



POWER A

Smart CNC Solutions

CNC LATHE SERIES

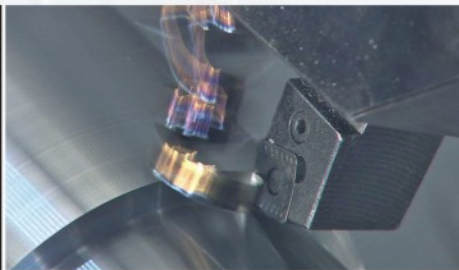


POWER A SERIES

A6 / A8 / A8L

- 60°** steep inclined bed, closer to operator
- 300%** double size chip tank larger than Flash SL series
- 280%** sized linear guide way slide block
- 45mm** width heavy duty linear guideway
- 40mm** ballscrew diameter

Power A8 rough cutting parameter



▪ **Depth of cut**

9mm(0.35in)

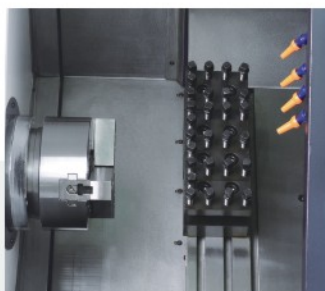
Material:	S45C (Carbon steel)
Cutting speed:	220m/min(721.8 ipm)
Feedrate:	0.4mm/rev(0.016ipr)

When we set out to build a heavy duty cutting (hogging) machine we did a number of things:

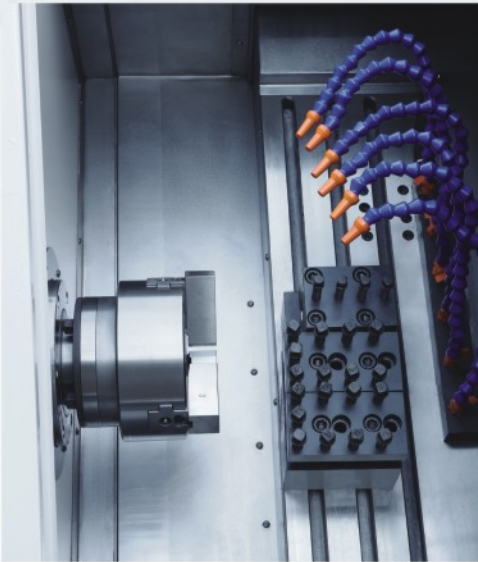
- Increased spindle rigidity
- Widened guideway spacing
- Increased bed casting weight
- Increased spindle torque

The result is a machine that will take heavy cuts and still assure minimal tool tip vibration. Finer surface finish is the result – even when making heavy cuts.

Greater Rigidity and Faster Speed

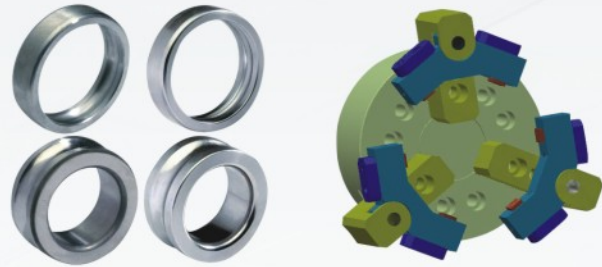


By using German-made BOSCH Rexroth heavy-duty linear guides, over-sized ball screws, thicker head stock ribs and wider bed ways we have created a highly rigid, high speed lathe. The POWER A Series is a true 60° slant bed lathe – significantly increasing machine accuracy and capacity. The steep slant bed and over-sized chip tanks allow efficient chip removal, even during “heavy cut” turning operations. An optional chip conveyor is available.



Bearing Ring Solution

Power A machines are widely used in bearing industry. And Z-MaT has mature solutions for inner ring and outer ring machining.



Floating jaws

60° (Degree) Slant Bed

Operator is close to tooling stations for easier set-ups and tool changes. Chip and coolant flow is more efficient with the steeper table incline.

Heavy Duty Spindle

Extra built-in ribbing on the headstock and higher torque spindle drive provides a spindle ready and willing to handle all-day heavy cutting.

Extended X Axis Travel

X Axis travel up to 380mm. Allows for a large number of gang, live tooling and turret mounted tools to be mounted on the table and sequentially moved to the point of tool tip turning contact.

Larger Ball Screw Diameter

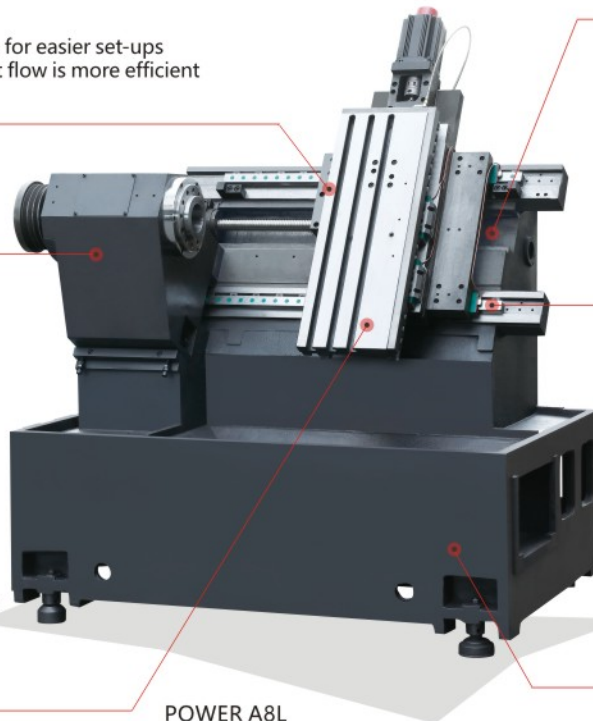
Big diameter ball screw supports heavy machining operations. Pre-loaded bearings are mounted on both ends of the ball screw assembly for optimal support.

Heavier Linear Guideways

Heavy duty ball linear guideways are necessary for heavy cutting. These heavy duty linear guides will hold up and maintain accuracy for the long-term.

High Volume Chip Collection

Standard feature includes extra-large chip collection tank. POWER A Series chip tanks are three times larger than chip tanks used on the FLASH Series. Chip conveyor optional.



POWER A8L

Standard Features

- Hydraulic Chuck
- Gang Type Tooling
- Frequency Inverter
- Work and Alarm Light
- Foot Pedal & Safety Features
- Automatic Lubrication System
- Automatic Coolant System

Optional Features

- Different Chucks & Collets
- Different Control Systems
- Larger Spindle
- Servo Spindle Motor
- Chip Conveyor
- Bar Feeder
- C Axis & Live Tooling

Machine Characteristics

- German-made BOSCH Rexroth Linear Guideways
- High speed with heavy torque – suitable for machining hard materials
- 60° slant bed makes for easy chip removal
- Optional floating jaws for securely holding hard, thin-walled pipe



Specifications

		Unit	POWER A6		POWER A8L		
Capacity	Collet*/Chuck size	inch	6", * 8"		8", * 10"		
	Max. swing dia. over bed	mm	Φ400		Φ550		
	Max cutting length	mm	320		300		
	Max. swing dia. over slide	mm	Φ150		Φ210		
Spindle	Spindle bore	mm	Φ48	*Φ55	Φ55	*Φ62	*Φ75
	Max dia. of through hole	mm	Φ40	*Φ45	Φ46	*Φ52	*Φ65
	Spindle nose		A2-5	*A2-5	A2-5	*A2-6	*A2-8
	Spindle speed	rpm	3000	*1600	1600, *4500	*2000	*1600
	Main motor power	kW	7.5, *11		11		
Axis	X axis travel	mm	260		380		
	Z axis travel	mm	320		300		
	X/Z rapid traverse	m/min	15/15		20/20		
Toolpost	Type of toolpost		Gang type		Gang type		
	No. of tool stations	nos	4-6		4-8		
	OD tool shank size	mm	32X32		32X32		
Structure	Slant bed degree		60°		60°		
	Guideway type		Linear Motion		Linear Motion		
Others	Power capacity	kVA	14		18		
	Overall dimension (LxWxH)	mm	2100X1600X1750		2520X1750X2050		
	Weight (about)	kg	3000		3900		

Note: "*" means optional.

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