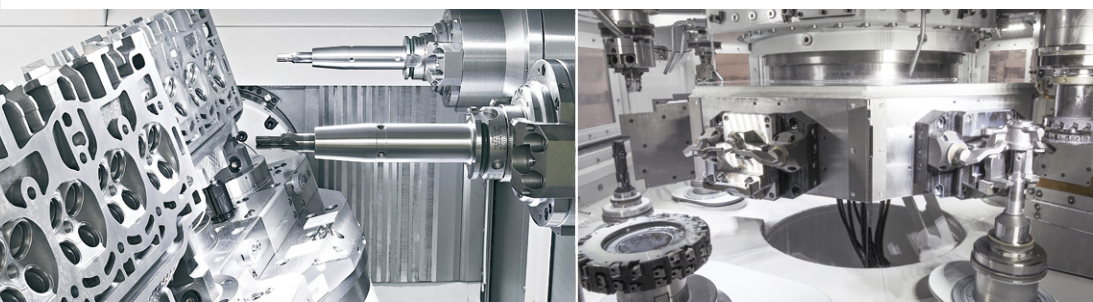
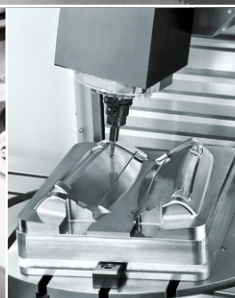
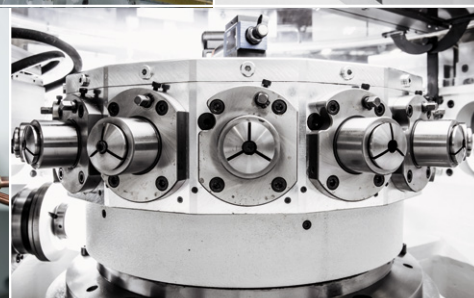
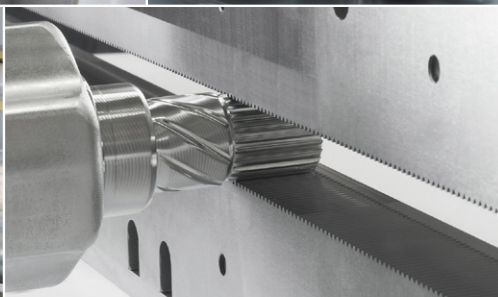
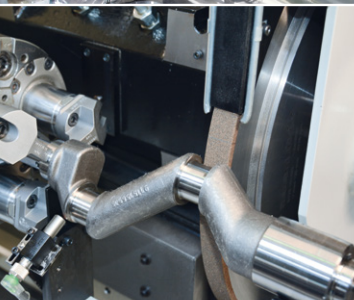


# FFG EUROPE & AMERICAS PRODUCT GUIDE



**THE PERFECT  
MACHINE FOR YOUR  
APPLICATION**



**VDF BOEHRINGER**

**HESSAPP**



**meccanodora**



**MORARA**

**Pfiffner**



**TACCHELLA**

**WITZIG & FRANK**

[WWW.FFG-EA.COM](http://WWW.FFG-EA.COM)

# BRANDS PORTFOLIO



## VDF BOEHRINGER

### Universal Turning Machines VDF DUS SERIES



### Horizontal Turning and Turn/mill Centers VDF T/TM SERIES



### Crankshaft Machining VDF 221/226 Cx



### Horizontal Turning Center VDF 350 TM SHOP



## 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



## MAG

### Evolute Spline Coldforming Machine XK SERIES



### Universal Ball Track Cutting Machine XG SERIES



## meccanodora

### High Speed Tripod Grinder MECCANODORA 1200-HS



### Soft and Hard Milling Window Cage MECCANODORA 4200-F



## MAG

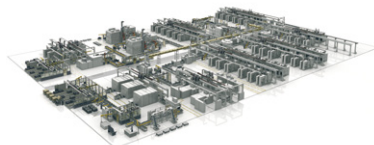
### CNC System Machines SPECHT® SERIES



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



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



### Horizontal Machining Center HMC 630<sup>SHOP</sup>



### Standardized Automation Solutions MAG CELL



## MORARA

### External Grinding Machines for Railway Axles MT2500 HD



### Internal Diameter Grinding Machines MT500 ID



## TACCHELLA

### External Grinding Machines CROSSFLEX A1100



### Universal Grinding Machines ELEKTRA 1700



Grinding Technology

Turning and Gear Manufacturing Technology

Machining Centers and Manufacturing Systems



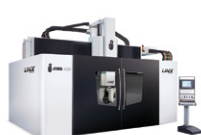
# BRANDS PORTFOLIO



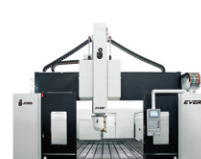
**Overhead Gantry Type Milling Centers**  
SPEEDER SERIES



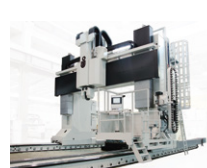
**Linear Motor Overhead Gantry Type Milling Centers**  
LINX SERIES



**Overhead Gantry Type Milling Centers**  
EVER SERIES



**Gantry Type Milling Centers**  
JOMAX W SERIES



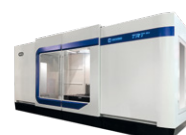
**Bridge Type Milling Centers**  
TARKUS SERIES



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



**Bed-type Milling Machines**  
TS10/TS10 PLUS – TRT10 – T/TRT314



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



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



**Overhead Gantry Type Milling Centers**  
RC270



**Bridge-Type Milling Centers**  
SARA



**3-axis Vertical Machining Centers**  
HV3 – FLEXI3



**5-axis Vertical Machining Centers**  
FLEXI5



**Palletized Vertical Machining**  
TANDEM



**Rotary Transfer Machines**  
IMASTRANSFER



**Flexible Rotary Transfer Machines**  
IMASFLEX 300 V & H



**Flexible Rotary Transfer Machines**  
IMASFLEX 150



**Rotary Transfer Machines**  
PT SERIES



**Rotary Machining Centers**  
RT SERIES



**Rotary Transfer Machines**  
HYDROMAT SERIES



**Vertical Rotary Transfer Machines**  
TURMAT SERIES



**Horizontal Rotary Transfer Machines**  
LSA SERIES



**Vertical Multistation Machining Center**  
UNIFLEX



**Horizontal Multistation Machining Center**  
TRIFLEX SERIES



**Support**



**Spare Parts**



**Spindle Service & Components**



Industry 4.0

THE FOUNDATION  
OF DIGITAL  
ENTERPRISES



Vertical Machining Centers and Large Part Machining Systems

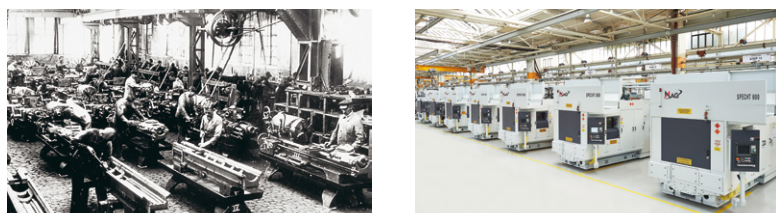
Multispindle and Rotary Transfer Technology

Service, Engineering

# 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)



Eislingen/Fils, DE



Piacenza, IT



Utzendorf, CH



Sterling Heights, US



Changchun, CN



Bangalore, IN



**VDF BOEHRINGER**

**HESSAPP**



**meccanodora**



**MORARA**



**TACCHELLA**

**WITZIG & FRANK**

## 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, Hessapp, IMAS, Jobs, MAG, Meccanodora, Modul, Morara, Pfiffner, 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

**FFG Werke GmbH/  
MAG IAS GmbH**  
Salacher Strasse 93  
DE-73054 Eisligen/Fils  
Tel. +49 71 61 805-0  
Fax +49 71 61 805-223

**Jobs Spa**  
Via Emilia Parmense, 164  
29122 Piacenza, Italy  
Tel. +39 0523 549 611  
Fax +39 0523 549 750

**K.R. Pfiffner AG**  
Sonnmattstrasse 28  
CH-3427 Utzenstorf  
Tel. +41 32 666 35 35  
Fax +41 32 666 35 55

**MAG Automotive, LLC**  
6015 Center Drive  
Sterling Heights, MI 48321, USA  
Tel. +1 586 446 7000  
Fax +1 586 446 7001