

Basic equipment

... for all milling machines

- ⌞ 5-year warranty
- ⌞ we guarantee ultimate precision due to **production in Germany** on state-of-the-art machine tools
- ⌞ made to toolmaker's accuracy with test report
- ⌞ tool holder MT2 (optional MT3 or SK30)
- ⌞ protective hood prevents unintentional touching of the spindle while in operation. Swivels for quick tool change
- ⌞ **hardened and ground linear guides with telescopic ball bearing travellers in all 3 axes**
 - high precision and rigidity
 - high accuracy of repetition due to smooth running
 - wear-free and maintenance-free to a great extent
 - ultimate guide precision
- ⌞ adjustable feed screws free of play in all 3 axes using adjustable bronze nut and counter nuts
- ⌞ milling head can be swivelled 90° to both sides
- ⌞ slow forward feed in Z-axis
- ⌞ drilling depth end stop
- ⌞ 4 concertina covers to protect guides
- ⌞ exact clamping of the quill on the total surface area in the milling head
- ⌞ clean surface of milled work using individual guides which can be clamped
- ⌞ constant torque throughout the entire speed range

... especially for milling machines F1410 LF

- ⌞ with electronically infinitely variable drive **140 - 3000 r.p.m.**. Equipped with a strong work spindle drive with dynamic, speed-controlled main drive motor, which can be adjusted by means of a potentiometer over a wide range of cutting speeds
- ⌞ with single-phase inverse-speed motor **1,4 kW, 230 V, 50 Hz** as direct current model with continuous r.p.m. surveillance
- ⌞ also available 110V – 60 Hz and inch model

Milling machine F1410 LF

Order No. 16400

... especially for milling machine F1410 LF high speed

- ⌞ robust, speed regulated motor, which can be adjusted by means of a potentiometer over a wide range of cutting speeds. Power **2,0 kW, 230 V, 50 Hz**
- ⌞ spindle speed **100 - 7500 r.p.m.**
- ⌞ suitable for small tools (e.g. for engraving) due to high speed
- ⌞ suitable for boring threads due to clockwise and counterclockwise rotation

Milling machine F1410 LF high speed

Order No. 16402

Technical data



	F1200 E	F1210 E	F1410 LF
Longitudinal X-axis	260 mm	500 mm	500 mm
Vertical Z-axis	280 mm	280 mm	280 mm
Transverse Y-axis	150 mm optional 180 mm	150 mm optional 180 mm	200 mm
Power 230 V, 50 Hz	1,4 kW	1,4 kW	1,4 kW
Spindle speed infinitely variable	140 - 3000 r.p.m.	140 - 3000 r.p.m.	140 - 3000 r.p.m.
Swivel range of the milling head to both sides	90°	90°	90°
Tool holder	MT2 tightening thread M10 optional MT3 or SK30 tightening thread M12	MT2 tightening thread M10 optional MT3 or SK30 tightening thread M12	MT2 tightening thread M10 optional MT3 or SK30 tightening thread M12
Drilling stroke	55 mm	55 mm	55 mm
Work bench	450 x 180 mm	700 x 180 mm	700 x 180 mm
Number of T-slots	3	3	3
Width of T-slots	12 mm	12 mm	12 mm
Truth of rotation of spindle nose	0,01 mm	0,01 mm	0,01 mm
Distance between milling machine table and spindle nose	min. 100 mm max. 380 mm	min. 90 mm max. 370 mm	min. 65 mm max. 350 mm
Working range of spindle nose and support column	185 mm	185 mm	185 mm
Machine dimensions (W x D x H)	650 x 640 x 960 mm	900 x 610 x 960 mm	950 x 600 x 950 mm
Weight without packing	85 kg	101 kg	118 kg



	F1200 E high speed	F1210 E high speed	F1410 LF high speed
Power 230 V, 50 Hz	2,0 kW	2,0 kW	2,0 kW
Spindle speed	100 - 7500 r.p.m.	100 - 7500 r.p.m.	100 - 7500 r.p.m.
Machine dimensions (W x D x H)	700 x 600 x 1100 mm	950 x 600 x 1100 mm	950 x 600 x 1100 mm
Weight without packing	96 kg	112 kg	127 kg
	For other technical details see F1200 E	For other technical details see F1210 E	For other technical details see F1410 LF

- Technical details are subject to change -