

**G**EMINIS



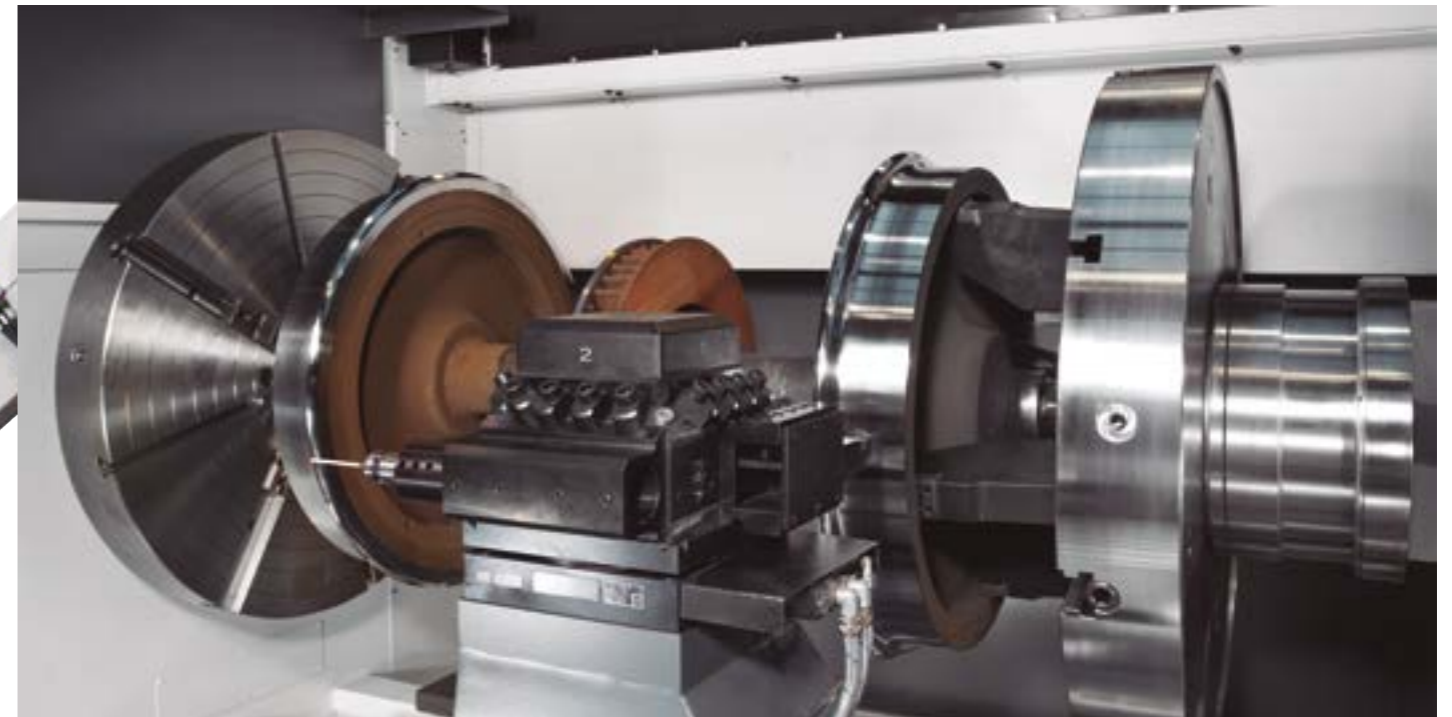
**Rail**ways

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.



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**TECHNICAL CHARACTERISTICS**


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**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**

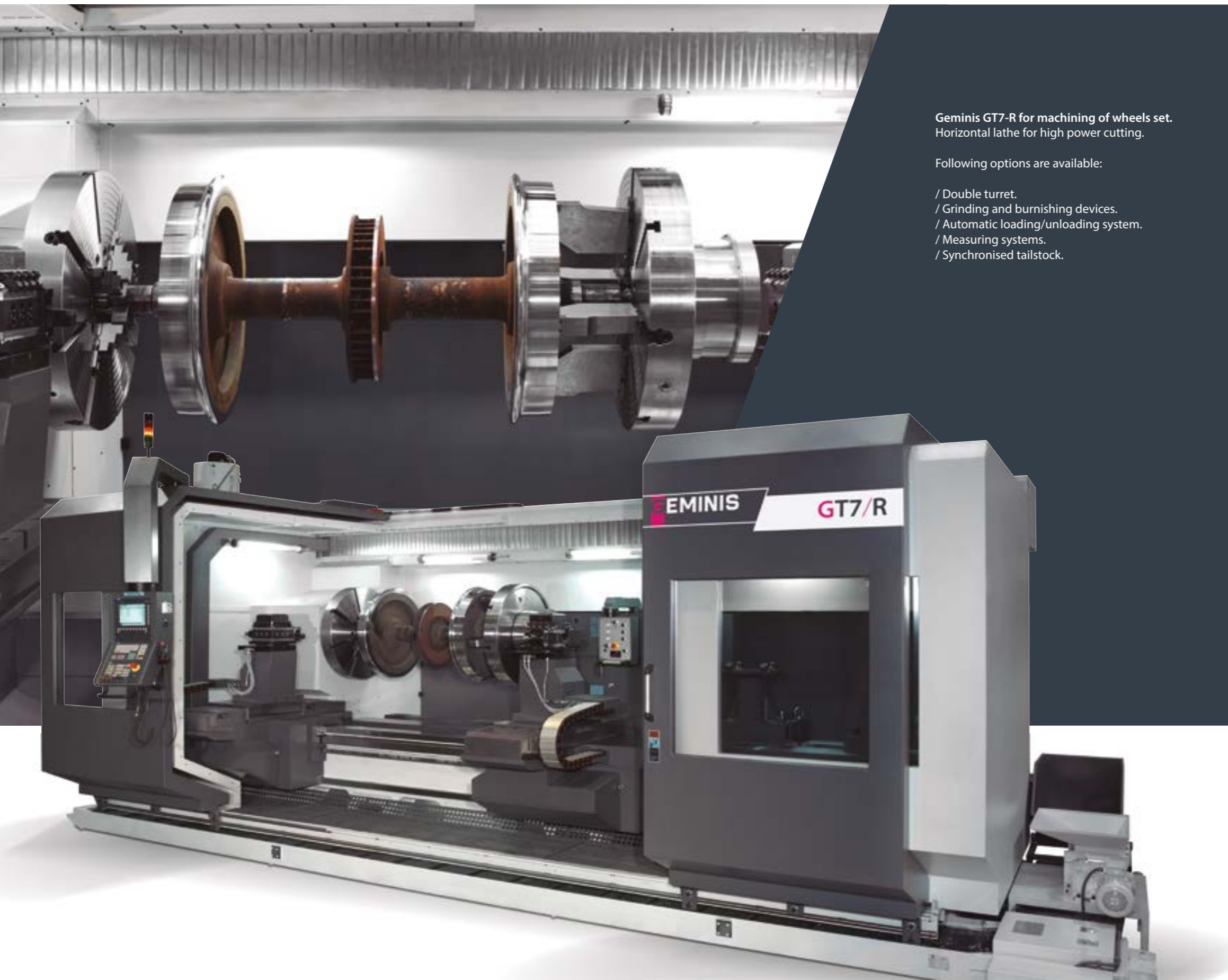
Between centres	6.000	Kg
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**Geminis GT5-R for axle machining.**  
Horizontal lathe for high precision finishing.

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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