



PRECISION MANUFACTURING OF LARGE CRANKSHAFTS
NG 650

The All-In-One Solution for Large Crankshafts – NG 650

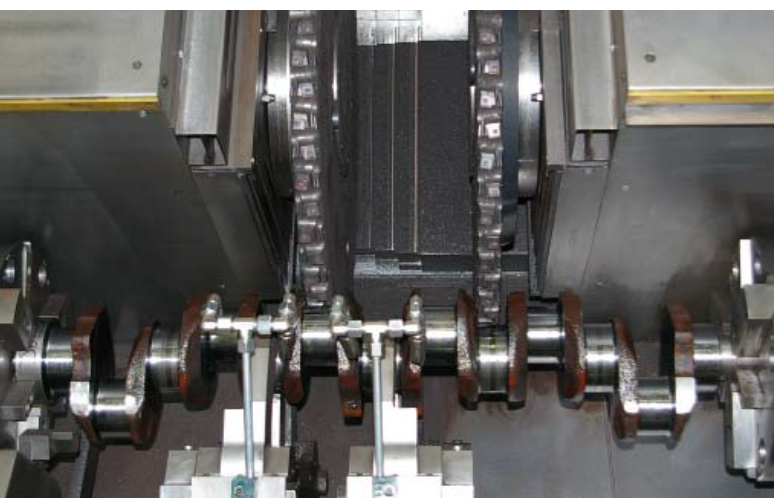


The NG 650 is ideal for prototype, single workpiece and small series production.

This machine meets the highest demands. Workpieces up to 6 meters in length, 3.5 ton weight and a diameter of up to 500 mm can be processed easily.

The basis for the precise processing of the workpieces is the vibration dampened machine. This ensures smooth and safe processing for heavy machining.

The performance of the drives enables very deep cuts. The high speed milling feature allows high metal removal rates in very short times.



Crankshafts for various industries can be processed:

- > Ship motors
- > Oil field pumps
- > Construction machines
- > Locomotives
- > Compressors



Technical Data NG 650

Options:

- > Counter spindle or tailstock
- > 2 top-mounted tool carriers
- > Up to 2 steady rests
- > Y axis
- > C axis
- > Turret with driven tools
- > Milling unit

As the machine can conduct turning as well as milling operations, centric, eccentric and non-round surfaces can be processed.

In conjunction with the Y axis, the driven tools allow eccentric drilling and the milling of surfaces.



NG 650

Range

Turning length	mm	2000/3000/4500/6000
Swing diameter above bed	mm	1000
X axis cross stroke	mm	340

Primary Spindle

Spindle nose	Size	A15
Chuck \varnothing , max.	mm	500
Spindle bore	mm	132
Spindle \varnothing , in front bearing	mm	190
Power 60% ED	kW	71
Speed, max.	min ⁻¹	2000
Torque, max. 60% ED	Nm	4500
C axis, torque, max.	Nm	4500

Tailstock

Center point	Number	MK5 / MK6
Pressing force	kN	15 / 25

Feed Drive (AC Motors)

Rapid traverse	m/min	30
Feed force when drilling	kN	15
Rapid traverse		
Tailstock / steady rest	m/min	15

Turning Support

Tool capacity per turret	Number	12
Driven tools per turret	Number	12
Cylinder shaft holder DIN 69880	\varnothing mm	50 / 60
Y axis, cross stroke	mm	\pm 65

Milling Support

Spindle nose with center cone per DIN 55026	Size	A11
Spindle \varnothing , in front bearing	mm	150
Speed range	U/min	0 – 180
Power 100%/40% ED	kW	51 / 81
Milling spindle torque	Nm	12,500
Tool diameter	mm	900



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MAG Boehringer has a more than 160-year tradition of developing horizontal lathes, turning centers, and special machines for crankshaft processing. All of these products meet the highest standards of quality and deliver the greatest possible precision and performance. The company works closely with its customers to develop processing solutions that ensure economical production, whereby customer satisfaction is the engine that drives the organization's experienced workforce.

Since 2006, MAG Boehringer has been a part of **MAG Industrial Automation Systems**, a dynamically expanding group that has achieved a leading position in the global machine tool manufacturing industry. With its innovative, highly productive machine solutions, MAG is a strong partner for the metal-working industries in the aerospace, machining, auto-motive, heavy equipment and energy sectors. A growing number of leading international companies are relying on the impressive innovative power of the MAG group to assure their technological leadership and prepare for future challenges.

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Through our commitment and innovative power, we steer a broad range of industrial manufacturing companies to success. Our reach extends across the globe as we help the wheels of progress to turn faster.