Giuseppe Giana s.r.l.

GIUSEPPE GIANA

www.giana.it

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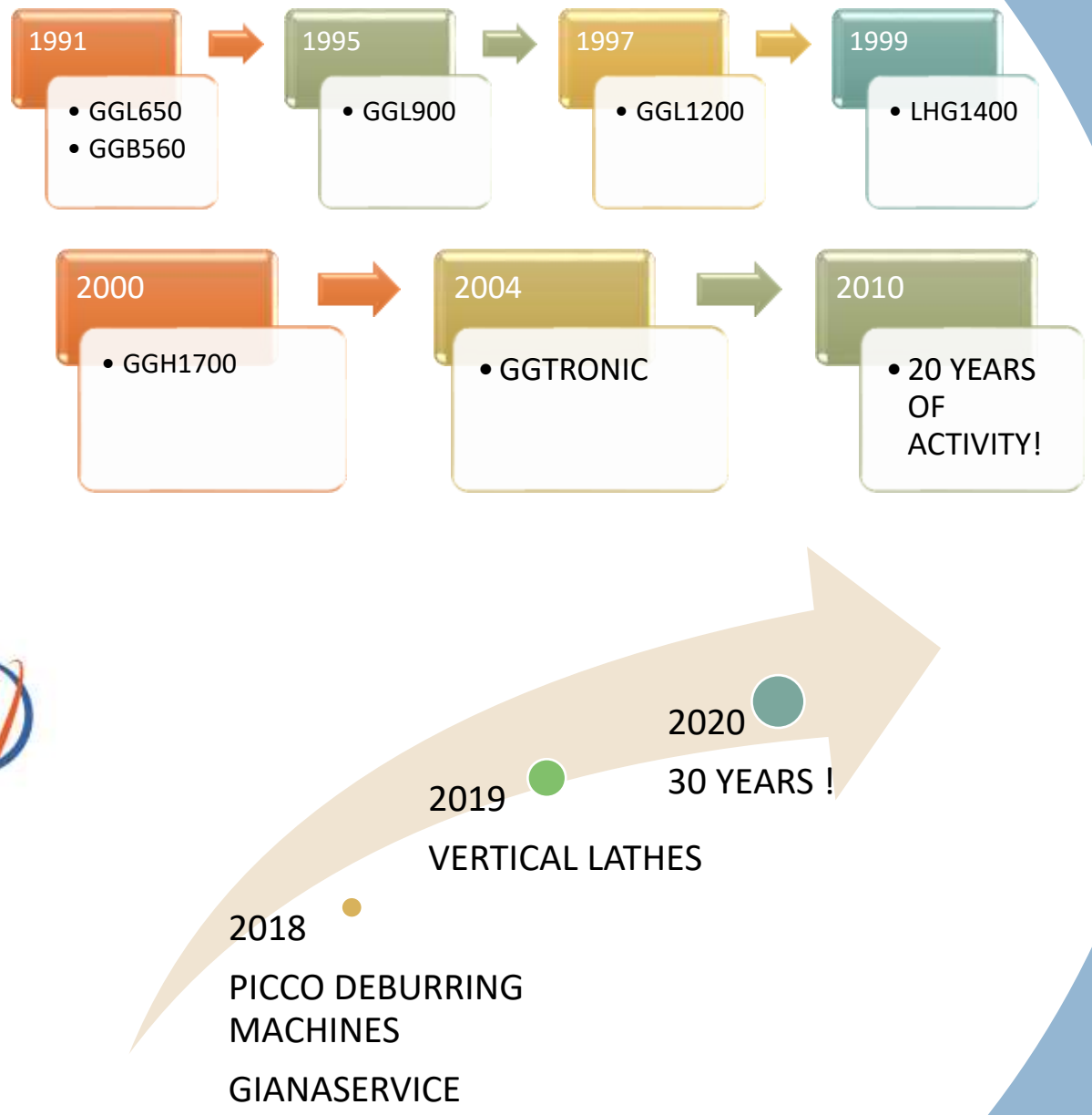
5th February 1990

Thanks to Mr. Giuseppe Giana and his wife Ms. Carmen Pariani, our company was born.

History



Our history is what we are today

Giuseppe Giana spa works from more than 30 years in the machine tools industry.

The maintenance, the acquired technical knowledges, the application of mechanical and electric technologies have confirmed the company's global success during the years.

Some specialties are the construction of CNC turning machines with 4 bed guideways and CNC deep-hole drilling and boring machines.

Performances have no limits.

For this reason, technical planning allow the construction of machines with high technological contents.

Our products

Lathes

GGL 650

GGL 900

TURNING MACHINES WITH 2 BED GUIDEWAYS	GGL 650	GGL 900
Centre height (mm)	620-720	720-820
Swing over carriage (mm)	850-1050	950-1150
Bedways width (mm)	650	900
A.C. Spindle motor power (kW)	22-40	22-60
Spindle bore (mm)	140…272	155…560
Quill diameter (mm)	140…165	210
Turning lenght (mm)	2000…8000	2000…12000

Deep Hole Boring

GGB

Deephole boring and drilling machines

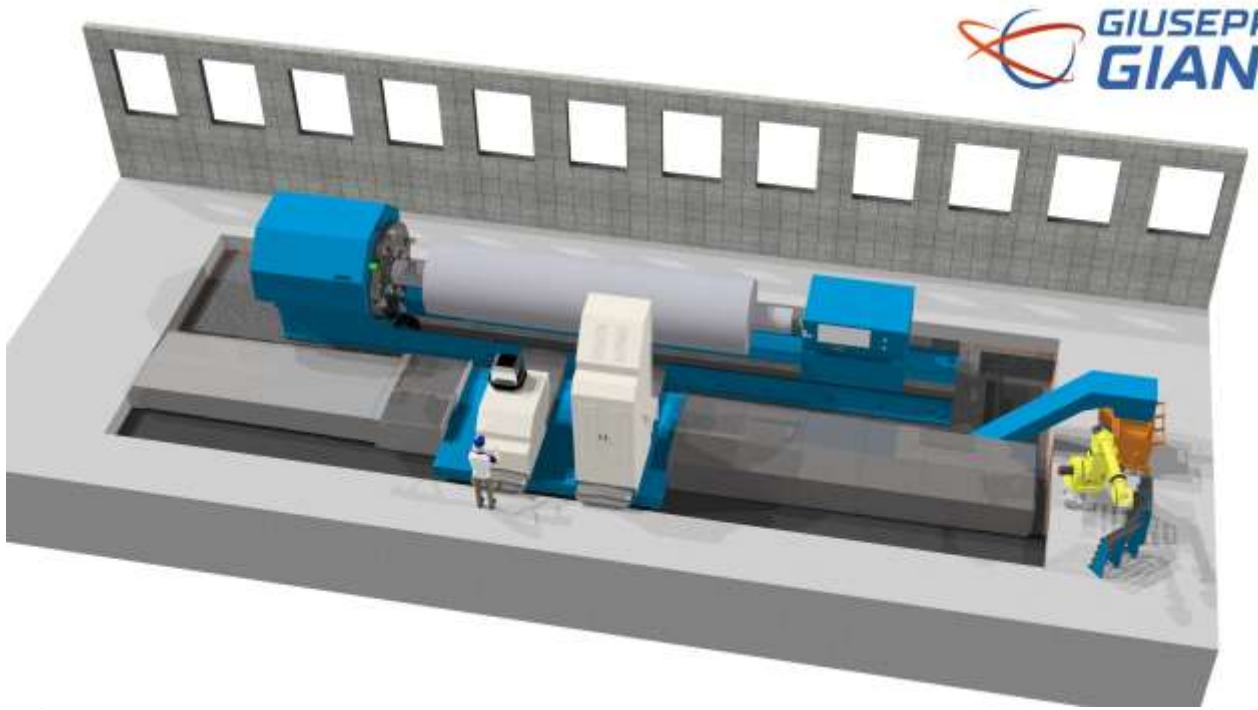
The deep hole boringmachines range GGB include models: GGB 360 - GGB 560 - GGB 1200 - GGB2500.

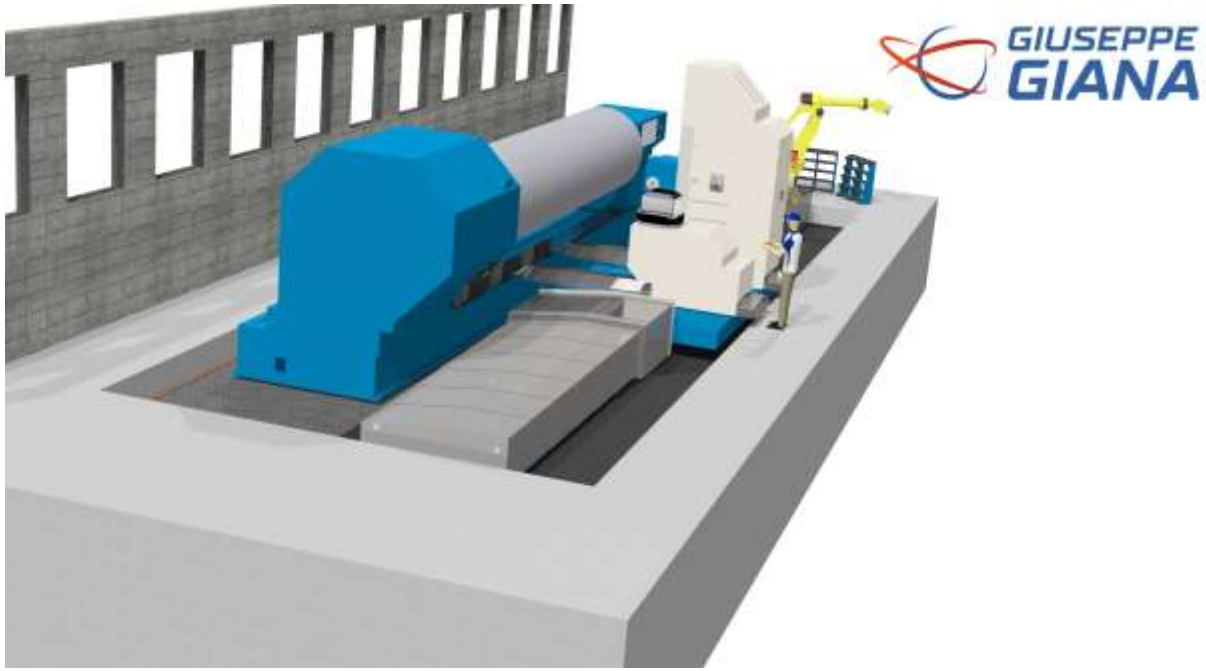
They are global leading machines.

Boring capacity up to 1000 mm, drilling and boring length up to 20000 mm and more.

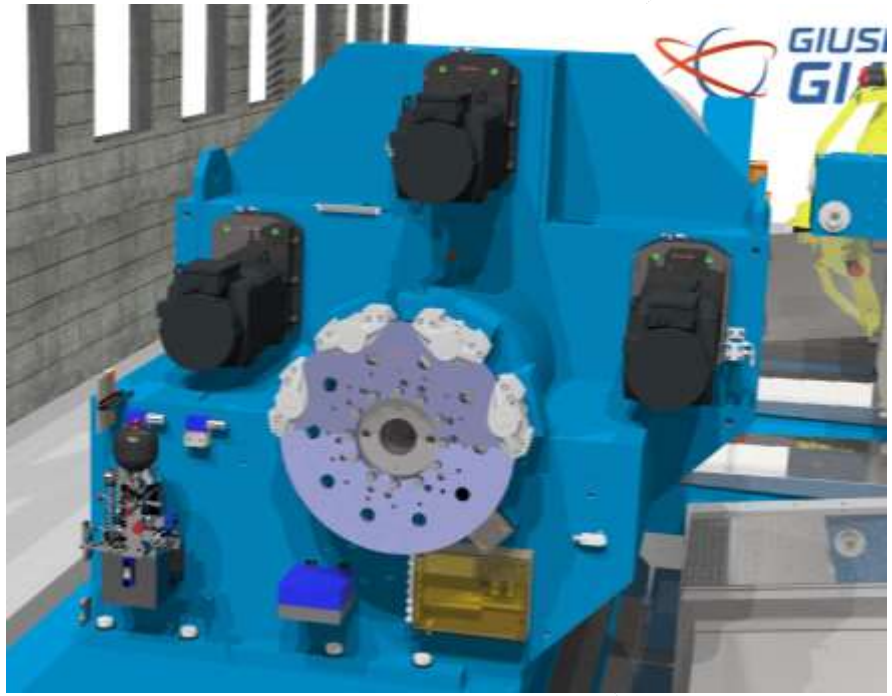
The GGB CNC model is particularly suitable for bottle boring.

Customized Lathes





Finishing machine



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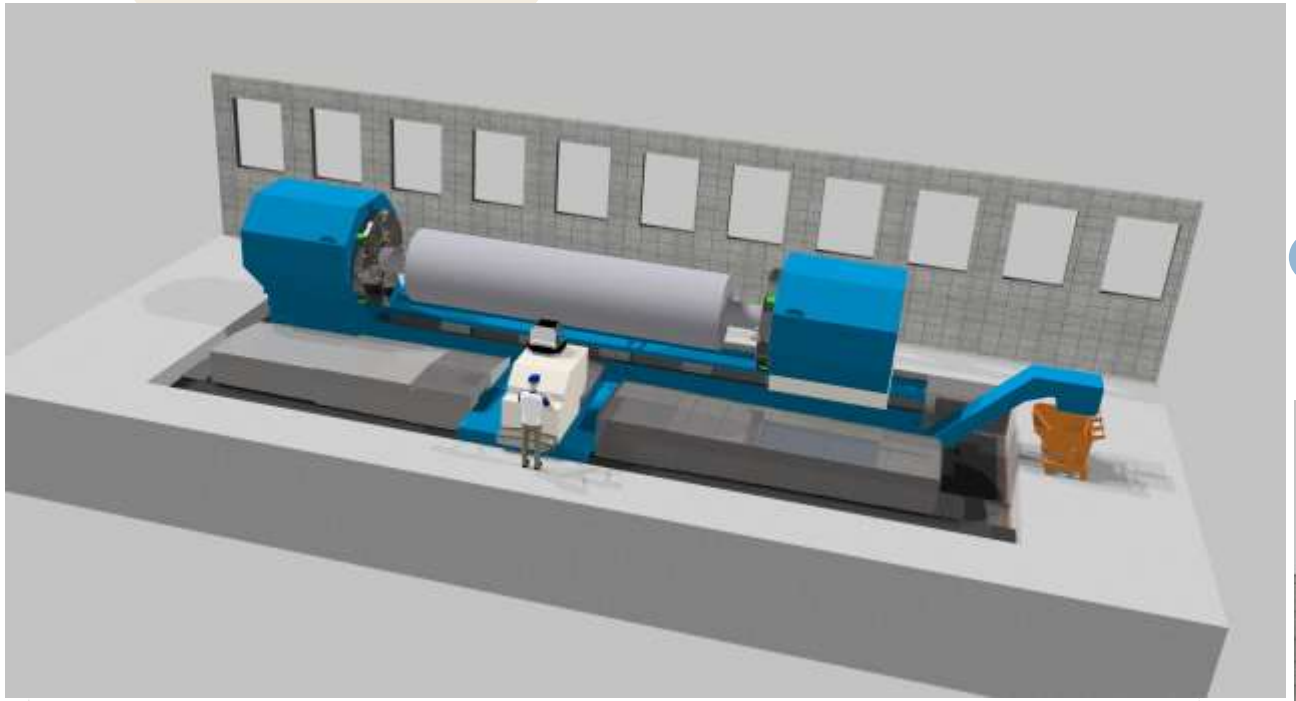
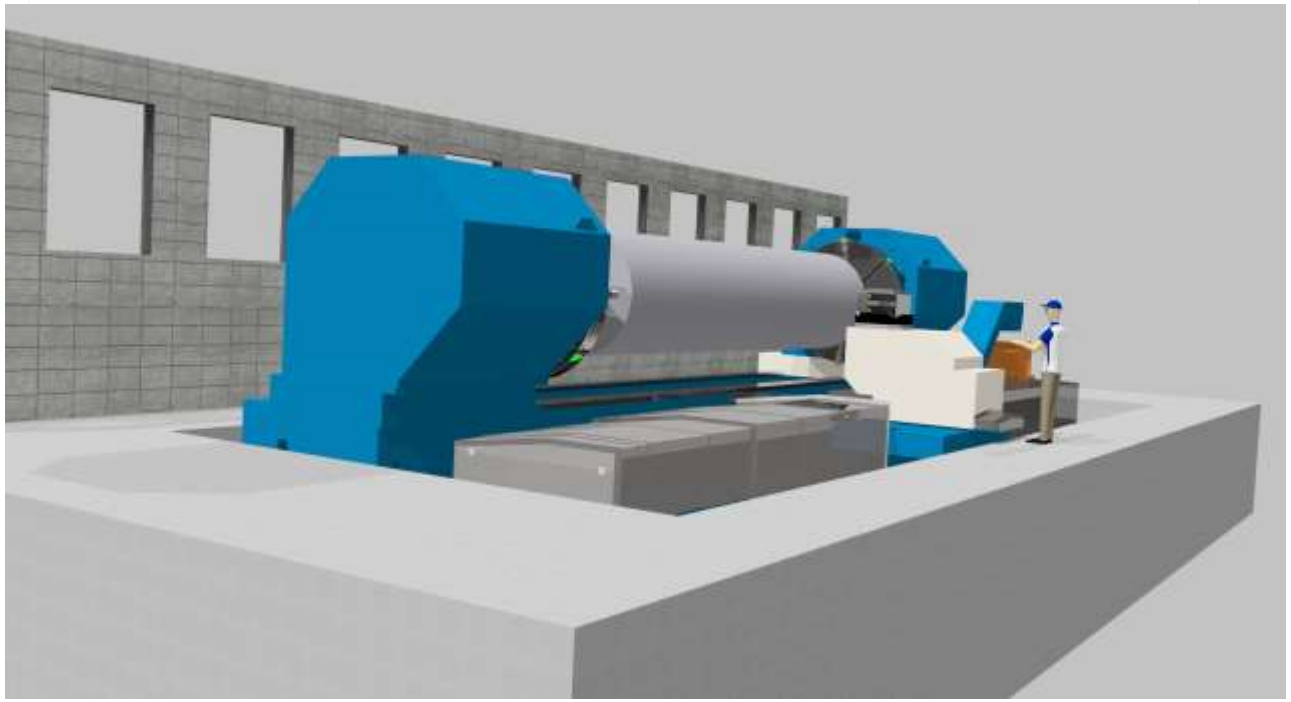
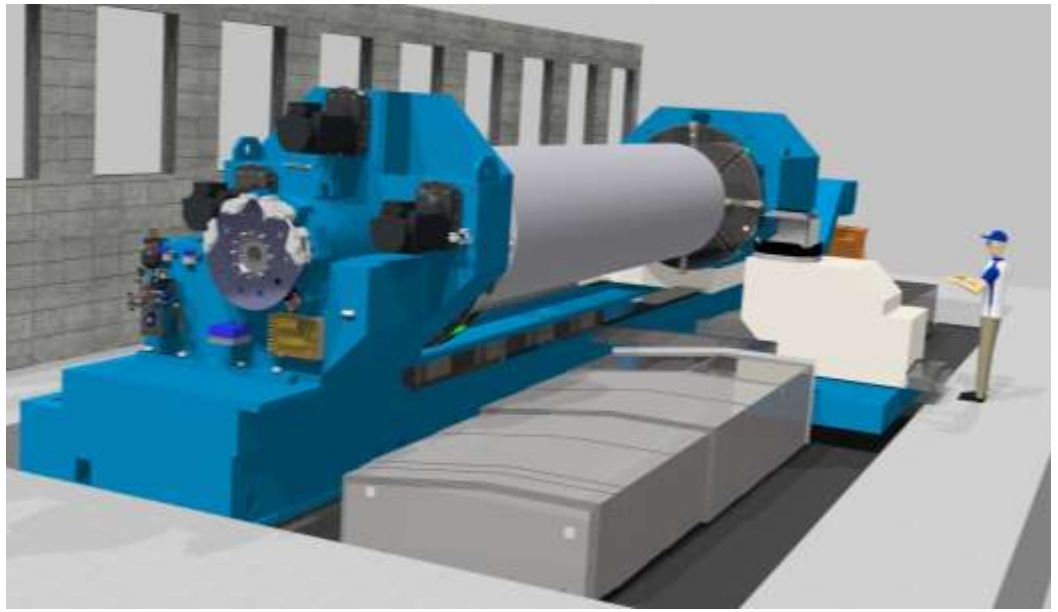
Roughing machine

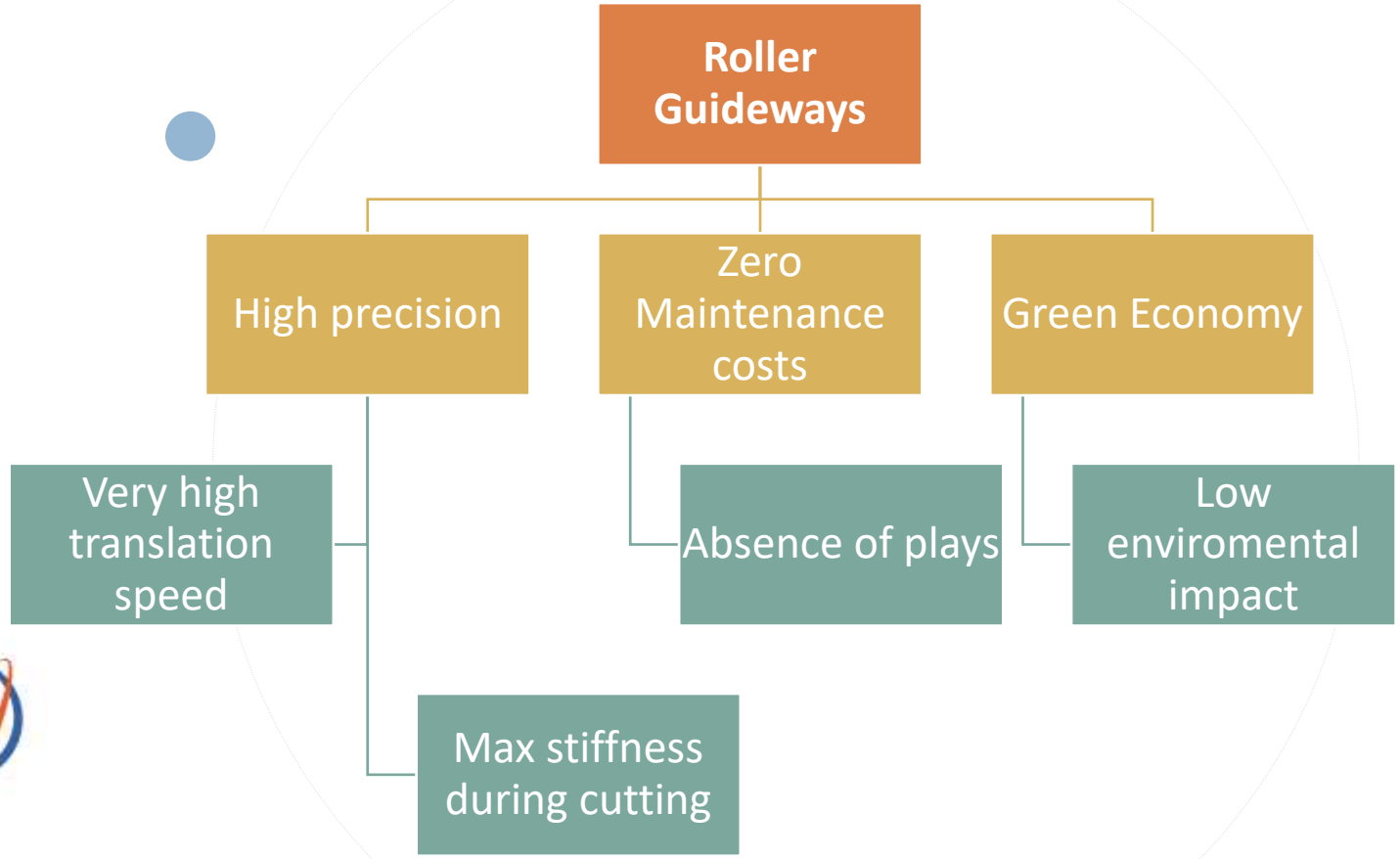


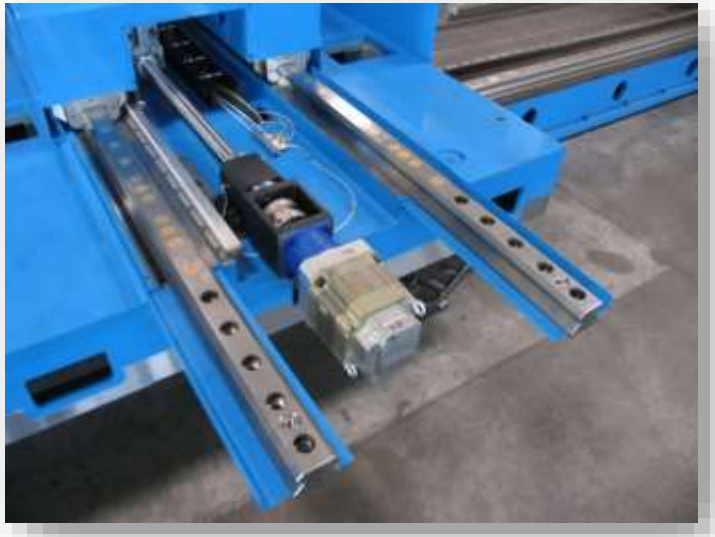


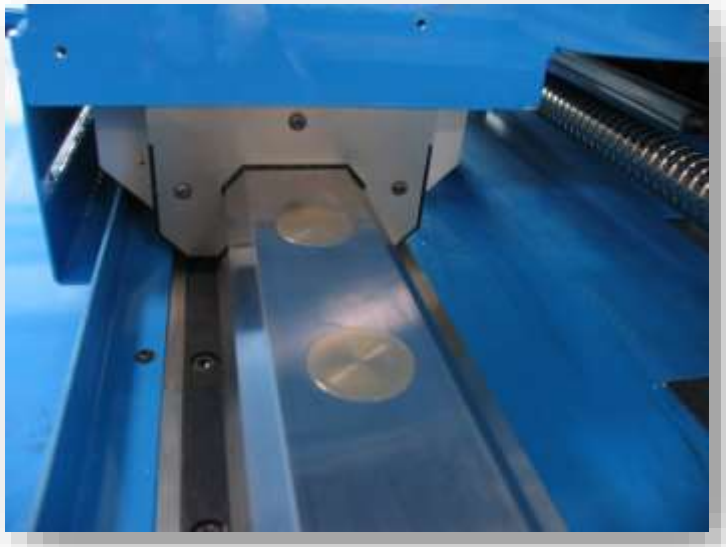


Why choose our GGTRONIC

Customized Lathes







Why choose our GGTRONIC

Customized Lathes

Comparative table

	Hydrostatics guides	Sliding guides	Linear recirculating roller system
precision	+		+
dynamic friction	+		+
stiffness	(+)	+	(+)
dumping	+	+	+
preload	+		+
load	+		+
accessories			+
reducion wear			+
heating			+
standardisation			+
silence	+		(+)

3.2 Technical data and options — MR Size 100

MR S 100 Dimensions

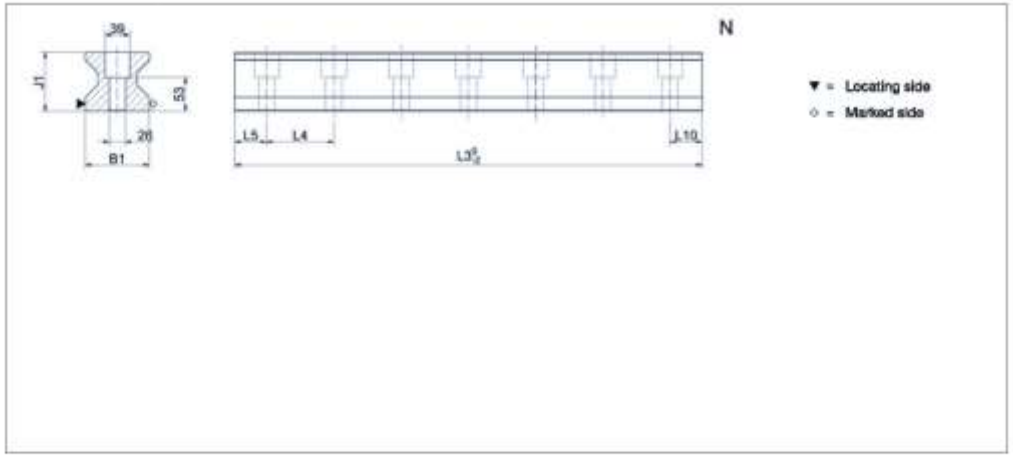
	MR S 100-N
B1: Rail width	100
J1: Rail height	92
L3: Rail length max.	3000
L4: Spacing of fixing holes	105
L5/L10:Position of first/last fixing hole	51
Gew.: Rail weight, specific (kg/m)	55.3

Available options for MR S 100

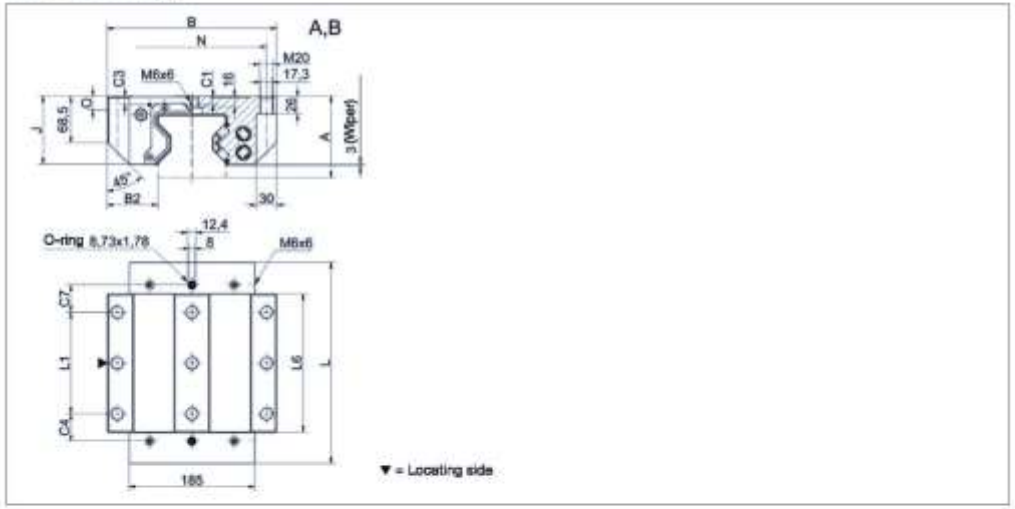
MR W 100 Dimensions and capacities

	MR W 100-A	MR W 100-B
A: System height	120	120
B: Carriage width	250	250
B2: Distance between locating faces	75	75
C1: Position of center front lube hole	12.5	12.5
C3: Position of lateral lube hole	12.5	12.5
C4: Position of lateral lube hole	40.3	67
C7: Position of top lube hole	40.3	67
J: Carriage height	100	100
L: Carriage length	296.5	400
L1: Exterior fixing hole spacing	150	200
L2: Interior fixing hole spacing	-	-
L6: Steel body length	204.5	308
N: Lateral fixing hole spacing	220	220
O: Reference face height	20	20
Capacities and weights		
C0: Static load capacity (N)	976810	1470000
C100: Dynamic load capacity (N)	401115	605000
M0Q: Static cross moment capacity (Nm)	60646	91471
M0L: Static longitud. moment capacity (Nm)	26143	39432
MQ: Dyn. cross moment capacity (Nm)	24959	37646
ML: Dyn. longitud. moment capacity (Nm)	10759	16229
Gew: Carriage weight (kg)	27.0	40.0

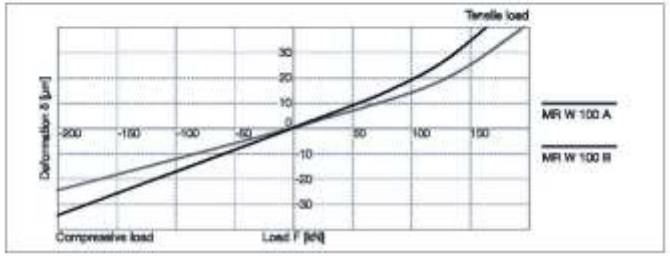
MR S 100 Drawings



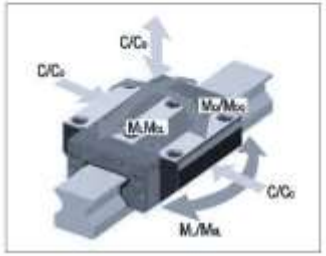
MR W 100 Drawings



MR W 100 Rigidity diagram



MR W 100 Load rating



MAINTENANCE

Customized Lathes

1. All guideways, cables, chains, measuring systems for Z & X axes are completely covered and enclosed inside telescopic covers

2. Protects from falling debris, keys, etc. which could cause damage.

3. The telescopic covers have reinforced scrapers that prevent contamination from chips or dust.

4. Mounting does not need maintenance during ENTIRE life of machine

5. No need to adjust conical gibs or scraping of counter guides because no dust goes inside due to the protection of the telescopic covers and scrapers that are directly mounted on the roller guiding pads.

6. **Competitors:**

   Std monobloc bed all the cables, chains, etc. are positioned outside and can be hit or damaged and be trip hazard for the operator as he/she moves around the machine.

Why choose our GGTRONIC

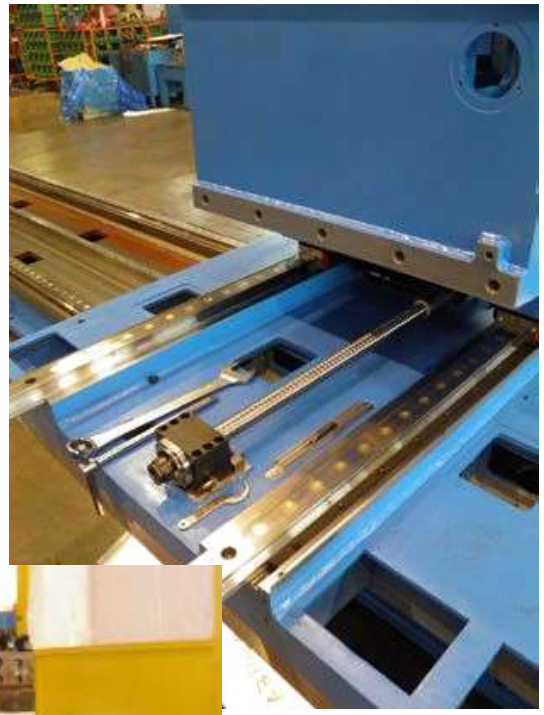
Customized Lathes

GGTRONIC is a **true** 4 bedway lathe with 2 separate beds.
Benefits of this design:

- Allows for the rearside of bed to be dedicated only to the headstock and tailstock base movement.
- There is **full** contact on the guideways, it does not share the central guideway like other standard machines.
- Allows for the carriage to easily bypass.
- Allows for the use of larger steady rests, follow rests, etc.
- 2 beds are separate and have multiple anchoring/fixing points that increases the machine's stability and accuracy during the entire life of the machine.
- Giana's double bed design, does not generate any vibrations to the carriage/tool bed.
- The capacity of vibration damping is higher in the roller guides than standard sliding box guideways.
- No chip build up on cross slide as we do not hang off the main frame. Chips fall in between the two beds direct onto the chips conveyor.

Why choose our GGTRONIC

Customized Lathes



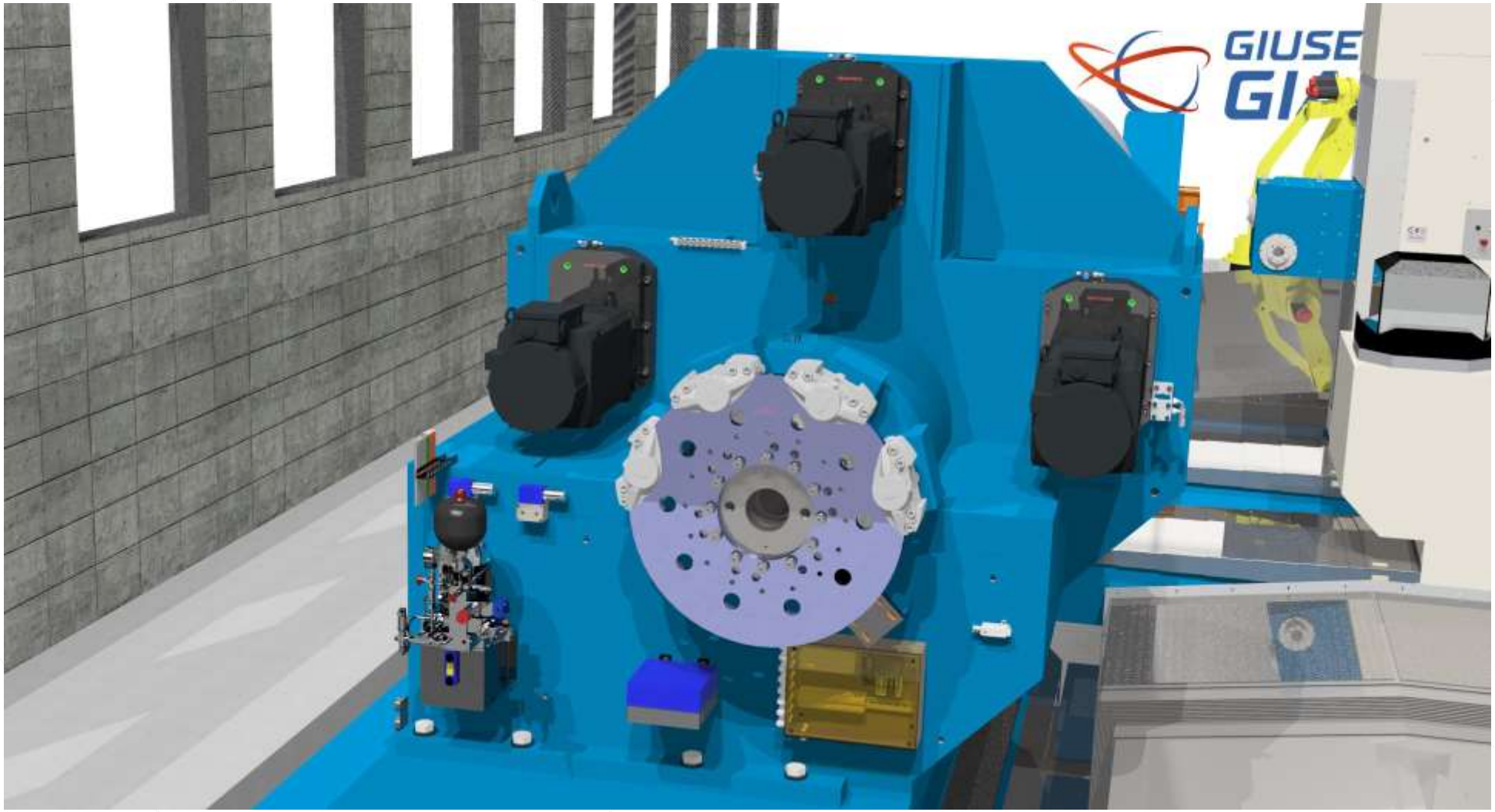
GUIDEWAYS

- Include highest quality roller guides (X & Z)→ ensures fluid and accurate axis movements.
- Better positioning, repeatability, more accuracy
- Longer life of tooling due to ideal movement of guides.
- Rapid speeds can be achieved.
- Consumption of lubrication oil for guides is lower compared to antifriction material Turcite, due to no stick-slip.
- Lower electricity consumption because of the use of smaller axes motors without changing the thrust (X Axis=200.000 N; Z Axis=140.000 N)

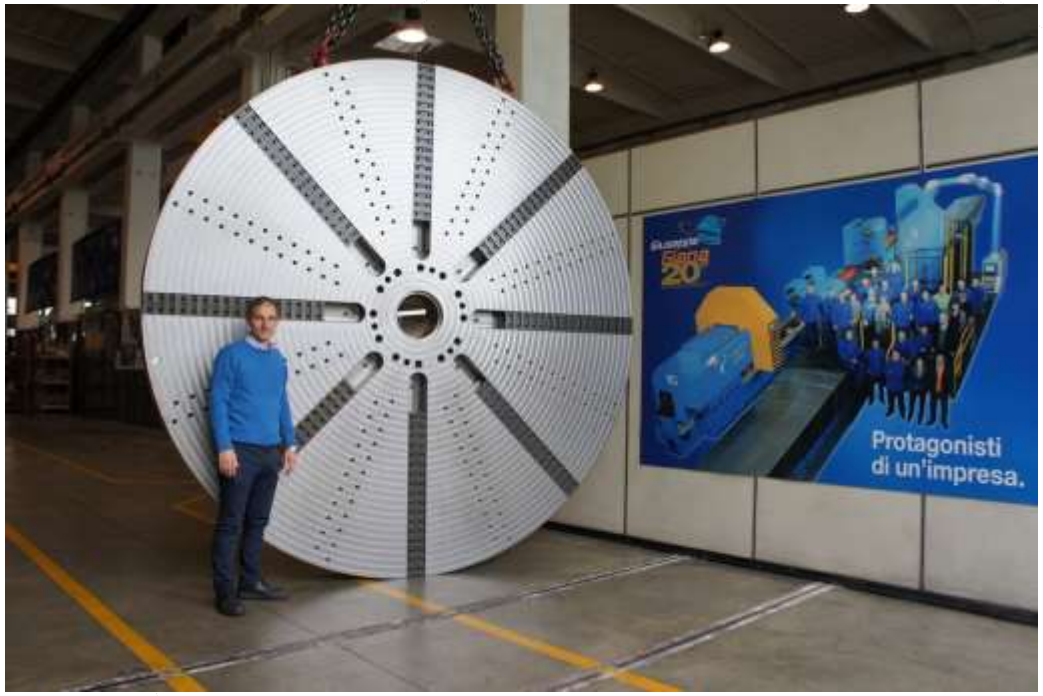
Head with four a.c. brushless motors

- Twin Drive Headstock
- The head structure is appropriately dimensioned with suitable ribs allowing for maximum rigidity and ensures chatter free operations.
- The spindle is made of steel forging, appropriately processed and machined with maximum accuracy and attention. The spindle is supported by precision bearings. The machine operates at constant cutting speed.
- The spindle drive rotation is obtained through the use of 4 A.C. Brushless motors with relative digital drives and 4 gear boxes directly assembled on the motors.
- The head is also equipped with a hydraulic disk brake for security, directly fixed on the backside of the spindle shaft and to keep in position the workpiece even if with completely de-balanced weight
- Power on each headstock for the roughing machine kW 292 – S1 with 250.000 Nm Torque

Customized Lathes



Giuseppe giana’S chuck



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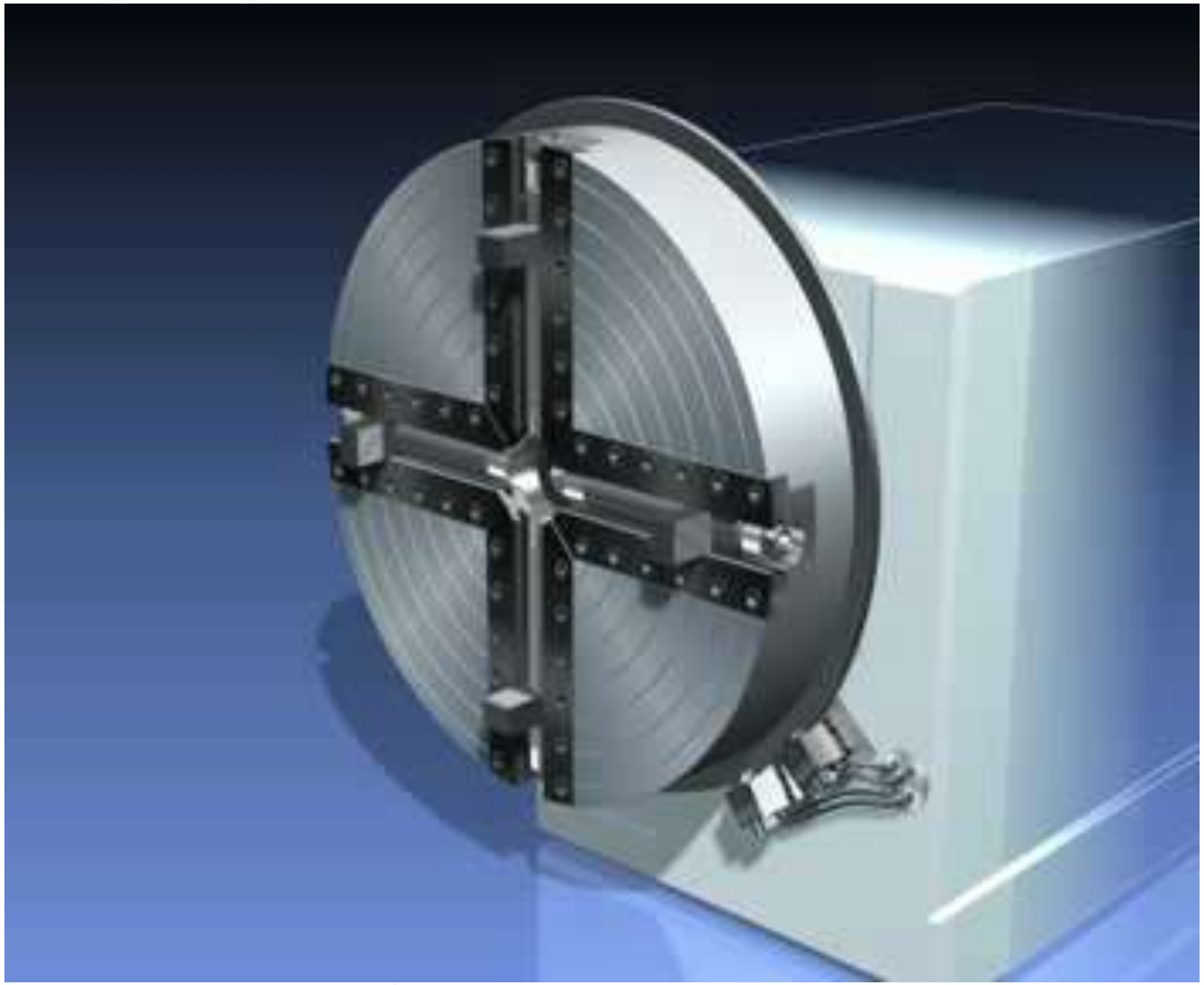

Giuseppe giana’S turrets

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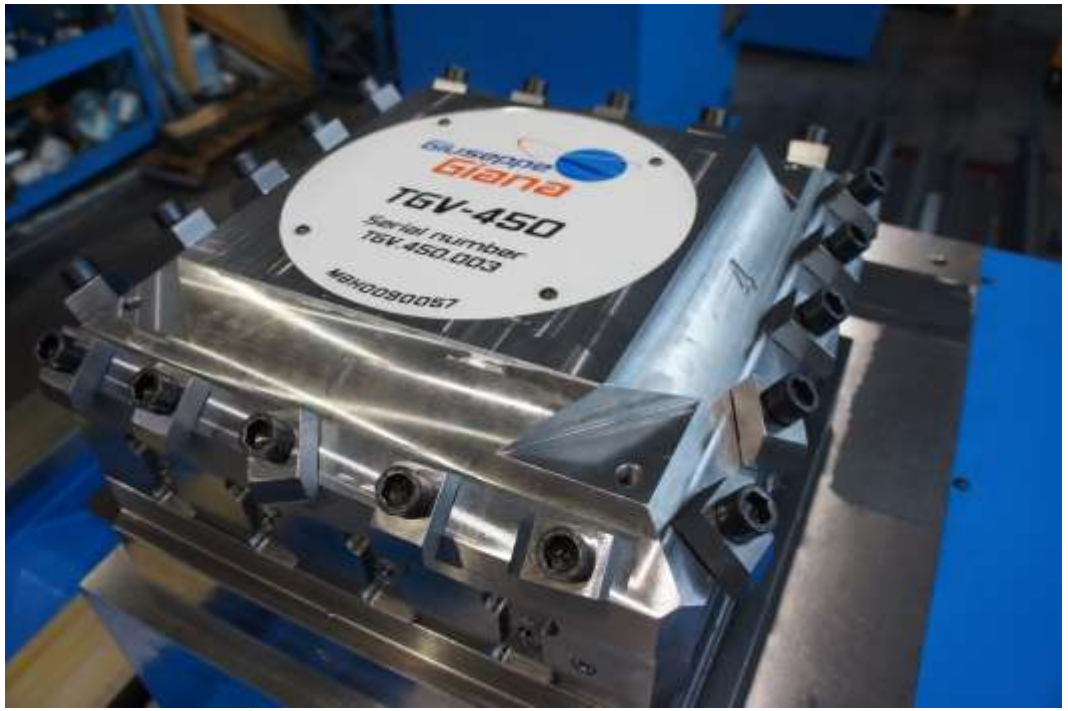

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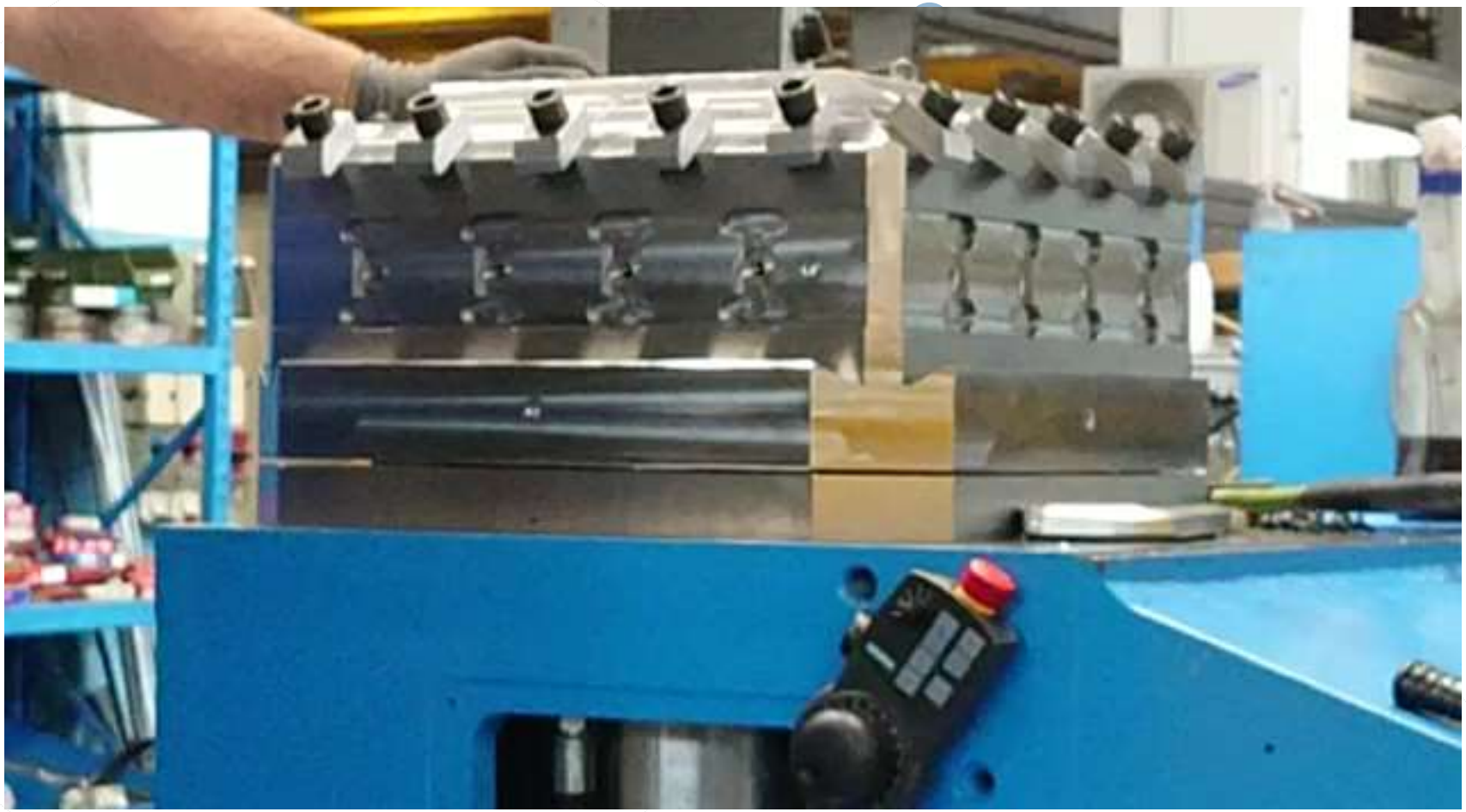


Giuseppe giana’S STEADY REST

Rolls machining

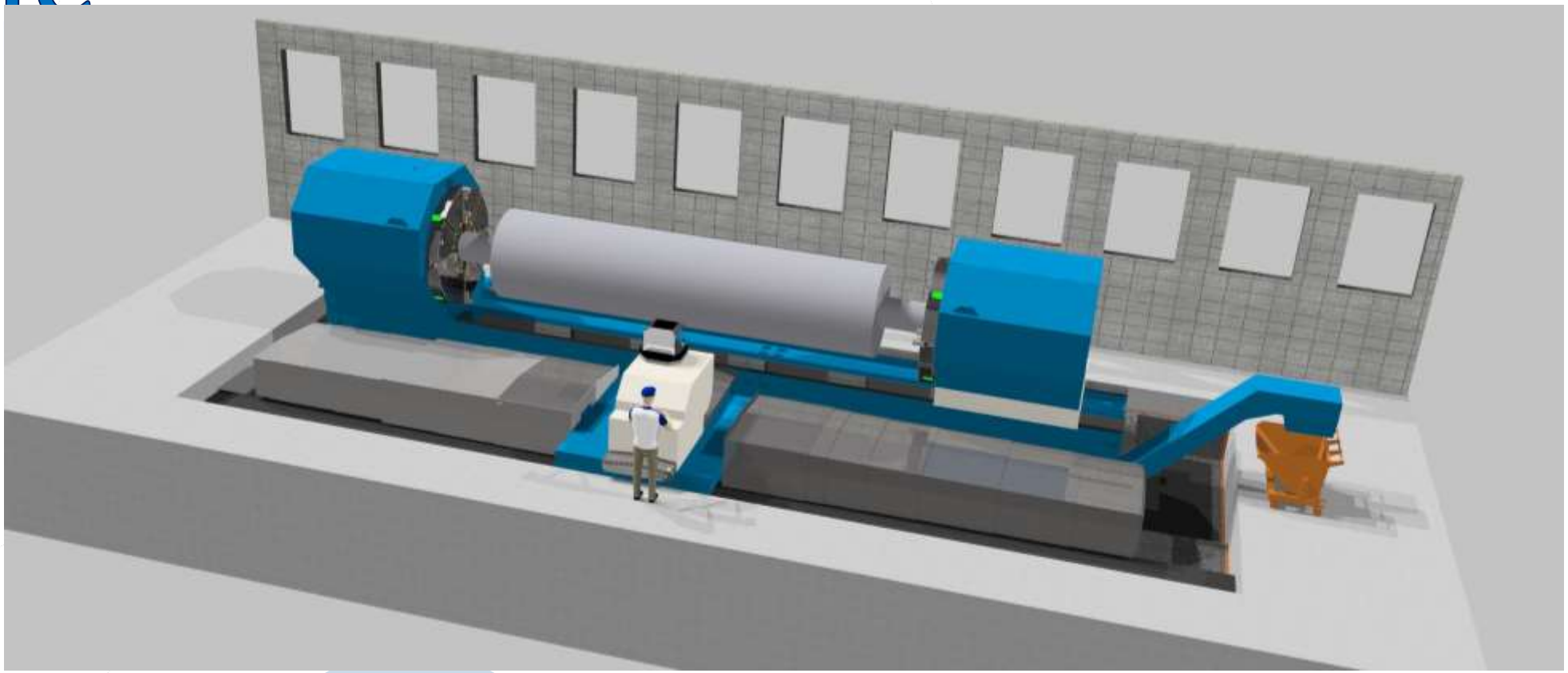
Rolls machining

TOOL'S CHANGE ROBOT

Cnc Siemens one

ergonomic

One of the peculiarities of this machining center resides in the fact that carriage is positioned “at eye level” and it is therefore very comfortable to control the workpiece, with uncommon ergonomic, permitting an attentive and punctual management of all clamping, positioning and dimensional measuring phases of the workpiece.



Customized Lathes

Why choose our GGTRONIC

The monobloc 3/4 bedway allows for the following advantages:

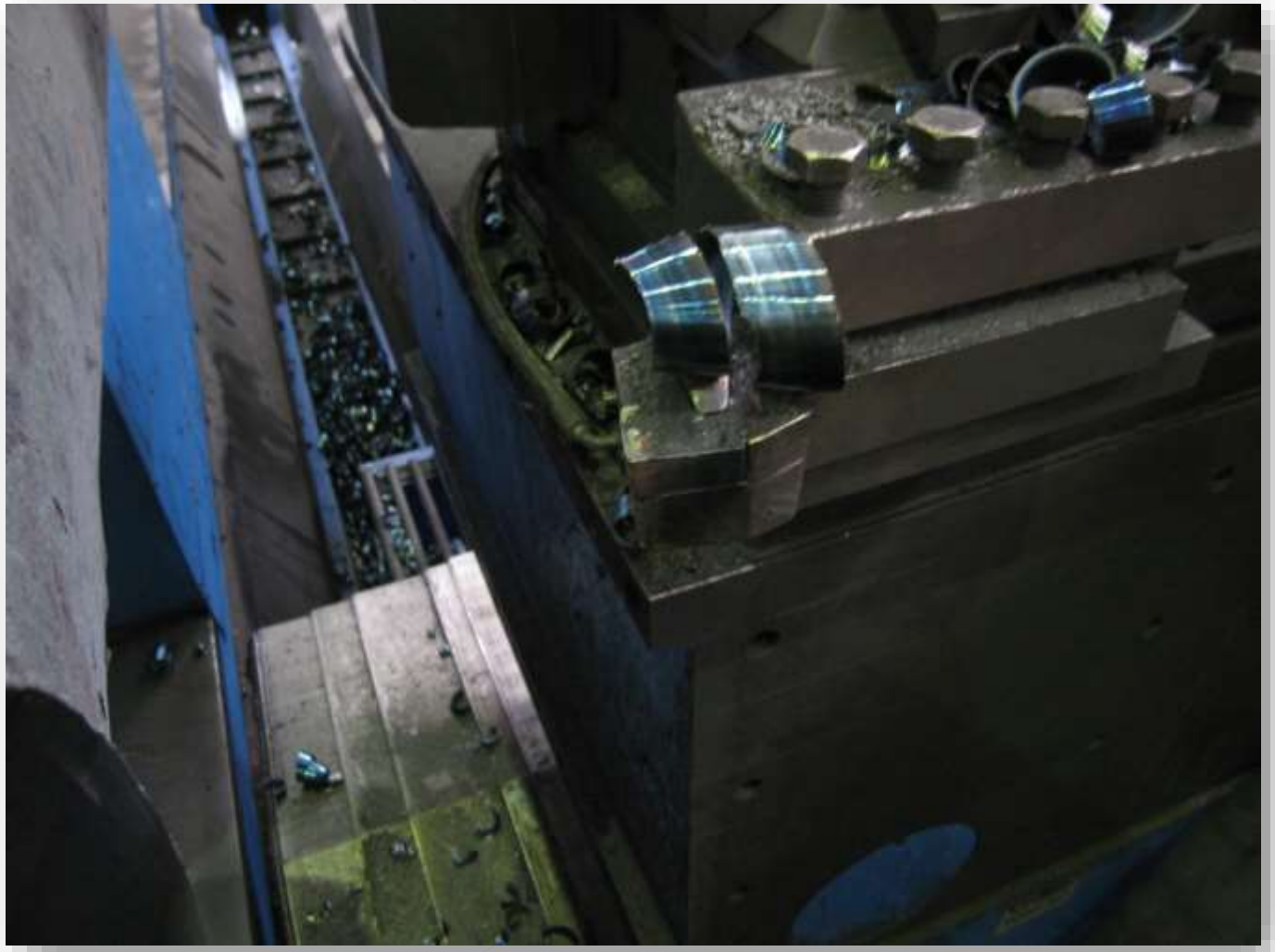
- Operator can stand directly on the machine carriage.
- Operator's position with the carriage also allows for when stopping and part measuring, allowing for easy reach inside of machine.
- Design allows for the operator to be closer to the workpiece for more control.
- Easier loading and unloading of workpiece.

Competitor’s machines:

- Operators tend to climb on the machine for setting of tools, part measuring, part control etc. – exhausting operation.
- Operators loose time and become less efficient throughout the day.

Rough Cut

Rough Cut



Eccentric Shaft

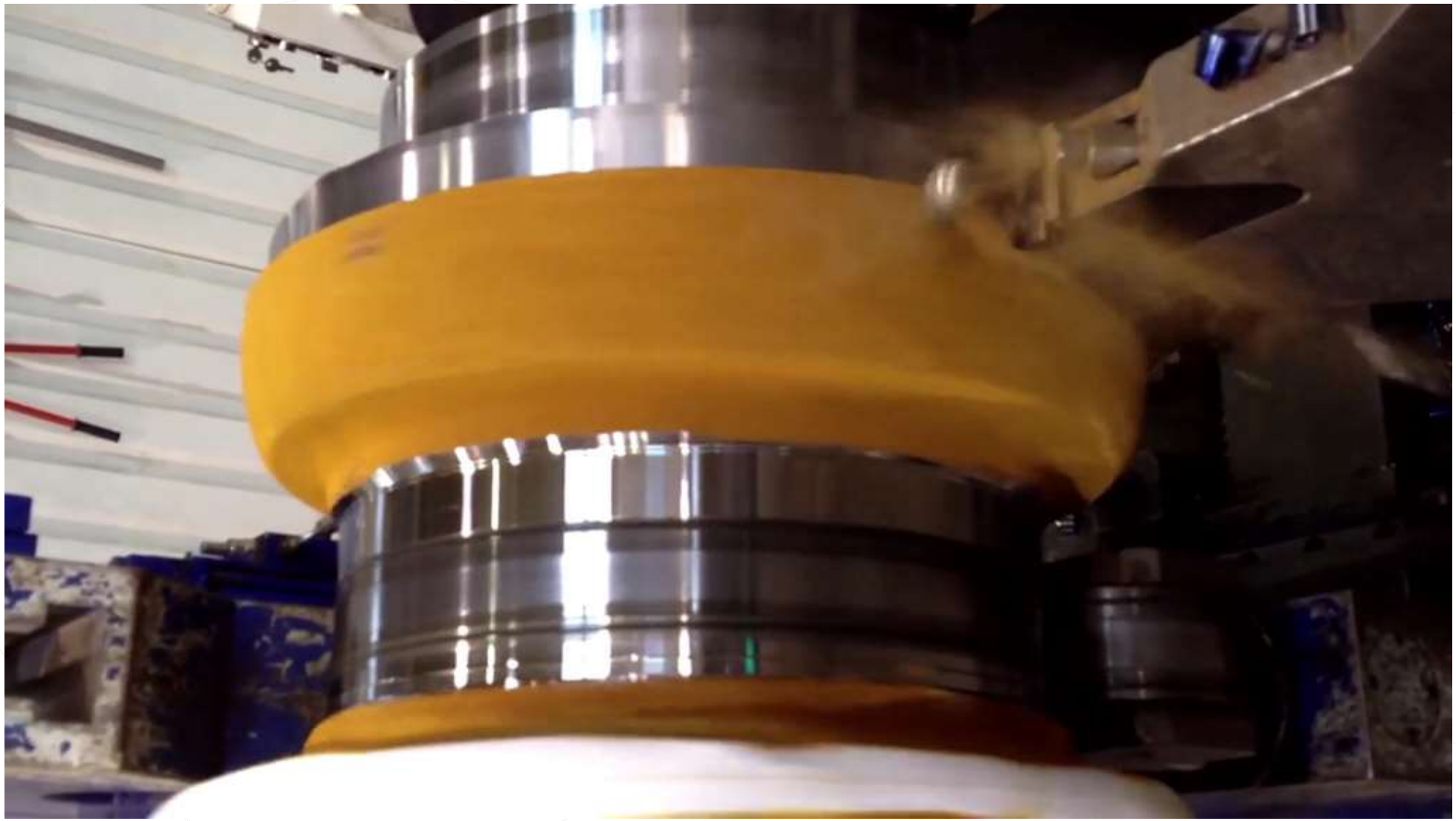
Milling Column

Customized Lathes

- Spindle motor Siemens Brushless	kW S1	51
- Speed Max	r.p.m.	2000
- Torque max at spindle	Nm	2500
- Spindle nose	ISO	50
- Capto C8		
- HSK 100		

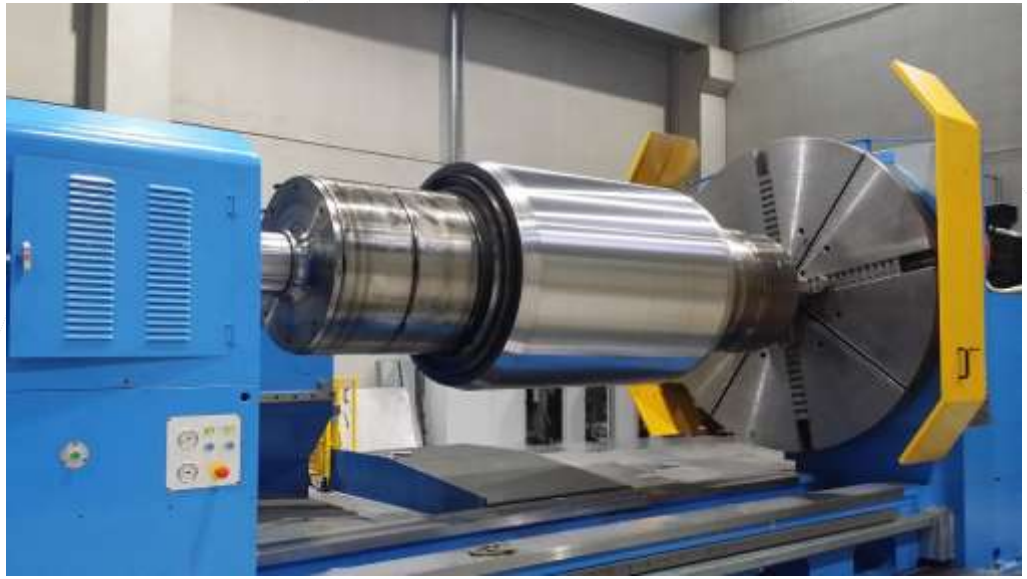
Grinding Unit

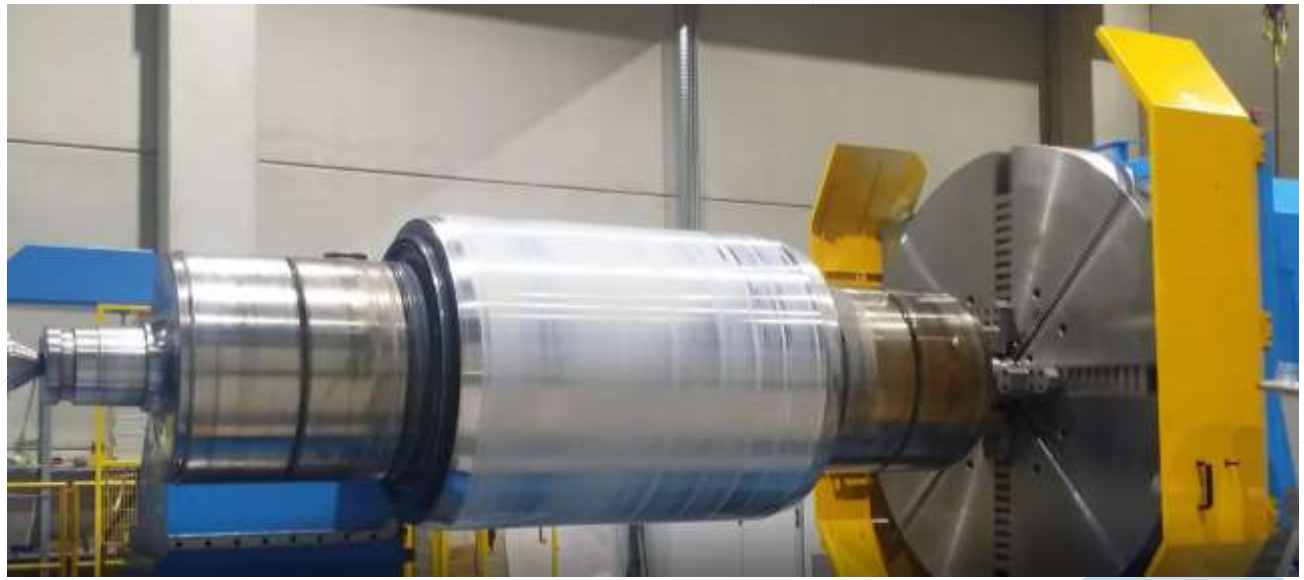
Customized Lathes



Steel Mills Rolls … Before

Steel Mills Rolls … After





Customized Lathes

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SOME OF OUR REFERENCES

OIL&GAS	FORGES	MORE…	…and MORE
New Era Tool & Die (Canada)	Manoir Industries (France)	Fundidora Tepeyac (Mexico)	Danieli (Italy)
Xaloy (USA)	Union Iron & Steel (U.A.E.)	Dunlop Aviation (Australia)	BHEL LTD (India)
Lincoln Machinings (USA)	Franchini Acciai Italy	Sandretto Industrie (Italy)	SMS Siemag (India)
Schlumberger Oilfield Eq. (China)	Celsa Huta (Poland)	Universitat Dortmund (Germany)	Frisa Forjados (Mexico)
Tenaris (Italy)	Leo Primecomp (India)	Boltex Manufacturing (USA)	Nordmark (Denmark)
Schoeller Blackmann Oilfield Eq. (Vientnam)	Sonasid (Marocco)	D&D Custom Steel Products (Canada)	Gostaresh Steel Industries (Iran)
Darron Oil Tools (UK)	Fundidora de Aceros (Mexico)	Naval Group (France)	Accucut Machining Ltd (Canada)
Exa International (Russia)	Dost Steel (Pakistan)	Scana Steel (Sweden)	T.T.N. spa (Italy)

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Thank You!

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