

### TECHNICAL DATASHEET

#### CNC-BED MILLING MACHINE

manufacturer	<b>LAGUN</b>
type	<b>GBM-42</b>
control	<b>HEIDENHAIN iTNC 530</b>
built	<b>2008</b>



Original picture similar

#### Travels

X-axis (longitudinal)	4.000	mm
Y-axis (cross)	1.200	mm
Z-axis (vertical)	1.500	mm

#### Clamping table

Clamping surface	4.200 x 1.000	mm
Max. workpiece weight	10.000	kg
Number and size of t-slots	7 x 22	mm H12
Distance between t-slots	140	mm

#### Feeds

Working feed X-, Y- and Z-axis	10.000	mm/min.
Rapid feed X / Y / Z	10.000	mm/min
Max. thrust of shaft to cutting unit	2.120	dN

### Universal Milling Head

Swiveling in vertical/diagonal level	automatic
Power on 100% ED	28 kW
Speed, stepless	15-3.000 Min-1
Torque, constant	1.070 Nm
No. of gearsteps	2
Gear step I	50 – 1.024 min-1
Gear step II	1.025 – 3.000 min-1
Tool taper	SK50 DIN 69871
Pull stud	DIN 69872-A

### Automatic Tool Changer ATC

Tool places	24 Places
Tool diameter max.	125/200 mm
Tool length max.	300 mm
Tool weight max.	15 kg

### Guides, drive and measuring systems

- All axis drives with digital drives manufacturer HEIDENHAIN
- Direct measuring systems for X, Y, and Z axis manufacturer HEIDENHAIN
- X-, Y- and Z-axis guidance by means of high-precision sliding guides for maximum stability and damping, especially in heavy-duty machining
- Precision ball screw with preloaded nuts in X-, Y- and Z-axis

### Coolant supply system and chip conveyor

- Coolant outlet at the front side of the milling head via manually swiveling nozzles
- Internal coolant supply
- Tank volume approx. 270 l
- Coolant pump supply 20 l/min at 4 bar
- Hinged belt chip conveyor along the X - axis of the machine, ejection right

### Measurement, weight

Machine footprint	ca. 10,0 x 3,5 m
Machine height	ca. 4,00 m
Machine weight	ca. 21.900 kg

### CNC-Control HEIDENHAIN iTNC 530

Digital numerical sequence control, including digital drive control, hard disk memory, 15" TFT - color screen.

#### Machining cycles:

Standard drilling and milling cycles, deep drilling, tapping with and without compensation chuck, milling of slots, rectangular and circular pockets, rectangular and circular studs, boring, drilling

milling (helical path), line-off, drilling patterns, head tilting, backward tilting, shifting and/or rotation of the coordinate system, mirroring, dimensional factor also axis specific,  
Linear interpolation on 3 axes, circular interpolation on 2 axes and on 3 axes with rotated working plane, tilt working plane

### HR 410 - Electronic handwheel for operation of all axes

#### Electrical supply data

Operating voltage	400 V
Operating frequency	50 Hz

#### Equipment & Accessories

- Universal milling head, positioning via Hirth coupling
- Spindle speed max. 3.000 min-1
- Axis drives by means of precision ball screws and digital servo motors
- CNC control HEIDENHAIN iTNC 530
- Electronic handwheel HEIDENHAIN HR 410
- Swiveling operating panel for machine operation in front or back of the machine
- Automatic tool changer with 24 magazine positions
- Coolant tank with 270l capacity, and coolant pump with 20l/min capacity
- Chip conveyor in the working area, ejection right, height ca. 1.000mm
- Telescopic steel cover of the X-axis
- Vertical guide covered at the bottom with steel curtain
- Working area enclosure closed on the sides.
- The manual sliding doors at the front of the machine can be opened along the entire length of the clamping table.
- hydraulic system
- work area lighting
- Painting RAL 7035 light grey / RAL 7016 anthracite

#### Technical review and replacements

- Full cleaning and technical inspection of machine
- Replacing the wipers
- Overhaul of the telescopic covers
- New bellows in the vertical axis
- Review and maintenance of Milling head
- Functional tryout at our showroom

Any obvious defects and faults found during inspection are professionally repaired or exchanged by our expert service team