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ABOUT US

The company **Erre Enne** was founded in 1968 in Carpi, Italy. Initially, the major field of activity was the production of precision mechanical machines.

Its core activity revolved mainly around boring and this has developed an excellent relationship with the company COMAU, a member of the FIAT-group and manufacturer of machine tools, based in Turin. At the same time, it embarked upon the engineering of special manifold units and heads for the FERRARI company.

In 1975, the company moved into its current 16147 SqFt factory in a new industrial area and began with the production of customised tools and parts according to the client's wishes, with the help of production processes such as casting (cast iron and aluminium), electro welding as well as the fabrication of work pieces out of a solid block of material.

After having been successful with planned investments and with the idea of future improvements, the company acquired an additional 19376 SqFt plot adjacent to the existing one.

The company **Erre Enne** is also specialised in: the production of precision mechanical parts, as well as construction, assembling and testing of machine parts and industrial tooling.

On 1st October 2002 the company **Erre Enne** was awarded with the certification for their quality system according to UNI-EN ISO 9001-2008 with the certification number 50 100 2098.

The company **Erre Enne** is also available for further additional customer requirements of homologation for different standards that may be needed.

CUSTOMERS

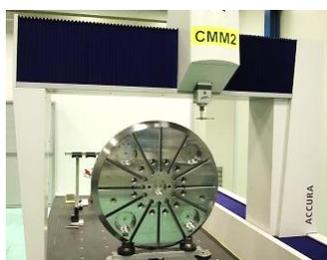
The company is a supplier of leading Italian industries, such as:

FERRARI – ACMA - AGUSTA ELICOTTERI - ANSALDO ENERGIA – BENELLI ARMI – BERETTA ARMI – BRETON – BTB Transfer - BUFFOLI Transfer - CARNAGHI - COLGAR - COMAU – DANIELI & C. – EMCO Group – EMMEGI – FAMAR - FPT INDUSTRIE – GALILEO ALENIA SPAZIO – GARDNER DENVER div. ROBUSCHI - G.D. – G.D.M. – G.E. OIL & GAS NUOVA PIGNONE - GILDEMEISTER ITALIANA – GNUTTI Transfer - JOBS – L.C.M. - MANDELLI - MECCANICA NOVA – MECOF – MINGANTI - OMV - PAMA – PAPPAS - RIELLO SISTEMI - SACMI – SAMPUTENSILI.

International Customers:

MIKRON AG – DOOSAN INFRACORE Co. Ltd. – FFG WERKE GmbH – MADAULA S.A.
STARRAG Group. GmbH – WFL Millturn Technologies GmbH – EMCO Maier Ges.m.b.H.

From 1986 to 1990 the company **Erre Enne** was one of the approved suppliers of the Italian Ministry of Defence.



OUR PRODUCTS

- Cost and time-budgeting
- Precision machining, including milling – boring –grinding and if required assembling;
- Supply of tested and assembled units
- Dimensional / geometric testing
- Turnkey management of orders with the supply of raw materials, commercial components and bespoke outsourced machining
- Development of prototypes

Here are some examples of the products that have been supplied: multiple boring heads for drilling – tapping, pallet changing systems, transfer control tools, restraint systems and positioning tools, mandrels, slides, tables and columns for machine tools, transfer operating units. The company is particularly renowned for the production of its index heads (360-degree-revolution), heads for electrically operated mandrels and tilting tables for boring and milling machines.

RESOURCES

Infrastructure

High Precision Unit: temperature [$\pm 0,5\text{ C}^\circ$] stratified with relaunch towers.

Factory 1: 16147 SqFt, with 1615 SqFt office space, 700 SqFt testing unit 1, 11841 SqFt CNC unit; 7055 lbs overhead bridge crane

Factory 2: 19376 SqFt, with 3230 SqFt office space, 1077 SqFt testing unit 2, 14424 SqFt high precision machining unit, 11023 lbs overhead bridge crane, 5512 lbs fork-lift..

Temperature, weather conditions, are controlled in automatic and stable and maintained constant in another into factories [$\pm 1,5\text{ C}^\circ$ 365 days/year].

Staff

Chairman of the Board of Directors

CLAUDIO RIGHI

Head of the Technical Coordination Dept.

CLAUDIO RIGHI

Head of the Administration Dept.

amministrazione@erre-enne.it

Product Manager

MARCO FARINA

QA Manager

MARCO FARINA

Sales Manager

ALBERTO GEMELLI

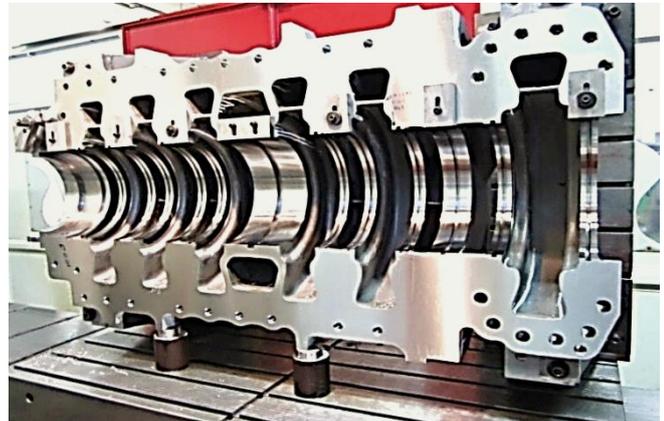


Actually, 32 people are working for the company.



Production unit

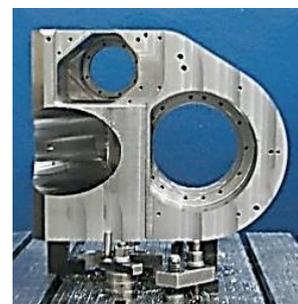
CNC-machines-unit



n.1 **BRAGONZI TB100** horizontal boring machine with travelling column and HEIDENHAIN-CNC-system, controlled rotary table with 360,000 positions, 60-pieces-automatic tool changing unit.

Sleeve diameter: 100 with 550 mm run

Runs: X 3000 Y 1500 Z 1000



n.1 **CASTEL GREEN** horizontal boring machine with SELCA 4045 CNC, controlled rotary table with 360,000 positions

Sleeve diameter: 110 with 550 mm run

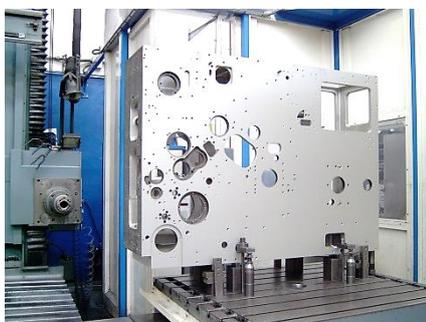
Runs: X 3000 Y 1500 Z 1500



n.1 **S. ROCCO FUTURA 110** horizontal boring machine with SELCA 3040 CNC, controlled rotary table with 360,000 positions, 50-pieces-automatic tool changing unit.

Sleeve diameter: 110 with 500 mm run

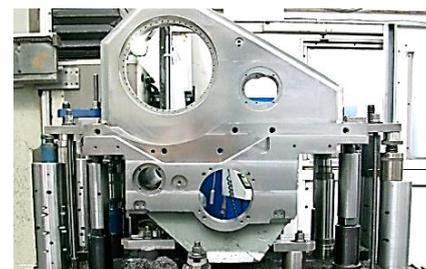
Runs: X 2000 Y 1500 Z 1000



n.1 **PAMA AT130** horizontal boring machine with SELCA 3045 CNC, controlled rotary table with 360,000 positions, 54-pieces-automatic tool changing unit.

Sleeve diameter: 130 with 750 mm run

Runs: X 2600 Y 2000 Z 1600



n.1 **BRAGONZI CREUSAMATIC 100** horizontal boring machine with SELCA 4045 CNC, 60-pieces-automatic tool changing unit.

Sleeve diameter: 100 with 450 mm run

Runs: X 2000 Y 1100 Z 1000



n.1 **STS AVANTGARDE** horizontal milling machine with SELCA 4045 CNC, universal automatic milling head and rotary table, 30-pieces-automatic tool changing unit.

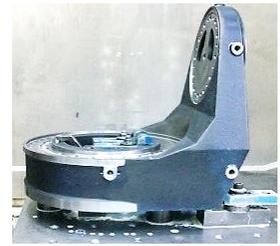
Runs: X 3000 Y 2000 Z 1500



n. 1 Machining centre with travelling column **DECKEL-MAHO DMF 360 LINEAR ISO 50**, 80-pieces-tool changing unit, automatic pan-tilt index milling head 1°, rapid feed X/Y/Z 100/60/60, with SIEMENS 840D CNC, continually horizontally and vertically moving table (4-axis).

Runs: X 3600 Y 920 Z 820





n.1 DECKEL-MAHO DMC 125 U HI DYN 5-axis universal machining centre with 120-pieces-tool box capacity, automatic pan-tilt milling head, mill plus it control with 3d CNC, 2-station pallet changing system.

Pallet size: 1000 x 800

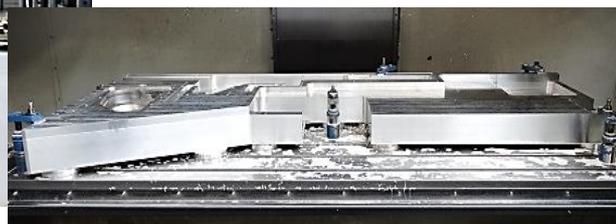
Runs: X 1250 Y 880 Z 800



n.1 DECKEL-MAHO DMC 70 EVOLUTION 5-axis universal machining centre with 60-pieces-tool box capacity, mill plus it control , with 3d CNC, 2-station pallet changing system.

Pallet size: 500 x 500

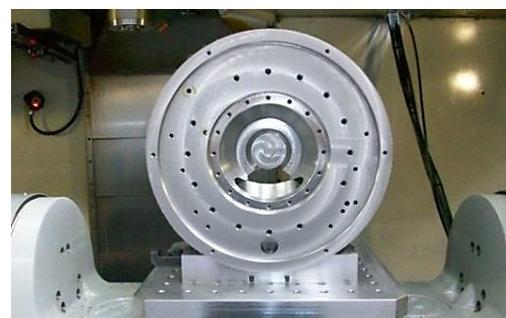
Runs: X 750 Y 600 Z 520



n.1 HAAS VF9 iso 50 vertical machining centre with a 30-pieces-automatic tool changing unit, high pressure cooling (70 bar) through the mandrel, sensor for workpiece measurement and a dynamic measuring function for the tools.

310 mm 4-axis-CNC-dividing head 5-axis swivelling table

Runs: X 2134 Y 1016 Z 762



n.3 HAAS VF6 / VF6SS extended (Z-axis) high speed vertical machining centre with 40-pieces-automatic tool changing unit, high pressure cooling (70 bar) through the mandrel, sensor for workpiece measurement and a dynamic measuring function for the tools.

310 mm 4-axis-CNC-dividing head

Runs : X 1625 Y 812 Z 862



n.2 **HAAS VF3** high speed vertical machining centre, 24-pieces-automatic tool changing unit, FANUC control system, cooling function through the mandrel.

310 mm 4-axis-CNC-dividing head

Runs: X 1050 Y 500 Z 635

n.1 **SASS** radial drill; sleeve with 400 mm

n.1 **INVEMA FRB 1250** radial drill

n.1 **GRAZIANO SAG 210** parallel lathe

n.1 **BERMI-MATIC** horizontal grinding machine

Runs: X 400 Y 150



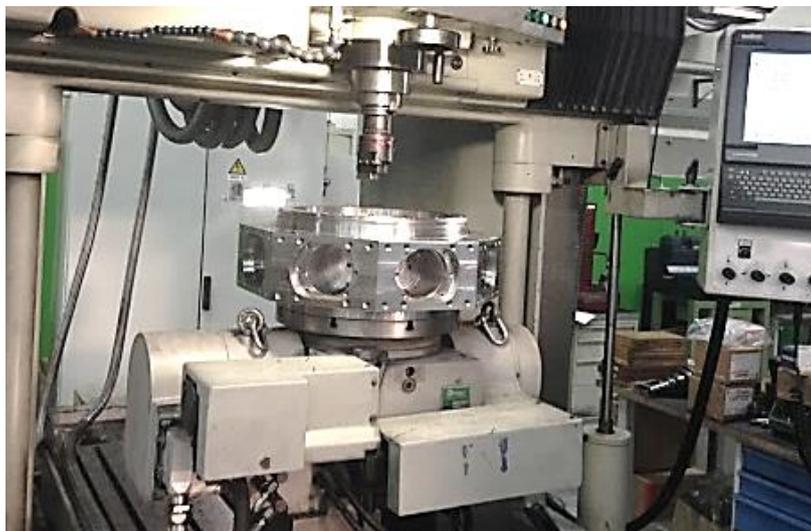
n.1 **FAVRETTO MC 130 CN** horizontal grinding machine with magnetic table

Runs: X 1300 Y 750

Accuracy Unit CNC Heated-Deaerated Unit $\pm 0,5 \text{ }^{\circ}\text{C}$



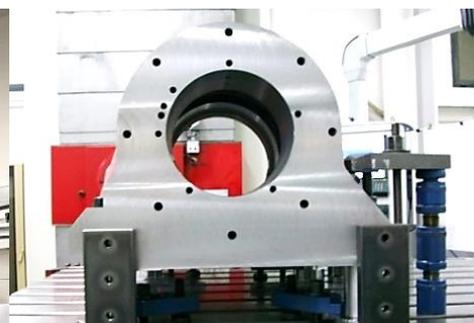
n.1 SIP GENEVOISE CNC 740 vertical boring machine with SELCA 4045 CNC and hydrostatically supported sleeve, completely overhauled
tilting dividing head **EIMELDINGEN BNCN 340** + Rotary table **EIMELDINGEN AN40**
Runs: X 1400 Y 1000 Z 1000



n.1 **SIP GENEVOISE CNC 640** vertical boring machine with SELCA 4045 CNC and hydrostatically supported sleeve, completely overhauled
tilting dividing head **EIMELDINGEN BNCN 340** + rotary table **EIMELDINGEN AN40**
Runs: X 1000 Y 700 Z 780



n.1 **SIP GENEVOISE CNC 600** vertical boring machine with Fanuc CNC and hydrostatically supported sleeve, completely overhauled
tilting dividing head **GENEVOISE PI 450** + rotary dividing head **ROTOPTIC**
Corse: X 1000 Y 700 Z 780



n.1 DIXI 410 vertical boring machine with Fanuc CNC, completely overhauled.

Corse: X 1400 Y 1200 Z 1000

Accuracy Unit



n.3 SIP GENEVOISE HYDROPTIC 6 vertical boring machines with display, digital readouts and completely overhauled.

GENEVOISE PI 450 tilting dividing head

ROTOPTIC rotary dividing head

Runs: X 1000 Y 800 Z 700



n.1 SIP GENEVOISE HYDROPTIC 7 vertical boring machine with extended Z-axis and display, digital readouts and completely overhauled.
GENEVOISE PI 450 tilting dividing head
ROTOPTIC rotary dividing head
Runs : X 1400 Y 1000 Z 1800



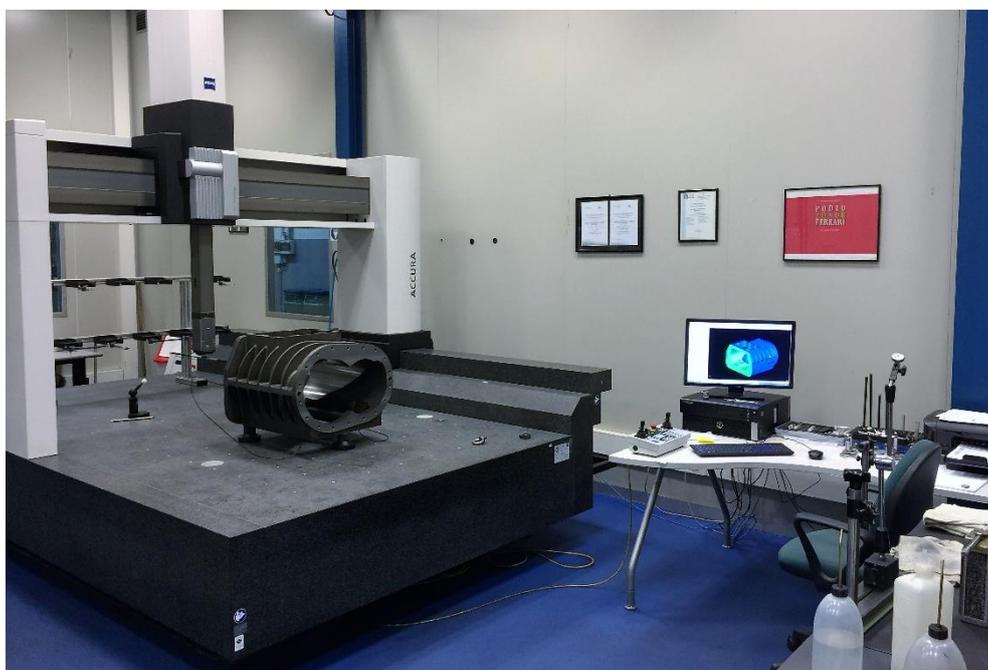
n.2 SIP GENEVOISE HYDROPTIC 8 vertical / horizontal boring machines with 2 operating heads, digital readouts and completely overhauled.
GENEVOISE PI 450 tilting dividing head
ROTOPTIC rotary dividing head
Runs: X 1400 Y 1000 Z 900

Testing Unit 02 Air-conditioned metrology rooms

Testing Unit 1



n.1 **ZEISS ACCURA 2400-1200-1000** three-dimensional measuring centre with a VAST XT continuously scanning measuring head, controlled by “CALYPSO” with “HOLOS MEASURE” and “HOLOS DIGITIZE” as software applications.
Calibrated every year by the manufacturer.



n.1 **ZEISS ACCURA II 3000-1600-1000** three-dimensional measuring centre with a VAST XT continuously scanning measuring head, controlled by “CALYPSO” with “HOLOS MEASURE” and “HOLOS DIGITIZE” as software applications.
Calibrated every year by the manufacturer.

Testing Unit 2



n.1 **LEITZ PMM 12.10.6** three-dimensional measuring machine with **1200 x 1000 x 600** control volume, head TESA STAR M 5° controlled by the CAPPS ADVANCED software application. Calibrated every year by external organisation entitled.



n.1 **DEA JOTA 1203** three-dimensional measuring machine with **1340 x 1025 x 665** control volume, controlled by the “TUTOR” software application. Calibrated every year by external organisation entitled.

- **TESA MICRO-HITE II** digital altimeter with 800 mm measurable height, on 1600x1200 000-degree granite base.
- **TESA HITE** digital altimeter
- **Compac-Tesa-Mitutoyo** analog bore gauges (for internal measurement)
- **Mahr** and **Mitutoyo** micrometers (for external measurement)
- **Tesa** micrometers (for internal measurement)
- **Tesa** and **Mitutoyo** setting rings
- Ceramic 0-degree **Johansson** gauge blocks (**Mitutoyo**)
- Certified sample by the national italian measurement office
- **Mitutoyo SJ-210** roughness meter
- **GALILEO** durometer
- **TRYMOS SYLVAC “Horizon 500”** calibrating table for bore gauges

Computer System

The company's computer system runs on a network of 2 servers and 10 client pc's, which support all the business activities. The most important software applications include:

- A business administration system called “SIM2000”
- A production software system called “OSL GP9oplus” supported by barcode scanners used in the production area
- “Autocad LT”, a software for reading and producing technical drawings
- “Mastercam” for programming the machines equipped with the CNC-system
- “Taras” software, for calibrating the tools

The computer system is connected to the outside by a broadband Internet connection (HDSL), enabling fast transmissions of documents and data as well as sales and marketing communication via e-mail. The system is protected with a hardware firewall.

OBJECTIVES

Throughout **Erre Enne's** forty-year-history, the main objective has always been **the customer's satisfaction**, in a market where competition longs for more and more concrete responses to an increasingly complex, detailed and intransigent demand by the customers.

The company's response to these market requirements is to adopt a policy that focuses on a constant search for improvement and investments, also aiming at improving staff skills and the use of cutting edge machinery and tools.

Our experience in various sectors has allowed us to continue to strengthen and enhance our technical, commercial and manufacturing departments, with the aim of expanding our know-how and developing modern production technologies.