CEMINIS



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GEMINIS

EMINIS

GR7-S

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.

GEMINIS Railways

Turning solutions

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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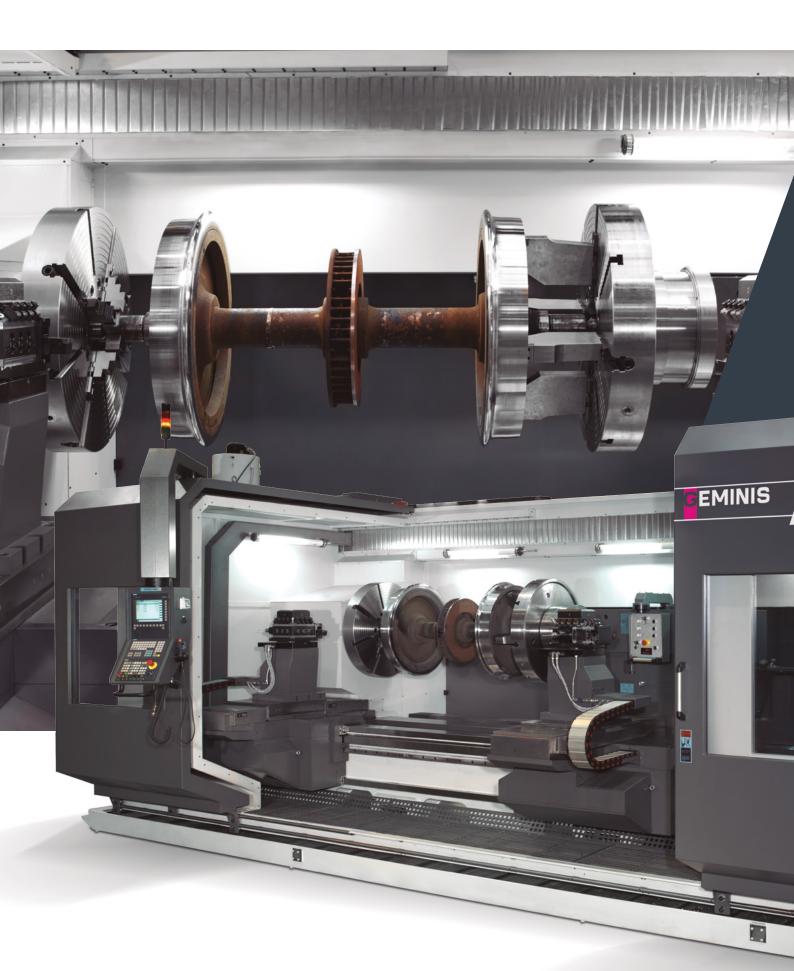
GR5-A for axle machining Horizontal lathe for high precision finishing.

TECHNICAL CHARACTERISTICS					
Swing over bed	mm	1,000 - 1,200*			
Swing over cross slide	mm	600 – 800*			
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			
Machine weight	Kg	16,000			
		v .			

*Optional







GR5-S / GR7-S

for wheels set machining Horizontal lathe for high power cutting

TECHNICAL CHARACTERISTICSGR5-SGR7-SMax. Wheel tread diametermm8401,250Toole on the second seco

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 8,90	0 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
Difference in diameters between wheels	mm	<	:0.10
Roughness of surface	mm	<	0.012

GR7-S

*Optional

Machine also capable of machining axles and loose wheels.

GR3-W for wheel hub boring Vertical machine for boring applications

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TECHNICAL CHARACTERISTICS

Max. Wheel tread diameter	mm	860 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

R8-M

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GR8-W for hub machining, external wheel profile machining and oil injection hole machining. Vertical lathe with drilling and milling capacity.

TECHNICAL CHARACTERISTICS				
Max. Swing diameter		mm	1,600	
Chuck diameter		mm	1,500	
Max. Weight over chuck		Kg	3,000	
Headstock main motor power		kW	28	
Speed range		r.p.m.	0 500	
Travel X		mm	2,000	
Travel Z		mm	500 1,000*	
Rapid feeds		mm/min	20,000	
Turning & Milling head	Spindle taper		HSK 100 T	
	Speed range	r.p.m.	0 3,000	
	Main motor power	kW	28	
Automatic tool changer			12 / 20* / 30*	
Machine dimensions		mm	2,530 x 6,190 x 3,530	
Machine weight		Kg	25,000	
			v .	

*Optional

GEMINIS Railways

Technologies



References



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Geminis Railways 2018 v.02

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