# Your address for high quality machine tools



## TECHNICAL DATASHEET CNC 4-Axes-Machining Center with prepared 5th-Axis (rotary table)

Manufacturer SIGMA

type Flexi 7P - 4AX

Built **2008** 

Control **HEIDENHAIN iTNC530** 



#### Working area

Two machine tables inside the working area,

movable separately for pendulum machining, linkable for long workpieces

Working area table  $2 \times 1.000 \times 730 \text{ mm}$ Working area table (linked)  $1 \times 2.075 \times 730 \text{ mm}$ Max. Workpiece dimensions  $D = 860 \times 700 \text{ mm}$ Max table load  $2 \times 1.400 \text{ kg}$ Max table load (linked)  $1 \times 2.500 \text{ kg}$ 

### **Travels**

X-Axis (table longitudinal)	2 x 1.500	mm
X-Axis (table linked)	1 x 2.100	mm
Y-Axis (table transversal)	700	mm
Z-Axis (Head vertical)	950	mm
B-Axis (Swiveling head)	+/- 110	0
C-Axis (prepared 5. Axis, rotary table)	+/- 360	0

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#### **Main Spindle**

Max. Power. ED 100/40% 22/33 kW Max. Torque, ED 40% 180 Nm Speed range 40 - 12.000 min-1

+/- 110° Swiveling range B-Axis Tool taper DIN 69871 SK 40 Pull stud DIN 69872

#### **Tool magazine**

Chain magazine with two running directions and electromechanical double gripper

Number of pockets 64

Max. Tool length 300 mm Max. Tool diameter 140 mm Max. Diameter adjacent tool 75 mm Max. Tool weight 8 kg

#### **Coolant circuit**

Two coolant circuits, each with its own filter unit:

- 30 bar internal coolant supply through the spindle
- 5 bar external coolant supply via shower rim (4 nozzles)

Coolant tank capacity in chip conveyor and 650 I

tank

Filter system high pressure 30bar 25 mμ

Filter system low pressure 5bar 2 x 90

#### **Dimensions**

Needed space ca. 6,0 x 4,0 x 3,0 15.000 kg Machine weight

#### **Equipment & Accessories**

- 2 pcs. Zero-Point clamping system mounted on both machine tables
- 30 pcs. Tool taper SK 40
- NC-rotary table manufacturer LEHMANN, type EA-431.2A, with clamping yoke and counter bearing
- 3D-touch probe
- · Machine housing with fully closed working area
- 2 pcs. chip conveyor
- Refrigerating unit for spindle cooling
- Electronic handwheel HR410

