

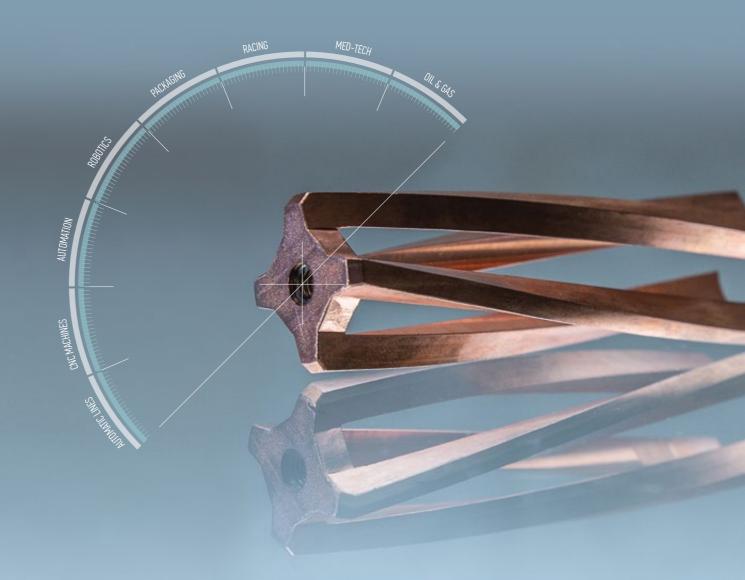
INTEGRATED AND CUSTOMIZED/ MECHANICAL SOLUTIONS FOR INDUSTRIAL APPLICATIONS



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ELLE EMME**/BEYOND** MACHINING

OUR UNUSUAL APPROACH TO MACHINING: WE HEAR YOU OUT. DIALOGUE AND OUR KNOW-HOW ARE THE TOOLS TO DELIVER EXCELLENCE.

Elle Emme was established in 1974 as a precision machining company providing complex solutions of great added value. Over the years, the company has constantly evolved specializing in highly specific sectors. Today, beyond being subcontractors:

> + ELLE EMME is a project PARTNER + ELLE EMME is strategic outsourced machining

Plastic blow moulding group







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PROJECTS/INTEGRAL SOLUTIONS

FROM YOUR PROJECTS AND THROUGH DIALOGUE, WE CAN MANUFACTURE COMPLEX TESTED MACHINING GROUPS

Our outstanding craftsmanship enables us to manufacture complex machining groups. After careful analysis of your project,:

+ we select materials, production cycles, surface treatment and coating and control panels.

+ each individual part is manufactured at our premises

+ we manage all the outsourcing processes

+ we acquire customized parts (gears, engines, joints)

+ we acquire complementary parts from metalworking, foundry and plastic material processing + we assemble and test.

OUR CLIENTS "FOCUS" ON DESIGN. ELLE EMME TAKES CARE OF THE REST



mini self-centering chuck — the clamps are turned and EDM (Electrical Discharge Machining) finished









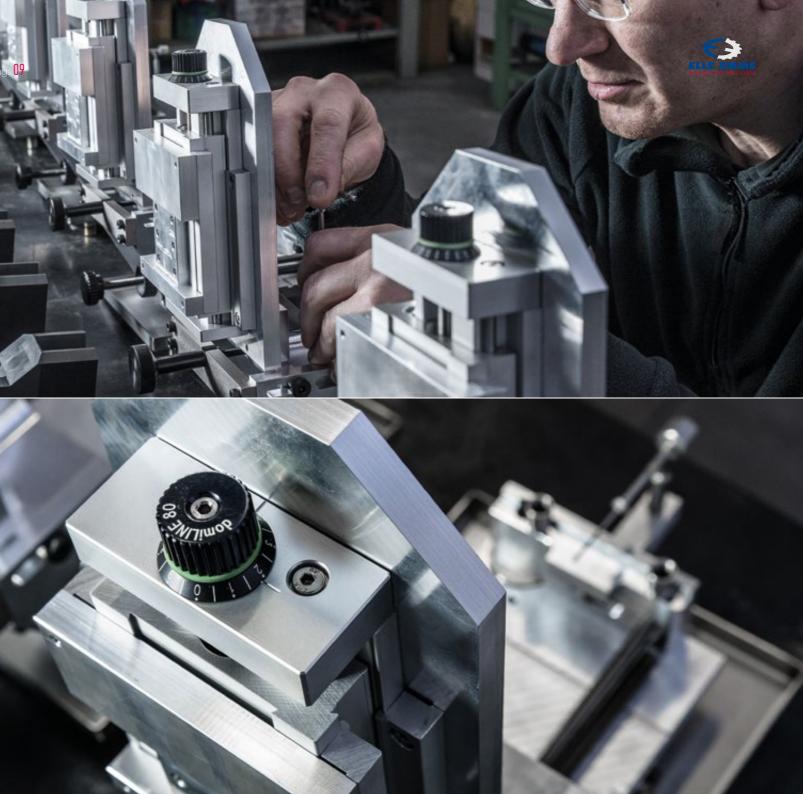
FITTING**/ASSEMBLY**

WE MAXIMISE OUR EXPERTISE IN MANUAL FINISHING, FITTING AND ASSEMBLY: HERE EXPERIENCE MAKES ALL THE DIFFERENCE

We have always stood out from other machining companies for our complete range of services. Our assembly department is at your disposal with an organized section with full-time operators specialized in:

> + high-quality manual finishes + laser marking + fitting and assembly + functional testing + declaration of compliance (upon request)







Magnetic inducer — the complexity of machining a component is not only given by its shape, but also by its relief details. Milling experience is essential to avoid vibrations.

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FLEXIBILITY / GLOBAL PROFICIENCY

FROM INDIVIDUAL PARTS TO SMALL-MEDIUM SERIES WE ARE ORGANIZED TO PROVIDE HIGHLY FLEXIBLE SOLUTIONS

Over the years, we have achieved total control of materials, from high-alloyed steel to light alloys and polymers. Unusual shapes hardly deter us, as complex geometrical components challenge our skills, knowledge and desire for improvement. We provide our customers with all they need starting from these strengths:

> + Feasibility analyses + Prototyping + Pre-series prototyping + Small and medium series + Spare parts



Multitasking turning center with millesimal – positioning head for complex components machined in one-setup.



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INTEGRATED CONTROL/





FROM COMPLYING WITH THE PRODUCTION PROTOCOL TO VERIFYING DIMENSIONS OF INDIVIDUAL PARTS: IT ALL AMOUNTS TO AN INTEGRATED CONTROL SYSTEM

Nothing is left to chance or is borne out of empirical assessment:

+ Sophisticated planning software drives the production system according to a precise protocol since estimate issue.

+ The latest CAD-CAM systems provide product models from which we obtain specific lead times, costs and data to set and equip machines correctly.

+ Each operator has a *badge* containing information about project status - from collecting the material from the warehouse to recording set-up and phase times. This provides us with real-time machine loading views.

+ Products undergo dimensional verification, geometry inspection and hardness testing in our metrology and measurement facility.













THE MACHINES AND TOOLS WE USE TO PROVIDE EXCELLENCE ARE CONSTANTLY UPGRADED



CNC TURNING DEPARTMENT	Integrated milling/turning centre for the production of complex parts	Nr. 1 Mazak Integrex i300-S Nr. 1 Mazak Integrex 200-III Nr. 1 Mazak Integrex 100-II SY	Ø 380 max. Ø 200 max. Ø 250 max.	2th spindle 2th spindle
	6-axis bar and secondary turning machine with live tool-setting arms	Nr. 1 Schaublin 220	Ø 42 x 310	milling tools
	3-axis bar and secondary turning machine with live tool-setting arms	Nr. 1 Mazak QT200 MYx1000 Nr. 1 Index G200 CNC Nr. 1 Spinner TC 52 CNC Nr. 1 Hwacheon Cutex 160 Nr. 1 Okuma LCS 15 Nr. 3 Schaublin 130 CNC Nr. 4 Schaublin 110 CNC	Ø 340 x 1000 Ø 60 x 380 Ø 50 x 350 Ø 28 x 100 Ø 45 x 320 Ø 32-42 x 170-310 Ø 32 x 170	milling tools milling tools milling tools milling tools milling tools milling tools milling tools
	2-axis bar turning machine	Nr. 1 Schaublin 125 Nr. 1 Schaublin 102 Nr. 1 Hitachi Seiki HT 20	Ø 30 x 170 Ø 42 x 150 Ø 51 x 350	
CNC MILLING DEPARTMENT	5-axis milling machine center and machine with 4th/5th built-in tilting rotary tables for complex parts	Nr. 2 Mazak Variaxis I 500 Nr. 1 Mazak Variaxis j 500 Nr. 1 Mazak Variaxis 630 2 pallets Nr. 1 Mazak Variaxis 500 2 pallets Nr. 1 Schaublin 33 CNC - 5 axes Nr. 1 Schaublin 32 CNC - 5 axes	501 x 500 x 405 550 x 510 x 350 630 x 630 x 500 500 x 500 x 405 500 x 500 x 470 500 x 300 x 200	pallet change pallet change pallet change
	4-axis horizontal machining center with pallet-changers	Nr. 1 Mazak HCN5000 Nr. 1 Mazak FH4800 Nr. 1 Hitachi HS 500 Nr. 1 Mori Seiki NH400DCG	730 x 730 x 800 560 x 560 x 610 500 x 500 x 500 500 x 500 x 500	multi pallet pallet change pallet change pallet change
	vertical machining center	Nr. 2 Mazak VTC 300 C - 4° axes Nr. 1 Mazak mod. VTC 200B - 4° axes Nr. 1 Mazak mod. VCN Nexus 510C III Nr. 1 Spinner MC 650-P - 4 axes - 2 pallets Nr. 1 Chiron FZ 12W - 4 axes - 2 pallets	1740 x 760 x 660 1300 x 570 x 510 1120 x 510 x 500 500 x 500 x 400 500 x 300 x 300	central partition central partition pallet change pallet change

COMPLEMENTARY MACHINING

QUALITY CONTROL AND METROLOGY FACILITY

TECHNICAL / PLANNING OFFICE

cnc surface and profile grinding machine	Nr. 1 Kent	700 x 350
electric discharge machining (wire-cutting) for detail cutting and shaping	Nr. 1 Makino UP32j Nr. 1 Charmilles Robofil 440 Nr. 1 Charmilles Robofil 440 CC	380 × 300 550 × 400 550 × 400
hole drilling electric discharge machine	Nr. 1 CR611 CNC	Ø 0,3-3,1 x 200
traditional tooling machine	Nr. 2 traditional turning CU 400 Nr. 3 traditional milling machine Nr. 1 sharpening Tacchella	200 x 1500
laser marking	Nr. 1 Sisma Big Smark 200F	
bandsaws sandblaster	Nr. 3 (MAP Shark 330 Axis, Pedrazzoli, Thomas) Nr. 2 CP mod. C800	
3D measuring machines	Nr. 1 ZEISS Contura G2 Nr. 1 Etalon derby 454	1000 x 700 x 600 500 x 460 x 340
optical measuring machine	Nr. 1 Vicivision MTL 500 EVO	Ø 120X500
roughness tester digital altimeter profiles projector hardness tester calipers (digital and dial) gauge calipers inside/outside micrometers dial Indicators smooth and threaded gauges bore gauge smooth and threaded rings	Nr. 1 Mitutoyo surftest 301 Nr. 2 (Testa Mcrohite 350, Mitutoyo 600) Nr. 1 Orion 400H (Quadra-check control) Nr. 1 Ernst AT 200DR Nr. 71 Nr. 2 Nr. 47/39 Nr. 33 Nr. 112 Nr. 6 Nr. 86	

2D drawing software 3D solid design CNC programming

Nr. 1 stations Extracad

Nr. 2 stations Solidwork

Nr. 2 station Solidcam, Esprit (3 stations), Camware





KEY TECHNOLOGIES/ SERVICES:

- + professional advice during design phase
- + turning
- + milling

a

- + rectifying
- + micro-drilling
- + wire-Cut EDM
- + fitting
- + assembly
- + outsourced thermal and surface machining + testing

CONTACTS/

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