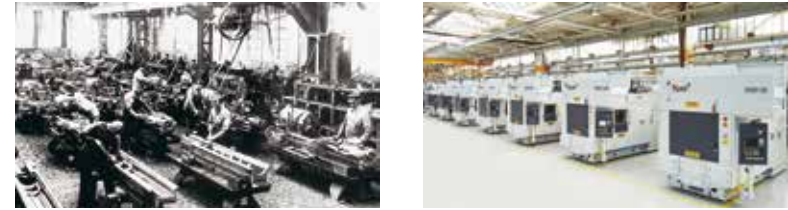


## A Tradition of Innovation – Developing Unique Heritages into a True Global Solution Provider

### Machines and engineered turnkey plants for the most advanced technological market applications

The renowned brands of FFG Europe & Americas combine their mastery in know-how and development of innovative products, the ability to integrate these into highly automated production systems and to support end-users' plants and systems through technological consultancy and after-sales services. Developing solutions is not just limited to the supply of the machine but includes high value-added technological support services, i.e. the whole machining process to entirely produce complex parts. The aim is to offer solutions tailored to customers' specific application needs, based on each brand's thorough knowhow in terms of accessories, tooling, fixtures and machining cycles.



Unique machine tool experience from more than two centuries

### Engineering since 1798

With the foundation of the Honsberg brand in 1798, and several other members still before 1900, the history of the FFG group reflects a vast expertise in engineering over centuries. Already then, brands like VDF Boehringer, Modul, Witzig & Frank, Tacchella or Rambaudi were influencing the developments in milling, turning, grinding and gear making technology, and also in their customer industries. This tradition of innovation is being continued, be it in the Aerospace industry, where Jobs has recently pioneered in new machining solutions and integrated technologies or in the Automotive industry, where MAG is working simultaneously with its customers to advance the productivity and sustainability of engine production.

### The global Fair Friend Group – at home on every continent

The Taiwan based Fair Friend Group is a world leading industrial conglomerate with over 80 companies operating in the fields of Machine Tool Technology, Industrial Equipment and Green Technology. Founded in 1979 in Taiwan, FFG developed into the largest local machine tool manufacturer with major brands like Feeler and Leadwell. From 1989, the growth strategy included international acquisitions in the USA, Italy, Germany, Japan, India, South Korea, and Switzerland, forming the FFG Europe & Americas group. The regional groups within FFG work hand in hand to develop and provide the right portfolio for each market.

### Globally local – Headquarters and manufacturing locations across the globe (excerpt)



Eisligen/Fils, DE



Piacenza, IT



Utztenstorf, CH



Sterling Heights, US



Changchun, CN



Bangalore, IN



### About FFG Europe & Americas

FFG Europe & Americas unite major players from the German, Italian, Swiss and American machine tool industry with a broad range of milling, turning, grinding, and gear manufacturing technology, and the knowhow of the renowned machine tool brands VDF Boehringer, Corcom, Digital Factory, Hessapp, IMAS, Jobs, MAG, Modul, Morara, Pffinner, Rambaudi, Sachman, Sigma, SMS, Tacchella and Witzig & Frank. Since 1798, these brands have substantially contributed to the progress in industrial manufacturing and are well known as reliable and innovative equipment and systems solutions suppliers for the automotive and truck, aerospace, machine building, general machining, railway industry, energy and heavy engineering industries. While being an independent group, these entities benefit from the strengths and opportunities of the global Fair Friend Group. They stand for premium technology within FFG.



### FFG Europe & Americas Headquarters

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MAG IAS GmbH**  
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Fax +49 71 61 805-223

**Jobs Spa**  
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Tel. +39 0523 549 611  
Fax +39 0523 549 750

**K.R. Pffinner AG**  
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CH-3427 Utzenstorf  
Tel. +41 32 666 35 35  
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**MAG Automotive, LLC**  
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Sterling Heights, MI 48321, USA  
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FFG Europe & Americas

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## FFG EUROPE & AMERICAS PRODUCT GUIDE



VDF BOEHRINGER

CORCOM

DIGITAL FACTORY

HESSAPP

IMAS

JOBS

MODUL

MORARA

Pffinner

RAMBAUDI

SACHMAN

SIGMA

SMS

TACHELLA

Witzig & Frank

WWW.FFG-EA.COM

Turning and Gear Manufacturing Technology

## VDF BOEHRINGER

**Universal Turning Machines**  
VDF DUS SERIES



**Horizontal Turning and Turn/mill Centers**  
VDF T SERIES



**Crankshaft Machining**  
VDF 221/226 Cx



## HESSAPP

**Pick-up Vertical Turning Machines**  
DVH SERIES



**Dual Spindle Pick-up Vertical Turning Machines**  
DVT SERIES



**Vertical Turning Machines**  
VDM SERIES



**Vertical Shaft Turning Machine**  
WDM 250



## MODUL

**Hobbing Machines**  
H 80 - H 400 SERIES



**Hobbing Machines**  
H 600 - H 2300 SERIES



**Chamfering and Deburring Machines**  
CD/CDA/CDM SERIES



**Skiving Machine**  
VS 250



Machining Centers and Manufacturing Systems

## MAG

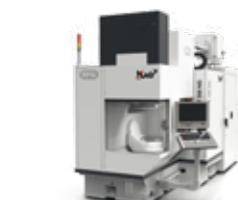
**CNC System Machines**  
SPECHT® SERIES



**CNC Dual Spindle System Machines**  
SPECHT® DUO SERIES



**Single Spindle CNC System Machines**  
5-Axis Simultaneous Machining  
SPECHT® 500 NG



**Manufacturing Systems and Transfer Concepts for Volume Production**  
AGILE MANUFACTURING SYSTEMS



Grinding Technology

## TACHELLA

**External Grinding Machines**  
CROSSFLEX A1100



**Universal Grinding Machines**  
ELEKTRA 1700



**Universal Grinding Machines**  
ePROFLEX 1100 GL L/I/R



## MORARA

**External Grinding Machines for Railway Axles**  
MT2500 HD



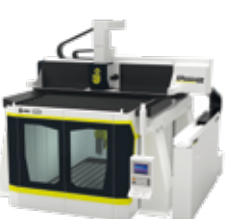
**Internal Diameter Grinding Machines**  
MT500 ID



Vertical Machining Centers and Large Part Machining Systems

## JOBS

**Overhead Gantry Milling Centers**  
GRANDSPEEDER ULTRA



**Overhead Gantry Type Milling Centers**  
SPEEDER SERIES



**Laser Overhead Gantry**  
LASER SPEEDER



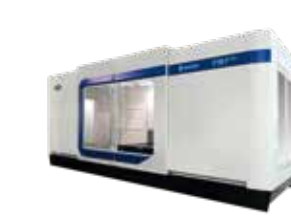
## SIGMA

**3-Axis Vertical Machining Centers with Cross-table**  
MISSION



## SACHMAN

**Bed-type Milling Machines**  
T SERIES



**Moving Column Milling Centers**  
FRAZER BOX (MILLTURN)



**Linear Motor Overhead Gantry Type Milling Centers**  
LINX SERIES



**Overhead Gantry Type Milling Centers**  
EVER SERIES



**Moving Gantry Milling Centers**  
JOMAX SERIES



**5-Axis Vertical Machining Centers**  
VORTEX



**Moving Column Milling Centers**  
FRAZER OPEN



**Moving Column Horizontal Milling Centers**  
THOR SERIES



**Bridge Type Milling Centers**  
TARKUS SERIES



**Moving Column Milling Centers (T Configuration)**  
TRT1000



**Moving Column Drill & Trim Centers**  
ROBODRIM



**Horizontal Machining Centers**  
HORIZON



**Overhead Gantry Type Milling Centers**  
RC270



**Automation**  
Subsequent levels of automation applied to machine tools



Multispindle and Rotary Transfer Technology

## Pfiffner

**Machining of complex workpieces**  
RT ROTARY TRANSFER CENTER



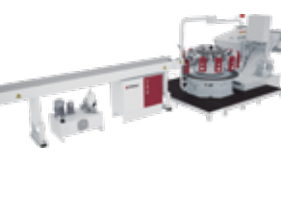
**Flexible Multi-way Machining**  
HYDROMAT® HC-U EPIC<sup>plus</sup>



**Benchmark for Series Production**  
HYDROMAT® HC EPIC<sup>plus</sup>



**Reduced to the Essentials**  
HYDROMAT® LEAN



## Witzig & Frank

**Vertical Rotary Transfer Machines**  
TURMAT SERIES



**Horizontal Rotary Transfer Machines**  
LSA SERIES



**Vertical Multistation Machining Center**  
UNIFLEX



**Horizontal Multistation Machining Center**  
TRIFLEX SERIES



Service, Engineering

**Support**



**Spare Parts**



**Spindle Service & Components**



Industry 4.0

THE FOUNDATION OF DIGITAL ENTERPRISES

**DIGITAL**  
FACTORY

