



Bed Type Milling Machine - Universal

Stock number **7-32734**
Make **SORALUCE**
Model **FR 12000**

Control **CNC controls HEIDENHAIN iTNC 530**

Year of Construction **2008**

Condition ★★★★★★☆☆



basic design

basic design

travelling column

Working Range -milling-

x-axis travel	12000 mm
y-axis travel	3600 mm
z-axis travel	1600 mm

working spindle / head

spindle type	tilting head
tilting range	360 °
- mode of operation	automatic
- positioning/indexing	2.5 °
tilting range (2nd axis)	360 °
- mode of operation	automatic
- positioning/indexing	2.5 °
spindle revolutions (min)	20 /min
spindle revolutions (max)	4000 /min
number of gears	2
spindle diameter	90 mm
taper fixture	ISO SK 50
drive power (max)	37 kW
torque (max.)	1410 Nm

Axis drives

feed velocity (min)	1 mm/ min
feed velocity (max)	25000 mm/



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rapid traverse

25000 min/
min

Electrical specifications

mains voltage

400 V

mains frequency

50 Hz

Dimensions / weights

total weight approx.

41000 kg

attachments

angular milling head

yes

autom. tool clamping

yes

ball spindles

yes

guideway covers

yes

coolant unit

yes

high pressure cooling syst. (through spindle)

yes

chip conveyor

yes

Attachments

THIS MACHINE HAS RUN ONLY 2815 HOURS

FEATURES:

- Portable electronic handwheel HEIDENHAIN HR 420.
- Travelling operator platform, closed upperside with frontside sliding door and sight window. (dim. 2000 x 1350 x 1975 mm height).
- Coolant greasing device with 1000 ltrs tank + 500 ltr lifting tank with pump. Discharge thru shower collar around the spindle or thru inner inner coolant device according to DIN 69871 Form AD, upto 20 bar.
- Mechanical prearrangement for automatic toolchanger.
- Strap hinge system chip conveyor with width of 350mm & a throwing-off height of 1250mm.

Description of condition

PLEASE WATCH A SHORT VIDEO CLIP ON:

<https://www.youtube.com/watch?v=RrvFnHtjT5s>

Technical description

- COLUMN ELEVATION ON Y = 3600mm.
- Automatically indexing milling head with 2,5° (Hirth) serration in 2 levels. 144 positions per level.
- RPM of the mainspindle continuously adjustable thru 2 areas via ZF Gearbox.
- Forward feed motors are SIEMENS Servomotors, adjustment variable via digital propulsion technology.
- Hydraulic counterweight operates direct on vertical slide.



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- Oil coolant unit for cooling of ZF main spindle Gearbox & ventilator for heatflow is in the milling slide.
- 3D heat expansion compensation with 2 temperature sensors in the milling slide & one sensor in the milling head.
- INA Linear anti friction guideway system RUE 65 with central lubrication.
- Rack drive in X-axis with 2 guided servo motors Master-Slave system.
- HEIDENHAIN measuring systems in all axis.



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