



FVP



PORTAL CENTER WITH TRAVELLING TABLE





FVP

BASIC PARAMETRES OF THE MACHINE

		1611	2011	2215	2219	3215
Stroke of X-axis	mm	1 600	2 040	2 200	2 200	3 200
Stroke of Y-axis	mm	1 100	1 100	1 500	1 900	1 500
Stroke of Z-axis	mm	760	760	760	760	760
Length of table	mm	1 600	2 000	2 000	2 000	3 000
Width of table	mm	1 000	1 000	1 500	1 700	1 400
Load of table	kg	3 000	3 500	5 000	5 000	7 000
Distance between columns	mm	1 200	1 200	1 600	2 000	1 600
Feeds X,Y,Z	mm/min	12 000	12 000	12 000	12 000	12 000

1 RIGIDITY

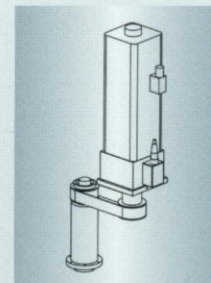
2 ACCURACY

3 UNIVERSALITY

FVP HEADSTOCKS

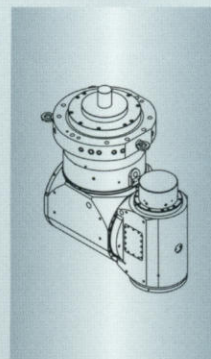
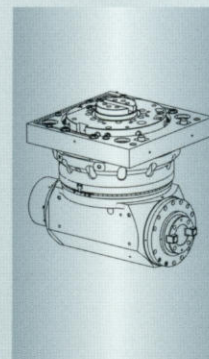
VERTICAL SPINDLES

		VM-4/584	VM-6/571	VM-8/420
Power	kW	15	22	22
Max. torque	Nm	584	571	420
Max. speed	rpm	4 000	6 000	8 000
Nominal speed	rpm	250	375	500
Tool taper		ISO 50	ISO 50	ISO 50



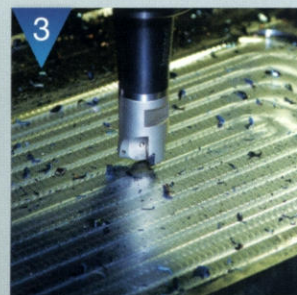
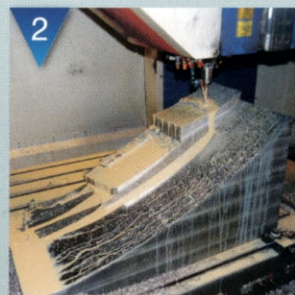
INDEXED HEADS (MANUAL)

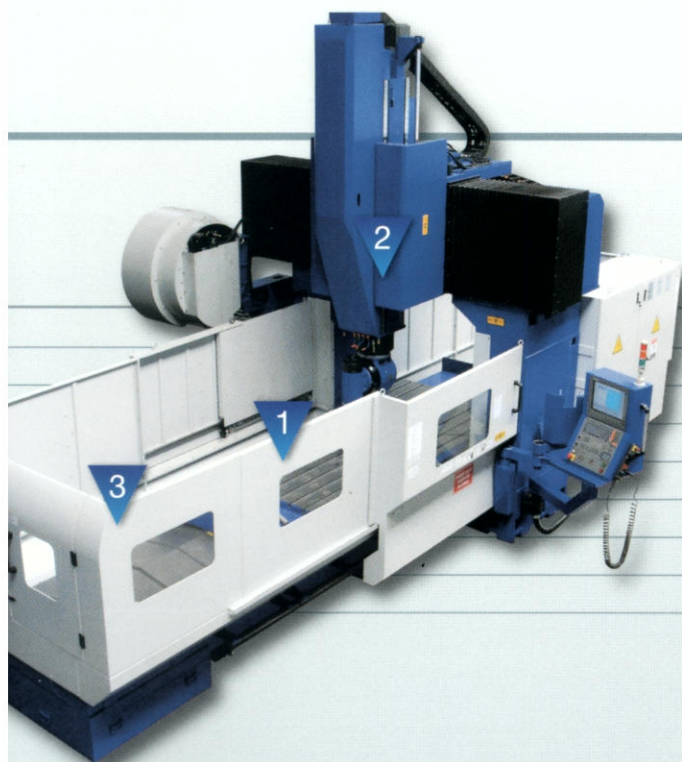
		HFM1-3/500	HFM2-3/500
Power	kW	16	16
Max. torque	Nm	500	500
Max. speed	rpm	3 000	3 000
Nominal speed	rpm	300	300
Tool taper		ISO 50	ISO 50
Positioning	°	5	5
Number of axes		1	2



FVP APPLICATION

- 1 Machining of the welded parts
- 2 Milling of the shaped surfaces
- 3 Milling with hi-speed-feed tool





3219	3224	4219	4224	4229
3 200	3 200	4 200	4 200	4 200
1 900	2 400	1 900	2 400	2 900
760	760	760	760	760
3 000	3 000	4 000	4 000	4 000
1 700	2 200	1 700	2 200	2 700
8 000	10 000	12 000	15 000	15 000
2 000	2 500	2 000	2 500	3 000
12 000	12 000	12 000	12 000	12 000

FVP ACCESSORIES

► STANDARD ACCESSORIES

- hand wheel
- digital feeds of axes and spindle
- direct measuring at all axes
- balancing of Z-axis
- thermal stabilization of all main parts of the machine
- external tool cooling
- chip conveyor (longitudinal and transverse)

- complete covering of working space
- electric equipment 400V/50Hz
- air-conditioned electrocabinet
- automatic lubrication
- anchoring material
- remote diagnostics - teleservice
- complete accompanying documentation in the required language

► OPTIONAL ACCESSORIES

Automatic tool change

- including tool magazine
- optional capacity (20 - 60 tools)
- tool taper ISO 50

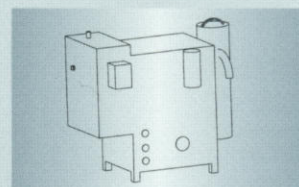
Control system

- Heidenhain iTNC 530,
- Siemens Sinumerik 840D, Fanuc

Other variants can be offered after consultation with the manufacturer.

Internal tool cooling

- additional unit to the basic external tool cooling
- different types of cooling unit, according to the type of filtration and pressure



Probes

- tool touch or contactless (laser) probes
- signal transmission via cable or infrared beam
- workpiece touch probes with radio signal transmission
- Renishaw, Heidenhain, Blum Novotest, Etc.





REFERENCES

www.tyc.cz

► Our costumers and users of the **FVP** machines



► AWARDS

2007 - Exelent product
of the yead
Design Award

2009 - Inovation
of the year Award

2001 - IMT Brno
Gold Medal
FVP 120 CNC

2007 - IMT Brno
Gold Medal
FPPC 300/9 CNC

2011 - IMT Brno
Gold Medal
FVCT 180/2 CNC



► CONTACTS

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