

# Machining center

<b>State</b>	<b>NEW</b>
<b>Category</b>	Machining centre
<b>Brand</b>	SCHAUBLIN
<b>Model</b>	51-5AX
<b>Serial number</b>	352713
<b>Year of manufacture</b>	-
<b>Inventory number</b>	0473



## CHARACTERISTICS

NEW vertical machining center SCHAUBLIN type 51-5AX CNC  
20'000 min-1, - HSK A50 - Numeric control unit HEIDENHAIN  
iTNC530

5 axis rotary table

### Include options

30 positions tool magazin (instead of 20) ref. 0510-111700-000  
linear scales HEIDENHAIN for X/Y/Z ref. 051-10400-000

### Technical datas

#### Travels

X-Axis (Longitudinal) : 300 mm

Y-Axis (Transversal) : 400 mm

Z-Axis (Vertical) : 430 mm

A axis : +30 ~ -120 °

C axis : 360 °

Distance spindle nose - table surface : 45 -475 mm

distance spindle center - column Table : 470 mm

#### Table

Table diameter size : 210 mm

Max weight on table : 50 / 75 Kg

T-Slots (Width / Number) : 12 / 4 mm/Nbr

#### Spindle

Taper size : HSK A50

Motor power : 18 KW

Drive : Direct drive

Speed range : 12000/15000/20000 min-1

Torque : 36.6Nm (min-1)

## COMPOSITION AND ACCESSORIES

**Axis Motor**

Servo motor Heidenhain : 2.64(X/Y) 5.7(Z) KW

**Feed**

Rapid feed : [m/min] 30 m/min

Working feed : [m/min] 12 m/min

**Tool Changer (ATC)**

Carrousel capacity : 30

Shank type : HSK A50

Tool diameter max. : 80 mm

Diameter with adjacent pots empty : 95 mm

Tool weight max. : 6 Kg

Tool lenght max. : 250 mm

Tool change time (tool - tool) : 3 s

**Accuracy (ANSI)**

Positioning (X, Y, Z) : 0.007 mm

Repeatability (X, Y, Z) : 0.004 mm

Positioning (A axis) : 20 arc sec

Repeatability (A axis) : 8 arc sec

Positioning (C axis) : 10 arc sec

Repeatability (C axis) : 4 arc sec

**Ball screws**

Diamteter (all axis) : 32 mm

Pitch (all axis) : 10 mm

**Coolant supply**

Tank capacity Control unit : 170 l

Type of control unit : Heidenhain iTNC 530

**Electric consumption**

Voltage : 400 V

Tolerated fluctuations : +/- 5 %

Frequency : 50 Hz

Tolerated fluctuations : +/- 5 %

**Obstruction and weight**

Netweight : 5750 Kg

Over-all-dimension (length-width-height) : 1800 x 2663 x 2568 mm

**Diverse**

Color of the machine : SCHAUBLIN standard 2 colors, color 1 :

Gris clair RAL 7035

Color of the machine : SCHAUBLIN standard 2 colors, color 2 :

Bleu cobalt RAL 5013

Machine and equipment conforme to CE standards : yes

Operating temperature : +15 to +30

Relative humidity : 10 to 75



