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# Pedersen Machine Tools LTD

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## Offer Pedersen FVF 45 N



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## Characteris

The numerically controlled milling machine FVF45N is a modern milling machine with high machining capabilities. It is characterized by high modern design solutions used in allow for dynamic and economic processing in the cutting process. The advantages and versatility of this machine allow it to be operated in all types of tool shops, prototype workshops or maintenance departments, as well as in serial production.

The milling machine is made of cast iron bodies, the body of the stand is divided and connected with guides at an angle of  $27^\circ$ , which allows for a large processing space, while maintaining the required rigidity. The spindle head was placed on the side of the beam, which, combined with the possibility of twisting it, allows you to work with a vertical spindle, as well as in a horizontal milling machine. A special mandrel has been designed in the milling machine beam, which allows the attachment of an eyepiece to support the milling mandrel (optional). In the X, Y and Z axes, rolling gears driven by servo motors were used, and in the spindle drive, an asynchronous motor powered by a frequency converter. The machine tool uses a Heidenhain TNC620 control. ✓ Possibility of milling in vertical and horizontal position



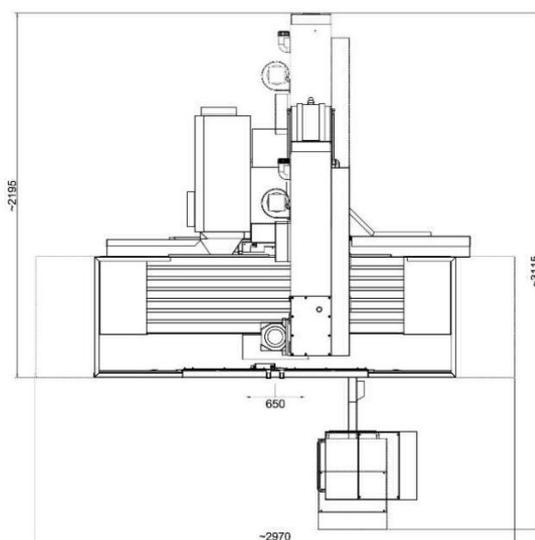
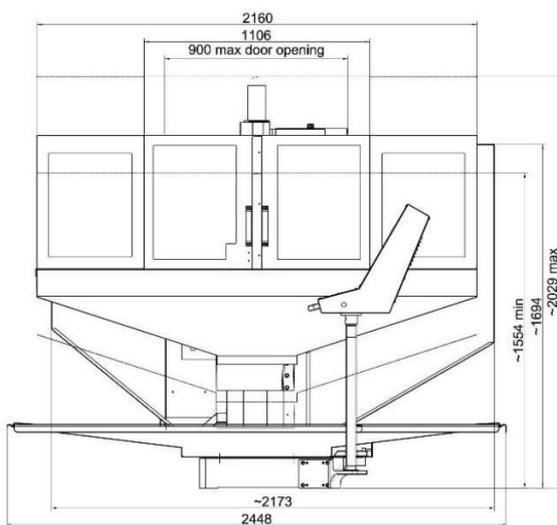
- ✓ Slanted bed

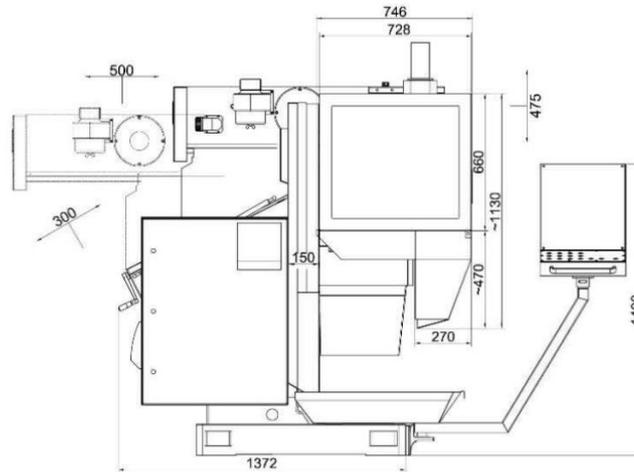


- ✓ Ball screws in 3 axes
- ✓ Possibility of machining in 4 axes (by using a rotary table / dividing head FNd250 or FNd320)
- ✓ Pneumo-hydraulic tool clamping
- ✓ Cross feed by the beam
- ✓ Head with drilling quill extension (option) or additionally with a wheel for precise quill extension (option) -2-

## Technical specification

| TECHNICAL DATA  |                             | Unit   | FVF45N         |
|---|-----------------------------|--------|----------------|
| Table working surface                                   |                             | mm     | 450x1530       |
| Number of grooves in the table                          |                             | Pcs.   | 6              |
| The width of the grooves in the table                   |                             | mm     | 18H7           |
| The spacing of the grooves in the table                 |                             | mm     | 65             |
| Maximum feeds   | longitudinal X axis         | mm     | 650/800 (o     |
|   | transverse Y axis           | mm     | 475            |
|   | vertical Z axis             | mm     | 475            |
|   | oblique axis Y2             | mm     | 510            |
| Spindle taper DIN2080                                   |                             | ISO    | 40             |
| Head turning angle                                      |                             |        | 0-140°         |
| Quill slide out   |                             | mm     | 75 (o          |
| Spindle speed range (stepless)                          |                             | rpm    | 70-4000        |
| The range of feeds of the stepless X and Y axes         |                             | mm/min | 10-2000        |
| The range of feeds of the stepless Z axis               |                             | mm/min | 10-2000        |
| The amount of rapid feeds                               | longitudinal and transverse | mm/min | 5000           |
|   | ver                         | mm/min | 2000           |
| Nominal torque of the feed drive motor                  | longitudinal and transverse | Nm     | 5              |
|   | vertical                    | Nm     | 12             |
| Spindle drive motor power                               |                             | kW     | 7,5            |
| Coolant electro pump motor power                        |                             | kW     | 0,09           |
| Max. mass of the workpiece with the fixture             |                             | kg     | 400            |
| Machine weight  |                             | kg     | 2550           |
| Dimensions of the milling machine (width-length-height) |                             | mm     | 2500x2200x2000 |





## FVF45N milling machine as standard

### Standard equipment

- Heidenhain TNC620 control
- Head without quill extension \*
- Cover of the working space on the table
- Spray-suppression bath
- Lig
- Cover for draining the coolant
- Pneumo-hydraulic quick tool clamping system
- Clamping
- Milling machine control and opera
- Maintenance keys

### Additional equipmint

| Art. no | Description  |  |
|---------|--|--|
| FNd250  | 250mm rotary table (4 axis) with drive and a tailstock |  |
| FNd320  | 320mm rotary table (4 axis) with drive and a tailstock |  |
| HR510   | Heidenhain electronic handwheel                        |  |
| TS260   | Heidenhain measuring probe for workpiece               |  |
| OKULAR  | Support (eyepiece)                                     |  |
| KM      | A lug  |  |
| WP      | Quill slide out  |  |
| PWP     | Precise quill slide (op                                |  |
| WIBRO   | Vibro-isolators (4 pcs – set)                          |  |
| ŚRUBY   | Found  |  |
| X-800   | X axis travel extension up to 800mm (extra charge)     |  |
| PODEST  | Wooden transport pl (for oversea and con               |  |
| BOX     | Wooden transport                                       |  |

### Terms and condition

- Prices in Euro, EXW
- Production time : 14 Weeks from order
- Payment terms:
  - 30% prepayment as an order
  - 70% down payment before dispatch

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  - 70% down payment before dispatch
- Warranty: 12 month
- Offer valid: 1 month

\* standard equipment

We reserve the right to make price, construction and technical changes of products without prior notice

**All photos in the offer are for illustration only**

**PEDERSEN** 