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#### FRENCH LEADER

PRACARTIS

MARKETING AND REPAIR OF HSM ELECTROSPINDLES

SMG

DESIGN OF SPECIFIC PRODUCTS & MACHINING STRATEGY CONSULTANCY







ECISE France

> HAM PRACART

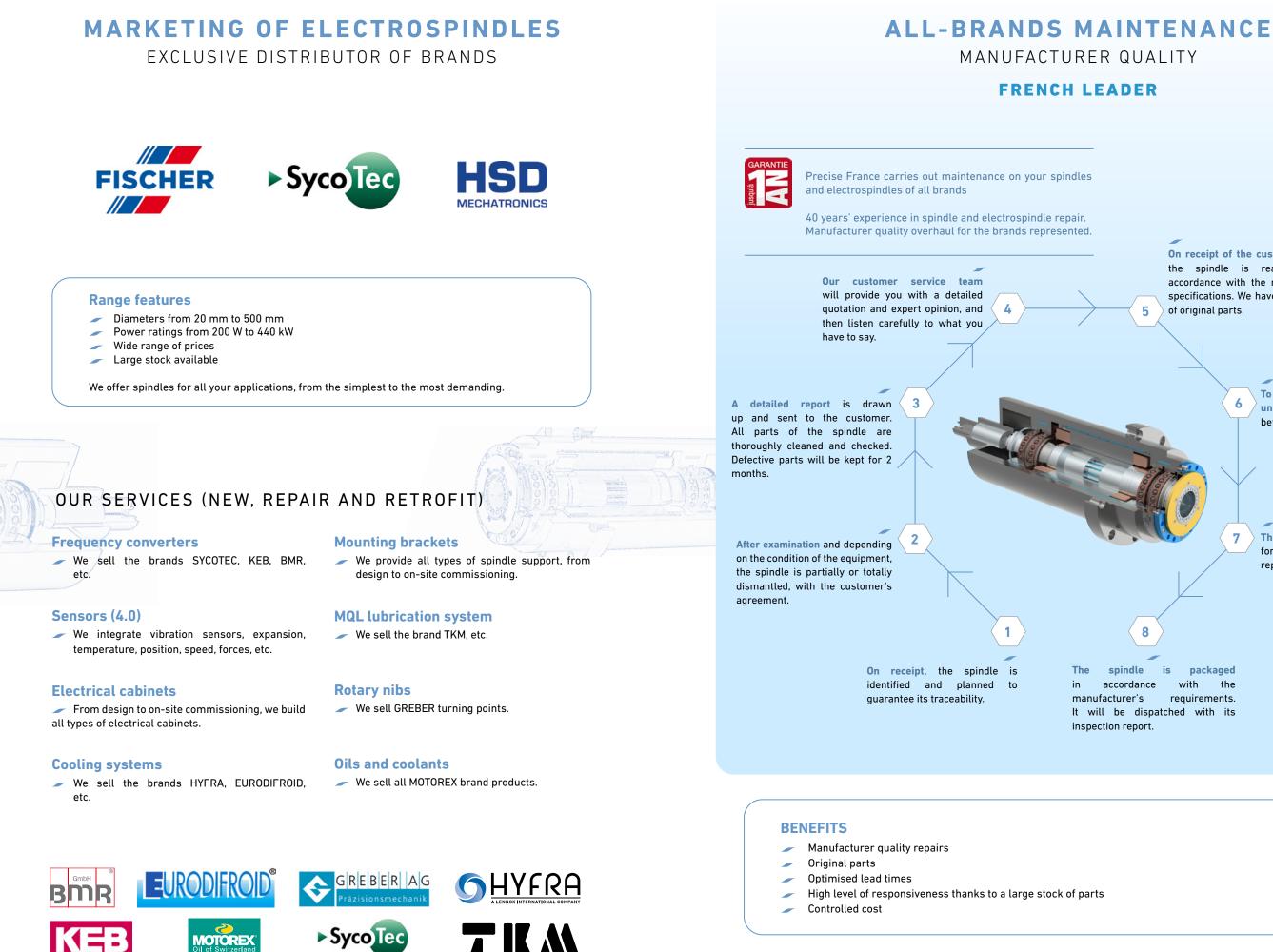
IPRACART'S



14.

PRECISE

### WE CAN MEET ALL YOUR HSM ELECTROSPINDLES REQUIREMENTS



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To achieve the lowest possible unbalance, balancing is carried out before, during and after assembly.

The spindle is run in, then tested for 8 to 12 hours under conditions representative of its use.

spindle is packaged in accordance with the manufacturer's requirements. It will be dispatched with its inspection report.

## INNOVATION WITH SPRECISE-LINE

### YOUR MADE-TO-MEASURE ELECTROSPINDLE EQUIPMENT MADE IN FRANCE

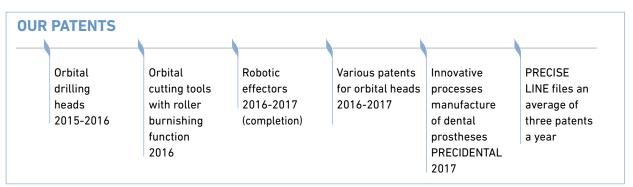


Highly technical equipment entirely designed and manufactured in-house

- ✓ PKS ORBIBOT, ORBIGEAR, ORBIPRO orbital drilling heads
- Rivet hole drilling heads with PRECIDRIL countersinking
- PRECISONIC ultrasonic cutting heads
- Completion effector PRECICHAMFER
- Portable high precision 3-axis Effector for PRECIBOT robotic applications
- Special orbital heads for Airbus
- Numerous FUI
- Orbital UPA -
- EB instrumentation for 4.0
- Special angle drive aggregate



Modification of standard FISCHER, PRECISE, FORTUNA, SYCOTEC and HSD spindles for specific applications.



### OUR SERVICES AND GUARANTEES

#### **Our service objectives**

- Reactivity
- Competitiveness
- Quality guaranteed by 40 years' experience
- Guarantees maximum performance from your tools
- Patent registration

#### Our test centre

- Test centre
- Control tables
- Spindles instrumentation (connected devices 4.0)

#### Our guarantees

- Very high precision
- A specific study tailored to your needs
- Innovative solutions
- Controlled quality
- A comprehensive service from design to use
- An R&D centre to meet your most specific needs



### THEY PUT THEIR TRUST IN US...

#### AIRBUS, DASSAULT, FIGEAC AERO, KUKA, MICHELIN, PSA, RENAULT, SABCA, SAFRAN, SONACA, STAUBLI, STELIA, THALES, ...

#### NEW APPLICATIONS FOR HIGH-SPEED ELECTRIC MOTORS PRECISE France SAS – FISCHER AG

#### **FUTURE DEVELOPMENTS** for the 100% clean electric car

## Synchronous electric traction motors

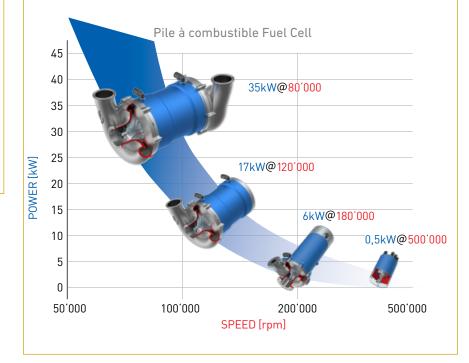
#### **Project N°1**

- Very high performance synchronous electric traction motors
- Small footprint diameter 180 mm low weight 40 kg
- Rotation 4000 rpm to 18000 rpm
- 🛹 Power S1 50 kW
- 🛹 S1 torque 150 Nm



#### **Project N°2**

- Very high performance turbopomp compressors for hydrogen engines (Fuel Cell) + heat pump
- Wear-free dynamic air bearings
- 🛹 17 kW at 120000 rpm
- 🛹 6 kW 160000 rpm
- Small footprint, low weight, maintenance-free





Founded in 1979, PRECISE France specialises in the sale and repair of FISCHER, PRECISE, FORTUNA, SYCOTEC and HSD highspeed electrospindles, as well as all the peripherals required for their correct operation. Thanks to these 5 brands, PRECISE France SAS covers a speed range up to 160,000 rpm, and a power range from 200 W to 440 kW.



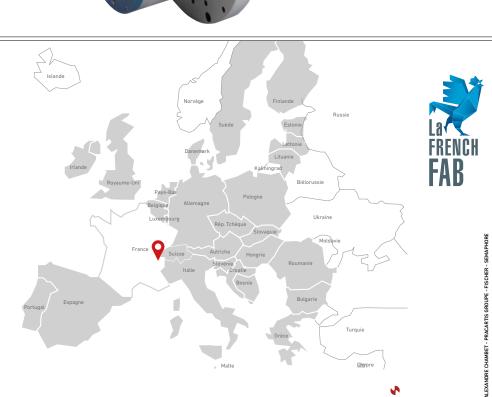






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hotos



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