

TORLINE S.R.L.

LAVORAZIONI MECCANICHE DI PRECISIONE



PARTNERS FOR YOUR BUSINESS

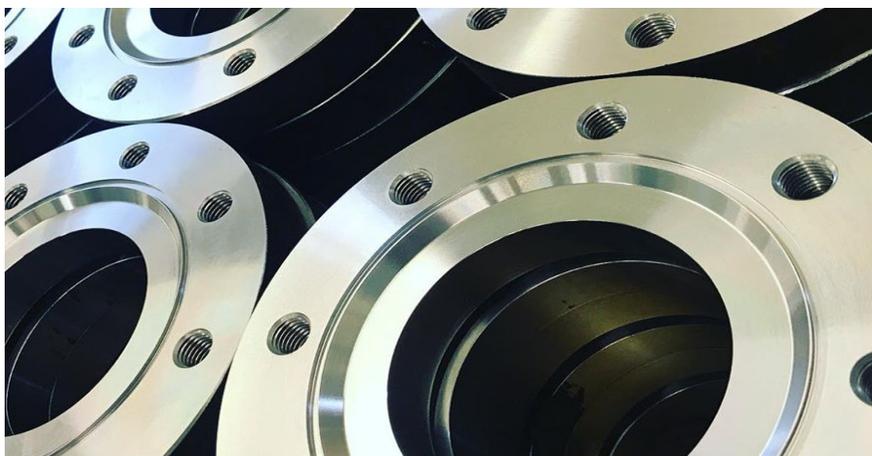
COMPANY

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TORLINE s.r.l. was established in 2020 from the acquisition of Vinsani Arrigo, a historical company with 50 years of business behind it, specialising in precision machining.

The experience of the staff and technological innovation allow **TORLINE s.r.l.** to step up as a highly qualified partner in meeting customer requirements.

The diversification of the highly flexible machinery allows the company to handle every type of requests, from sampling to small and medium batch production to large-scale manufacturing.



PRODUCTION

TORLINE s.r.l. is specialised in turning and machining centre, cutting, assembly, of material supplied by the customer or fully supplied, of parts produced to customer drawings for all sectors of application, Industrial, Gearboxes, Agricultural, Automotive, Wind, Hydraulics, Earthmoving, Marine.

We can work:

Steel - Aluminium - Cast iron - Bronze - Plastics

Starting from:

Rolled bar - Tube - Castings - Die castings

OUR MAIN SECTORS

Our Main Sector Destination



POWER MOTION



AGRICULTURAL MACHINE



EARTH MOVING MACHINE



RAILWAYS & MARINE



PACKAGING & ELECTRIC

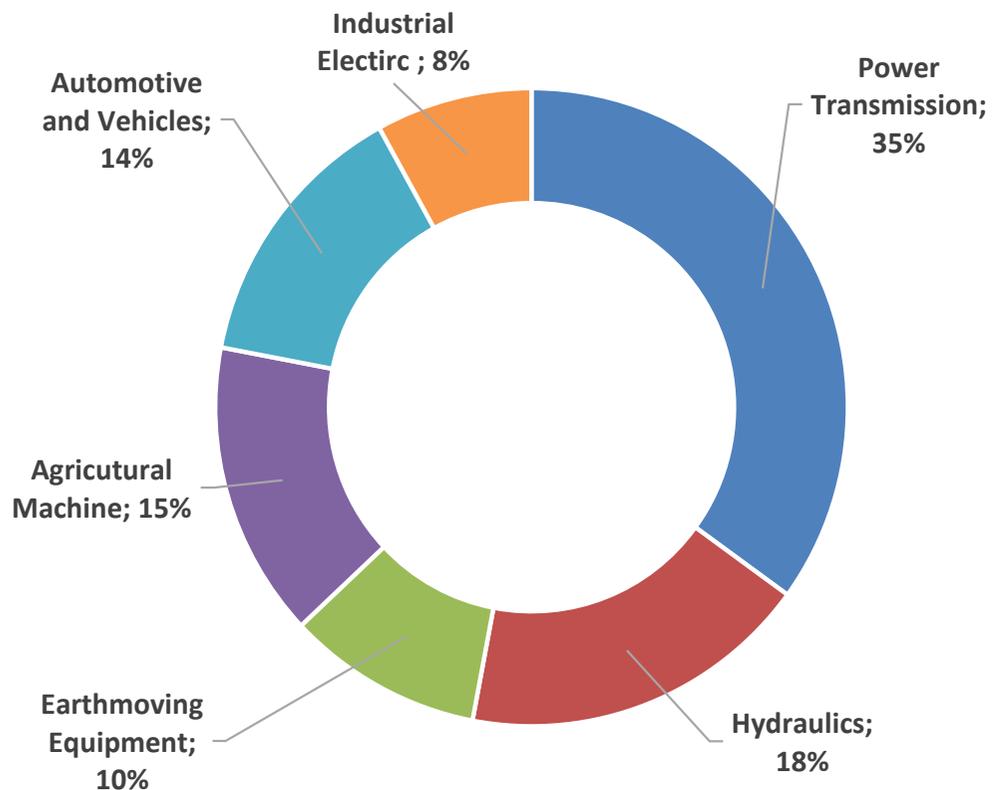


AUTOMOTIVE & TRUCK

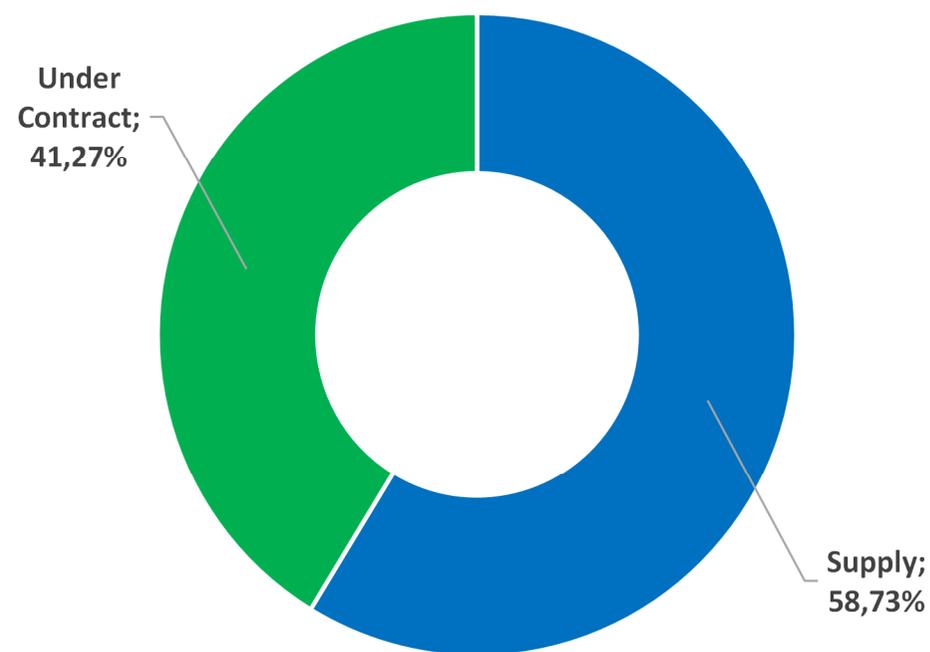
MARKETS AND SECTOR

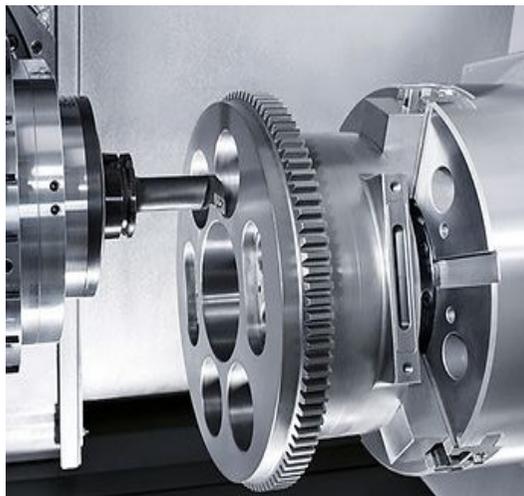
Markets

Markets



% Supply / under contract Year 2023



SERVICE AND PROCESSES
Turning Plant


Equipment	Cod.	∅	L
CNC LATHE TAKISAWA EX-110	02	250	200
CNC LATHE TAKISAWA EX-110	03	250	200
CNC LATHE TAKISAWA EX-110	04	250	200
CNC LATHE TAKISAWA EX-310 MOT.	05	300	300
CNC LATHE GOODWAY GA 300	06	300	300
CNC LATHE GOODWAY GS 280 MY MOT.+AXE Y	07	250	250
CNC LATHE GOODWAY GS 280 M MOT+AXE Y	08	250	250
CNC LATHE GOODWAY GT-25	09	250	250

Equipment	Cod.	∅	L
CNC LATHE GOODWAY GCL -2	10	200	250
CNC LATHE DOOSAN TW2600 MOT + ROBOT	10/1	250	200
CNC LATHE DOOSAN GT2100B	12/1	250	250
CNC LATHE DOOSAN GT2100B	12/2	250	250



SERVICE AND PROCESSES

Milling - Boring – Drilling Plant

Equipment	Cod.	P	L
VERTICAL MILLING MACHINE FAMUP MCX 500	21	400	500
VERTICAL MILLING MACHINE FAMUP MCX 500 4 AXES	22	400	500
VERTICAL MILLING MACHINE FAMUP MCX 700 4 AXES	23	500	700
PRESETTING TOOLS	101	100	250



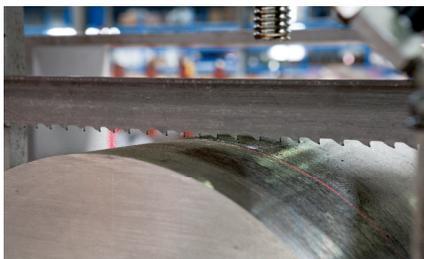
Cleaning Plant

Equipment	Cod.	∅	L
CLEANING AUTOMATIC MACHINE SIMPLEX BIG 1400LT	40	1000	600



SERVICE AND PROCESSES

Cutting Plant



Equipment	Cod.	∅	L
AUTOMATIC CUTTING MACHINE KASTO SSB 260 VA	31	260	6000
AUTOMATIC CUTTING MACHINE KASTO SSB 260 VA	32	260	6000
AUTOMATIC CUTTING MACHINE KASTO SSB 220 AV	33	220	6000

Auxiliary Processing

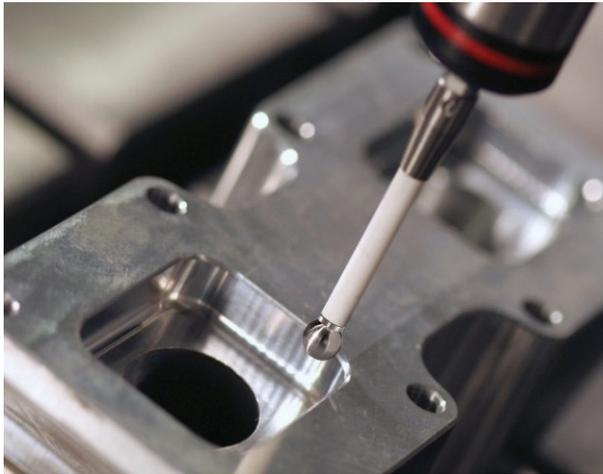
Equipment	Cod.	N°	L
MICRODOT MARKING CNC	50	1	150x100
IMPACT MARKING	51	5	80x30
HYDRAULIC PRESS FOR ASSEMBLY	52	10 t	500
DRILL PRESS FOR DEBURRING	53	5	--



Sollevamento e movimentazione



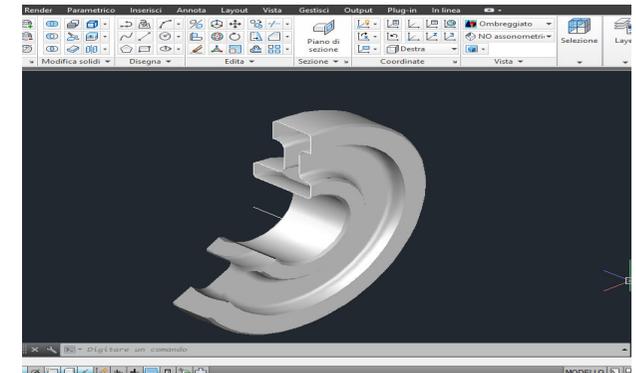
Equipment	Cod.	N°	L
IMPIANTO DI SOLLEVAMENTO PARANCO 125 Kg	--	1	--
ELECTRIC FORKLIFT 35 q.li	--	1	--
ELECTRIC FORKLIFT 15 q.li	--	1	--

QUALITY
Quality Control Office


Equipment	Cod.	∅	L
COORDINATE MEASURING MACHINE 3D ZEISS SCANMAX	80	400	400
COORDINATE MEASURING MACHINE 3D ZEISS DURAMAX	81	600	500
LINEAR HEIGHT SYLVAC TRIMOS	82-82/1	--	400
LINEAR HEIGHT MITUTOYO	83	--	400
SURFACE ROUGHNESS MITUTOYO Ra-Rz-Rmax-Rt	84		
CONTOUR MEASURING CONTUROMATIC CV120	85	70	120
HARDNESS TESTING HB – HRC – HRA	85		
CONCENTRICITY CONTROL WORK STATION	108	250	800

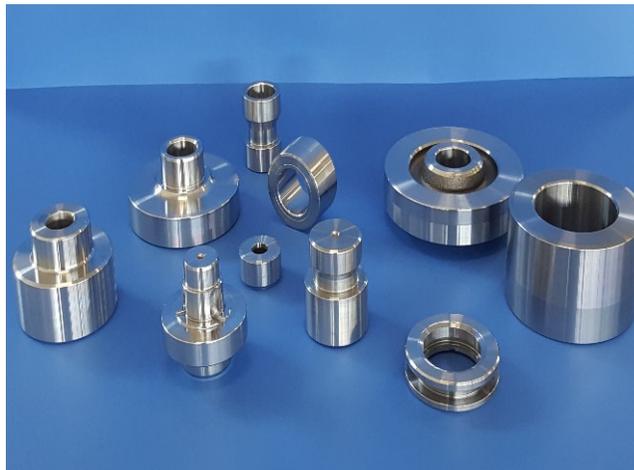
Software Sistem

Equipment	Cod.	N°	L
ERP WIN TOP SOFTWARE	--	1	--
SCHEDUL MRP SOFTWARE	--	1	--
QUALITY PIWEB SOFTWARE	--	1	--
MINITAB STATISTIC QUALITY SOFTWARE	--	1	
DRAVING 2D – 3D SOFTWARE	--	1	



OUR RANGE FOR COMPONENTS

Our Product



OUR RANGE FOR COMPONENTS

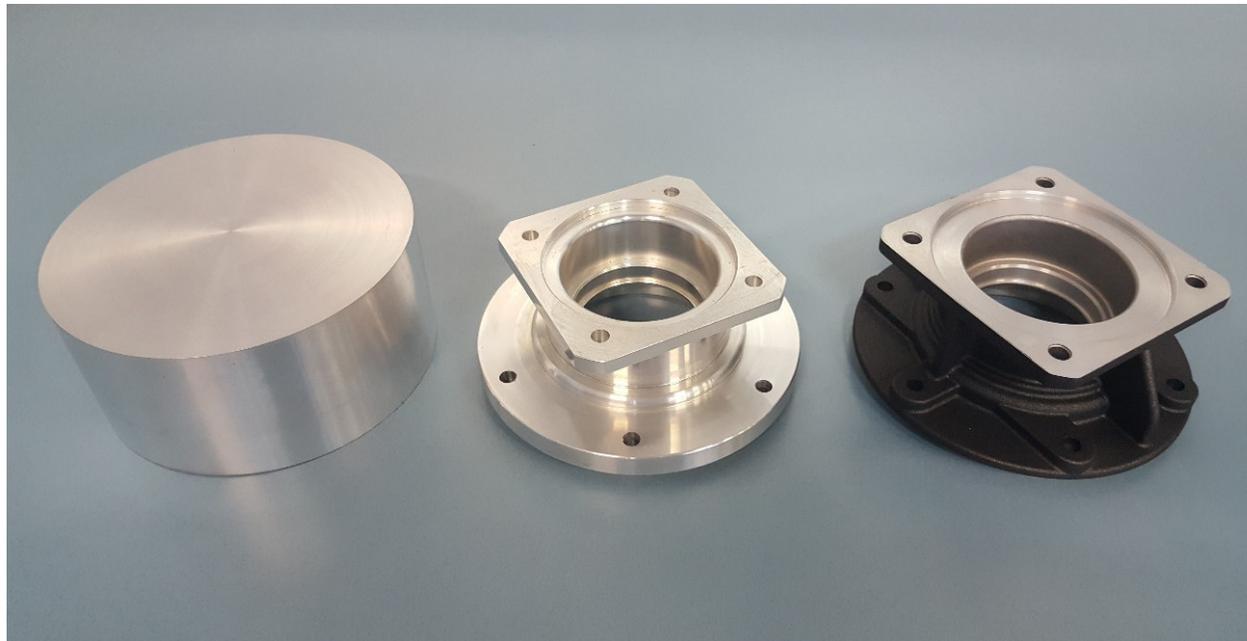
Our Product



PROTOTYPES AND SAMPLES

PROTOTYPES AND SAMPLES FOR CAST IRON AND ALUMINIUM CASTINGS 3D MODELS

Torline s.r.l. has a prototyping department, where prototypes and/or samples of various articles are produced with 100 per cent dimensional control and PPAP level 1-2-3 certification according to customer requirements and final applications. We also carry out, on request, metallographic Ultrasonic, Magnaflux, contamination tests and dimensional checks of material not produced by us.



STARTING MATERIALS

CAST IRON – FORGED SEEL – ALUMINUM CASTINGS - STEEL BARS - STEEL TUBES



CONTINUOUS IMPROVEMENT -QUALITY

ISO 9001-2015 MANAGEMENT SYSTEM CERTIFICATION



QUALITY

TORLINE s.r.l. Since its acquisition, TORLINE s.r.l. prioritized initiating procedures to secure certification for its quality management system in accordance with UNI EN ISO 9001-2015. This goal was successfully accomplished in the first quarter of 2021.

STRATEGY

TORLINE s.r.l. considers complementary product and system certifications to be essential for new products and new markets, which is why in 2024 the IATF16949 and ISO 14001 certification process was initiated.



14001



IATF 16949

CONTINUOUS IMPROVEMENT - QUALITY

NEW ZEISS DURAMAX 3D MEASURING MACHINE



QUALITY

TORLINE s.r.l. in addition to the already operational Zeiss ScanMax, in October 2020 added a new 3D CMM coordinate measuring machine, fitted with the VAST XXT scanning probe from ZEISS that can also be used to acquire free-form contours and surfaces, with a measuring range of 600 x 600 x 500 mm.

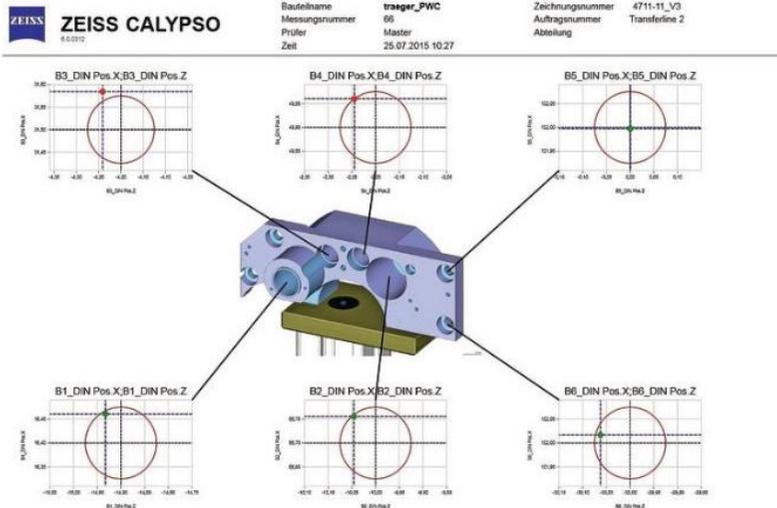
FEATURES

- CALIPSO Software
- Single-point scanning and measuring
- CNC stylus changer
- 25 mm adapter plate for optimum reproducibility
- Stylus axial length: 30 to 150 mm
- Stylus radial length: 30 to 65 mm
- Numerical control panel with two progressive joysticks
- Stylus racks for CNC stylus changing



CONTINUOUS IMPROVEMENT - QUALITY

PIWEB SOFTWARE QUALITY UNDER CONTROL

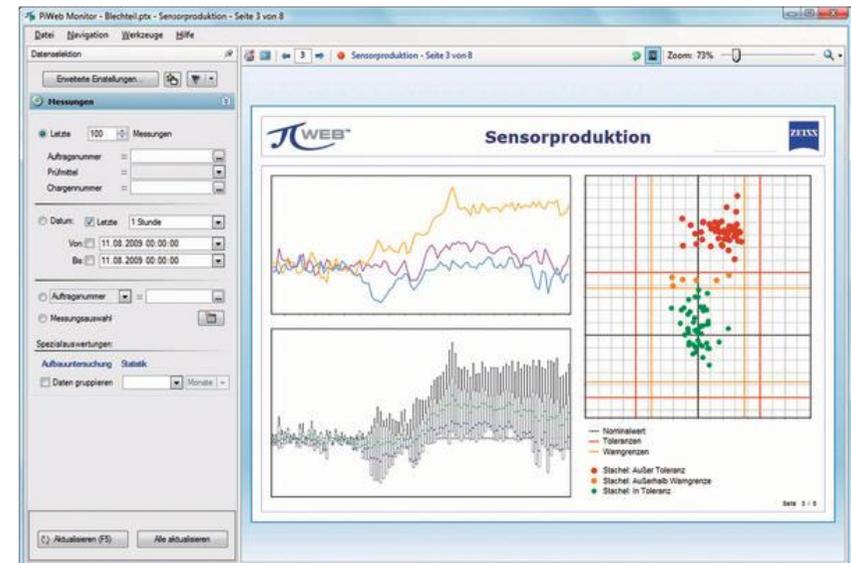


QUALITY

TORLINE s.r.l. in November 2020 introduced the new ZEISS PiWeb software, an IT solution for quality data management. The flow of information from Industry 4.0 can be organised from the ZEISS PiWeb enterprise database and thus improve product quality and productivity.

ZEISS PiWeb is a software for statistical analysis, e.g. various functions for outlier management and measurement system analysis. QDAS data can be imported and exported.

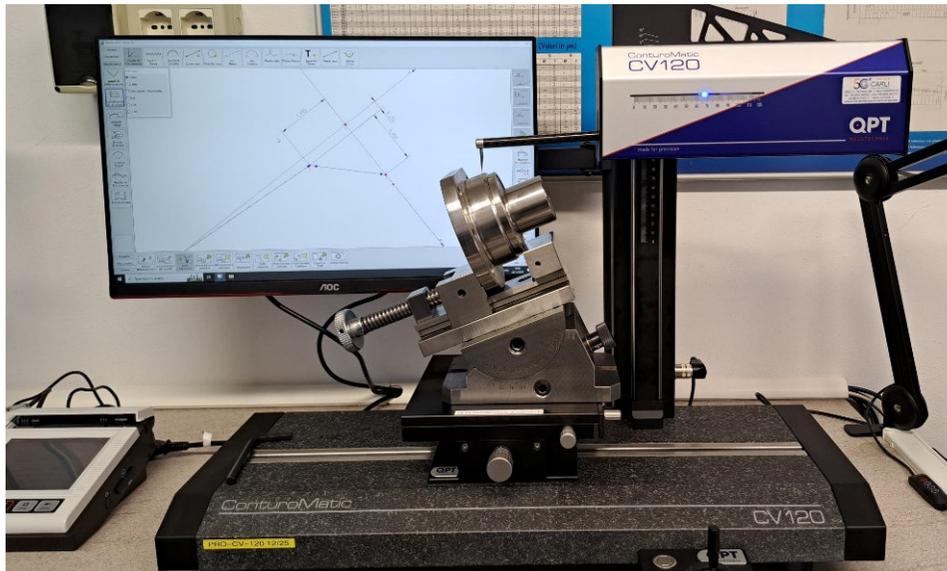
Production process data can also be processed with ZEISS PiWeb. Causal relationships between process parameters and quality characteristics can thus be analysed. This knowledge also helps to avoid production errors and increase tool utilisation times.





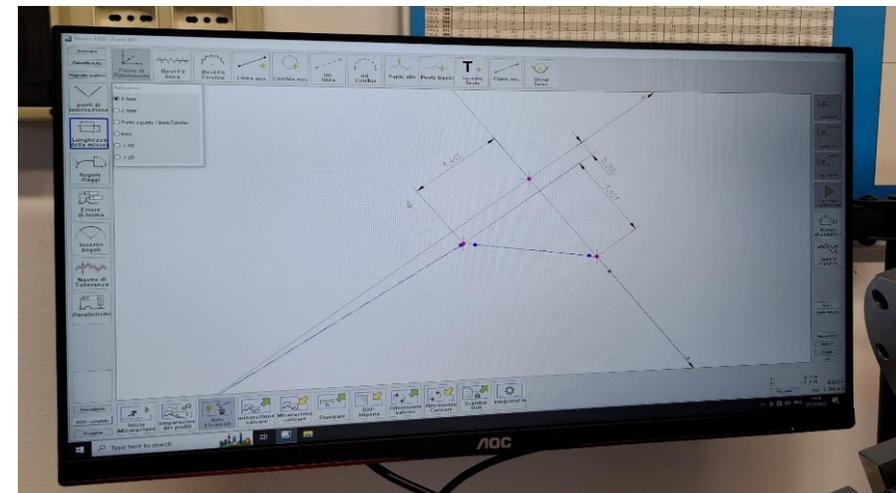
CONTINUOUS IMPROVEMENT - QUALITY

PROFILE MEASURING MACHINE



TORLINE s.r.l. in December 2023 introduced the new ConturoMatic CV 120 series contour measuring device with intelligent functions and useful automation. Designed to monitor industrial production processes in measuring laboratories thanks to its durable mechanics and high-performance software, parts can be measured automatically over the entire measuring area. The calibration of the entire feed unit is fully automated. High measuring accuracy, detailed evaluation, provide detailed process control.

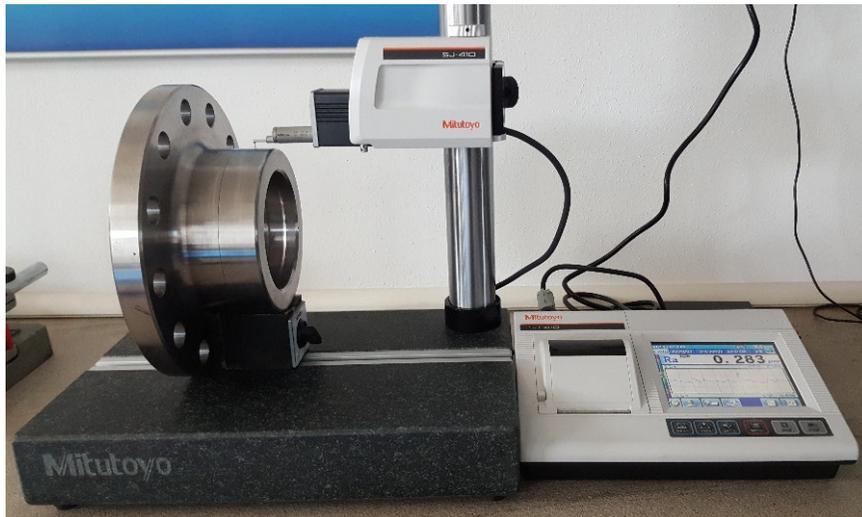
- Stationary contour measuring device with profile method
- ConturoMatic software: W7/64bit via standard PC interfaces
- CV120 measuring range: 30 x 120 - Motorised Z column
- Z-column positioning: 380 mm
- Software-controlled probe arm lift
- Automatic measurement by Teach-in programming
- Movement on all axes can be automated
- Granite base plate 600 x 250 x 50 mm



CONTINUOUS IMPROVEMENT - QUALITY



ROUGHNESS MEASURING INSTRUMENT QUALITY UNDER CONTROL


QUALITY

TORLINE s.r.l. in June 2022 added the new Mitutoyo SurfTest SJ-410 roughness measuring instrument with integration software to the PPAP and ISIR documentation, which enables the management of qualitative data. In this way the flow of information from Industry 4.0 can be organised and thus improve product quality and productivity.

Applicable standards JIS 1982/JIS 1994/JIS 2001/ISO 1997/ANSI/VDA
 Parameter: Ra, Rq, Rz, Ry, Rp, Rv, Rt, R3z, Rsk, Rku, Rc, R_{Pc}, R_{Sm}, R_{max}*1, R_{z1max}*2, S, HSC, Rz_{JIS}*3, R_{ppi}, R_{Δa}, R_{Δq}, R_{lr}, R_{mr}, R_{mr} (c), R_{σc}, R_k, R_{pk}, R_{vk}, Mr₁, Mr₂, A₁, A₂, V_o, λ_a, λ_q, L_o, R_{pm}, t_p*4, H_{tp}*4, R, Rx, AR, W, AW, Wx, W_{te} Customizable
 Filtered profile Primary profile, Roughness profile, DF profile, Waviness profile, Roughness motif profile, Waviness motif profile
 Analysis graph Material ratio curve, Profile height amplitude distribution curve



CONTINUOUS IMPROVEMENT - PRODUCTION

DOOSAN PUMA TW 2600 M/GL TURNING CENTRE



PRODUCTION

TORLINE s.r.l. Purchased a new DOOSAN PUMA TW 2600/M/GL twin-spindle 3 + 3-axis front turning machine with both motorised turrets, and Fancu i-series CNC and Gantry Loader A1. This machinery will allow us to better cope with production batches of more than 1000 pieces.

The system was successfully installed in December 2020.

FEATURES

Max. turning diameter 360 mm Max. turning length 150 mm

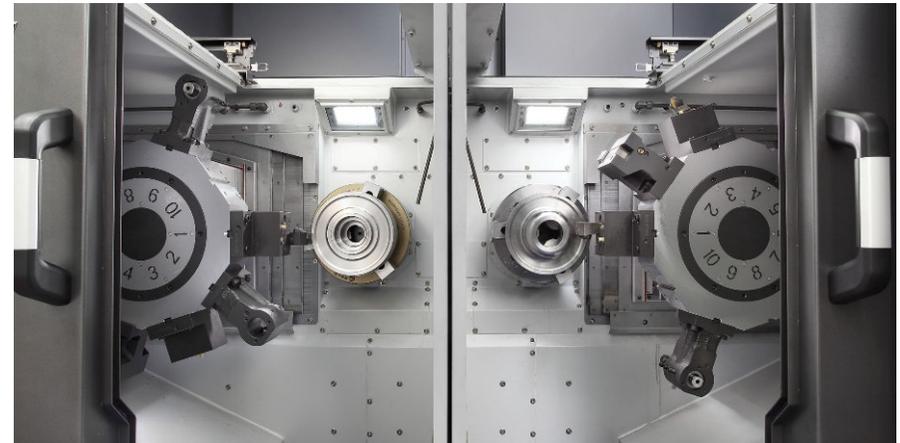
Max. turning diameter with robot 220 mm

Maximum robot wrist weight 25 kg.

10 motorised tool stations on both stations.

Gantry Loader with 14 stations max. weight per station 100 kg. Tool

Monitor control system for unmanned machining.



CONTINUOUS IMPROVEMENT - PRODUCTION

DOOSAN PUMA GT 2100B TURNING CENTRE



PRODUCTION

TORLINE s.r.l. Purchased a new DOOSAN PUMA GT 2100 B CNC 2 AXIS front turning machine with tailstock and Fanuc i-series CNC. This machinery will allow us to cope with production batches of up to 300 parts, sampling and turning the hardened part. The system was installed in October 2021.

FEATURES

Max. turning diameter 360 mm
Max. turning length 500 mm
Max. weight 50 Kg.
10 tool stations.
Tool Monitor control system for unmanned machining.



CONTINUOUS IMPROVEMENT - PRODUCTION

DOOSAN PUMA GT 2100B TURNING CENTRE

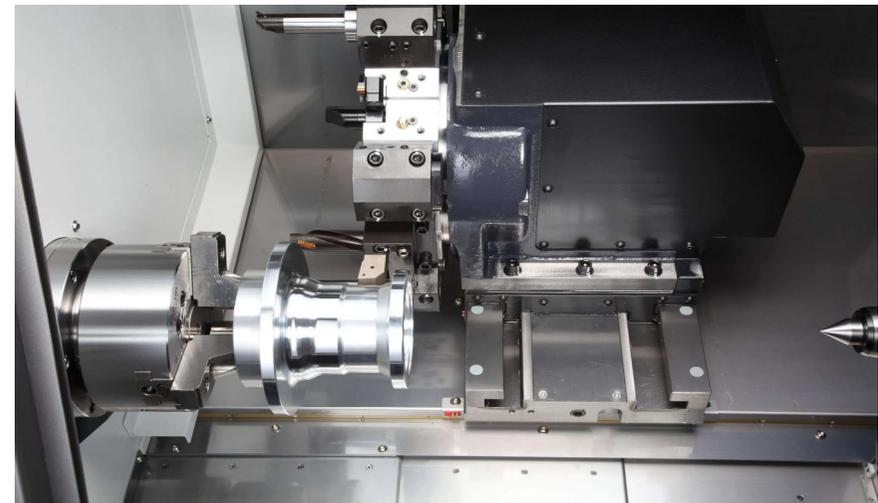


PRODUCTION

TORLINE s.r.l. Purchased a new DOOSAN PUMA GT 2100 B CNC 2 AXIS front turning machine with tailstock and Fanuc i-series CNC. This machinery will allow us to cope with production batches of up to 300 parts, sampling and turning the hardened part. The system was installed in May 2022.

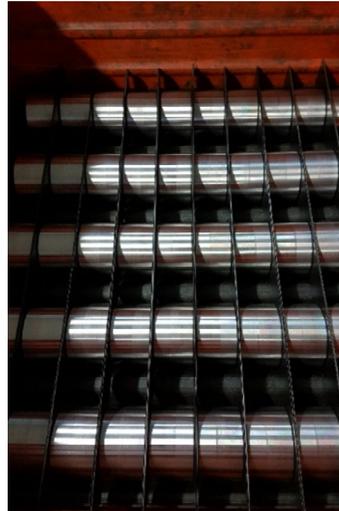
FEATURES

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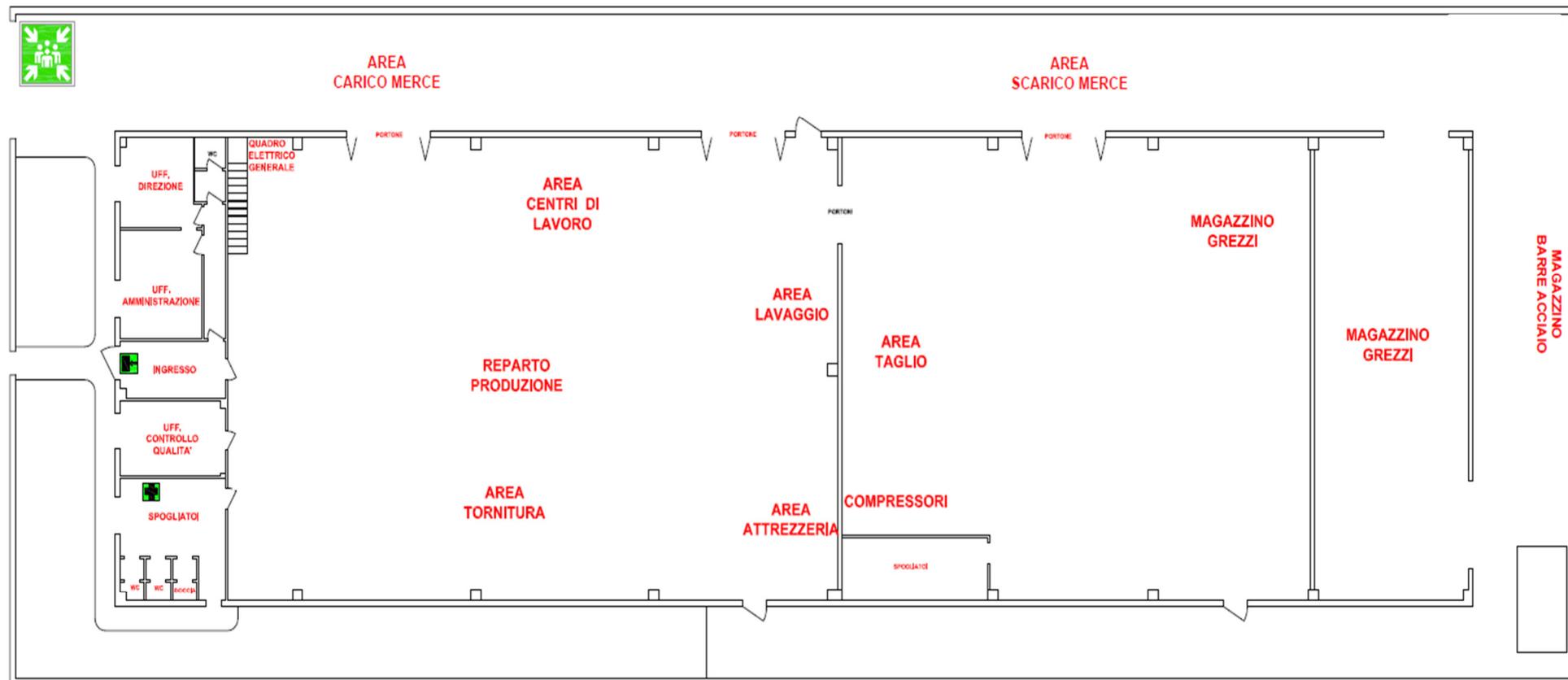
SHIPPING AND WAREHOUSE

MATERIAL STORAGE AND FINISHED PRODUCT PACKAGING



LAY OUT PLANT

OUR PLANT 2000 Mq. COVERED



PARTNERS FOR YOUR BUSINESS

A SINGLE SOLUTION FOR YOUR NEEDS



STAMPAGGIO A CALDO



TAGLIO AUTOMATICO BARRE



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