

GEMINIS



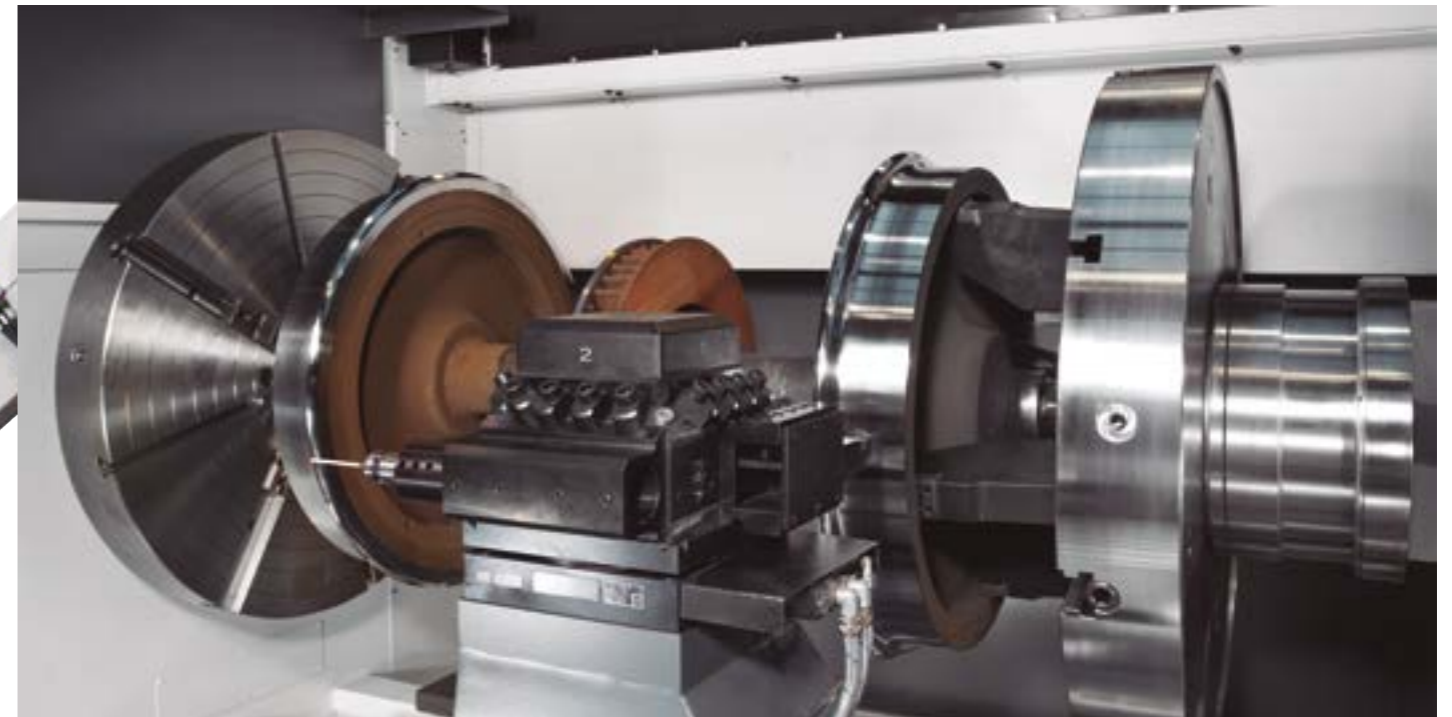
Railways

Our aim is to create customized solutions by building quality and reliable machines.

A close relationship with our customers is the most important value in order to solve their needs.

60 years of experience in machine building gives us the ability to develop a wide range of Horizontal, Vertical and Multi-tasking Lathes.

We have specialised knowledge in the Railway Sector, to enable manufacture and maintenance of rolling stock undercarriage parts, including axles, wheels and wheelsets.



TECHNICAL CHARACTERISTICS

CAPACITY

Swing over bed	1.200	mm
Swing over cross slide	800	mm
Distance between centres	3 - 4	m

HEADSTOCK

Spindle nose	DIN 55026-11	
Speed range	0-1.400	min-1
Main motor power (S1)	30	kW

SLIDES

Rapid traverse	8	m/min
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TAILSTOCK

Quill diameter	160	mm
Quill traverse	300	mm

WEIGHTS

Between centres	6.000	Kg
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Geminis GT5-R for axle machining.
Horizontal lathe for high precision finishing.

Following options are available:

- / Double turret.
- / Grinding and burnishing devices.
- / Automatic loading/unloading system.
- / Measuring systems.
- / Synchronised tailstock.
- / Measuring data exchange software to match the axles with the wheel producing machines Geminis GB3-R and with the GV8-R.





Geminis GT7-R for machining of wheels set.
Horizontal lathe for high power cutting.

Following options are available:

- / Double turret.
- / Grinding and burnishing devices.
- / Automatic loading/unloading system.
- / Measuring systems.
- / Synchronised tailstock.

TECHNICAL CHARACTERISTICS

CAPACITY

Swing over bed	1.600	mm
Swing over carriage	1.300	mm
Distance between centres	3 - 4	m

HEADSTOCK

Spindle nose	DIN 55026-15	
Speed range	0-800	min-1
Main motor power (S1)	51	kW

SADDLES

Rapid speed	8	m/min
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TAILSTOCK

Quill diameter	220	mm
Quill travel	300	mm

WEIGHTS

Between centres	13.000	Kg
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TECHNICAL CHARACTERISTICS**SUPPORT CHUCK**

Maximum Ø	1.600	mm
Maximum weight on table	3.000	Kgs

TRAVERSE

Longitudinal – X Axis	±16	mm
Vertical – Z Axis	700	mm

BORING HEAD

Tool holding system	Ø25 (Weldon Type)*	
Speed range	1.000	min-1
Main motor power	28	kW
Maximum boring Ø	250	mm

* Optional

Geminis GB3-R for wheel hub boring.
Vertical lathe for boring applications.

Following options are available:

- / Automatic loading/unloading system.
- / Measuring systems.
- / Measuring data exchange software to match the wheels with the axle producing machine Geminis GT5-R.





Geminis GV8-R for hub machining, external wheel profile machining and greasing hole machining.
Vertical lathe with drilling and milling capacity.

Following options are available:

- / Measuring systems.
- / Automatic loading/unloading system.
- / Automatic tool changer.
- / Measuring data exchange software to match the wheels with the axle producing machine Geminis GT5-R.

TECHNICAL CHARACTERISTICS

TURNING HEADSTOCK

Maximum turning swing	1.600	mm
Maximum speed	500	r.p.m.
Main motor power	28	kW
Maximum weight on table	3.000	Kgs

TRAVERSE

Longitudinal – X Axis	2.000	mm
Vertical – Z Axis	500 / 1.000*	mm

RAPID FEEDS

X and Z Axis	20.000	mm/min
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TURNING & MILLING HEAD

Spindle taper	HSK 100T	
Speed range	3.000	min-1
Main motor power	28	kW

* Optional

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