

UNIVERSAL MILLING MACHINE

LAGUN



MODEL FU 185

TECHNICAL DESCRIPTION

Table

| | | |
|--------------------------------|----|-------------|
| Table surface | mm | 1.850 x 350 |
| Number and width of T slots | mm | 5 x 16 x 60 |
| Max. Weight on the table | kg | 500 |
| Table turns in both directions | | ± 45° |

Traverses

| | | |
|--|----|-------|
| Longitudinal traverse with automatic feed | mm | 1.400 |
| Longitudinal traverse with manual feed | mm | 1.500 |
| Longitudinal traverse with universal dividing (optional) | mm | 1.150 |
| Cross traverse | mm | 400 |
| Vertical traverse (taper ISO 40 standard) | mm | 480 |
| Vertical traverse (taper ISO 50 optional) | mm | 410 |
| Ram traverse | mm | 700 |

Spindle

| | | |
|---|-----|---------------------------|
| Spindle taper | | ISO 40 DIN 2080 |
| Diameter of the main spindle | mm | Ø 88.88 |
| Diameter milling arbor | mm | Ø 27 |
| Number of speeds | | 12 |
| Speed range | rpm | 40 ÷ 56 ÷ 80 ÷ 112 |
| | rpm | 160 ÷ 224 ÷ 315 ÷ 450 |
| | rpm | 630 ÷ 900 ÷ 1.250 ÷ 1.800 |
| Distance from the main spindle to the ram | mm | 155 |

Feedrates

| | | |
|------------------------|--------|--------------------|
| Number of feedrates | | variación continua |
| Longitudinal and Cross | mm/min | 0 ÷ 1.300 |
| Vertical | mm/min | 0 ÷ 650 |

Rapid feedrates

| | | |
|------------------------|--------|-------|
| Longitudinal and Cross | mm/min | 1.300 |
| Vertical | mm/min | 650 |

Motors

| | | |
|-------------------------|----|------|
| Main Spindle | kW | 7,5 |
| Working-rapid feedrates | kW | 1,85 |
| Gear pump lubrication | kW | 0,2 |
| Coolant pump | kW | 0,1 |

General information

| | | |
|--------------------------------------|----|---------------|
| Floor space required (width x depth) | mm | 3.925 x 2.350 |
| Machine height | mm | 2.058 |
| Net weight | kg | 3.200 |
| Maximum cooling tank capacity | l | 35 |
| Total installed power | kW | 10 |

STANDARD EQUIPMENT

- Universal Milling Head ISO 40 DIN 2080.
- Quality casting DIN GG 25, with hardness of 205 ±15 Brinell.
- Chrome nickel-steel main spindle, hardened and ground inside and outside.
- Hardened and Ground guideways on the 3 axes.
- Automatic feeds in the 3 axes.
- Continuous Variation power feed for the 3 axes.
- Rapid feeds in the 3 axes.
- Safety folded handwheels.
- Backslash eliminator for longitudinal milling.
- Main motor with security brake in the main spindle.
- 1 Milling Arbor Ø 27 mm complete with its drawbar.
- 2 Arbor supports for milling arbor.
- Manual lock for ram's feed.
- Automatic centralized lubrication system.
- Low voltage machine lamp.
- Coolant tank.
- Complete coolant equipment.
- Coolant splash tray.
- Complete electrics with its motors, push-buttons and pendant control panel.
- Overload electrical protection.
- Electronic security device for the movement of the axes.
- Set of service keys.
- Testing report.
- Operator's manual and parts list.
- Protection according to CE regulations
- Security Norm (applicable only to EU).

OPTIONAL EQUIPMENT

- ISO 50 DIN 2080 horizontal main Spindle taper.
- ISO 50 DIN 2080 Universal Milling Head.
- ISO 40/50 Universal Milling Head with quill feed (100 mm manual).
- Digital Readout system.
- Universal dividing head with height to center 132,7 mm.
 - 3 Jaw chuck Ø150 mm.
 - 3 Jaw chuck Ø200 mm.
- Semi-universal dividing head with height to center 100 mm.
 - 3 Jaw chuck Ø125 mm.
- Semi-universal dividing head with height to center 128 mm.
 - 3 Jaw chuck Ø160 mm.
- Rotary table Ø200 mm with height to center 150 mm.
 - 3 Jaw chuck Ø160 mm.
- Rotary table Ø250 mm with height to center 170 mm.
 - 3 Jaw chuck Ø200 mm.
- Slotting attachment (travel 125 mm).
- ISO 40/50 Milling arbors.
- ISO 40/50 collet holder with set of collets.
- Mechanic or hydraulic machine vices.

MACHINE DIMENSIONS

