SPINDLE REPAIR SERVICES











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From the Basque Country & Italy

Two strategic plants to cover worldwide new and repair spindle demand.

MYL

It is now more than 50 years and thanks to the strong innovative spirit of its founder, Manuel Gil Cengotita, since MYL began its existence in workshops of just 200 m² in Elgoibar, with the design, manufacture and repair of machine tool spindles. Thus a flexible, family business was created that wanted to be near-at-hand for its customers, an attitude that MYL maintains to this day, as we are convinced that this is the only and best way to respond to the needs of those who rely on our work.

SMZ ITALIA

SMZ Italia was born in 1998 and for over 20 years it has been a reference in the sector with over 20,000 repaired spindles. The experience gained in the past as the exclusive service of GAMFIOR products and other brands has consolidated the current company cornerstones such as: know-how, quality, speed and punctuality in the service offered.





The Keys 6



02

The Keys

The pillars on which we are founded.

Experience

More than 45 years of existence has enabled us to build up an inestimable database and valuable knowledge of the product and market.

Near-at-hand

To be able to speak to, our customers as only in this way will we get to know their real needs, treating every model with the devotion and level of detailed care that it deserves.

Design and retrofitting

We are capable of manufacturing and retrofitting special spindles adapted to customer needs.

Flexibility

To be able to respond to the needs of our customers, whoever they are.

Quality

Quality must be seen, touched and felt, therefore each one of the manufacturing and repair process stages is very carefully controlled.

Traceability

From the arrival of the spindle to final repair. Each and every one of the steps is strictly controlled, identified and monitored by our team of professionals.

3D design

Each and every one of the designs on which we work is prepared in 3D by a specialised team and expert.

Customisation

We customise and adapt any design that our customers require. Our technological capability and flexibility allows us to design a new spindle or retrofit following the technical specifications of the customer.



Service portfolio



03

Service portfolio

Either high Frequency spindles, belt driven spindles, Hydrostatic spindles or roller-bearings.

With more than 30.000 spindle repairs in our background we offer the best and quickest solutions for any kind of spindle, whether machining center, milling, grinding, drilling or turning.

12 MONTHS WARRANTY repair services. With us you play it safe.

REPARABLE BRANDS:

ANAYAK | AWEA | AXA | BRETON | BRIDGEPORT | C.B. | FERRARI | CAPELLINI | CHIRON | CINCINNATI | CINETIC LANDIS | CMS | COMAU | CYTEC | DAEWOO | DANOBAT | DKF | DMG | DOOSAN | DROOP+REIN | EMCO | ENSHU | EX-CELL-O | FADAL | FAEMAT | FAG | FAGIMA FAMAR | FISCHER | FORREST | FTP | GAMFIOR | GFAS | GIORDANO COLOMBO | GMN | GOIALDE | GORATU | GROB | HAAS | HAUSER | HELLER | HERMLE | HITACHI | HSD | HÜLLER HILLE | HURCO | HURON | IBAG | IBARMIA | IMA TECNO | IMT | INDEX | JOBS | JUNG | KAPP | KESSLER | KIRA | KITAMURA | KIWA | KOVOSVIT | MANDELLI | MATSUURA | MAZAK | MECCANICA NOVA | MECOF | MITSUBISHI | MORI SEIKI | NIGATA | NSK | OKK | OKUMA | OMLAT | OMV | PARPAS | PFAUTER | RECKERTH | REMA CONTROL | RIELLO | RÖDERS | SAMPUTENSILI | SCHAUDT | SCM | SEIKO SEIKI | SIGMA | SKF | SODIK | STAMA | STARRAG-HECKERT | STEP-TEC | SW | TAKUMI | TOSHIBA | UVA | VIGEL | VOUMARD | WEISS | ZAYER | ZPS





Service portfolio

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01

Design and production for new spindles

We design and build reliable high frequency and belt driven spindle for milling and grinding machines under catalogue request or on demand for special application. 02

Spindle and high frequency spindle inspection on machine

We carry out on request inspections to check the wear status of spindles and high frequency spindle by checking:

- Vibration level testing
- Bearing condition
- · Signals and sensors
- Tool clamping force
- Run-out

03

Predictive Maintenance

It is an activity to monitor the spindle and electrospindle status, in order to plan in advance eventual repair activities.

- · Initial functioning verification
- Parameter verifications: vibration, noise, temperatures
- · Bimestral verifications
- · Result analysis
- · Intervention proposals
- · Improvement proposals

04

Disassembly & Assembly on the machine

If necessary, we take care of the disassembly and assembly of the machine's spindle, directly or through specialized companies on machine types ,with our long experience in the sector.

- Quick assistence
- Ensuring that the montages and their controls are carried out correctly





05

Spindle care services

We offers Spindle's care service, which consists in taking care of your spindles and electrospindles while they are on our premises.

We also offer the possibility to keep in store your spare spindles and electrospindles, in order to guarantee a quick and efficient substitution whenever it is needed.

The spindles and electrospindles will be stocked in our Spindle's care area, and we will guarantee that it will be stored correctly and serviced regularly.

When required, your spindle/electrospindle will be returned to you immediately, and the 12 months guarantee will be effective from the delivery date onward.

Your own spindle /electrospindle, stored on our premises, ready to be mounted/loaded on the machine tool.

06

Maintenance training

Training sessions held at our premises with the objective to improve the knowledge of spindles and electrospindles use and efficiency.

- · Basic Theory
- Design
- Components
- Functioning principles
- Product practice
- · How to substitute tools, collets, sensors
- · Failure analysis
- Ordinary maintenance

07

Spare parts

We can provide spare parts and consumption components for spindles and electrospindles

- · Large spare parts inventory
- Delivery within 24h



Process related services

Able to provide new spindle solutions for machine tool.





Process related services



01

Receipt & Identification

When the spindle is received at our facilities, it is identified and entered into the system, and it is assigned a project number for traceability.

02

Inspection

We thoroughly inspect the spindle, analysing the condition in which the spindle was received; thus we can analyse the possible fault before dismounting.

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Check runout Check stator Check encoder Vibration analysis Check clamp source **Check positioning sensors Check for leaks**





Disassembly

We fully dismount the spindle, taking special care not to damage any component and separating and identifying each one of them.

We digitally note and store the data relating to the condition of the parts.

04

Cleaning

We thoroughly clean each component, ensuring they are in the best condition for later inspection of its geometry.





Geometrical inspection

We carry out a dimensional and geometrical inspection of all the parts. All areas of our facilities have a controlled and constant temperature to ensure all measurements are accurate.

06

Process related services

Design & Manufacture

We design and manufacture any component that can be repaired or replaced in our facilities; the technical department designs a plan for each specific repair job.





Report & Quotation

We analyse all the data in a multi departmental meeting and prepare a report and a specific quotation for the customer. 08

Assembly

We plan the assembly once the customer has accepted our quotation in our "clean assembly room".





Balancing

We balance the spindle to the highest level defined in standard ISO-10816.

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Running in test

We run-in the spindles using the original parameters, monitoring bearing and motor temperature as well as the vibration values at all times, ensuring it operates correctly once installed in the machine.





Final inspection

We carry out a thorough analysis of all the values that determine the correct operation of the spindle, this task is carried out by the same technician that previously analysed and disassembled the spindle.

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Dispatch

We package the spindle in non-reactive paper in specific packages for the protection of the spindle during transport. All the reports and instructions relating to the repair are included.



SPINDLE REPAIR SERVICES





www.myl.es www.smzitalia.com