SPINDLE MOULDERS

# Spindle Moulders

Fimal TX 160 / TX 160 C / TX 160 L / TX 160 CL / TX 160 CF

Series of spindle moulders with a tilting spindle, in five versions: the TX 160 base model, the TX 160 C with a side tenoning carriage, the TX 160 L with table extensions and front support bar, the TX 160 CL combining both, and the TX 160 CF with a front tenoning carriage. Motorised spindle tilting from -45° to +45° with electronic angle readout, motorised height adjustment, six speed settings up to 10000 rpm and a 5.5 kW motor.

**MODEL TX 160**

| 180 mm | -45° / +45° | 10000 rpm | 5.5 kW |
|---|---|---|---|
| MAX. SPINDLE PROJECTION | SPINDLE TILT | MAXIMUM SPEED | MAIN MOTOR |



## / Application & Use

The Fimal TX 160 series comprises spindle moulders with a tilting spindle in five versions: the TX 160 base model with a 1200 x 780 mm worktable, the TX 160 C with a side tenoning carriage and an 1800 x 780 mm table, the TX 160 L with a 2500 x 780 mm table, front table extension and front support bar, the TX 160 CL combining the tenoning carriage and the extended table, and the TX 160 CF with a front tenoning carriage and a 1200 x (475+260) mm table.

The spindle tilts from -45° to +45° (TX 160 CF: -5° to +45°); tilting is motorised, with electronic angle readout via a magnetic scale. The spindle has a maximum projection of 180 mm above the table and a vertical travel of 230 mm, with motorised height adjustment and mechanical position readout; an electronic height readout with magnetic scale is optional. It runs at 1500, 3000, 4500, 6000, 8000 or 10000 rpm, driven by a 5.5 kW main motor. The opening in the table takes tools up to Ø 320 x 50 mm. The machine has a quick tool clamping and release system.

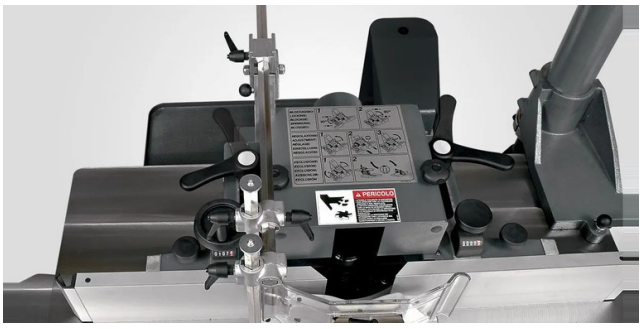
## / Key Features

- Worktable 1200, 1800 or 2500 x 780 mm (TX 160 CF: 1200 x (475+260) mm)
- Maximum spindle projection above the table 180 mm, vertical travel 230 mm
- Spindle tilt -45° / +45°, motorised, with electronic angle readout (TX 160 CF: -5° / +45°)
- Speeds 1500 / 3000 / 4500 / 6000 / 8000 / 10000 rpm
- Main motor 5.5 kW
- Maximum table opening Ø 320 x 50 mm
- C / CL: side tenoning carriage 900 x 370 mm, travel 900 mm; CF: front tenoning carriage 1200 x 310 mm, travel 1100 mm

## / Standard Equipment

- Motorised spindle height adjustment with mechanical position readout
- Mechanically adjustable fence with two position indicators, quick retraction system
- Anodised aluminium infeed and outfeed plates
- Sliding table section in front of the spindle, single-handle adjustment
- Quick tool clamping and release system
- Control panel with membrane keys
- CE guards for fence work, spindle work and tenoning

## / Machine Details



SPINDLE MOULDER FENCE WITH TWO POSITION INDICATORS



SLIDING TABLE SECTION IN FRONT OF THE SPINDLE

## / Options on Request

- Higher-power motor
- Motor overload protection
- Interchangeable spindles with No. 5 Morse taper (MK5)
- Spindle rotation reversal
- LED indicator of the selected speed
- Electronic readout of the spindle height
- Variable spindle speed 900–10000 rpm via frequency inverter
- Electronic programmer for two or three axes, on board or on a pendant control panel
- Power feeder on a fixed support or mounted on the pendant column
- Aluminium fence plates
- Glazing bead recovery unit with pneumatic stroke and four-position drum

## / Technical Data

| Model | TX 160 / TX 160 C / TX 160 L / TX 160 CL / TX 160 CF |
|---|---|
| Spindle configuration | Tilting spindle |
| Usable spindle length | 180 mm (maximum spindle projection above the table) |
| Vertical spindle travel | 230 mm |
| Spindle tilt | -45° / +45°, motorised, with electronic angle readout; TX 160 CF: -5° / +45° |
| Spindle speed | 1500 / 3000 / 4500 / 6000 / 8000 / 10000 rpm (6 speed settings); 900–10000 rpm with optional frequency inverter |
| Maximum tool dimensions for lowering below the table (Ø x H) | Ø 320 x 50 mm (opening in the table) |
| Main motor power | 5.5 kW (higher-power motor optional) |
| Spindle height adjustment | motorised, with mechanical position readout; electronic height readout with magnetic scale optional |
| Spindle moulder fence | mechanically adjustable, two position indicators (fence and infeed plate); quick retraction system clearing the worktable; anodised aluminium infeed / outfeed plates |
| Sliding table section in front of the spindle | adjusted without tools by a single handle (unlock, position, lock), also with the tool mounted |
| Control system | control panel with membrane keys; electronic programmer for two or three axes, on board or on a pendant control panel, optional |
| Noise emission | 83.9–87.3 dB(A) (LAeq, ISO 7960, moulding) |
| Dust emission — declared value | 0.47 mg/m³ (DIN 33893) |

## / Versions

| | TX 160 | TX 160 C | TX 160 L | TX 160 CL | TX 160 CF |
|---|---|---|---|---|---|
| Worktable | 1200 x 780 mm | 1800 x 780 mm | 2500 x 780 mm | 2500 x 780 mm | 1200 x (475+260) mm |
| Front table extension | — | — | 400 mm | 400 mm | — |
| Tenoning carriage | — | 900 x 370 mm | — | 900 x 370 mm | 1200 x 310 mm |
| Carriage travel | — | 900 mm | — | 900 mm | 1100 mm |
| Spindle tilt | -45° / +45° | -45° / +45° | -45° / +45° | -45° / +45° | -5° / +45° |
| Net weight | 480 kg | 720 kg | 660 kg | 820 kg | 500 kg |

Data refer to the standard TX 160 configuration. The supplied configuration and included options are defined in the quotation. Technical data may be updated without prior notice. Images are illustrative.

**SUPPLIER**

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