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 sudsidiary 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.

- **Cleanness.**
- **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

THE RESEARCH THAT MAKE US BETTER

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

1 GTi Range CARRIAGES:

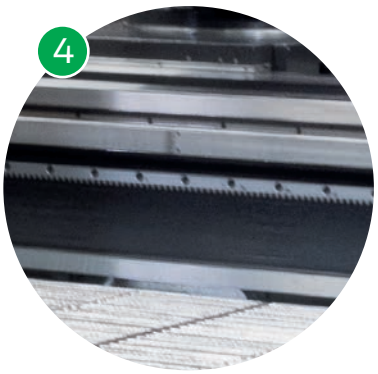
- Bigger and more rigid saddle.
- Less exposed to cutting fluid and chips.
- Directly driven cross slide.
- Improved drive system with double rack-pinion and two motors (master/slave) with electronic pre-load.
- Fully protected cabling.

2 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.

3 GTi Range HEADSTOCK:

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



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.

4 GTi Range BED:

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

5 GTi Range TAILSTOCK:

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

6 GTi Range LATHE DRIVE:

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

7 GTi Range FAIRING:

- 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.

GTi Range STRUCTURAL BODIES:

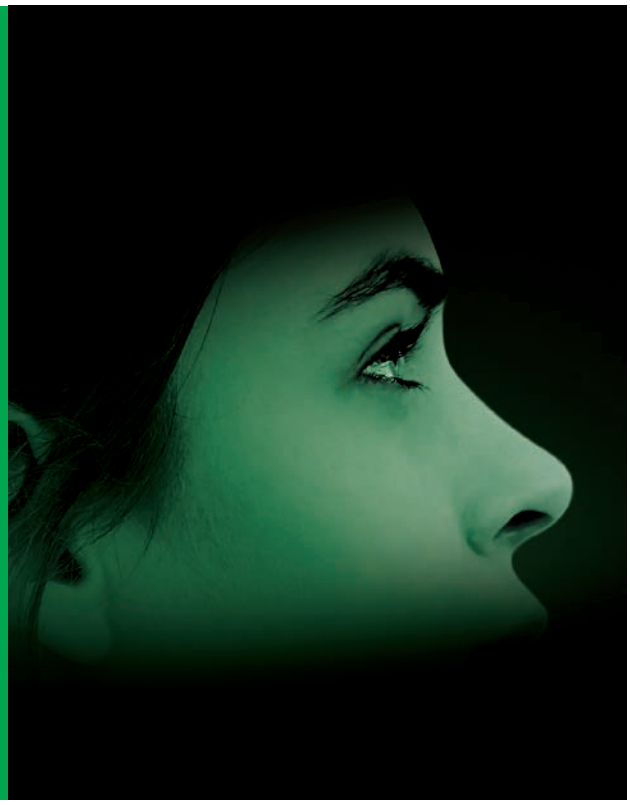
- Design optimization by means of finite element calculation.
- Better-dimensioned bodies.
- 20% more rigid than before.

ECO-DESIGN

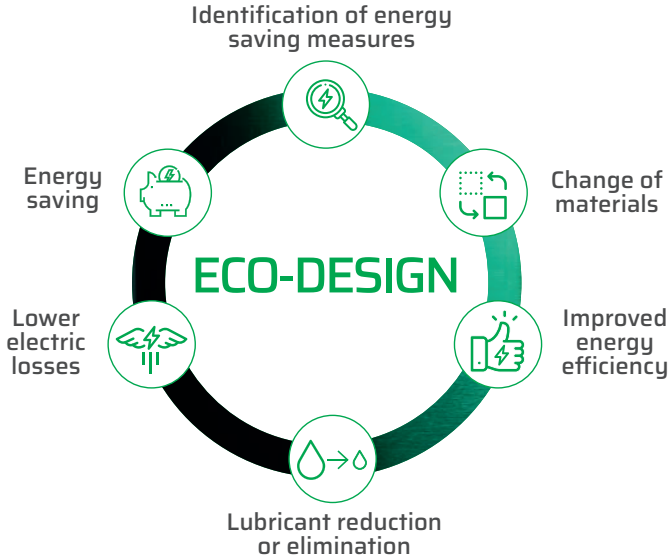
AT GEMINIS WE DESIGN AND DEVELOP OUR LATHES ACCORDING TO ECO-DESIGN PARAMETERS

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.

Bed Design.

Chuck Protection.

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 espace.
- 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 enviroment.

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 enviroment.

LED LIGHTING

BRIGHT INSIDE

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

INTERIOR

TOTAL PROTECTION

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

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 accesories.
- 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 enviroment.
- Allows the access to the machine.
- Enhanced ergonomy for the operator.

BED

EASY ACCESS

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

DOORS

FRONT DOOR AND CHUCK PROTECTION

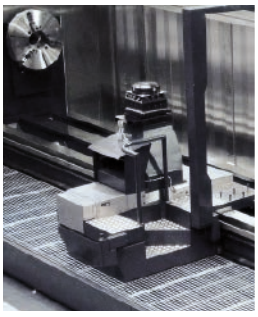
- Protection doors with wide transparent area.
- Enables to control safely the working area of the tools.
- High security for the machine operator.

CHIP CONVEYOR

WALKABLE SURFACE

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

I Bed Design.



I Carriage.

I Operator's platform.

CONTROL

MACHINE INTERFACE

- 22" touch-screen.
- Better display of machine parameters.
- Enhanced ergonomy 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.

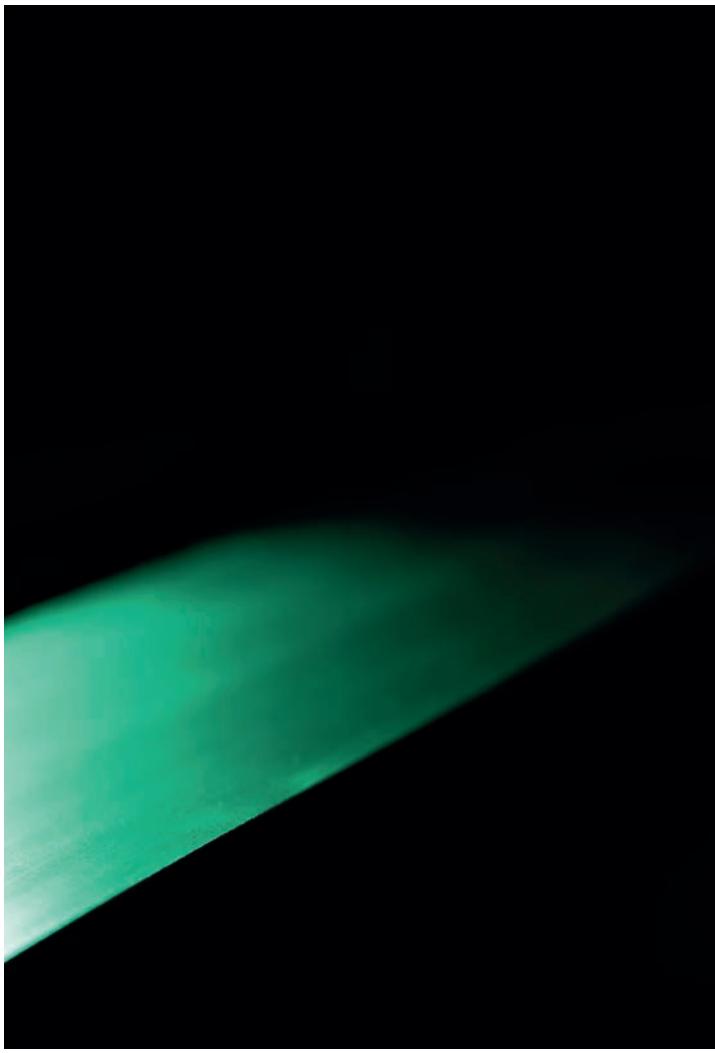
MAINTENANCE

MAINTENANCE AREA

- Transparent maintenance area door.
- Direct visual control.
- Easy access to maintenance area.
- Easy access to pneumatic and hydraulic components.
- Centralized 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.

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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.

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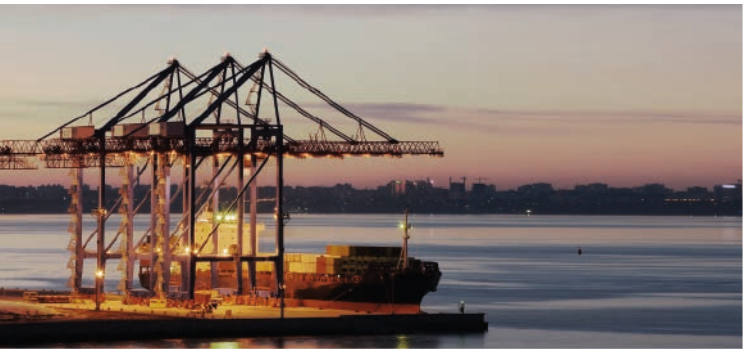
Siemens / Alstom / General Electric / BHEL / TGM Turbinas / Alfa Laval / Rolls Royce / Gamesa / Acciona / Ecotecnia.



RAILWAYS

- Axles.
- Wheels.
- Wheelsets.

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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

	GT5i G2	GT5i G4
Swing over bed	1 400 **(mm)**	1 400 **(mm)**
Swing over carriage	1 050 **(mm)**	1 100 **(mm)**
Max weight between centers	8 000 - 12 000 **(kg)**	8 000 - 12 000 **(kg)**

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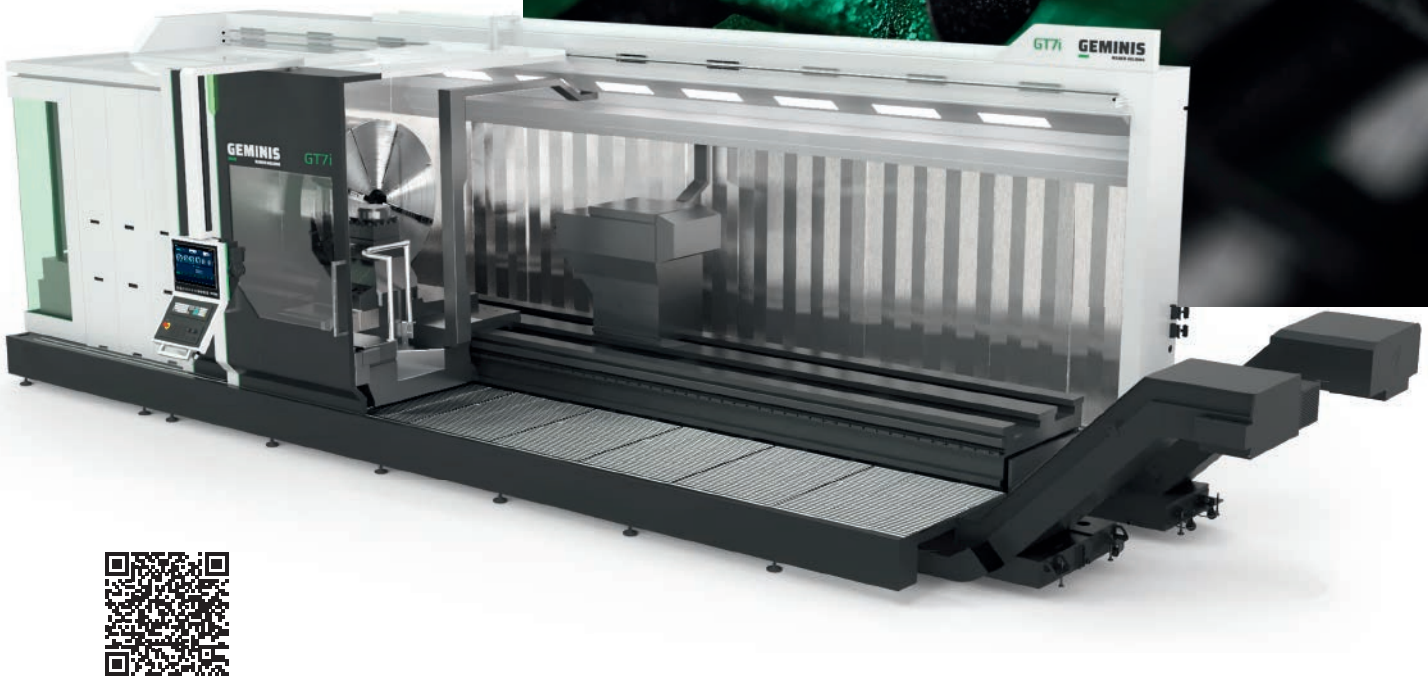
MEDIUM HEAVY SERIES		GT5i G2		GT5i G4	
CAPACITY	Swing over bed **(mm)**	1400		1400	
	Swing over carriage **(mm)**	1050		1100	
BED	Bed guide width **(mm)**	655		1000	
	bed height **(mm)**	650		700	
		OPTIONS FOR GT5i G2 & GT5i G4			
HEADSTOCK	**Main motor (S1-100%/S6-40%) (kW)**	**37/55,5**	**51/78**	**37/55,6 TWIN**	**56/78TWIN**
	Torque (S1-100%/S6-40%) **(Nm)**	7800/11800	15000/23000	5700/8600	17600/26400
	Speed range **(rpm)**	0 - 1400	0 - 800	0 - 1400	0 - 800
	Ø headstock bearing **(mm)**	190	240	190	240
	Ø bar though **(mm)**	130	162	130	162
CARRIAGES	Fordward force Fx (S1-100%/S3-40%) **(N)**	15000/21000	22000/30000	15000/21000	22000/30000
	Fordward force DPC Fz (S1-100% /S3-40%) **(N)**	26000/34000	36000/43000	26000/34000	36000/43000
	X-axis travel **(mm)**	700	700	730	730
	Z-axis travel **(mm)**	1...24	1...24	1...24	1...24
	X-axis speed **(m/min)**	8	8	8	8
	Z-axis speed **(m/min)**	10	10	10	10
TAILSTOCK	Quill diameter **(mm)**	220	220	220	220
	Maix weight between centers **(kg)**	8000	12000	8000	12000

GT7i

Swing over bed
Swing over carriage
Max weight between centers

GT7i G2	GT7i G4
1 800 | 2 000 **(mm)**	1 800 | 2 000 **(mm)**
1 400 | 1 800 **(mm)**	1 500 | 1 900 **(mm)**
12 000 - 25 000 **(kg)**	12 000 - 25 000 **(kg)**



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MEDIUM HEAVY SERIES		GT7i G2	GT7i G4
CAPACITY	Swing over bed **(mm)**	1800 | 2000	1800 | 2000
	Swing over carriage **(mm)**	1400 | 1800	1500 | 1900
BED	Bed guide width **(mm)**	905	1250
	bed height **(mm)**	800	850

OPTIONS FOR GT7i G2 & GT7i G4

	Main motor (S1-100%/S6-40%) (kW)	**51/78**	**81/119**	**105/154**	**56/78 TWIN**	**98/140 TWIN**
HEADSTOCK	Torque (S1-100%/S6-40%) **(Nm)**	14000/21600	28000/28600	36000/53000	17600/26400	27000/38000
	Speed range **(rpm)**	0 - 800	0 - 800	0 - 700	0 - 800	0 - 500
	Ø headstock bearing **(mm)**	240	240	320	240	320
	Ø bar though **(mm)**	162	162	150	162	150
CARRIAGES	Fordward force Fx (S1-100%/S3-40%) **(N)**	22000/30000	22000/30000	32200/42000	22000/30000	32200/42000
	Fordward force DPC Fz (S1-100% /S3-40%) **(N)**	36000/43000	36000/43000	43800/59000	36000/43000	43800/59000
	X-axis travel **(mm)**	900	900	900	930	930
	Z-axis travel **(mm)**	1...24	1...24	1...24	1...24	1...24
	X-axis speed **(m/min)**	8	8	8	8	8
	Z-axis speed **(m/min)**	10	10	10	10	10
TAILSTOCK	Quill diameter **(mm)**	220	320	220 | 320	220 | 320	220 | 320
	Maix weight between centers **(kg)**	12000	20000	12000 | 25000	12000 | 20000	12000 | 25000

GT9i

Swing over bed
Swing over carriage
Max weight between centers

GT9i G2	GT9i G4
2 200 | 2 400 | 2 600 **(mm)**	2 200 | 2 400 | 2 600 **(mm)**
1 800 | 2 000 | 2 200 **(mm)**	1 900 | 2 100 | 2 300 **(mm)**
25 000 - 60 000 **(kg)**	25 000 - 60 000 **(kg)**

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ONLY IN GT9i-GT11i

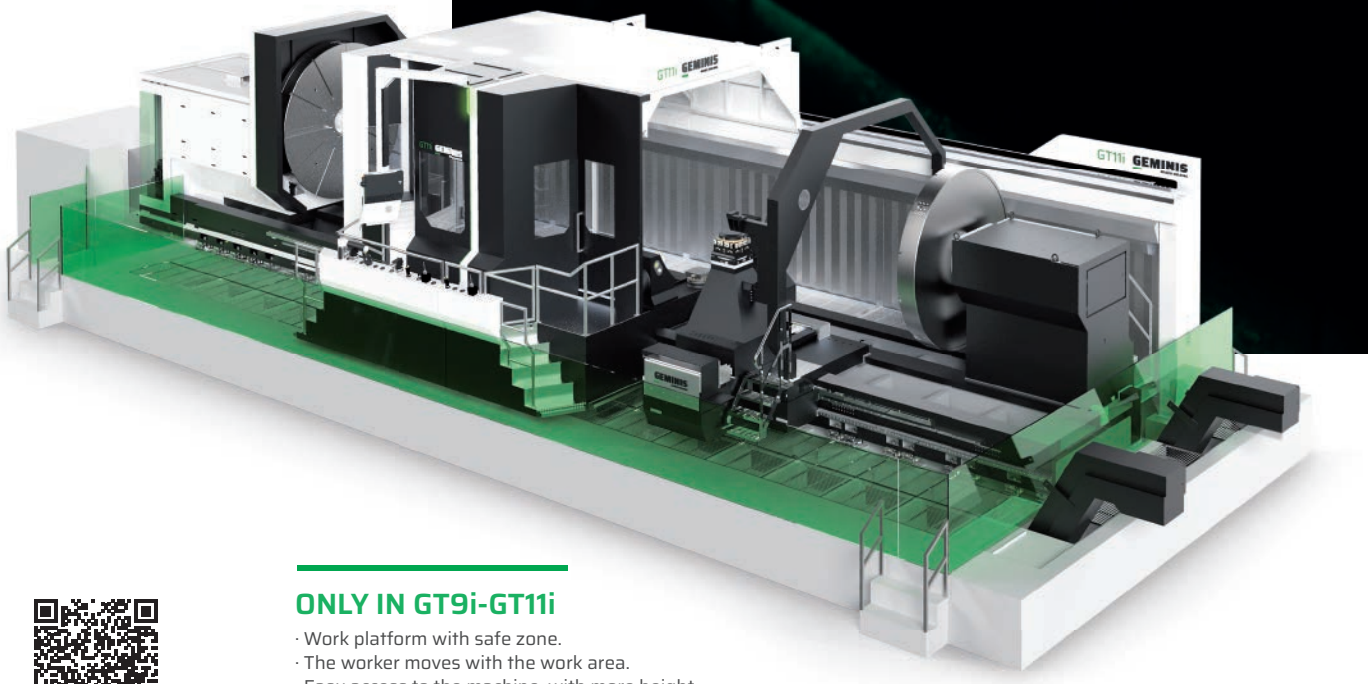
· Work platform with safe zone.
· The worker moves with the work area.
· Easy access to the machine, with more height.
· Good view.
· Easy chip collection.
· More comfortable cleaning.

MEDIUM HEAVY SERIES		GT9i G2			GT9i G4		
CAPACITY	Swing over bed **(mm)**	2200 | 2400 | 2600			2200 | 2400 | 2600		
	Swing over carriage **(mm)**	1800 | 2000 | 2200			1900 | 2100 | 2300		
BED	Bed guide width **(mm)**	1350			1750		
	bed height **(mm)**	650			680		
		OPTIONS FOR GT9i G2 & GT9i G4					
HEADSTOCK	**Main motor (S1-100%/S6-40%) (kW)**	**105/154**	**129/166**	**155/228**	**98/140 TWIN**	**140/206 TWIN**	**140/206 TWIN**
	Torque (S1-100%/S6-40%) **(Nm)**	38000/56000	57000/84000	74000/109000	27000/38000	65000/96000	134000/197000
	Speed range **(rpm)**	0 - 700	0-450	0-400	0 - 500	0-450	0-200
	Ø headstock bearing **(mm)**	320	400	480	320	400	480
	Ø bar though **(mm)**	150	150	150	150	150	150
CARRIAGES	Fordward force Fx (S1-100%/S3-40%) **(N)**	44000/60000	62500/87500	62500/87500	44000/60000	62500/87500	62500/87500
	Fordward force DPC Fz (S1-100% /S3-40%) **(N)**	57000/75500	83000/115000	83000/115000	57000/75500	83000/115000	83000/115000
	X-axis travel **(mm)**	1200	1200	1200	1230	1230	1230
	Z-axis travel **(mm)**	1...24	1...24	1...24	1...24	1...24	1...24
	X-axis speed **(m/min)**	8	8	8	8	8	8
	Z-axis speed **(m/min)**	10	10	10	10	10	10
TAILSTOCK	Quill diameter **(mm)**	320 | 450	320 | 450 | 600		320 | 450	320 | 450 | 600	
	Maix weight between centers **(kg)**	25000 | 35000	25000 | 45000 | 60000		25000 | 35000	25000 | 45000 | 60000	

GT11i

Swing over bed
Swing over carriage
Max weight between centers

GT11i G2	GT11i G4
2 600 - 3 600 **(mm)**	2 600 - 3 600 **(mm)**
2 000 - 3 000 **(mm)**	2 050 - 3 050 **(mm)**
45 000 - 150 000 **(kg)**	45 000 - 150 000 **(kg)**



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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.

MEDIUM HEAVY SERIES		GT11i G2	GT11i G4
CAPACITY	Swing over bed **(mm)**	2600 - 3600	2600 - 3600
	Swing over carriage **(mm)**	2000 - 3000	2050 - 3050
BED	Bed guide width **(mm)**	1850 | 2300	2250 | 2700
	bed height **(mm)**	750	750
		OPTIONS FOR GT11i G2 & GT11i G4	
HEADSTOCK	Main motor (S1-100%/S6-40%) **(kW)**	**113/166 - 182/272**	
	Torque (S1-100%/S6-40%) **(Nm)**	54000/79500 - 87300/130500	
	Speed range **(rpm)**	0 - 400	
	Ø headstock bearing **(mm)**	400 - 520	
	Ø bar though **(mm)**	150	
CARRIAGES	Fordward force Fx (S1-100%/S3-40%) **(N)**	65000/91100	
	Fordward force DPC Fz (S1-100% /S3-40%) **(N)**	83000/115000	
	X-axis travel **(mm)**	1400 | 1700	
	Z-axis travel **(mm)**	1..24	
	X-axis speed **(m/min)**	8	
	Z-axis speed **(m/min)**	10	
TAILSTOCK	Quill diameter **(mm)**	460 - 600	
	Maix weight between centers **(kg)**	45000 - 150000	

GTi RANGE

MEDIUM HEAVY SERIES

	GT5i G2	GT5i G4	GT7i G2	GT7i G4
CAPACITY				
Swing over bed **(mm)**	1 400	1 400	1 800 | 2000	1 800 | 2 000
Swing over carriage **(mm)**	1 050	1100	1 400 | 1 800	1 500 | 1 900

	OPTIONS FOR GT5i G2 & GT5i G4				OPTIONS FOR GT7i G2 & GT7i G4				
TAILSTOCK									
Quill diameter **(mm)**	220				220	320	220 | 320	220 | 320	220 | 320
Max weight between centers **(kg)**	8000	12000	8000	12000	12000	20000	12000 | 25000	12000 | 20000	12000 | 25000
HEADSTOCK									
Main motor (S1-100%/S6-40%) **(kW)**	37/55,5	51/78	37/55,6 TWIN	56/78 TWIN	51/78	81/119	105/154	56/78 TWIN	98/140 TWIN

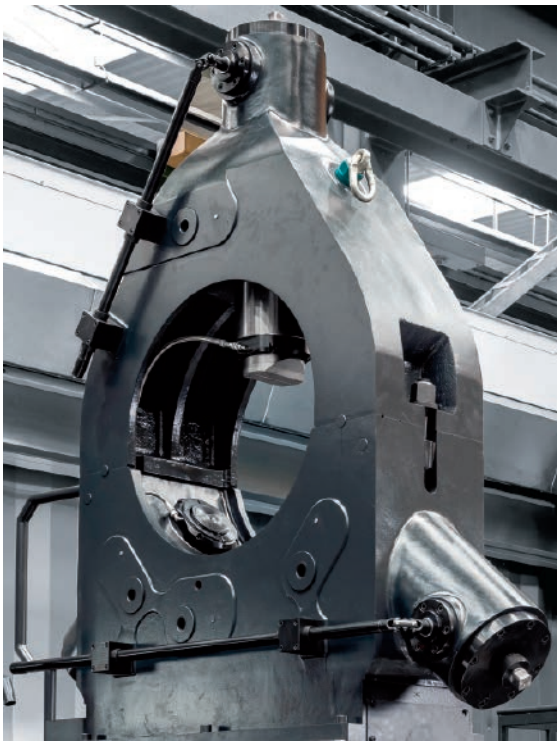
HEAVY SERIES

	GT9i G2	GT9i G4	GT11i G2	GT11i G4
CAPACITY				
Swing over bed **(mm)**	2200 | 2400 | 2600	2200 | 2400 | 2600	2600 - 3600	2600 - 3600
Swing over carriage **(mm)**	1800 | 2000 | 2200	1900 | 2100 | 2300	2000 - 3000	2050 - 3050

	OPTIONS FOR GT9i G2 & GT9i G4					OPTIONS FOR GT11i G2 & GT11i G4
TAILSTOCK						
Quill diameter **(mm)**	320 | 450	320 | 450 | 600	320 | 450	320 | 450 | 600		460 - 600
Max weight between centers **(kg)**	25000 | 35000	25000 | 45000 | 60000	25000 | 35000	25000 | 45000 | 60000		45000 - 150000
HEADSTOCK						
Main motor (S1-100%/S6-40%) **(kW)**	105/154	129/166	155/228	98/140 TWIN	140/206 TWIN	140/206 TWIN	113/166 - 182/272

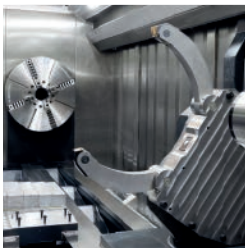
CLAMPING ACCESSORIES

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.

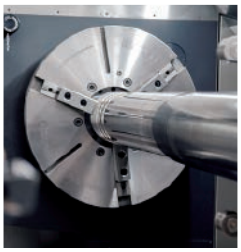


Closed steady rest.

Chuck.



Hidraulic steady rest.



Hidraulic clamping.

Open steady rest.

CHUCKS

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

TAILSTOCKS

- Motorized.
- Smart tailstock.

STEADIES

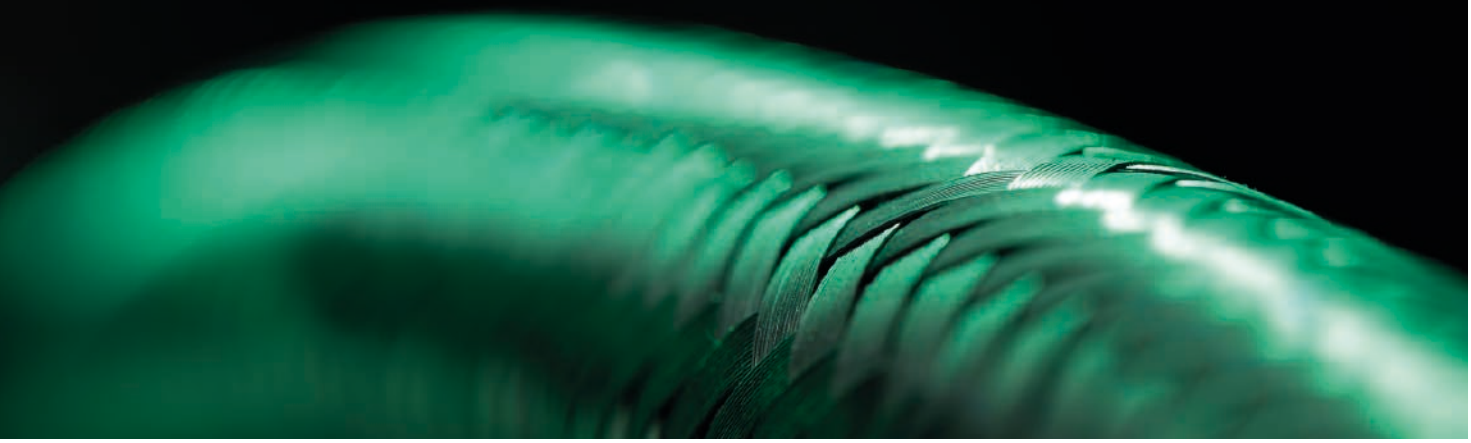
- Manual.
- Automatic: hydraulic or hydrostatic.

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.
· Motorized.
· 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

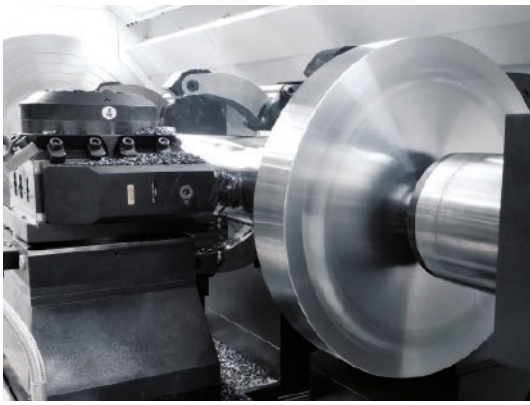
· C-axis.
· Twin Drive: multiplies the accuracy and precision of C-axis by 10.

FINISHING

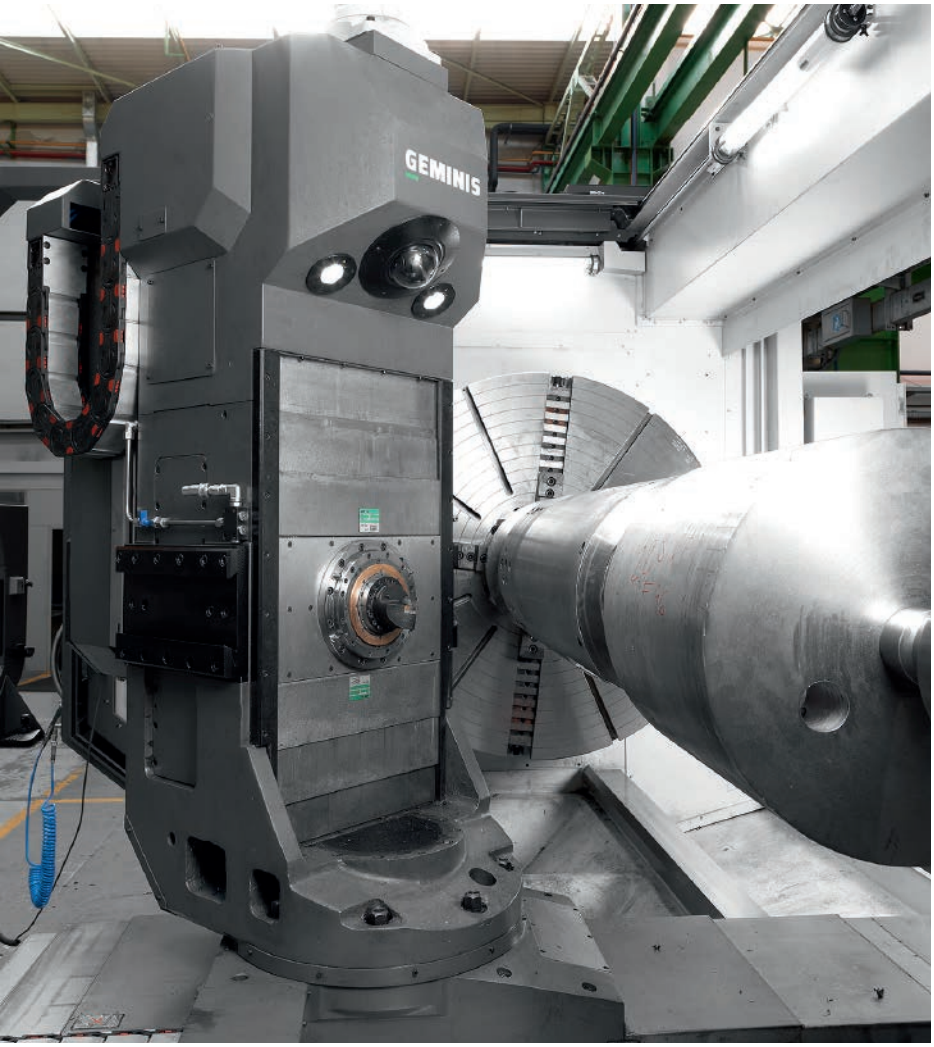
· Burnishing device.
· Polishing device.

MEASUREMENT ELEMENTS

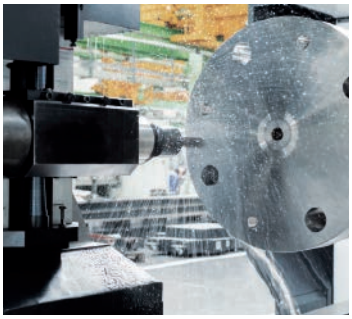
· Parts measurement.
· Tools measurement.



I Turning.

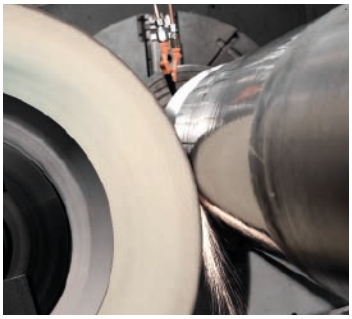


I Multiprocess column.

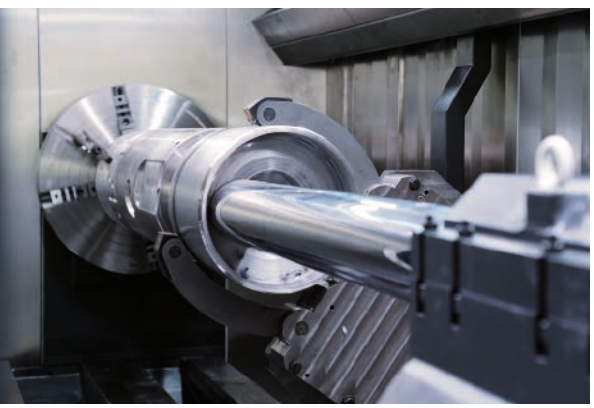


I Milling.

I Quick device exchange system.



I Grinding.



I Boring.

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

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.

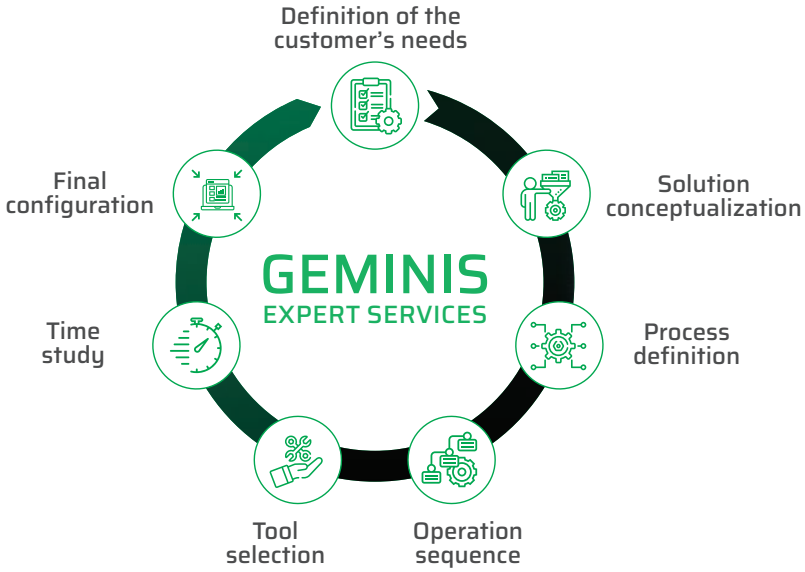
INSTALLATION AND START-UP

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

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