

LEADERS IN HEAVY DUTY CNC LATHES





For GURUTZPE the most natural thing is to grow following the laws of sustainability. Our vision of business, of people, of the world... is closely related to the respect for nature. To responsibly progress, with innovations that optimizes our resources and efforts. Due to this, our lathes avoid the superfluous. We manufacture machines that respond to

the real necessities of our customers, productivity, safety, reliability, precision and confidence. These are the concepts that are our philosophy and that we put into practice applying the most basic principle: **doing the important things well.**

GURUTZPE

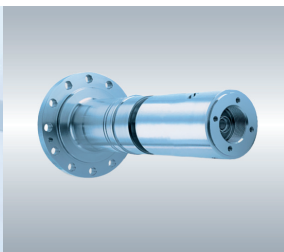


SECTORS

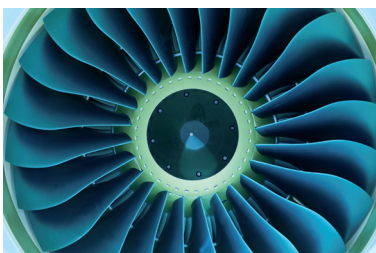
General industry



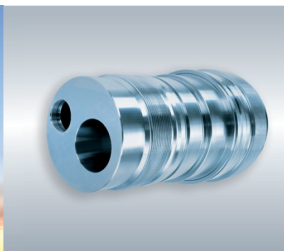
Renovable energies



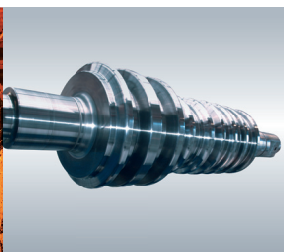
Turbines



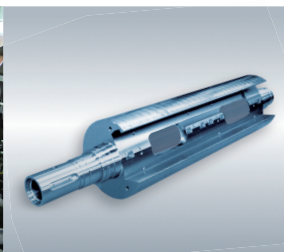
Oil industry



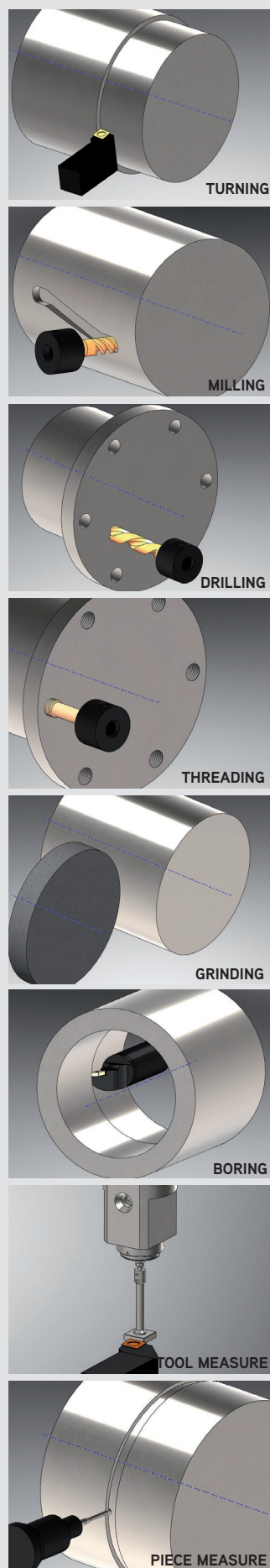
Steel industry



Paper

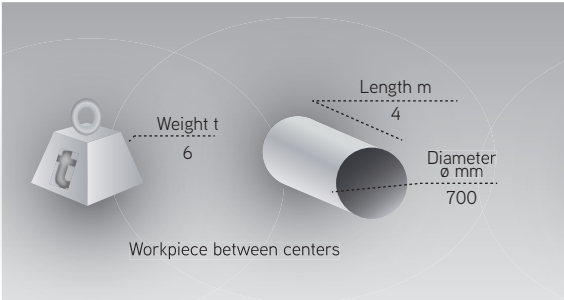


OPERATIONS



2 GUIDE-WAY

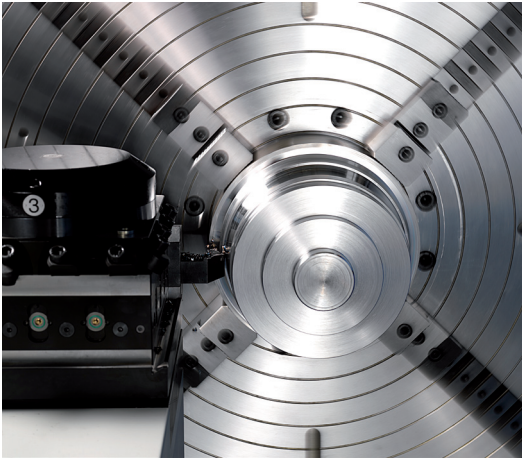
A-1000 2G



TECHNICAL DATA		A-1000 2G
Centre height	mm	450/500
Swing over carriage	mm	600/700
Swing over bed	mm	900/1000
Cross slide stroke	mm	530
Bed width	mm	640
Max workpiece load without steadies	t	4 / 6
Spindle bore	mm	120/150
Ø Spindle at front bearing	mm	160/200
Spindle nose, per DIN 55027	-	A11
Ø Quill	mm	125 / 140
Drive power (S1/S6)	kW	22/28 - 28/34
Drive torque (S1/S6)	Nm	2850/3630 - 3630/4420
Speed range	r.p.m.	0-1600
Machine weight	t	12 (4 m)

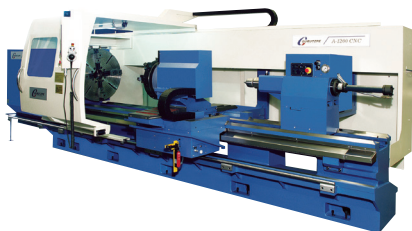
* Bigger upon request

The manufacturer has the right to alter some of the characteristics described in order to improve the machine design.



HEADSTOCK. Rigid monoblock cast iron headstock, ideally rib reinforced, machined with high accuracy and with easy access.

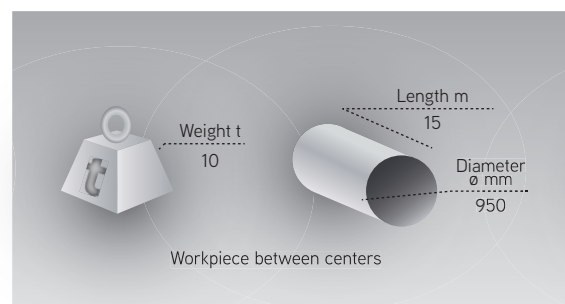
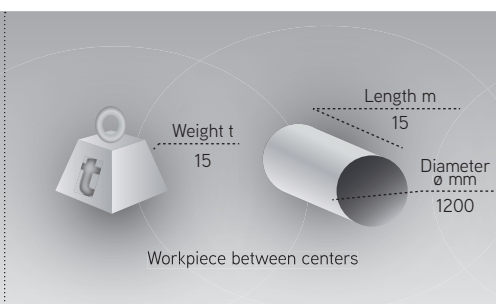
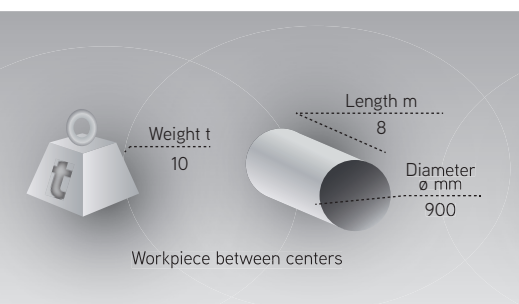
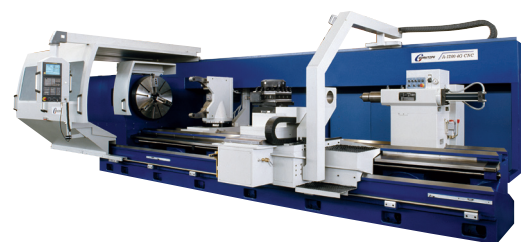
A-1200 2G



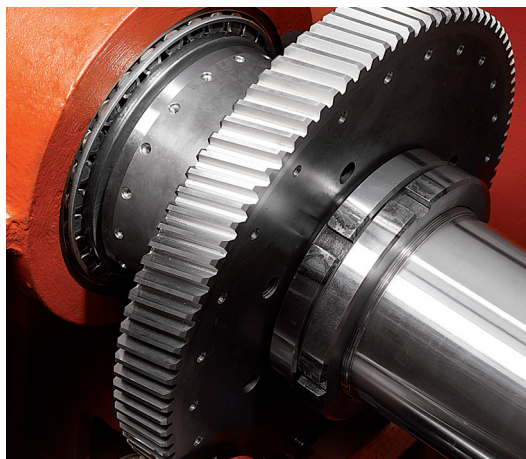
A-1600 2G



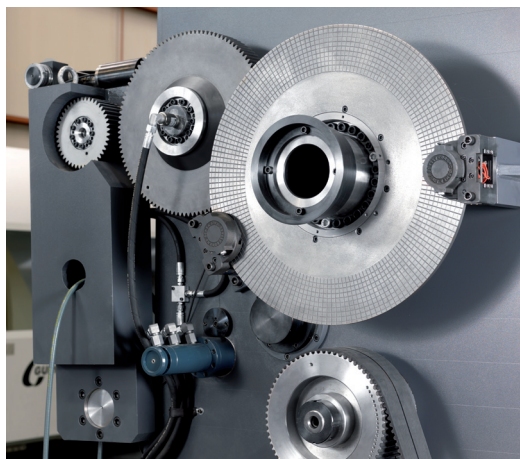
A-1200 4G



A-1200 2G	A-1600 2G	A-1200 4G
565/615	735/835	600
800/900	1000/1200	950
1100/1200	1400/1600	1170
630	800	530
750	1090	970
6 / 10	10 / 15	6 / 10
150*	110*	150*
200*	203*	200*
A11*	A15*	A11*
140/ 180	180/ 220	140/ 180
28/34 - 39/48	39/48 - 51/65	28/34 - 39/48
3630/4420 - 9300/11450	11160/13740 - 14600/18600	3630/4420 - 9300/11450
0-1600 / 0-1000	0 - 800	0-1600 / 0-1000
15 (4 m)	24 (6 m)	19 (6 m)



MAIN SHAFT. An oversized driving element with a simple cinematic chain design is used in order to obtain the maximum rotating accuracy (even with high loads) and thermal stability.



"C" AXIS. An independent, hydraulically engaged "C" axis drive is installed, for accurate positioning and control of the "C" axis.

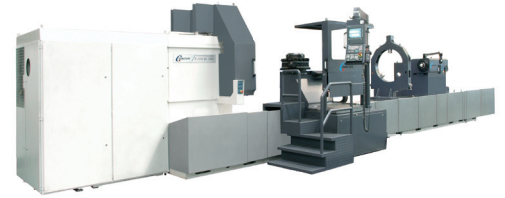


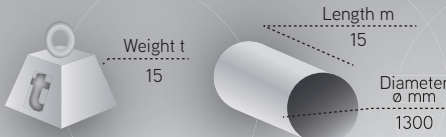

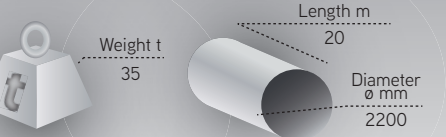
TAILSTOCK. The tailstock is clamped to the bed using disc type springs and hydraulic unclamping. Oversized bearings, maximum quill adjustment accuracy, axial dilatation compensation and strength pressure regulator.

A-1600 4G

A-2000 4G

A-2200 4G



 <p>Workpiece between centers</p>	 <p>Workpiece between centers</p>	 <p>Workpiece between centers</p>
A-1600 4G	A-2000 4G	A-2200 4G
700/800	950/1050	1025/1125/1225/1325
1100/1300	1500/1700	1600/1800/2000/2200
1350/1550	1800/2000	2000/2200/2400/2600
725	900	930/1130
1285	1650	1950
10 / 15	20 / 25	25 / 35
110*	110	110
203*	254	290
A15*	A20	A20
180/ 220	220/280	320/360
39/48 - 51/65	51/65 - 71/88	71/88 - 92 / 114 - 113/140
11160/13740 - 14600/18600	17000/22000 - 24000/30200	24400/30200 - 31200/38660 - 38320/47500
0 - 800	0/650 - 0/500	0/500 - 0/500 - 0/500
27 (6 m)	43 (8 m)	50 (8 m)



MACHINE BED AND GUIDEWAYS. Machine bed is made of locally produced stabilized cast iron, ideally rib reinforced, to guarantee a maximum rigidity and chip flow evacuation. Hardened and ground "V" shape guides, give maximum positioning accuracy over a long period of time and ensures minimum wear.

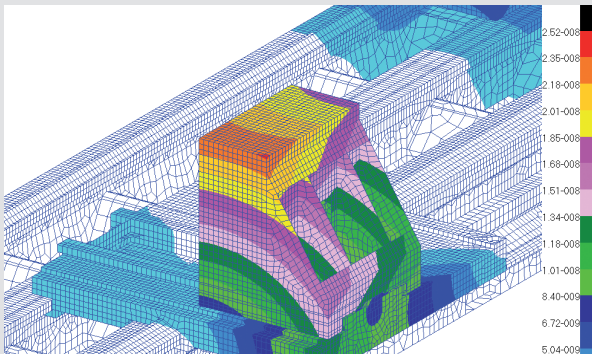
ADDITIONAL SUPPORTS. We incorporate additional guide supports for the carriage, taking advantage of the machine bed rigidity, in order to get the maximum machining rigidity in any position of the transversal carriage.

COMPONENTS. State of the art machine components, from leading European companies (bearings, motors, chucks, gearboxes, turrets...) are used in order to guarantee the best machine performance.

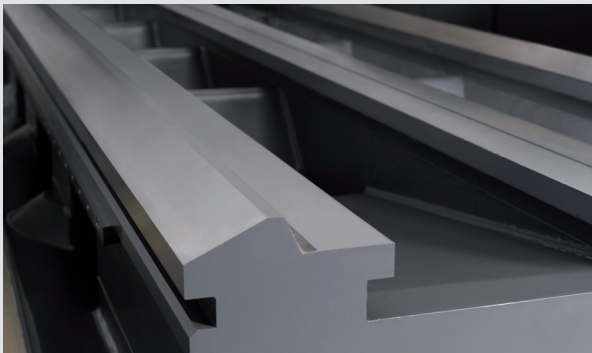
FEATURES



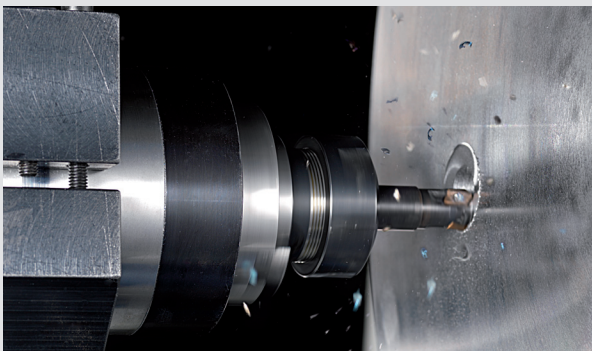
ENGINEERING AND FLEXIBILITY. We adapt to the requirements of each project, with dynamism and with experience. Starting from our standard machine range we can offer tailor made solutions for our customers. For 60 years we have been manufacturing lathes and more than 3000 units have been installed successfully backed up by our expertise and knowledge of turning operations.



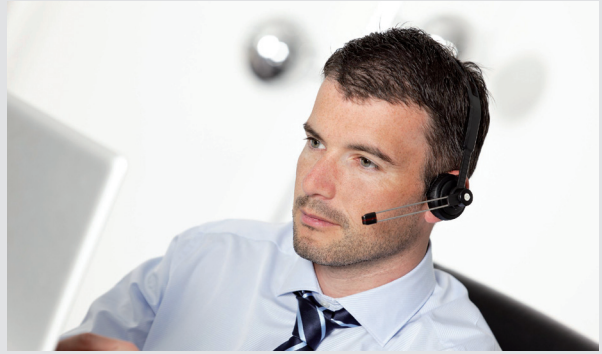
STIFFNESS, FEM ANALYSIS. The machines structural integrity is determined by the rigidity of our machine bed. Our experience and the developed Finite Element Method analysis allow us to reinforce exactly where maximum force requirements are encountered. That is the reason why we manufacture all our machine main body castings in monoblock cast iron, ensuring optimum parameters of rigidity and vibration absorption.



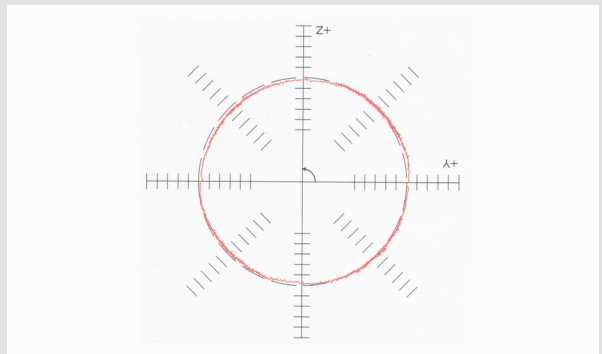
RELIABILITY, "V" GUIDING. The "V" shape guides are characteristics of our guiding systems. More than 3000 machines installed confirm their suitability and, even if their manufacturing is more expensive, their self centering and reduced wear characteristics guarantee higher performance over a longer period compared to the flat type guides.



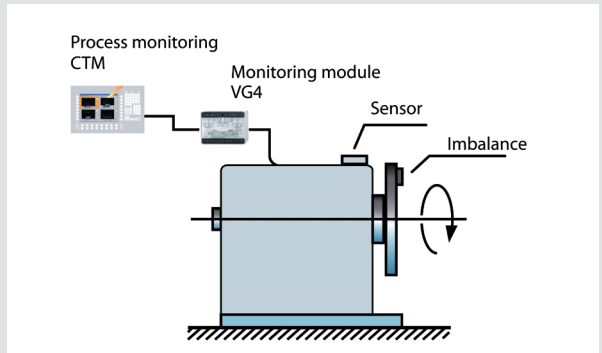
MULTITASK, COMPLETE MILLING. To incorporate in one single machine measuring, demanding turning, long boring, diverse threading and occasional grinding operations provides an essential versatility for a certain type of part which results in a significant productivity improvement.



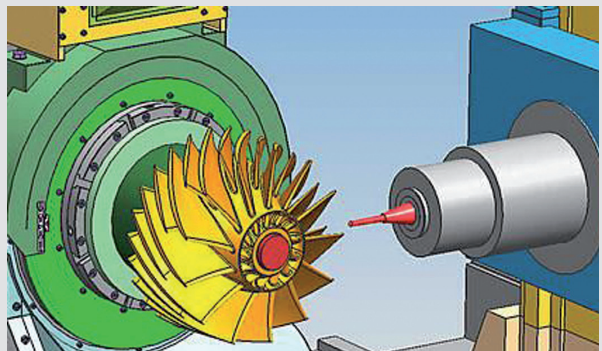
TRAINING AND SERVICE. Our service team is multi-disciplinary and expert. We offer tele-assistance for our complete machine range. We always have spare parts in stock and carry out preventive maintenance...all over the world. Our process and electronic engineers are directed to transmit their knowledge in a clear, direct and efficient way which leads the users to get the maximum performance from our excellent quality machines.



MACHINING ACCURACY. The machine structural rigidity, the perfect guiding adjustment and the high absorption of possible vibrations guarantees that we can get higher machining accuracies than is usual in this kind of machine. Roundness of up to $10\ \mu$ and a surface finish of up to $0,8\ Ra$ can be achieved. In process tool and part measurement allows us to ensure the most demanding targets.



MACHINE MONITORING. The installation of vibration, temperature, power consumption...sensors in critical areas of the machine allows us to monitor and manage in real time aspects like bearing condition, the state of coolant and lubrication systems, tool wear, unbalance...This way we can be proactive in avoiding problems and events.



CAM, SIMULATION. Starting from the CAD model of the part to be machined, tool trajectory and all machine movements can be checked optimizing the machining process therefore avoiding unexpected machine collisions. This leads to a productivity increase in both unitary and serial machining parts.



SEDE CENTRAL/ HEADQUARTERS

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