VDF BOEHRINGER · HESSAPP · IMAS · JOBS · MAG
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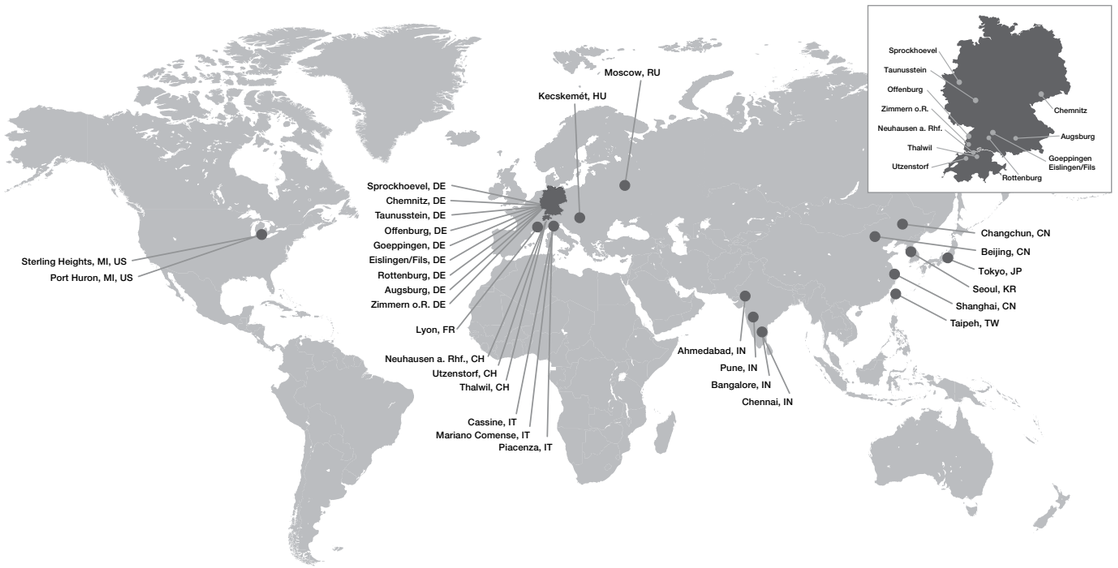
JOBS

EVER

About FFG Europe & Americas

The FFG entities in Europe and the 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.



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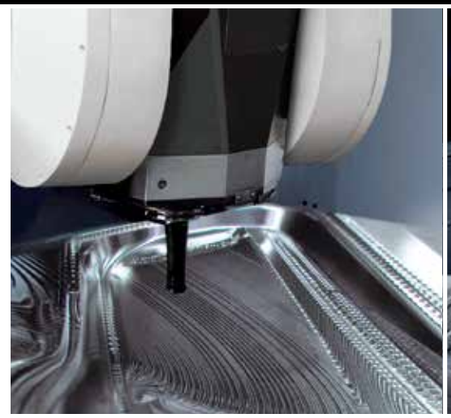

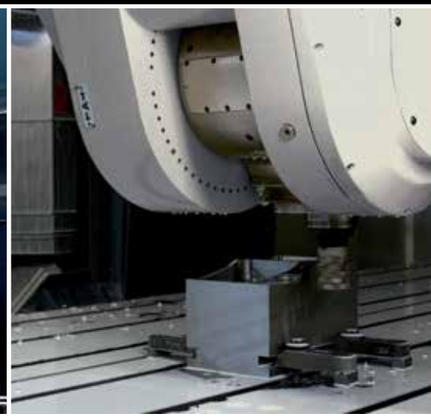

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eVer Family

Jobs' tradition in innovation is again confirmed by eVer family. eVer machine line is available in three versions:

- **eVer 1**: double column moving table machine
- **eVer 5**: mobile gantry with under floor level x-axis guides
- **eVer 7**: overhead gantry milling centre with guides on columns

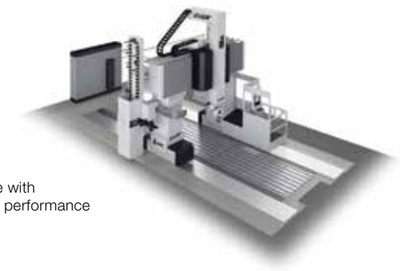
eVer 1 and **eVer 5** models are particularly suitable for the general engineering and automotive fields. These universal milling machines are designed for 5-sided / 5-axis machining.
eVer 7 is a high performance machine, which represents the best trade-off between high dynamics and high material removal rate.

eVer family machines feature:

- High dynamics (speed up to 50 m/min)
- High material removal rate
- Automatic head changing system (BUSS)
- Full enclosure for efficient containment of chips and coolant
- Wide possibilities of customized solutions and automation
- Simplified maintenance thanks to a reduced machine number of components
- Ergonomics and easy load
- Reduced operating costs
- Environment-friendly

EVER 1
Double column with moving table with maximum operating ergonomics

EVER 5
Gantry type with high milling performance



EVER 7
Overhead gantry with high dynamics and flexibility

The application markets

The key elements of the eVer family are excellent dynamics and rigidity which, combined with low operating costs, make these machines suitable for:

- General engineering
- Mould and dies
- Energy
- Aerospace

eVer vertical milling centers satisfy all contexts in terms of dimension and application.

EVER 1

Double Column with Moving Table with Maximum Operating Ergonomics

eVer 1 is a medium-size double column milling center with moving table, available in 3 and 5 axis configuration, featuring:

- Minimized hourly costs
- Reduced operating costs
- Double column with moving table
- Crossbeam structure with multi-triangle section "MT-frame"
- Dual drive traction on all axes
- Sliding on oversize multi-pads guaranteeing maximum rigidity
- Possibility of front and side part loading
- Wide range of interchangeable heads, tool changing systems and other accessories

Its versatility makes **eVer 1** the ideal solution for mould and die machining, with particular reference to large-size mould-holders and moulds; general engineering machining; energy components machining.

A wide range of accessories, such as angular attachments, electro-spindles and angular attachment extensions, is available and increases its productivity and versatility.

Motion kinematics obtained through Jobs innovative technology:

- Dual drive by rack and pinions on X, Y, Z axes
- Guideways with recirculating roller pads
- Machine ram with symmetric structure

EVER 5

Mobile Gantry with Under Floor Level X-Axis Guides, Ergonomic and Easy Load

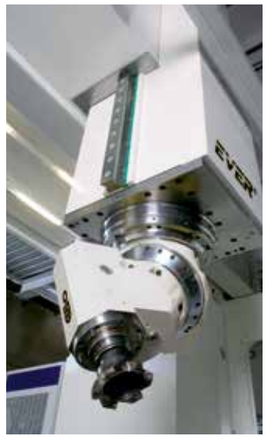
eVer 5 is a medium-size gantry type milling center for 3/3+2/4/5 axes machining with high chip removal capacity featuring:

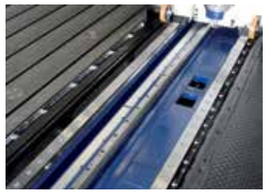
- Minimized hourly costs
- Reduced operating costs
- Under floor level X-axis guides with fixed walkable covers
- Crossbeam structure with multi-triangle section “MT-frame”
- Dual drive traction on all axes
- Sliding on oversize multi-pads guaranteeing maximum rigidity
- Possibility of front and side part loading
- Wide range of interchangeable heads, tool changing systems and other accessories

eVer 5 has been basically designed to meet job shop requirements for high-power applications in precision general engineering.
eVer 5 is available in customized versions configured either for machining simple components (with 3 axes) or for milling parts with complex geometry (with 3+2, 5 axes).

Motion kinematics obtained through Jobs innovative technology:

- Dual drive by rack and pinions on X, Y, Z axes
- Guideways with recirculating roller pads
- Machine ram with symmetric structure





EVER 7

Overhead Gantry Milling Center with Guides on Columns, Compact and Highly Efficient

eVer 7 is a medium-size mobile-gantry milling center for 3/3+2/4/5 axes machining with high dynamic performance and chip removal capacity featuring:

- Minimized hourly costs
- Reduced operating costs
- Overhead gantry structure with high dynamics and chip removal capacity
- Crossbeam structure with multi-triangle section “MT-frame”
- Dual drive traction on all axes
- Sliding on oversize multi-pads guaranteeing maximum rigidity
- Excellent enclosure for efficient chip containment and other machining residue
- Wide range of interchangeable heads, tool changing systems and other accessories

The high dynamic performances thanks to the minimized mobile masses make **eVer 7** mainly oriented to applications in the moulding and aerospace sectors.

Motion kinematics obtained through Jobs innovative technology:

- Dual drive by rack and pinions on X, Y, Z axes
- Guideways with recirculating roller pads
- Machine ram with symmetric structure

Accessories

Chain-type tool magazine with 40/60 positions ISO50/HSK-A-100

Rack-type tool magazine (different sizes available on demand)

Cast iron worktable, independent from the machine structure, available in several sizes

Pallet changing system

Possibility of automatic head changing system (BUSS option)

Automatic upper roof

Different milling heads available

T3A

T90

Universale

T35-C

T3K

Technical Data

Axes strokes		EVER 1	EVER 5	EVER 7
X axis (longitudinal) (Dual drive)	mm	4000 / 5000 / 6000 + ext.	4000 / 7000 / 8500 + ext. (1500)	4000 / 7000 / 8500 + ext. (1500
Y axis (transversal)	mm	3000 / 3500 / 4000	3000 / 3500 / 4000 / 5000	3000 / 3500 / 4000 / 5000
Distance between columns	mm	3650 / 4150 / 4650	3650 / 4150 / 4650	3650 / 4150 / 4650
Z axis (vertical)	mm	1250 / 1500	1250 / 1500	1250 / 1750
Worktable length	mm	3000 / 4000 / 5000	4000 + ext.	4000 + ext.
Worktable width	mm	2500 / 3000 / 3500	2500 / 3000	2500 / 3000
Worktable loading capacity	kg	from 7000 to 20 000	-	-
	kg/m^2	-	5000 and over	5000 and over
X, Y, Z axes speed	mm/min	up to 32 000	up to 50 000	up to 50 000

Milling heads	C axis	A axis	Power kW – S6 (S1)	Torque Nm – S6 (S1)	Spindle speed rpm	Tool taper
Universal heads						
Universale	indexed 0.02	indexed 0.02	44 (35)	1005 (800)	5000	ISO 50 HSK-A-100
Continuous twist heads						
T35-C	±200	-110 / +110	44 (35)	1005 (800)	5000	ISO 50 HSK-A-100
T3K	±200	-120 / +95	44 (35) 40 (36)	200 (160) 63 (58)	15 000 27 000	HSK-A-100 HSK-A-63
3 axis and right angle heads						
T3A	-	-	44 (35)	1005 (800)	5000	ISO 50 HSK-A-100
T90	-	-	44 (35)	1005 (800)	5000	ISO 50 HSK-A-100

Tool magazine – Chain type		
Positions	quantity	20 / 40 / 60 and others
Tool taper	type	ISO 50 / HSK-A-100 / HSK-A-63
Tool max. Ø (with tools side by side)	mm	120
Tool max. Ø (with alternate tool position)	mm	250
Tool max. length	mm	500
Tool max. weight	Kg	25

General data		EVER 1	EVER 5	EVER 7
Power supply	VAC	400 ± 10%	400 ± 10%	400 ± 10%
Frequency	Hz	50 ± 2%	50 ± 2%	50 ± 2%

The images and the technical data are for general information only and subject to change without notice.