RAILWAYS







BEHIND GEMINIS YOU WILL FIND A TEAM OF MORE THAN 100 PEOPLE DEVELOPING MACHINING SOLUTIONS.

Our technology and experience allow us to work in the most challenging sectors and projects. Besides railways we are reference in Iron & Steel, Oil&Gas, Power generation, Wind energy, Shipyard or Cranes.











WE BELIEVE IN RAILWAYS AS A MAJOR ACTOR IN CONNECTING OUR WORLD

We are proud to support railway manufacturers, railway lines managers, etc. with close contact and customize solutions manufacturing high reliability machines for rolling stock maintenance. Our Geminis lathes are specialized in machining of axles, wheelset and wheels. We have a track of more than 60 years supplying highly demanding machining solutions and service all over the world.



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FOR AXLE MACHINING

TECHNICAL CHARACTERISTICS		GR5-A
Swing over bed	mm	1,000 - 1,200*
Max. Axle diameter	mm	500
Max. Axle length	mm	3,000 - 4,000*
Max. Axle weight	kg	5,000
Spindle nose		DIN 55026-11
Spindle range	r.p.m.	0 1,400
Main motor power	kW	28 - 37*
Rapid traverse	m/min	8
Quill diameter	mm	160
Machine dimensions	mm	3,100 x 2,600 x 8,900

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* Optional

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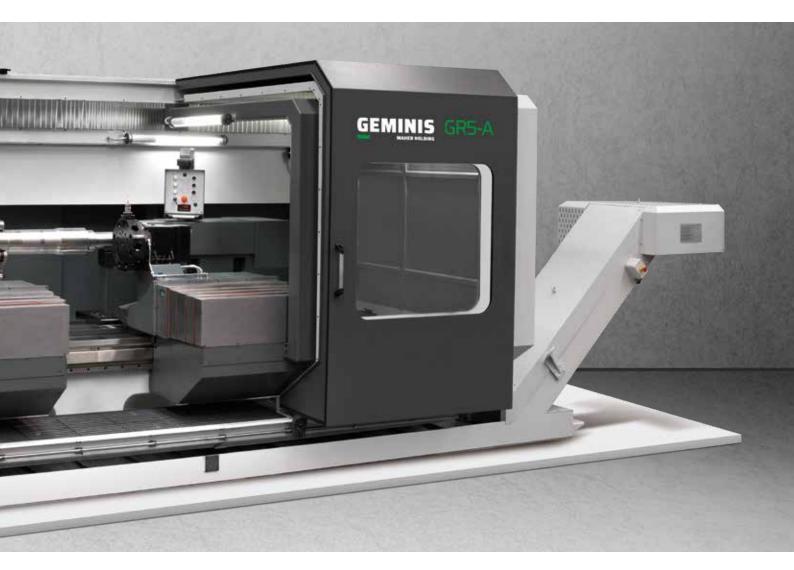
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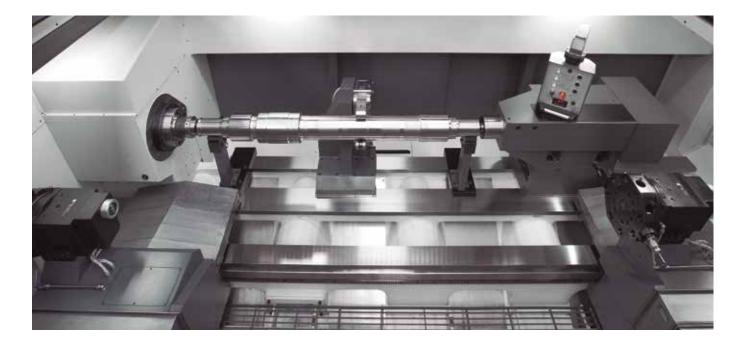
Кg

Machine weight

AXLES HORIZONTAL LATHE FOR HIGH PRECISION FINISHING..







GR5-S / GR7-S

FOR WHEELS SET MACHINING

Machine also capable of machining axles and loose wheels.

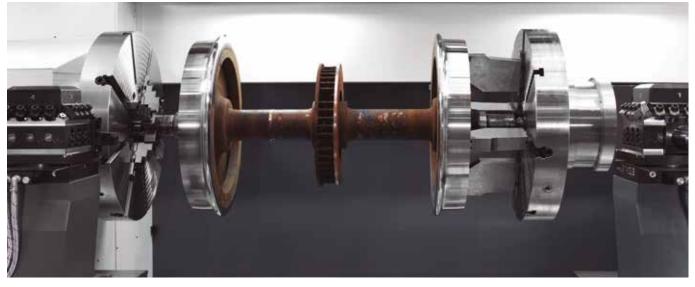
TECHNICAL CHARACTERISTICS		GR5-S	GR7-S
Max. Wheel tread diameter	mm	840	1,250
Track gaude	mm	1,435	1,435
Max. wheelset weight	kg	5,000	8,000
Max. Axle length	mm	3,000 - 4,000	3,000 - 4,000
Main motor power	kW	30 / 51*	51 / 71*
Machine dimensions	mm	3,600 x 3,000 x 8,900	4,100 x 3,300 x 9,300
Machine weight	Kg	18,500	25,000
Radial run out	mm		<0.10
Accuracy of profile	mm		<0.15
between wheels	mm		<0.10
Roughness of surface	mm		<0.012

WHEELSETS

HORIZONTAL LATHE FOR HIGH POWER CUTTING.









WHEELS VERTICAL MACHINE FOR BORING APPLICATIONS



TECHNICAL CHARACTERISTICS		GR3-W	
Max. Wheel tread diameter	mm	840 1,250*	
Min. Wheel tread diameter	mm	580	
Chuck diameter	mm	1,200 - 1,500*	
Max. Boring diameter	mm	350	
Max. Weight over table	kg	3,000	
Main motor power	kW	22	
Speed range	r.p.m.	0 500	
Machine taper	HSK 63A		
Automatic tool changer	12 - 20* - 30*		
Machine dimensions	mm	4,200 x 5,000 x 3,900	
Machine weight	Kg	15,000	
Boring accuracy		IT6 - IT7	
Roundness	mm	<0.02	
Cilindricity	mm	<0.02	
Roughness of surface	mm	<1.2	



* Optional



WHEELS LOADING SOLUTIONS





MAIN CHARACTERISTICS

GR3-W

Designed for all range of wheel dimensions Storage buffer at the entrance of the conveyor Wheel input area before processing Wheels loading and unloading system to the machining area Wheel output area after processing Storage buffer at the exit of the conveyor Integrated to the GR3-W machine Software

Safety guarding

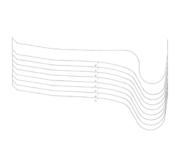




TECHNOLOGIES

- PERSONALIZED INTERFACES
- AUTOMATIC MEASURING SYSTEMS
- AUTOMATIC MACHINING OF THE OPTIMUM PROFILE
- MEASURING REPORTS
- KEY PARAMETERS
 COMMUNICATION BETWEEN
 MACHINES
- AUTOMATIC LOADING / UNLOADING SYSTEMS FOR ALL TYPE OF LATHES





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REFERENCES

Talgo

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Ansaldo STS A Hitachi Group Company







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Geminis Lathes S.A. Lerún, 1 · 20870 Elgoibar Gipuzkoa (Spain)

Tel: (+34) 943 748 060 · Fax: (+34) 943 743 380 sales@geminislathes.com

www.geminislathes.com www.maherholding.es

