

# Conventional Vertical Milling Machines

## FPK 4.3



### SKU : 302340

This versatile tool-milling machine has become an indispensable part of mechanical production in tool and mold making. The compact design, which offers a lot of flexibility and at the same time is very easy to use, has proven itself many times and has been interpreted in a modern way. Servo drives and ball screws make the machine even more powerful and precise. The entire series is ideally suited for the construction of tools and molds in repair shops as well as training and manufacturing departments.

- Vertical and horizontal spindle
- Precise preloaded ball screws on all axes
- Large vertical console and work table
- Automatic feed on all axes with rapid feed
- Infinitely variable main spindle drive
- Extensive accessory package included

## TECHNICAL SPECS

### WORKING AREA

Table dimensions	16 in x 31 in
Vertical table	9 in x 40 in
Table load capacity (max.)	440 lbs
Number of T-slots	6 positions
T-slot (width x spacing)	0.55 in x 2.48 in
T-slots, vertical table (number)	3 positions
T-slots, vertical table (width x spacing)	0.55 in x 2.48 in

### TRAVELS

Travel X-axis	19.7 in
Travel Y-axis	16 in
Travel Z-axis	16 in

### VERTICAL MILLING SPINDLE

Travel pinole	2 in
Spindle center - column (min.)	6 in
Spindle center - column (max.)	22 in

### VERTICAL MILLING HEAD

Angular adjustment of vertical head	± 90°
-------------------------------------	-------

### RAPID FEED

Rapid feed X-axis	47.24 in/min
Rapid feed Y-axis	47.24 in/min
Rapid feed Z-axis	47.24 in/min

### FEED

Work feed X-axis	0.394 in/min - 39.37 in/min
Work feed Y-axis	0.394 in/min - 39.37 in/min
Work feed Z-axis	0.394 in/min - 39.37 in/min

### HORIZONTAL MILLING SPINDLE / VERTICAL MILLING SPINDLE

Speed range	40 rpm - 2000 rpm
Spindle mount	SK 40 DIN 2080

### DRIVE CAPACITY

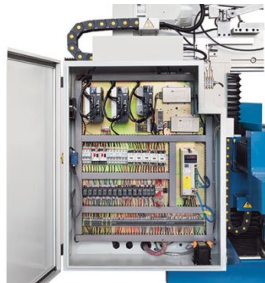
Motor rating main drive	4.3 Hp
Motor rating coolant pump	0.1 Hp

### MEASURES AND WEIGHTS

Overall dimensions (length x width x height)	60 in x 67 in x 71 in
Weight	3410 lbs



All operator controls are arranged on one side



Premium electric components ensure safety and high availability



Universal swivel table for FPK 4.3/ FPK 6.3 (253721)

## PRODUCT DETAILS

- The Machine column made of premium cast-iron, ensures maximum dynamic rigidity and constant precision
- Precise preloaded ball screws on all axes
- Ergonomically arranged controls and a swivelling control panel plus standard digital position indicator for maximum operator comfort
- Both machines feature rigid outer arbor supports for horizontal milling
- Large work tables and long travels of this compact machine allow a wide range of applications
- Automatic feed on all axes, infinitely variable, and with fast rapid feed
- The vertical cutter head swivels, and the quill can be moved manually
- The infinitely variable main spindle drive with counter gear offers a wide speed range with high torque
- Extensive accessory package included
- Central lubrication system is standard equipment
- The price includes a fully assembled 3-axis position indicator

## STANDARD EQUIPMENT

Electronic hand-wheels  
 3-axis position indicator X.Pos 3.2  
 Central lubrication  
 Reducing sleeves MT1, MT2, MT3  
 Collet chuck with collets 0.08,0.12,0.16,0.12,0.24,0.31,0.4,0.48 in  
 Horizontal milling arbor 0.63 in  
 Horizontal milling arbor 0.87 in  
 Horizontal milling arbor 1.06 inch  
 Horizontal milling arbor 1.26 in  
 Counterholder for horizontal milling  
 Chip tray  
 Coolant system  
 Work lamp  
 pull rod (M16) for horizontal / vertical spindle  
 level pads and bolts  
 Operating tools  
 Operator manual