







# PRODUCTION PROGRAM









Large-size Milling Systems & Vertical Machining Centres



# **High Speed Machines**

Machines with very high axis dynamics (up to 60 m/min speed, 5 m/sec<sup>2</sup> acceleration), high spindle speed (up to 24000 rpm), low spindle torque (up to 63 Nm)

### **SPEEDER / GRAND SPEEDER**

Overhead gantry type milling centres





AXIS STROKES	mm	inches
Χ	from 3000 to 7500+∆	from 118 to 295+∆
Υ	from 2000 to 5000	from 79 to 197
Z	from 1200 to 3000	from 47 to 118
AXIS SPEED	mm/min	ipm
X-Y-Z	up to 60000	up to 2362
HEADS		
T2D-04		
$\Delta$ extended module = 15	00 mm/59 inches	

### **RC**

Overhead gantry type milling centres





AXIS STROKES	mm	inches	
X	from 2200 to 6000+Δ	from 87 to 236+Δ	
Υ	from 2700 to 4000	from 106 to 157	
Z	1250	49	
AXIS SPEED	mm/min	ipm	
X-Y-Z	40000	1575	
HEADS			
GLOB 89 G - GLOB 123 G			
$\Delta$ extended module = 2000 mm	/79 inches		

### **ROBODRIM**

Automatic drilling robot with mobile column (x)



AXIS STROKES	mm	inches
X	6000+Δ	236+∆
Υ	4000	157
Z	1500	59
AXIS SPEED	mm/min	ipm
X-Y-Z	24000	945
HEADS		
T2D-04 - T3K		
$\Delta$ extended module = 15	00 mm/59 inches	



## **High Performance Machines**

The best trade-off between high dynamics (up to 70 m/min speed, 7 m/sec<sup>2</sup> acceleration, 30000 rpm spindle speed) and high material removal rate

#### **LINX 450 & LINX 500**

Linear motor overhead gantry type milling centres \$ & &



AXIS STROKES	mm	inches
X	from 2000 to 10200+Δ	from 79 to 402+ Δ
Υ	from 2000 to 5000	from 79 to 197
Z	from 600 to 2500	from 24 to 98
AXIS SPEED	mm/min	ipm
X-Y-Z	from 50000 to 70000	from 1970 to 2760
HEADS		
$T2D-03 - T3K - TMX^{(1)}$		
(1) Z max = 900 mm = 35 inch	ies	
Δ extended module = 2000 m	nm/79 inches	

### **LINX 600**

Linear motor overhead gantry type milling centres  $\bigcirc$ 



AXIS STROKES	mm	inches		
X	from 5200 to 9200+Δ	from 205 to 362+Δ		
Υ	from 3200 to 4000	from 126 to 157		
Z	from 1500 to 2500	from 59 to 98		
AXIS SPEED	mm/min	ipm		
X-Y-Z	40000	1575		
HEADS				
T2D-03 — T3K — TMX				
$\Delta$ extended module = 2000 mm	/79 inches			

### **LINX MillTurn**

Linear motor overhead gantry type milling centres  $(\mathbf{Q})$ 



AXIS STROKES	mm	inches
X	from 5200 to 9200+Δ	from 205 to 362+Δ
Υ	4000	157
Z	1500	59
AXIS SPEED	mm/min	ipm
X-Y-Z	40000	1575
HEADS		
TMX Millturn		
Δ extended module = 2000 mm.	/79 inches	

### **EVER 7**

Overhead gantry type milling centres \$  $\textcircled{\texttt{R}}$   $\textcircled{\texttt{E}}$ 



AXIS STROKES	mm	inches
X	from 4000 to 8500+∆	from 157 to 335+Δ
Υ	from 3000 to 5000	from 118 to 197
Z	from 1250 to 1750	from 49 to 69
AXIS SPEED	mm/min	ipm
X-Y-Z	from 32000 to 50000	from 1260 to 1970
HEADS		
Universale - T35-C - T3K	- T3A- T90 others/BUSS	
$\Delta$ extended module = 15	000 mm/59 inches	



# **Universal Milling Machines**

Universal milling machines for 5-sided / 5-axis machining (from 24 to 45 m/min speed, from 17 to 48 kW power, from 105 to 1300 Nm torque)

#### **EVER 1**

Double column milling centres with mobile table





AXIS STROKES	mm	inches		
X	4000-5000-6000+Δ	157-197-236+∆		
Υ	3000-3500-4000	118-138-157		
Z	1250-1500	49-59		
AXIS SPEED	mm/min	ipm		
X-Y-Z	up to 32000	up to 1260		
HEADS				
Universale - T35-C - T3K - T3A- T90 others/BUSS				
Δ extended module = diffe	erent lengths available			

### **EVER 5**

Gantry type milling centres





AXIS STROKES	mm	inches
X	from 4000 to 8500+∆	from 157 to 335+∆
Υ	from 3000 to 5000	from 118 to 197
Z	1250-1500	49-59
AXIS SPEED	mm/min	ipm
X-Y-Z	up to 32000	up to 1260
HEADS		
Universale - T35-C - T3K	- T3A- T90 others/BUSS	
Λ extended module = 1 <sup>r</sup>	500 mm/59 inches	

#### **TS10**

Moving column milling centres (T configuration) \$ 2



AXIS STROKES	mm	inches
X	2500	98
Υ	1210	48
Z	1200	47
AXIS SPEED	mm/min	ipm
X-Y-Z	25000	984
HEADS		
T3A - KOSMO - KOSMO 3		

### THORA T/RT

Moving column milling centres (T configuration) \$  $\textcircled{$\kappa$}$ 



AXIS STROKES	mm	inches
X	2000-3000	78-118
Υ	1200	47
Z	1200	47
AXIS SPEED	mm/min	ipm
X-Y-Z	up to 45000	up to 1771
HEADS		
UNIVERSALE - UNIVERSAL	E 3 - T3E	



# **Universal Milling Machines**

### **FRAZER**

Moving column milling centres with Milling and Turning Options



## T314 / TRT314

Moving column milling centres

(T configuration)



### **THOR 100**

Moving column milling centres

**(%) (%)** 



### **SARA**

Double column type milling centres





	BOX VER	SION	OPEN VE	RSION
AXIS STROKES	mm	inches	mm	inches
Χ	3000-4000-5000	118-157-197	6000/7000	236/276
Υ	1500	59	1500-2000	59-79
Z	1100	43	1100	43
AXIS SPEED	mm/min	ipm	mm/min	ipm
	35000	1378	35000	1378
HEADS				
UNIVERSALE ind	exed - UNIVERSALE	C with torque m	otors - T3E -TILTING	

$\Delta$ extended module = 1500 mm/5	9 inches		
Rotary table		Milling	Turning
Dimensions	mm	Dia. 1000	Dia. 1000
Max. loading capacity	kg	3000	2500
Positions	Nr.	360000	360000
Max. speed	rpm	20	350
Max. torque \$1(\$6)	Nm	2500 (5000)	1400 (5100)
Power S1 at 300 rpm	Kw	-	43
Max. torque with clamped table	Nm	5000	7000
Motor	type	torque	torque

AXIS STROKES	mm	inches
X	2500-3000-3500-4000	98-118-138-157
Υ	1600	63
Z	1500-2000	59-79
AXIS SPEED	mm/min	ipm
X-Y-Z	up to 35000	up to 1378
HEADS		
KOSMO - KOSMO 3 - T35-C - T3K	- T3A	

AXIS STROKES	mm	inches			
X	4000 - 7000 - 8500+Δ	157 - 275 - 335+∆			
Υ	2000 - 2500 - 3000	79 - 98 - 118			
Z	1200 - 1500	47 - 59			
AXIS SPEED	mm/min	ipm			
X-Y-Z	25000	984			
HEADS					
T3A - T90 - UNIVERSALE - UNIVERSALE 3- T35-C - T3K - T2D-03 - QUILL					
Δ extended module = 1500 mm/59 inches					

AXIS STROKES	mm	inches
X	3200	126
Υ	2400	79 - 98 - 118
Z	900	94
AXIS SPEED	mm/min	ipm
X-Y-Z	24000	984
HEADS		
UNIVERSAL INDEXED MILLING HEA	AD .	



## **Heavy Duty Machines**

Powerful large milling centers for an extremely broad range of applications (up to 75 kW power, up to 3400 Nm torque)

### **JOMAX 261**

Double column type milling centres with mobile table \$



AXIS STROKES	mm	inches			
X	5000 - 6000+Δ	197 - 236+Δ			
Υ	3000 - 4000 - 5000	118 - 157 - 197			
Z	1250 - 1500	49 - 59			
AXIS SPEED	mm/min	ipm			
X-Y-Z	up to 32000	up to 1260			
HEADS					
T3A - T90 - TMXep - T40 - T6K-P - T3K others/BUSS					
Δ extended module = different	lengths available				

### **JOMAX 265 / JOMAX 265 MB**

Gantry type milling centres / Gantry type milling centres with moving crossbeam





AXIS STROKES	mm	inches
X	from 3500 to 9500+∆	from 138 to 374+Δ
Υ	from 2500 to 5000	from 98 to 197
Z	from 1250 to 1850	from 49 to 73
W (only for JomaX 265 MB)	from 1000 to 2000	from 39 to 79
AXIS SPEED	mm/min	ipm
X-Y-Z	up to 28000	up to 1102
HEADS		
T3A - T90 - TMXep - T40 - T6K-		

### **THOR 200**

Moving column milling centres



AXIS STROKES	mm	inches
X	3500 - 6500 - 8000+∆	138 - 256 - 315+∆
Υ	3000 - 3500 - 4000	118 - 138 - 157
Z	1200 - 1500	47 - 59
AXIS SPEED	mm/min	ipm
X-Y-Z	22000	866
HEADS		
T3A - T90 - UNIVERSALE - U	INIVERSALE 3- T35-C - T3K - T2D	0-03 - QUILL
$\Delta$ extended module = 1500	) mm/59 inches	



# **Heavy Duty Machines**

### **TARKUS**

Double column type milling centres



AXIS STROKES	mm	inches
X	3300 - 4500	130 - 177
Υ	2100 - 2600	83 - 102
Z	1000	39
AXIS SPEED mm/min	ipm	
X-Y-Z	up to 24000	up to 945
HEADS		
T35 - TMX - T3K		

### TARKUS 2.0

Double column type milling centres



AXIS STROKES	mm	inches
Χ	4500 - 6000	177 - 236
Υ	2100 - 2600	83 - 102
Z	1000	39
AXIS SPEED	mm/min	ipm
X-Y-Z	up to 20000	up to 787
HEADS		
T3A - T1000		

### **RAMMATIC**

Moving column milling centres (T configuration)



AXIS STROKES	mm	inches
Χ	from 2500 to 4000	from 98 to 157
Υ	from 1000 to 1700	from 39 to 67
Z	from 815 to 1100	from 32 to 43
AXIS SPEED	mm/min	ipm
X-Y-Z	12000	472
HEADS		
DTH		



## **High Flexibility**

3 axis, continuous 5 axis, palletized vertical machining centres and Flexible Manufacturing Cells, which feature very high flexibility, maximum precision, high power and high productivity

### **COMPACT 3A**

3-axis vertical machining centres





	COMPAC	Т ЗА-М	COMPACT	Γ 3A-L
AXIS STROKES	mm	inches	mm	inches
Χ	1000	39.3	1250	49.2
Υ	620	24.4	620	24.4
Z	600	23.6	600	23.6
AXIS SPEED	mm/min	ipm	mm/min	ipm
X-Y-Z	40000	1575	40000	1575

### **LEADER**

3-axis vertical machining centres





	LEADER 5		LEAD	LEADER 6		LEADER 7	
AXIS STROKES	mm	inches	mm	inches	mm	inches	
X	1250	49.2	1600	62.9	2000	78.7	
Υ	810	31.8	810	31.8	810	31.8	
Z	630	24.8	630	24.8	630	24.8	
AXIS SPEED	mm/min	ipm	mm/min	ipm	mm/min	ipm	
X-Y-Z	up to 50000	up to 1968	up to 50000	up to 1968	up to 50000	up to 1968	

### **COMPACT 5A**

Simultaneous 5-axis vertical machining centres





AXIS STROKES	mm	inches	
X	1150	45.2	
Υ	570	22.4	
Z	800	31.4	
AXIS SPEED	mm/min	ipm	
X-Y-Z	40000	1575	

#### FLEXI5

Simultaneous 5-axis vertical machining centres





	FLEX	FLEXI 5S		I 5M	FLEXI 5L		
AXIS STROKES	mm	inches	mm	inches	mm	inches	
Χ	1250	49.2	1600	63	2100	82.6	
Υ	800	31.4	800	31.4	800	31.4	
Z	950	37.4	950	37.4	950	37.4	
AXIS SPEED	mm/min	ipm	mm/min	ipm	mm/min	ipm	
X-Y-Z	50000	1968	50000	1968	up to 50000	up to 1968	













# **High Flexibility**

### **TANDEM 3A**

Palletized vertical machining centres (%) (x) (a)



AXIS STROKES	mm	inches				
X (1)	2x1000	2x39.3				
X <sup>(2)</sup>	2100	82.6				
Υ	810	31.8				
Z	630	24.8				
AXIS SPEED	mm/min	ipm				
X-Y-Z	50000	1968				
(1) shuttle mode - (2) tandem mode						

### **TANDEM 5A/6A**

Palletized vertical machining centres  $\textcircled{\$} \ \textcircled{\$} \ \textcircled{\bullet} \ \textcircled{1} \ \textcircled{\$}$ 



	TANDE	M 5A	TANDEM 6A			
AXIS STROKES	mm	inches	mm	inches		
X <sup>(1)</sup>	2x1500	2x59	2x1500	2x59		
X (2)	2100	83	2100	83		
Υ	700	27.5	700	27.5		
Z	950	37.4	950	37.4		
AXIS SPEED	mm/min	ipm	mm/min	ipm		
X-Y-Z	50000	1968	50000	1968		
(1) shuttle mode	- (2) tandem mo	de				

# Sigma Heads

MOTORSPINDLE SPEED (rpm)	POWER (kW / hp) TORQUE (Nm / lb*ft)	TOOL HOLDER	COMPACT 3A	LEADER	COMPACT 5A	FLEXI 5	TANDEM 3A	TANDEM 5A/6A
8000	27 / 36 235 / 172	SK50	•	•			•	
10000	29 / 39 130 / 95	SK-40 BT40 HSK-A-63	•					
12000	27 / 36 180 / 132	SK-40 BT40 HSK-A-63			•	•		•
15000	27 / 36 235 / 172	SK-40 BT40 HSK-A-63	•	•			•	
18000	33 / 44 120 / 88	HSK-A-63			•	•		•



# Jobs, Rambaudi, Sachman Milling Heads

Milling head	Туре	Power (S6) Torque (S6)		rpm	Toolholder	Models		
		kW	hp	Nm	lb*ft			
T2A Straight hand	44 (**)	59 (**)	1005	741	5000	ISO 50/ HSK-A-100	eVer 1, eVer 5, eVer 7, TS10, T/ TRT314, Thor 100, Thor 200	
ТЗА	Straight head	56	75	1783	1315	5000	ISO 50/ HSK-A-100	JomaX 261, JomaX 265, JomaX 265 MB
ТЗА-Т	Straight head	80	107	3400	2508	2000	ISO-60/ HSK-A-125	Tarkus 2.0
Т90	Dight angle head	44	59	1005	741	5000	ISO 50/HSK-A-100	eVer 1, eVer 5, eVer 7, Thor 100, Thor 200
190	Right angle head	53	71	1687	1244	3000	HSK-A-100	JomaX 261, JomaX 265, JomaX 265 MB
T6K-P	Continuous power twist head	53	71	1687	1244	3000	HSK-A-100	JomaX 261, JomaX 265, JomaX 265 MB
T2D-03	Direct drive continuous twist head	72	97	73	54	30000	HSK-A-63	LinX 450-500, LinX 600, Thor 100, Thor 200
T2D-04	Direct drive continuous twist head	22	29	23	17	24000	HSK-A-63	Speeder, Grand Speeder, RoboDrim
GLOB 89 G	Fork head with 2 continuous axes and electrospindle	32	43	102	75	24000	HSK-A-63	RC
GLOB 123 G	Fork head with 2 continuous axes and electrospindle	45	61	139	103	15000	HSK-A-100	RC
T3E-1	Continuous twist head	48	64	148	109	12000	ISO 50/ HSK-A-100	Thora T/RT, Frazer
T3E-2	Continuous twist head	33	44	105	77	20000	HSK-A-63	Thora T/RT, Frazer
T3K-1/Jims	Continuous twist head	44	59	200	148	15000	HSK-A-100	RoboDrim, LinX 450-500, LinX 600, eVer 1, eVer 5, eVer 7, T/TRT314,Thor 100, Thor 200, JomaX 261, JomaX 265, JomaX 265 MB, Tarkus
T3K-2/Jims	Continuous twist head	40	54	63	46	27000	HSK-A-63	RoboDrim, LinX 450-500, LinX 600, eVer 1, eVer 5, eVer 7, T/TRT314,Thor 100, Thor 200, JomaX 261, JomaX 265, JomaX 265 MB, Tarkus
TMX/TMXep	1° indexed head	up to 41	up to 55	up to 381	up to 281	8000	HSK-A-100	LinX 450-500, LinX 600, Tarkus, JomaX 261, JomaX 265, JomaX 265 MB



# Jobs, Rambaudi, Sachman Milling Heads

Milling head	Туре	Powe	Power (S6) Torque (S6)		rpm Toolhol		Models	
		kW	hp	Nm	lb*ft			
TMX-Millturn	1° indexed head	30	40	261	193	8000	HSK-A-100	LinX Millturn
T35	Continuous indexed twist head	42	56	1470	1084	3000	HSK-A-100	Tarkus
T35-C	Continuous indexed twist head	44	59	1005	741	5000	HSK-A-100	eVer 1, eVer 5, eVer 7, T/TRT314, Thor 100, Thor 200
T1000	2-axis twist head	96	129	1000	738	4000 (opt. 8000)	HSK-A-125	Tarkus 2.0
T40	Continuous indexed twist head	42	56	1070	789	4000	HSK-A-100	JomaX 261, JomaX 265, JomaX 265 MB
Universale/ Universale 3	Universal indexed head (2,5°/2,5° - 0,02°/0,02°)	up to 56	up to 75	up to 1970	up to 1453	5000	ISO 50/ HSK-A-100	eVer 1, eVer 5, eVer 7, Thora T/RT, T/TRT314, Thor 100, Thor 200
UNIVERSALE indexed	Universal indexed head (0,02°)	32	43	742	547	5000	ISO 50/ HSK-A-100	Frazer
UNIVERSALE C with torque motors	Universal continuous head (0,001°)	33	44	640	472	8000	ISO 50/ HSK-A-100	Frazer
Universal IMH	Universal indexed head (1°/3°)	33	44	637	470	5000	ISO 50/ HSK-A-100	Sara
Kosmo/Kosmo 3	Universal indexed head (2,5°/2,5° - 2,5°/3° - 0,02°/0,02°)	up to	up to	1005	741	5000	ISO 50/ HSK-A-100	TS10, T/TRT314
Tilting C-axis	Head with electrospindle with continuous C-axis	41	55	313	231	8000	ISO 50/ HSK-A-100	Frazer
DTH	Double tilting head with 2 continuous axes	30 (S1)	40	880 (S1)	649	6000	ISO 50/ HSK-A-100	Rammatic
QUILL	Boring quill	up to 52	up to 70	up to 1600	up to 1180	up to 3500	ISO 50	Thor 100, Thor 200

<sup>(\*)</sup> available in different lengths (\*\*) available in different power ranges



## JOBS - The Leading Global Manufacturer of Large Part



Jobs is part of FFG Europe & Americas and integrates high-tech Italian machine tool manufacturers, leaders in technological excellence:

Rambaudi, Sachman and Sigma.

These four historical brands and are among the worldwide leaders in the production of high performance milling machines and machining centres, in particular for 5-axis high speed and high torque machining technologies.

Established in 1978, Jobs started to manufacture manipulating robots with 5-6 axes.

Jobs introduced Jomach 25, the first highspeed 5-axis mobile gantry milling centre for style model machining and applications in aeronautical industry. Jobs' activity in high-power milling became prominent, with the introduction of the new Jomach 245 machine equipped with 37 kW spindle and automatic head changing system.

Jobs introduced LinX Compact, the first of a new generation of large volume high-speed milling machines exploiting the linear motor technology for axis movement.

Market introduction of LinX O, a 5-axis, linear motor, horizontal milling centre.

1979

1981

**|982 | 1** 

985

1990

994

2000 2

2003

\_\_\_\_

2004

2006

Jobs introduced Jomach 16, the first 5-axis milling machine with mobile column. Jomach 35 mobile gantry machine supporting an operating volume of approx. 40 m<sup>3</sup> was developed. Market introduction of Jomach 249, a high-power milling centre with mobile column. Market introduction of JomaX 265, a high-power, mobile gantry milling centre designed to machine general precision engineering components.

Jobs widened its production range introducing JomaX 261, a fixed gantry machine with single or double mobile table.





Jobs is a worldwide reference for the production of very high-performance medium-large size 3-or 5-axis milling machines, highly engineered turn-key systems, high value-added solutions and services for different applications in aeronautical/aerospace, composite machining, automotive, design & prototyping, moulds & dies, general engineering and energy fields.

The Rambaudi brand focusses on the production of high-speed or high-chip removal machines and solutions specifically for the moulds & dies and general engineering industries.

## Milling Systems and Vertical Machining Centers



Jobs, Rambaudi, Sachman and Sigma are integrated into the legal entity Jobs Automazione, established in 1978, and they are all located in Piacenza.

In October
Jobs took
over Sachman
activities
strengthening
decisive
presence
in general
engineering and
subcontracting.

Jobs pursued the "Middle Range" development and introduced eVer 7, overhead gantry milling centre, and Thor 200, large-size mobile column milling machine.

Jobs took over the majority shareholding of Sigma, longestablished Italian leader in vertical machining centres. All production, technical, commercial and after-sales service activities of Sigma have been moved to Piacenza. Sachman introduced Frazer, a new horizontal milling centre featuring excellent dynamics, ergonomics and chip removal capacity.

Rambaudi introduced SARA which is the result of joint development with Sanco.

2007

2009

2010

2011

2012

2014

2015

2016

Jobs introduced Tarkus, 5-axis horizontal/ vertical highpower milling centre for machining highly tough materials.

Jobs introduced a new range of products: eVer 5, mobile gantry type milling centre, and Thor 100, mobile column milling In August FFG Europe was established and included Rambaudi (took over by Taiwanese Fair Friend Group in 2010) and Sigma together with Jobs and Sachman. Sachman and Rambaudi's productions have been moved from their headquarters to Piacenza, where JOBS has its modern production facilities. Jobs introduced Laser Speeder, a highly automated system devoted to large moulds machining, and Tarkus 2.0, a new moving column machine, with a full cast iron structure for high torque titanium removal capacity on aerospace components.





Thanks to the Sachman brand, with its horizontal milling centres, Jobs has expanded and strengthened its presence on the international markets, especially in the moulds & dies and general engineering field, developing solutions particularly aimed at subcontractors.

Working in the precision mechanics and in the moulds and dies field, Sigma is the reference brand for the production of technologically advanced vertical machining centres, thanks to its consolidated skills developed in more than sixty years of presence on the international markets in driving and strongly innovative industry fields.

## **Applications**



Jobs combines excellent industrial brands which manufacture high performance machine tools and customized turnkey plants for the aeronautic and aerospace, automotive, moulds & dies, general engineering and energy sectors.

## Aerospace **K**



Jobs has developed and installed innovative products for machining: structural parts in aluminum alloy, skins in aluminum alloy, skins and structures in composite material, tough materials including titanium, stainless steel, inconel and others. It has also installed numerous systems for assembly lines, as well as complex supplies complete with customized turnkey services.

### Moulds & Dies





Jobs' production program permits the complete machining of drawing dies in a single positioning: from roughing at high chip removal rate, to highspeed finishing, up to very high-speed machining of sculptured surfaces. High-Speed technology is also used for plastic moulds.

## Automotive \*\*





Jobs presents a complete line of cutting-edge products for the whole process: design models' production, prototyping tooling, complete die machining. Jobs' product range is designed to cover all milling technologies (High Speed, High Performance, Universal Milling, Heavy Duty, High Flexibility) with the purpose of significantly increasing productivity, reducing hourly costs, reducing operating costs.

### **General Engineering & Energy**





Jobs' offering for the machining of complex, highprecision and large-size mechanical components includes high-tech vertical machining centres, as well as a complete range of milling centres with large volumes (3-4 m³) providing both high performance in chip removal and very high-speed machining, exploiting linear motors to drive the axes.



### Services

The value of an investment in production systems and technologies develops and changes over time based on three keys elements:

### **AVAILABILITY**

### **EFFICIENCY**

### WORTH CARE

In the past these elements had an unclear value, they were roughly measured and rarely resulted in corrective actions when necessary. In addition, mainly large companies had bulky maintenance organizations which dealt with the "health" of installed systems. This scenario has radically changed now. In particular in the machine tool industry, investment assessments and the expectations of suppliers are a real decision making criterion for endusers' purchasing. For this reason Jobs has heavily invested in human resources, technologies and facilities to ensure the best services to its customers in order to guarantee that the value of its products is protected.



### **Repairing Maintenance**

Machine skilled engineers will be connected in real time to your machine. If your machine is fitted with a remote diagnosis connection, our team can perform fault detection and deep analysis.



**Preventiive Maintenance** 

Regular maintenance at fixed intervals recognizes possible problems before they become serious and defects can't be corrected.



**Retrofiting & Machinery Relocation** 

If your requirements have changed we are able to upgrade your machine in order to be fit for the market again.



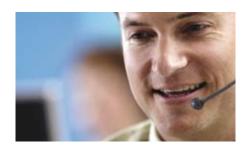
**Spare Parts** 

More than 50,000 different spare parts are available for worldwide shipment. Maximum availability of spare parts, even for older machine series.



**Head and spindle Reparation** 

Head and spindle repair, replacement, or exchange. Available option to mount a spare head.



Tele- service and diagnosis

Hot line team offers an effective free of charge support by telephone with a worldwide 24 hours/ day hot line support over 5 days/ week, in case of unavailability, we will send skilled engineers on site.































WITZIG & FRANK

### **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, Pfffner, 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 beneft from the strengths and opportunities of the global Fair Friend Group. They stand for premium technology within FFG.



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