



KNEE - TYPE MILLING MACHINE

series FR

INCL 300 DIGITAL

*JIS ODATA II
VIDEO*

HYDRA TRERSTANG BERIENING VERT. SPIL

INCL CE B1 2004 SPILWAP + TAFEL KAP

EXPLOITATION - TECHNICAL DOCUMENTATION

Miller type	FXR 40 J2	
Fabrication Nr	0311	
Supply voltage	3 x 400	V
Supply frequency	50	Hz
Total installed power	10	kW
Total volume of oil tanks	40	litres
Spindle's cones	ISO 50	
Miller mass	3500	kg

Chief Designer

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OCC-22-084

1.2. Characteristic parameters .

Parameters determination	Measure	
	in	mm
1	2	
Table work surface	400 x 1400	
Table grooves quantity	6	
Table groove width	18	
Distance between table grooves	63	
Maximum table displacement :		
- longitudinal	1030	
- transverse	320	
- vertical	465	
Displacement for one crank revolution :		
- longitudinal	2,5	
- transverse	5	
- vertical	1,5	
Maximum distance of horizontal spindle axis from the table	465	
Maximum distance of vertical slideway from the rest' s face surface	562	
Maximum distance of horizontal spindle face from the rest' s face surface	579	
Distance of horizontal spindle axis from the beam slideway	152	
Minimum distance of table edge from the vertical slideway	8	
Diameter of horizontal spindle in the front bearing	90	

Parameters determination	Measure	
	in	mm
1	2	

Displacement of vertical spindle drawtube	75
Vertical spindle face distance in vertical position, from table surface :	
- maximum	577
- minimum	37
Vertical spindle axis distance in vertical position from machine vertical slideways :	
- maximum	890
- minimum	140
Vertical spindle (head) rotation angle	+/- 45 ^o
Table rotation angle	+/- 45 ^o
Number of steps for spindle revolutions :	
- horizontal	16
- vertical	16
Number of steps for table feeds (longitudinal , transverse , vertical)	16
Range of horizontal spindle revolutions rev/min (f=50 and 60 Hz)	56 - 1800
Range of vertical spindle revolutions rev/min (f=50 and 60 Hz)	56 - 1800
Feeds range (f = 50 and 60 Hz) :	
- longitudinal mm/min	11,2 - 2000
- transverse mm/min	11,2 - 2000
- vertical mm/min	3,35 - 600
Skip feeds value for displacement :	
- longitudinal mm/min	3200
- transverse mm/min	3200
- vertical mm/min	950

MOTORS

Destination	Motor description	Power		Revolutions for	
		kW	HP	50 Hz	60 Hz
Motor of horizontal spindle drive	Asynchronous motor of closed, flanged design, mechanical execution 132, according to ECJ - voltage and frequency - according to the order	7,5	10	1450	1745
Motor of vertical spindle drive	as above	5,5	7,5	1450	1735
Feeds motor	Asynchronous motor of closed, flanged design, mechanical execution 100, according to ECJ - voltage - according to the order	2,2	3	1420	1740
Coolant electro-pump	Asynchronous motor of special design. Volatge - according to the order	0,125	0,17	2800	3350

ATTENTION :

The motors of 60 Hz can be according to the standard "NEMA" executed .

1.3. Machine overall dimensions - working space parameters.

The machine overall dimensions as well as dimensions respecting 3-axis displacements (i.e. dimensions of working space) on the fig. 1 are presented .