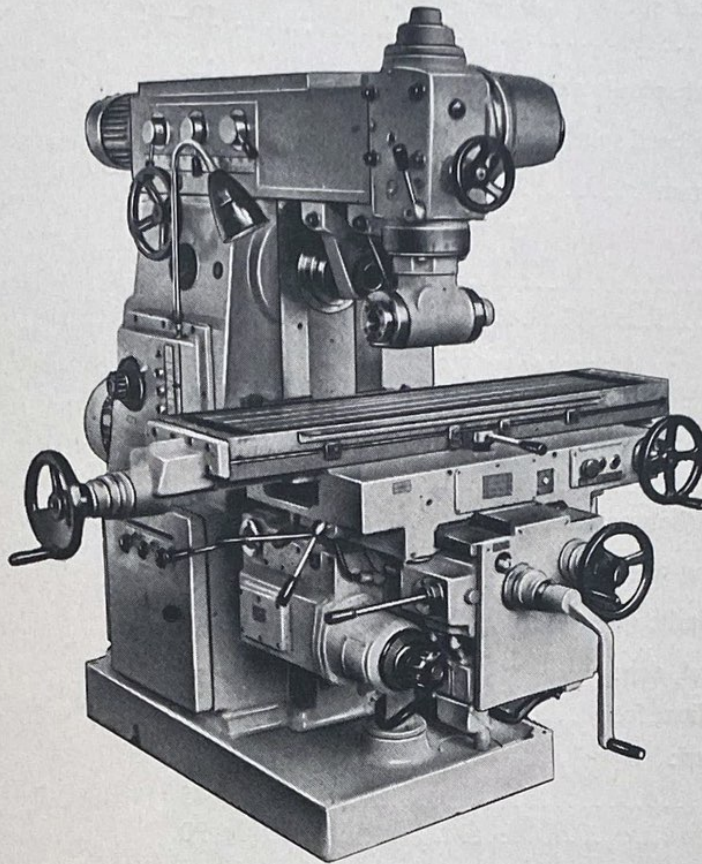


UNIVERSAL MILLING MACHINES**6P82W AND 6P83W****6P82W MACHINE**

The machines are designed for milling medium-sized workpieces from ferrous and non-ferrous metals in individual and small-batch production. Milling is effected by face milling cutters, cylindrical, disk and angle cutters, end mills and form cutters.

Provision of detachable swivelling milling head and special milling attachment (subhead) provides in conjunction with horizontal spindle and numerous attachments and accessories exceptional versatility of these millers.

Ample rigidity of construction and wide ranges within which speeds and feeds are variable, make it possible to use most expediently high-speed steel and carbide-tipped cutters.

Speeds and feeds are easily selected by merely rotating the corresponding dials of selective mechanisms. This feature, alongside with electrodynamic braking of spindle, cuts down non-machining time.

Horizontal spindle and spindle of the swivelling milling head are driven individually which enables most rational speeds and feeds to be selected when milling two surfaces at a time.

The table leadscrew has a device for eliminating play in the screw-and-nut pair. This allows milling by the climb-cut method.

Interlocking and safety devices protect the machine mechanisms from breakage.

The machines are automated and they can be adapted to various automatic cycles of operation.

SPECIFICATIONS

	6P82III	6P83III
Distance from swivelling milling head spindle end to table working surface, mm	35—535	70—570
Distance from horizontal spindle axis to table working surface, mm	30—450	30—450
Distance from horizontal spindle axis to overarm, mm	155	190
Distance from swivelling head spindle axis to column ways, mm	260—820	250—900
Table working surface, mm	320 × 1250	400 × 1600
Table traverses, mm:		
longitudinal	800	1000
cross	250	320
vertical	420	420
Table T-slots:		
number	3	3
width, mm	18	18
slot-to-slot distance (between axes), mm	70	90
Inside taper in swivelling spindle	ISO 40	ISO 40
Axial adjustment of spindle quill, mm	80	80
Maximum spindle swivel, deg:		
in plane of longitudinal feed	±90	±90
in plane of cross feed:		
towards column	45	45
away from column	90	90
Inside taper in horizontal spindle	ISO 50	ISO 50
Number of speeds of swivelling head spindle and subhead spindle	11	11
Range of speeds of swivelling head spindle and subhead spindle, rpm	50—1600	50—1600
Number of horizontal spindle speeds	18	18
Range of horizontal spindle speeds, rpm	31.5—1600	31.5—1600
Number of table feeds	18	18
Range of table feeds, mm/min:		
longitudinal and cross	25—1250	25—1250
vertical	8.3—416.6	8.3—416.6
Table rapid traverse speeds, mm/min:		
longitudinal and cross	3000	3000
vertical	1000	1000
Power of main drive electric motor, kW	7.5	11.0
Total power of electric motors, kW	12.025	17.125
Machine overall dimensions, mm:		
length	2470	2680
width	1950	2260
height	1950	2040
Machine weight, kg	3300	4500

SUPPLIED:**with the Machine**

Electrical equipment (set)
Local light outfit (set)
Cooling system (set)
Arbors for cylindrical cutters 22, 27 and 32 mm in diameter (for 6P82III only)
Arbors for cylindrical cutters 22, 27, 32 and 50 mm in diameter (for 6P83III only)
Arbors for face milling cutters and end mills (4 pcs)
Reducing sleeves (2 pcs)
Lubricating gun
Draw-in bars for arbor clamping (7 pcs)
Guard

Spanners, wrenches and screwdriver (set)
Operator's Manual

on Special Order

Circular rotary table 400 mm in diameter
Machine vise (jaw width—250 mm; jaw span—250 mm)
Indexing head suitable for maximum diameter 250 mm (for 6P82III only)
Indexing head suitable for maximum diameter 320 mm (for 6P83III only)
Slotting head with maximum stroke 60 mm
Cams for presetting automatic cycles (set)