

EXPERT'S PRIDE

HORIZONTAL LATHES



GEMINIS
MAHER HOLDING

GEMINIS

WE FOCUS ON THE
USER'S EXPERIENCE

We are leaders in the development of horizontal and multi-process lathes.

Under the name of **GEMINIS** and as a leading brand with more than 60 years experience and acknowledged prestige, we develop horizontal and multi-process lathes with cutting-edge technology.



ROBUST/SOLID TECHNOLOGY

Our machines are built on a structure that makes them extraordinarily rigid, providing reliability, maximum machining precision and accuracy, and a long-term guarantee. We have the most robust machine bed on the market.

MAHER HOLDING, EXPERTS IN CREATING SOLUTIONS

GEMINIS forms part of **MAHER HOLDING**, an industrial group comprised of machine-tool specialist companies, which provides a portfolio of machining solutions geared towards the industry's complex needs.

Solutions based on a robust and tested user-centred technology, due to its ease of use and flexibility.

MAHER HOLDING

To learn more about **MAHER HOLDING**, **GEMINIS** and subsidiary companies, visit www.maherholding.es

With the **GEMINIS** line of horizontal lathes we offer customized and specialized technological solutions for the most demanding industrial applications.

MULTI-PROCESS

Competitive solutions for complex high-added value components that can be machined from start to finish.

- Productivity improvements.
- Saved time.
- Incorporation of different devices.
- Adaptability.
- Configurability.

QUALITY

Guaranteed solutions.

- Reliability.
- Precision.
- Robustness.
- Eco-design.

USABILITY

Solutions based on tested technology, with the user in mind.

- Cleanliness.
- Order.
- Design and ergonomics.
- Industry 4.0
- Easy maintenance.
- User-friendly work environment.

SPECIALIZATION

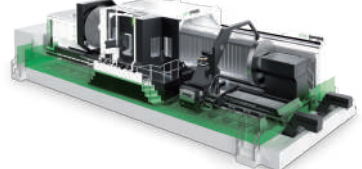
Solutions for configurations and R&D projects with the client.

- References.
- Experience.
- Service.
- Machining cycles.
- Accuracy.

GTi Range

of horizontal lathes:

GT5i | GT7i | GT9i | GT11i



GTi

RANGE



ADVANTAGES

A range with greater rigidity, clean, tidy and ergonomic workplace, as well as machine customization options.

The applications engineering enables new functionalities such as smart tailstock, temperature compensation models or the **SMART MANUFACTURING** application option.

WHAT ALSO SETS US APART:

- Our 4-range headstocks.
- Greater chip removal capacity.
- Modular design.
- Improved finishing capabilities.
- Integration of latest-generation multi-process accessories.
- Greater ergonomics.

GTi Range CARRIAGES:

- Bigger and more rigid saddle.
- Less exposed to cutting fluid and chips.
- Directly driven cross slide.
- Improved drive system with double rack-pinion and two motors (master/slave) with electronic pre-load.
- Fully protected cabling.

GTi Range CHIP REMOVAL:

- At the front.
- Less chip accumulation.
- Thermal and dimensional stability of the bed.
- Greater cleanliness.
- Cable channel not exposed to chips.
- Double chip conveyor.

THE RESEARCH THAT MAKE US BETTER

10 years studying our machines combined with our customers' needs have resulted in the new **GTi range**.

ONLY IN GT9i-GT11i LATHES

- Work platform with safe zone.
- The operator moves with the work area.
- Easy access to the machine, with more height.
- Good visualization.



GTi HEADSTOCK:

Range

- Better headstocks: **C Axis**.
- Larger bearing \varnothing .
- Larger shaft.
- Better clamping.
- Greater positioning accuracy and precision.
- Twin Drive: extra accuracy and precisión in milling.

GTi STRUCTURAL BODIES:

Range

- Design optimization by means of finite element calculation.
- Better-dimensioned bodies.
- 20% more rigid than before.

GTi LATHE DRIVE:

Range

- Better dynamics and higher precision and accuracy.
- Optimised and redesigned kinematic chain.
- Better locking.

GTi BED:

Range

- Rib optimization.
- Additional guide to provide better support.
- Lower height for improved ergonomics.
- Greater rigidity.

GTi TAILSTOCK:

Range

- Better mass distribution: Better tolerance.
- Greater rigidity.
- Smart tailstock option.

GTi FAIRING:

Range

- Enhanced lighting.
- Door collisions are avoided.
- Added window for better view of the work area.
- Window to view the maintenance zone.
- More comfortable.
- Better leak tightness.

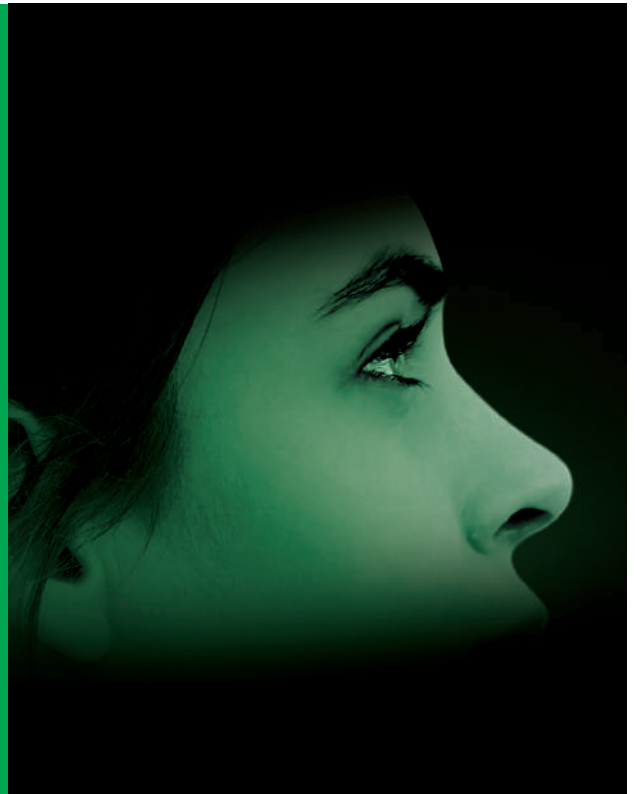
ECO-DESIGN

AT GEMINIS WE DESIGN AND DEVELOP OUR LATHES ACCORDING TO ECO-DESIGN PARAMETERS

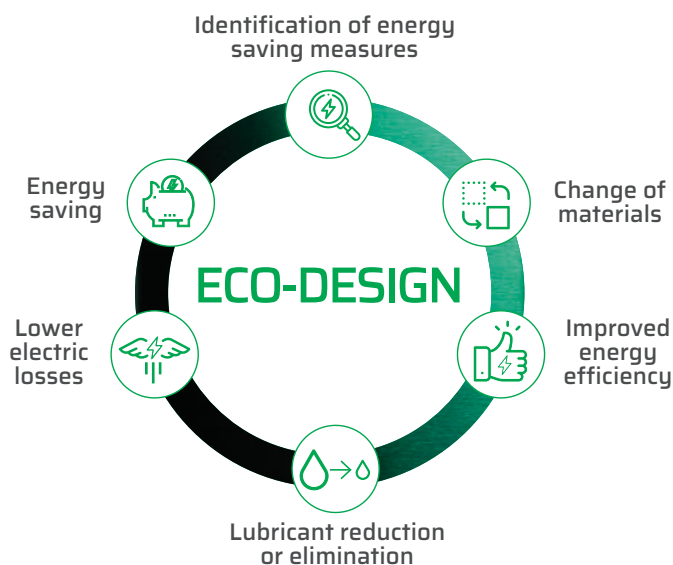
Eco-design, a differentiating factor in the design of machining lathes

Our aim:

to reduce environmental impacts in all phases of the machines' life cycle. We make machines that are more respectful of the environment.



Applying eco-design to the manufacture of machining lathes enables:



Many aspects must be taken into account when making lathes to ensure that our machines are the lathes that most respect the environment.

- Toxicity.
- Internal management.
- Structure.
- Consumption during service life.
- Customer service.
- Long-lasting products.
- Materials and finishes.
- Identification.
- Material hygiene.
- Joints.

GEMINIS Eco-design Management System

At **GEMINIS** we don't say it; we do it. Our Eco-design Management System is certified according to standard ISO 14006:2011, assuring identification, control and continual improvement through the design of environmental aspects of products and services.

GEMINIS identifies, controls and constantly improves the environmental aspects of its products and/or services throughout their service life and aims to reduce and continually improve their environmental impacts.

Numerous environmental improvements are applied to **GEMINIS** products, resulting in the following benefits:

- Noise reduction.
- Better use of lubricants and coolants.
- Possibility of multi-process machining.
- Improved chip recycling.
- Less consumption/energy saving.
- Lower cycle times.
- Improved energy performance.
- Less heat generation.
- Less maintenance.
- Remote servicing to resolve minor problems.
- Feed control.
- Elimination of downtime for cleaning.
- No use of paints with toxic components and reduced use of solvents.



ORDER AND CLEANLINESS AND CHIP REMOVAL

THE BEST SOLUTIONS FOR REMOVAL AND MANAGEMENT OF SWarf AND COOLANT

Easy-to-clean lathes are
safe lathes.

CHIP CONVEYOR

CHIP EVACUATION

- Frontal chip conveyor.
- Removes from the working area main part of the chips.
- Optional back chip conveyor.
- Removes the chips from the back side of the bed.
- High machining accuracy.

BACK DOOR

STAINLESS STEEL

- Inner in stainless steel.
- Clean working space.
- High machine durability.
- Improvement in the image of the workshop.

ENCLOSURE

LEAKTIGHTNESS

- Full enclosure option.
- Prevents from chip or coolant splashes out of the machine.
- Great cleanliness in the work environment.

| Chip Conveyor.



| Bed Design.



| Chuck Protection.

BED

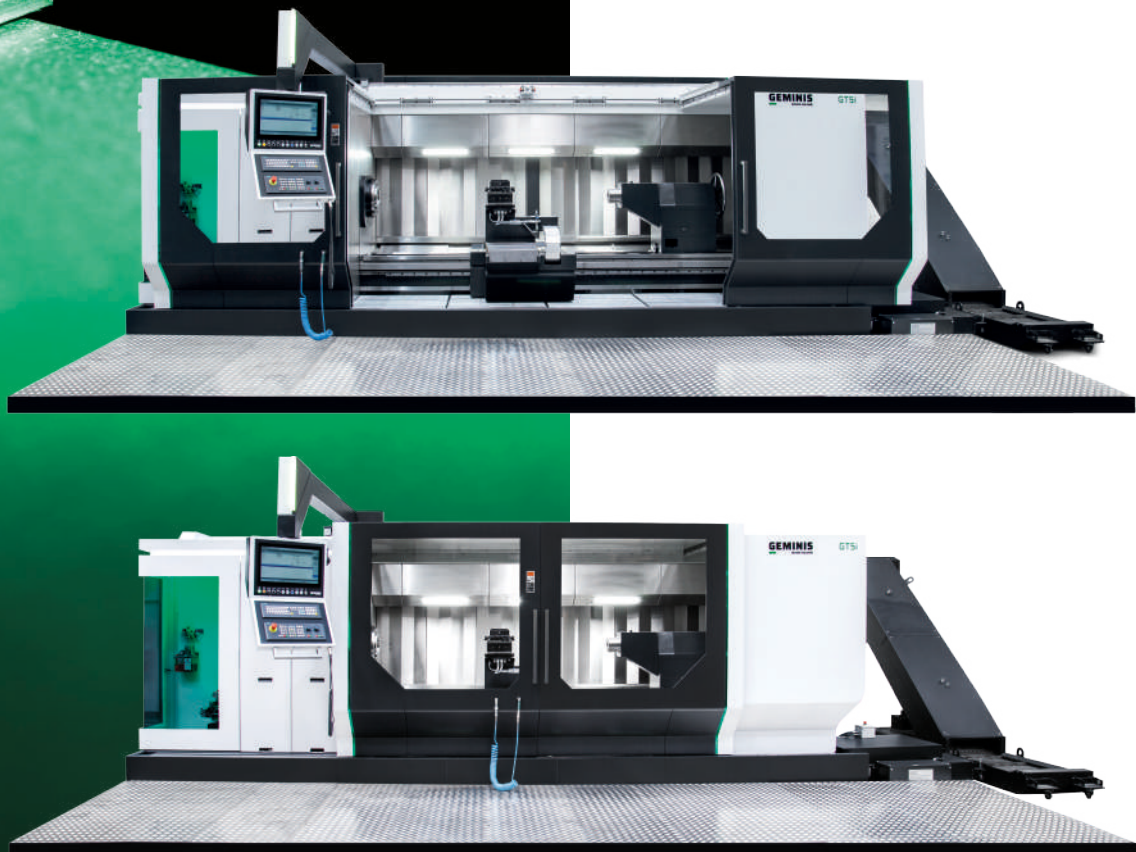
CHIP CHANNELING

- Chip evacuation angle.
- Avoids bed dilatations due to chip accumulation.
- High machining accuracy.

FRONT DOOR

CHIP CHANNELING

- Internal design for chip evacuation.
- Prevents from chip accumulation in the front side.



! Full enclosure.

CHUCK PROTECTION

CHIP CHANNELING

- Internal design for chip evacuation.
- Prevents from chip or coolant splashes out of the machine.
- Great cleanliness in the work environment.

INTERIOR

TOTAL PROTECTION

- Cable chain.
- Cabling completely protected.
- High machine durability.
- High machine availability.
- Inner in stainless steel.

LED LIGHTING

BRIGHT INSIDE

- Illuminated working area.
- High security for the machine operator.

CARRIAGE

TOTAL PROTECTION

- Protected scale.
- Avoids contact with the coolant or the chips.
- High machine availability.

DESIGN, ERGONOMICS FOR A USER-FRIENDLY ENVIRONMENT

LATHES DESIGNED WITH OCCUPATIONAL SAFETY IN MIND

The ergonomic study behind our lathes creates user-friendly work environments.

BACK DOOR

EASY ACCESS

- Openable back doors.
- Easy access to the back side of the parts or accessories.
- High security for the machine operator.

PLATFORM

COMFORTABLE WORK AREA

- Optional elevated working platform.
- Delimited working area around the machine.
- Great cleanliness in the work environment.
- Allows the access to the machine.
- Enhanced ergonomics for the operator.

BED

EASY ACCESS

- Low bed height.
- Easy access to machining part.
- Higher security for the machine operator.
- Easy access to machining tools.
- Fast tool change.

DOORS

FRONT DOOR AND CHUCK PROTECTION

- Protection doors with wide transparent area.
- Enables to control safely the working area of the tools.
- High security for the machine operator.

CHIP CONVEYOR

WALKABLE SURFACE

- Wide walkable grid over chip conveyor.
- Comfortable working area.
- High security for the machine operator.

| Bed Design.



| Carriage.



| Operator's platform.

CONTROL

MACHINE INTERFACE

- 22" touch-screen.
- Better display of machine parameters.
- Enhanced ergonomics for the operator.
- HMI Human Machine Interface.
- Easy display of main machine parameters.
- Better machine management.

CARRIAGE

COMFORTABLE WORK AREA

- Walkable platform.
- Easy access to the part.
- High security for the machine operator.
- GT9i / GT11i lathes:
Work platform with safe zone.
The worker moves with the work area.



EASY MAINTENANCE

WE ADD THE
ADVANTAGES
DEVELOPED FOR
CLEANING AND
ERGONOMICS TO MAKE
OUR LATHES THE
EASIEST TO MAINTAIN

Maintenance tasks become easier,
improving users' quality of life.

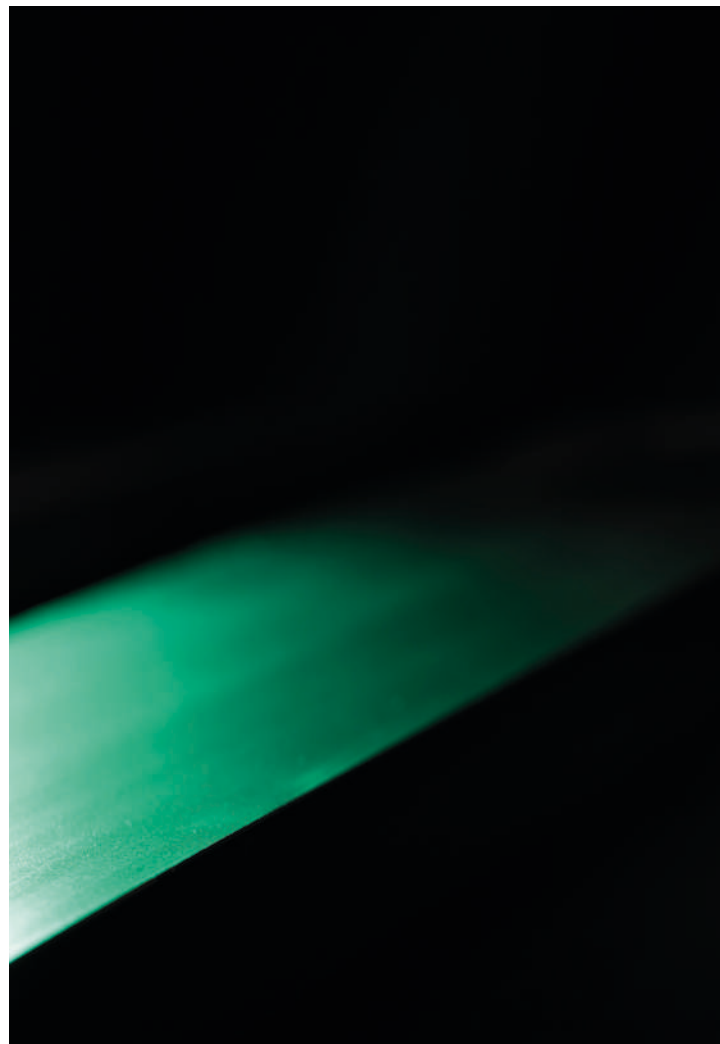
MAINTENANCE

MAINTENANCE AREA

- Transparent maintenance area door.
- Direct visual control.
- Easy access to maintenance area.
- Easy access to pneumatic and hydraulic components.
- Centralised lubrication system.
- Fast maintenance operations.

HEADSTOCK MAINTENANCE AREA

- Removable panels.
- Easy access to headstock maintenance.
- Fast maintenance operations.



INDUSTRIAL SECTORS

THESE ARE OUR BEST REASONS

We are recognized as partners of lead clients in sectors such as steel, power generation, railways, oil & gas, shipbuilding, defense and pulp & paper.

- We design and make the most robust bed on the market.
- Our solutions are guaranteed for the long term and are extraordinarily reliable.
- The engineering department offers manufacturing solutions to the client, who we advise regarding every need.
- We develop R&D projects with the end-customer and provide long-term accompaniment.

**OUR CUSTOMERS
ARE OUR BEST
GUARANTEE.**



STEEL MANUFACTURING

- Machining of rolling rolls for profile and sheet production.

Siemens Vai / Danieli / SMS Meer /
Tata Steel / Arcelor Mittal / Vallourec /
S+C / BGH / Gerdau / US Steel.

POWER GENERATION

- Turbine rotors.
- Multiplier gearboxes.
- Low speed shaft of wind generators.

Siemens / Alstom / General Electric /
BHEL / TGM Turbinas / Alfa Laval /
Rolls Royce / Gamesa / Acciona /
Ecotecnía.



RAILWAYS

- Axles.
- Wheels.
- Wheelsets.

-
Alstom / Ansaldo - Hitachi / CAF /
Renfe / Euskotren / Talgo / SNCF /
Cofmow - Indian / Railways /
TMR Vernayaz / Railtech.

OIL&GAS

- Pipes and coupling for extraction.
- Extraction machine components - offshore and onshore.

-
FMC Technologies / Aker Solutions /
General Electric / Cameron / Vetco Gray /
Tenaris Tamsa / Oss-Nor / Venture Gulf /
Sino Gulf / Saudi Aramco /
Delta Corporation.

NAVAL

- Propeller shafts.

-
Navantia / Hakkinen / Baliño /
Saudi Aramco Maritime Yard.

DEFENSE

- Cannon barrels.

-
US Navy / US Coast Guard
HSW / General Atomics /
General Dynamics / FGK.

PULP&PAPER

- Paper machine rollers.
- Drums.
- Pope reels.

GENERAL MACHINING

- Hydraulic cylinders.
- Extrusion spindles.
- Valves.
- Crane drums.
- Shakers.
- Public works.
- Forged and cast components.
- etc.

GT5i

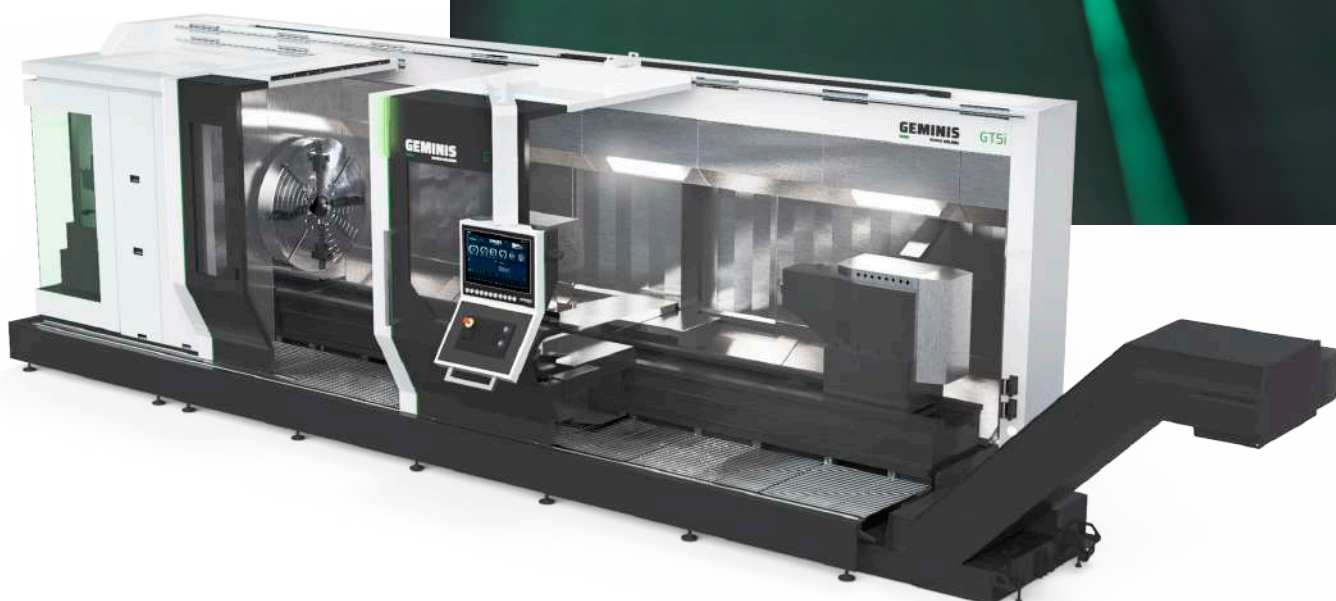
Swing over bed
Swing over carriage
Max weight between centers

GT5i G2

1.000/1.200/1.400 (mm)
650/850/1.050 (mm)
6.000-12.000 (kg)

GT5i G4

1.000/1.200/1.400 (mm)
700/900/1.100 (mm)
6.000-12.000 (kg)



MEDIUM HEAVY SERIES

GT5i G2

GT5i G4

CAPACITY	Swing over bed (mm)	1000/1200/1400			1000/1200/1400		
	Swing over carriage (mm)	650/850/1050			700/900/1100		
TAILSTOCK	Quill diameter (mm)	160/220			160/220		
	Max weight between centers (kg)	6000 - 12000			6000 - 12000		
HEADSTOCK	Main motor (S1-100%/S6-40%) (kW)	30/45	37/55,5	51/78	30/45	37/55,5	51/78
	Torque (S1-100%/S6-40%) (Nm)	6400/9500	7800/11800	15000/21600	6400/9500	7800/11800	14000/21600
	Speed range (rpm)	0 - 1400	0 - 1400	0 - 800	0 - 1400	0 - 1400	0 - 800
	Ø bar through (mm)	130		162	130		162
	Ø headstock bearing (mm)	190		240	190		240
CARRIAGES	Z-axis travel (m)	1...24			1...24		
	X-axis travel (mm)	700			700		
	Z-axis speed (m/min)	10			10		
	X-axis speed (m/min)	8			8		
	Forward force Fz DPC (S1-100%/S3-40%) (N)	26000/34000		36000/43000	26000/34000		36000/43000
	Forward force Fx (S1-100%/S3-40%) (N)	15000/21000		22000/30000	15000/21000		22000/30000
BED	Bed guide width (mm)	655			1000		
	Bed height (mm)	650			700		

GT7i

Swing over bed
 Swing over carriage
 Max weight between centers

GT7i G2

1.600/1.800/2.000 (mm)
 1.200/1.400/1.600 (mm)
 12.000-25.000 (kg)

GT7i G4

1.600/1.800/2.000 (mm)
 1.300/1.500/1.700 (mm)
 12.000-25.000 (kg)



MEDIUM HEAVY SERIES

GT7i G2

GT7i G4

CAPACITY	Swing over bed (mm)	1600/1800/2000			1600/1800/2000		
	Swing over carriage (mm)	1200/1400/1600			1300/1500/1700		
TAILSTOCK	Quill diameter (mm)	220/320			220/320		
	Max weight between centers (kg)	12000 - 25000			12000 - 25000		
HEADSTOCK	Main motor (S1-100%/S6-40%) (kW)	51/78	74/111	95/140	51/78	74/111	95/140
	Torque (S1-100%/S6-40%) (Nm)	15000/21600	28000/44000	36000/56000	15000/21600	28000/44000	36000/56000
	Speed range (rpm)	0 - 800	0 - 800	0 - 700	0 - 800	0 - 800	0 - 700
	Ø bar through (mm)	162		150	162		150
	Ø headstock bearing (mm)	240		260	240		260
CARRIAGES	Z-axis travel (m)	1...24			1...24		
	X-axis travel (mm)	900			900		
	Z-axis speed (m/min)	10			10		
	X-axis speed (m/min)	8			8		
	Forward force Fz DPC (S1-100%/S3-40%) (N)	36000/43000	43800/59000		36000/43000	43800/59000	
	Forward force Fx (S1-100%/S3-40%) (N)	23500/31400	33000/47000		23500/31400	33000/47000	
BED	Bed guide width (mm)	905			1250		
	Bed height (mm)	800			830		

GT9i

Swing over bed
Swing over carriage
Max weight between centers

GT9i G2

2.000/2.200/2.400/2.600 (mm)
 1.600/1.800/2.000/2.200 (mm)
 25.000-60.000 (kg)

GT9i G4

2.000/2.200/2.400/2.600 (mm)
 1.700/1.900/2.100/2.300 (mm)
 25.000-60.000 (kg)



ONLY IN GT9i-GT11i

- Work platform with safe zone.
- The worker moves with the work area.
- Easy access to the machine, with more height.
- Good view.
- Easy chip collection.
- More comfortable cleaning.

HEAVY SERIES

GT9i G2

GT9i G4

CAPACITY	Swing over bed (mm)	2000/2200/2400/2600	2000/2200/2400/2600
	Swing over carriage (mm)	1600/1800/2000/2200	1700/1900/2100/2300
TAILSTOCK	Quill diameter (mm)	320 - 450 - 520	320 - 450 - 520
	Max weight between centers (kg)	25000 - 60000	25000 - 60000
HEADSTOCK	Main motor (S1-100%/S6-40%) (kW)	95/140 - 150/221	95/140 - 150/221
	Torque (S1-100%/S6-40%) (Nm)	36000/56000 - 72000/106000	36000/56000 - 72000/106000
	Speed range (rpm)	0 - 700	0 - 700
	Ø bar through (mm)	150	150
	Ø headstock bearing (mm)	260 - 480	260 - 480
CARRIAGES	Z-axis travel (m)	1...24	1...24
	X-axis travel (mm)	1200	1200
	Z-axis speed (m/min)	10	10
	X-axis speed (m/min)	8	8
	Forward force Fz DPC (S1-100% /S3-40%) (N)	61500/81500 - 83000/115000	61500/81500 - 83000/115000
	Forward force Fx (S1-100%/S3-40%) (N)	52000/70500 - 65000/91100	52000/70500 - 65000/91100
BED	Bed guide width (mm)	1350	1750
	Bed height (mm)	650	680

GT11i

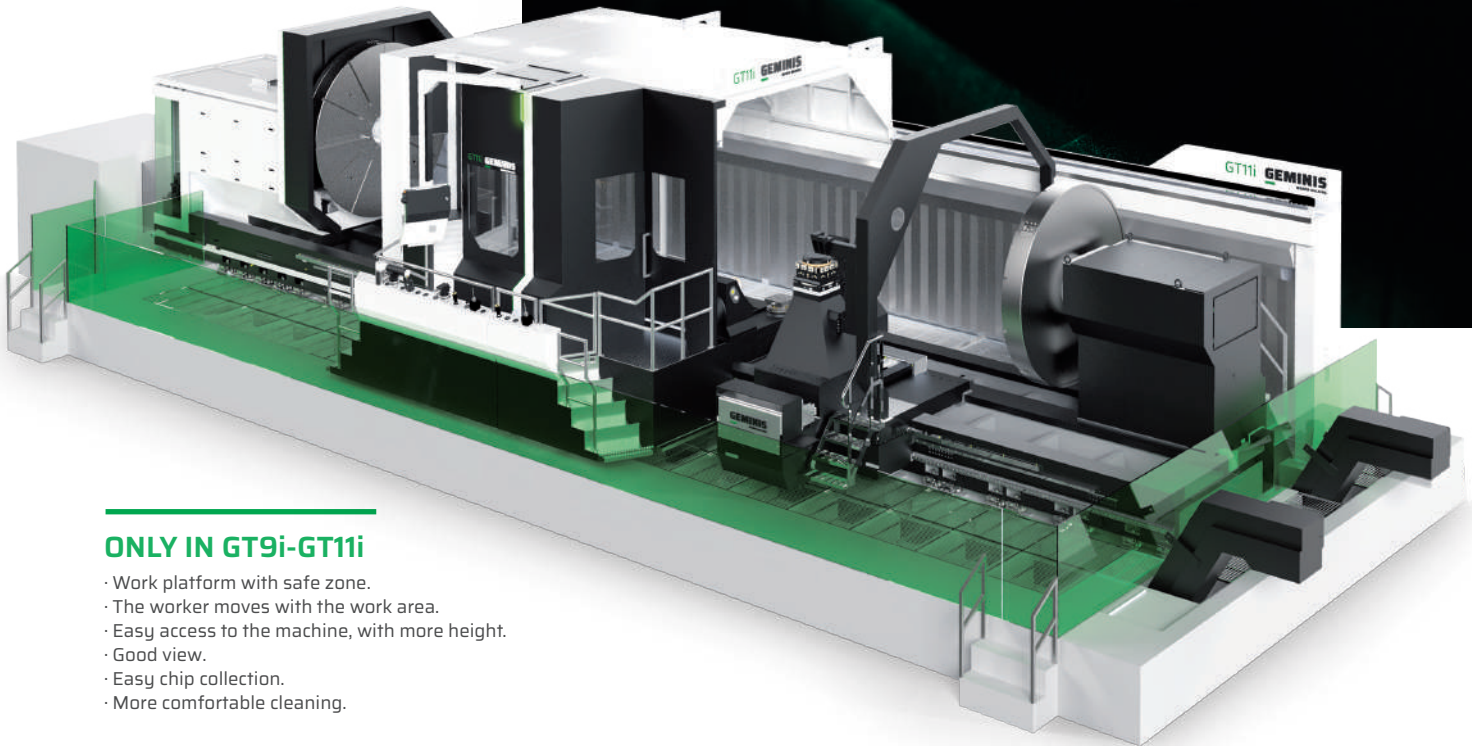
Swing over bed
Swing over carriage
Max weight between centers

GT11i G2

2.600/3.600 (mm)
 2.000/3.000 (mm)
 45.000-150.000 (kg)

GT11i G4

2.600/3.600 (mm)
 2.050/3.050 (mm)
 45.000-150.000 (kg)



ONLY IN GT9i-GT11i

- Work platform with safe zone.
- The worker moves with the work area.
- Easy access to the machine, with more height.
- Good view.
- Easy chip collection.
- More comfortable cleaning.

HEAVY SERIES

		GT11i G2	GT11i G4
CAPACITY	Swing over bed (mm)	2600 - 3600	2600 - 3600
	Swing over carriage (mm)	2000 - 3000	2050 - 3050
TAILSTOCK	Quill diameter (mm)	450 - 600	450 - 600
	Max weight between centers (kg)	45000 - 150000	45000 - 150000
HEADSTOCK	Main motor (S1-100%/S6-40%) (kW)	113/166 - 182/272	113/166 - 182/272
	Torque (S1-100%/S6-40%) (Nm)	54000/79500 - 87300/130500	54000/79500 - 87300/130500
	Speed range (rpm)	0 - 400	0 - 400
	Ø bar through (mm)	150	150
	Ø headstock bearing (mm)	400 - 520	400 - 520
CARRIAGES	Z-axis travel (m)	1...24	1...24
	X-axis travel (mm)	1400/1700	1400/1700
	Z-axis speed (m/min)	10	10
	X-axis speed (m/min)	8	8
	Forward force Fz DPC (S1-100% /S3-40%) (N)	83000/115000	83000/115000
	Forward force Fx (S1-100%/S3-40%) (N)	65000/91100	65000/91100
BED	Bed guide width (mm)	1850/2300	2250/2700
	Bed height (mm)	750	750

GTi RANGE

MEDIUM HEAVY SERIES

	GT5i G2			GT5i G4			GT7i G2			GT7i G4		
CAPACITY												
Swing over bed (mm)	1000/1200/1400			1000/1200/1400			1600/1800/2000			1600/1800/2000		
Swing over carriage (mm)	650/850/1050			700/900/1100			1200/1400/1600			1300/1500/1700		
TAILSTOCK												
Quill diameter (mm)	160/220			160/220			220/320			220/320		
Max weight between centers (kg)	6000 - 12000			6000 - 12000			12000 - 25000			12000 - 25000		
HEADSTOCK												
Main motor (S1-100%/S6-40%) (kW)	30/45	37/55,5	51/78	30/45	37/55,5	51/78	51/78	74/111	95/140	51/78	74/111	95/140

HEAVY SERIES

	GT9i G2	GT9i G4	GT11i G2	GT11i G4
CAPACITY				
Swing over bed (mm)	2000/2200/2400/2600	2000/2200/2400/2600	2600 - 3600	2600 - 3600
Swing over carriage (mm)	1600/1800/2000/2200	1700/1900/2100/2300	2000 - 3000	2050 - 3050
TAILSTOCK				
Quill diameter (mm)	320 - 450 - 520	320 - 450 - 520	450 - 600	450 - 600
Max weight between centers (kg)	25000 - 60000	25000 - 60000	45000 - 150000	45000 - 150000
HEADSTOCK				
Main motor (S1-100%/S6-40%) (kW)	95/140 - 150/221	95/140 - 150/221	113/166 - 182/272	113/166 - 182/272

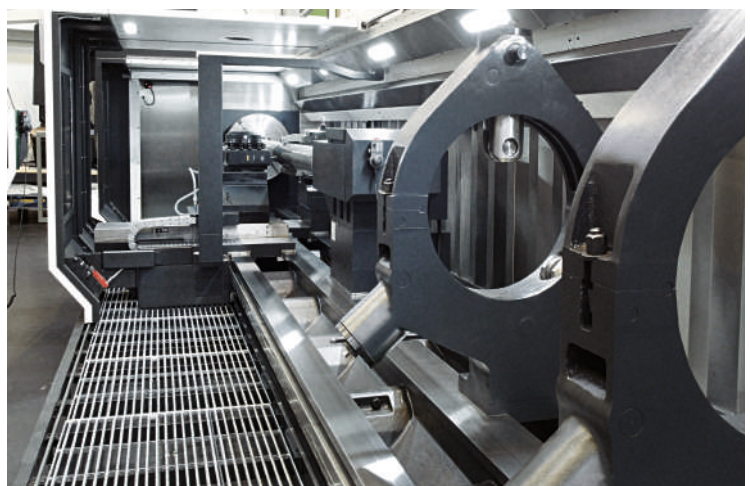
CLAMPING ACCESSORIES

The **GEMINIS** clamping accessories enable anchoring the parts and machining them safely, guaranteeing finish quality. Moreover, we have automated options which result in anchoring time reduction and improve our lathe availability.

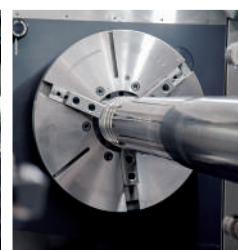
| Closed steady rest.



| Chuck.



| Hydraulic steady rest.



| Hydraulic clamping.



| Open steady rest.

CHUCKS

- Manual.
- Automatic: pneumatic or hydraulic.
- Smart Chuck.

TAILSTOCKS

- Manual.
- Motorised.
- Smart tailstock.

STEADIES

- Manual.
- Automatic: hydraulic or hydrostatic.

AUTOMATED LOADING / UNLOADING

- Machines prepared to be integrated into automated loading and unloading systems.
- Pre-placement of parts in the lathe.

MACHINING OPERATIONS

GEMINIS has an extensive catalogue of machining devices and solutions allowing for different finishing options in parts. Based on a horizontal lathe, a wide variety of tools and devices can be fitted to completely machine a part, pursuant to the most demanding quality requirements, and reducing exchange times.

TURRETS

- Manual.
- Square.
- Disc.
- Motorised.
- With movement on Y-axis.
- Live tooling

MILLING

- Light, on motorized turret.
- Milling column.
- Turning and milling column with automatic tool exchange and storage.
- Y and B axes machining options.

GRINDING

- Light on motorized turret.
- Grinding unit.
- Gap & Crash: closed loop.
- Specific **GEMINIS** cycles.

QUICK DEVICE EXCHANGE SYSTEM

- Improvement in machine OEE availability.
- Reduction of adjustment times.

BORING

- Light support on turret.
- On carriage.

POSITIONING

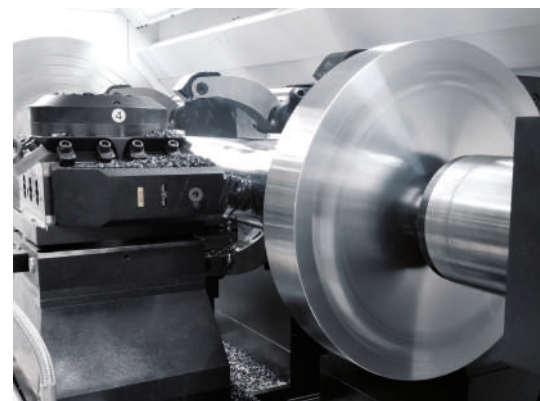
- C-axis.
- Twin Drive: multiplies the accuracy and precision of C-axis by 10.

FINISHING

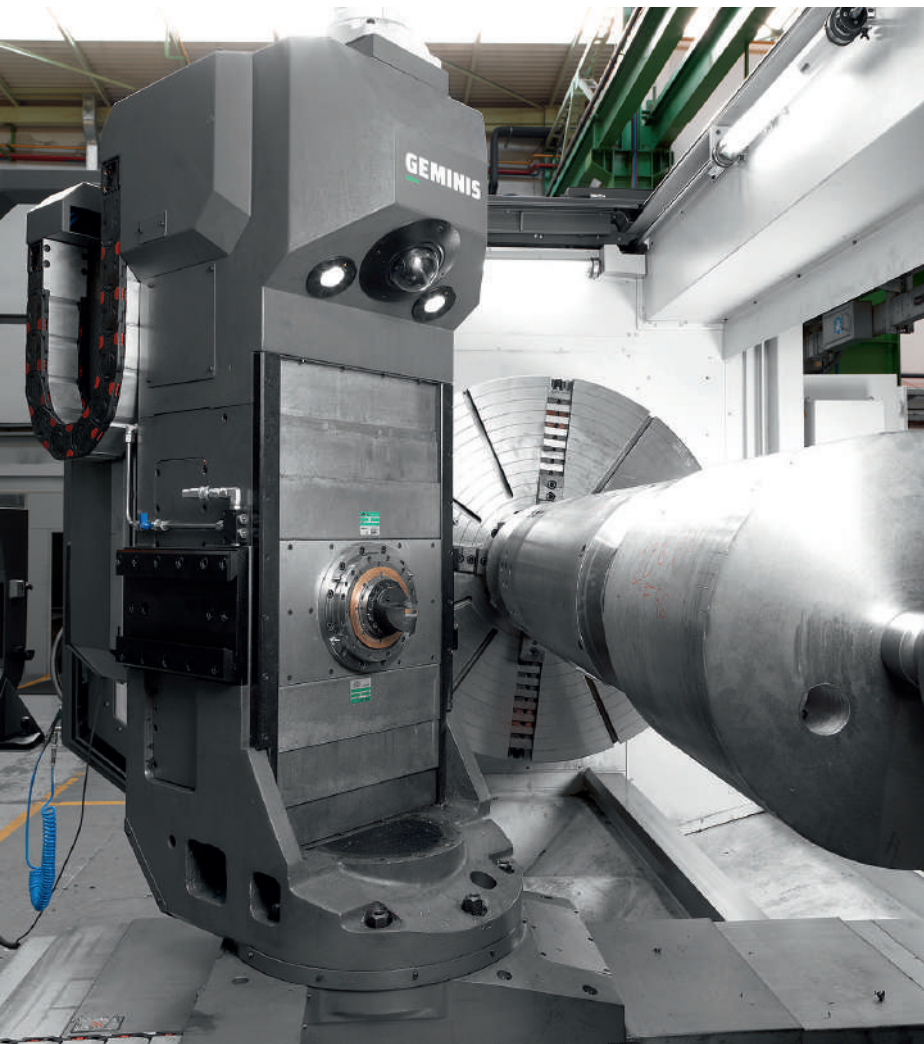
- Burnishing device.
- Polishing device.

MEASUREMENT ELEMENTS

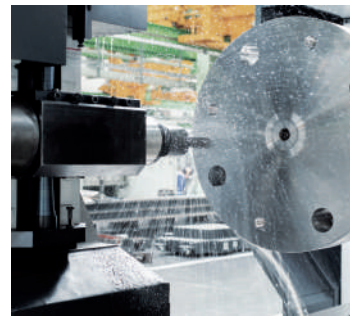
- Parts measurement.
- Tools measurement.



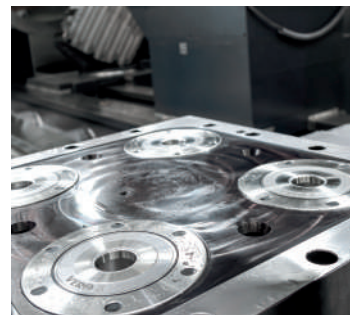
| Turning.



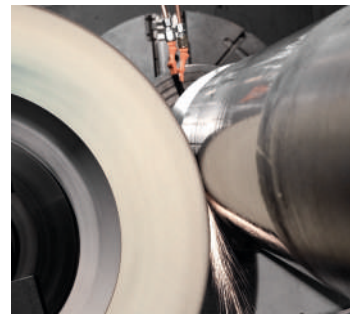
| Multiprocess column.



| Milling.



| Quick device exchange system.



| Grinding.

VALUES THAT WE CAN REACH IN MACHINING OPERATIONS:

TURNING:

- Ra 0.6 μm
- Runout 0.01 mm
- Dimensional tolerance IT 5

GRINDING:

- Ra 0.2 - 0.4 μm
- Runout 0.005 - 0.01 mm
- Dimensional tolerance IT 5



| Boring.

GEMINIS EXPERT SERVICES

THE PRODUCT IS THE CORE. THE SERVICE, TOO.

Our **EXPERT SERVICES** offer our customers the most complete package in a **THREE-FOLD** service.

ENGINEERING

We guide the customer in his purchase decision by making the machine that the customer needs.

Based on the customer's machining and productivity needs, our technical engineering and applications team develops the solution that best achieves the quality, availability and profitability goals required by our clients.

INSTALLATION AND START-UP

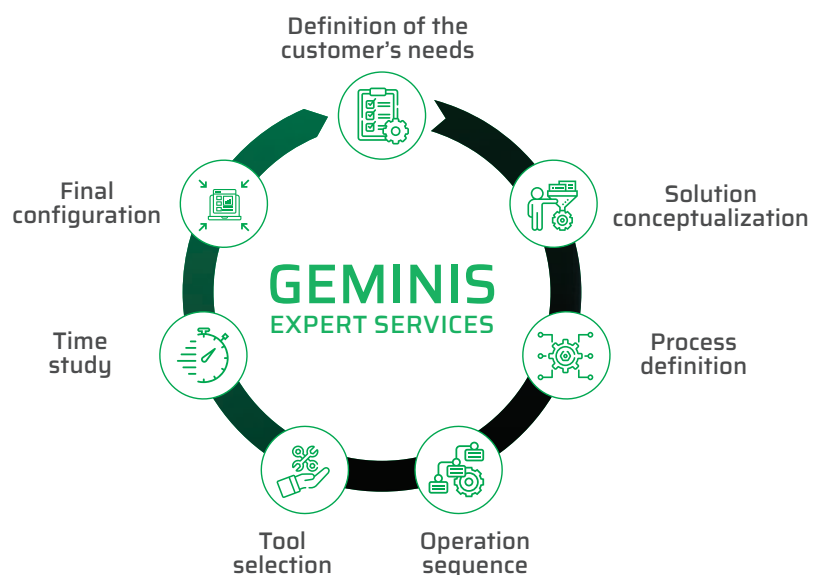
On-demand services to help start machine operation. From installation support to turnkey installation, including training of operators.



AFTER-SALE

Services for integral maintenance throughout the whole machine lifecycle.

1. Telephone advice service.
2. Remote assistance.
3. On-site repairs.
4. Spare parts.
5. Preventive maintenance: Finger Print.
6. Predictive maintenance: Smart Check. Integration of tools that permit predictive maintenance.
7. CAM integration and post-processors:
 - a_ Simulation systems.
 - b_ Collision detection.
8. Up-dating.



LEAN DIGITAL MANUFACTURING

AT **GEMINIS** WE DEVELOP
SOLUTIONS FOR SMART
FACTORIES.



OUR SMART MACHINES INTEGRATE INDUSTRY 4.0 SOLUTIONS

SMART HMI

Interface developed by **GEMINIS** for the integral management of all the Industry 4.0 solutions. Simple and user-friendly monitoring of main parameters, visualization of drawings, self-diagnosis cycles, integral tool management, integrated management plan.

SMART FACTORY

The best tool to know the state and performance of all your machinery pool, and increase their efficiency, quality and profitability.

Using smart sensors and with an interface developed by **GEMINIS**, we achieve the integral management of all the Industry 4.0 solutions, simplifying the planning process.

SMART APPS

We use smart sensors controlled by applications installed in our machines.

See the advantages
of our 4.0 tools at
geminislathes.com



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

Tel: (+34) 943 748 060 · Fax: (+34) 943 744 182
sales@geminislathes.com

www.geminislathes.com
www.maherholding.es



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Certification



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GEMHOREN1021