

Complete
Solution for
Tube and Pipe

SA-80CNC

TCT or HSS Blade Cutting Line
for Tubes and Bars



S type / HSS Blades for Tubes and Bars

C type / TCT Blades for Bars

C + S type / HSS & TCT Blades for Tubes and Bars

SA-80CNC

TCT or HSS Blade Cutting Line for Tubes and Bars

SA-80CNC – S (HSS saw blade)

SA-80CNC – C (TCT saw blade)

SA-80CNC – C+S (TCT + HSS saw blade)

Machine Features:

Automation

- 2 Electric Servo Axis – Feeding and Cutting
- M6 - Automatic loading magazine for tubing and solid bars up to 6,5 meters in length
- Automatic single or double tube loading, feeding and cutting
- Automatic separation of working pieces vs. crop cuts

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

Highest Production

- Suitable for non-stop, 24 hours operation
- Single or Dual Tube Cutting
- Speed Inverter System (optional)

Flexibility and ease of use

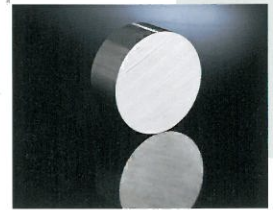
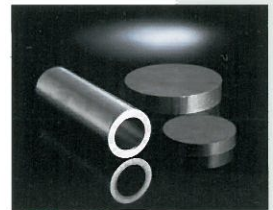
- Dual blade cutting system – HSS and / or TCT Blades
- Touch screen system for operation, file editing and storage
- Self-diagnostics and error display on-screen for troubleshooting

Precision

- +/- 0.1 mm length tolerance (single tube cutting)
- Electric servo Feeding
- Electric servo Cutting
- Floating feeding carriage

Superior Design = Longer Blade Life

- Patented backlash eliminating system
- Dual Linear Guide Vertical Slides for the Cutting Head, ensuring smooth cutting and longer blade life.
- 180 degrees blade holding guides to eliminate vibration and TCT saw blades
- High efficiency gearbox with patented brake system
- High pressure blade cooling system



Cutting Efficiency

■ SA-80CNC-S

Example 1

Saw Blade: HSS Saw Blade with TiCN coating

Work Piece: Seamless tubes of JIS SCM415 bearing steel
Ø 38.1mm (OD) x 4 mm (Wall) x 29 mm (Length)

Tubes Per Feed: 2 tubes

Cycle Time: 5 +/- 1 sec

Production: 11,520pcs / 8 hours

Example 2

Saw Blade: HSS Saw Blade with TiCN coating

Work Piece: Stainless steel solid round bar
Ø 50.0 mm (OD) x 12.5 mm (Length)

Bars Per Feed: 1 solid bar

Cycle Time: 35 +/- 1 sec

Production: 822pcs / 8 hours

Blade Life: Approximately 4100 cuts
(per resharpening)

■ SA-80CNC-C

Example 1

Saw Blade: TCT Saw blade

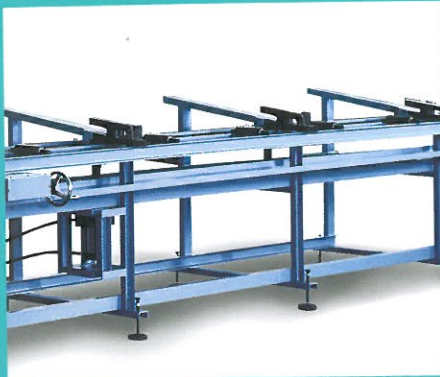
Work Piece: Mild carbon steel solid round bar JIS S56C
Ø 50.0 mm (OD) x 30 mm (Length)

Bars Per Feed: 1 solid bar

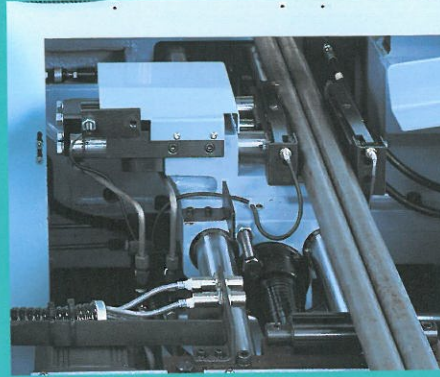
Cycle Time: 8 +/- 1 sec

Production: 3,600pcs / 8 hours

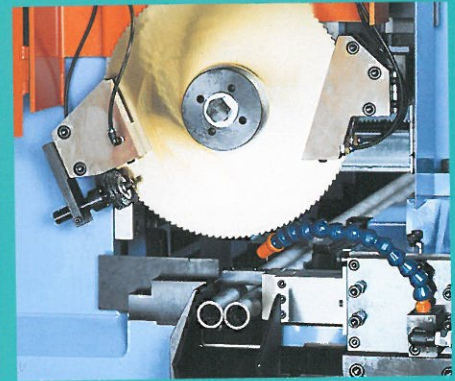




M6 - Automatic Loader



Floating Feeding Carriage



1 or 2 Tubes Cutting

Specifications / Model			SA-80CNC-S (HSS Blade)	SA-80CNC-C (TCT Blade)
Cutting Capacity	Round Tube (mm)	Single Tube	Ø15 ~ Ø80	Ø15 ~ Ø80
		Dual Tubes	Ø15 ~ Ø40	----
	Solid Bar (mm)	Single Bar	Ø15 ~ Ø80	Ø15 ~ Ø80
		Dual Bars	Ø15 ~ Ø35	----
Feeding Capacity	Feeding Length (mm)/Stroke		6 ~ 580	6 ~ 580
	First Crop (mm)		12 ~ 60	12 ~ 60
	Last Crop (mm)		75 + α	75 + α
Main Machine	Blade	Size (mm)	Ø250 ~ Ø360	Ø280 / Ø315 / Ø360
		Cooling	Water Soluble Cooling Lubricating Oil, Auto Circulation, Pump 1/2HP	Oil Mist Spray with Compressed Air
	Cutting Head	Spindle Motor	5HP , 4Poles	10HP , 4Poles
		Gear Box	Air Cooler Control Temperature	
	Feeding Way		Electric Servo Drive	
	Cutting Way		Electric Servo Drive	
	Chip Disposal		Automatic Chip Conveyor	
	Hydraulic System	Motor	2HP , 4Poles	
Pressure (Kg/cm ²)		50		
Feeding System	Servo Motor (Kw)		1.5	
Cutting System	Servo Motor (Kw)		2.2	
Loading Magazine	Standard Width (mm)		800	
	Standard Capacity (Kg)		1700	
	Material Length (mm)		3000 ~ 6500	
Dimension(mm) (L x W x H)			7210 X 2235 X 1950	
Weight (Kg)			2500	

(*) Optional Electrical Cooler is available



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