	110mm+α	
Loading Magazine	Standard Width		800mm	800mm	
	Standard Capacity		3000~6500mm	3000~6500mm	
	Material Length		1700kg	1700kg	
Control	Servo Control		Mitsubishi AX2n	Mitsubishi AX2n	
	Servo Control		Mitsubishi IPG · 10PG	Mitsubishi IPG · 10PG	
	Input Circuit		3∅AC 220v 60hz	3∅AC 220v 60hz	
	Control Circuit		DC 24v	DC 24v	
Length × Height × Width			7210×2235×1950mm	7210×2235×1950mm	
Weight			2500kg	2500kg	

- Notes :**
1. The voltage of input circuit can be changed to meet customer's requirement.
 2. A special model suitable for dual blades (high speed steel blade and tungsten carbide teeth blade) can be ordered as customer's request.