# Your address for high quality machine tools



Datasheet No. 1/1633/2022, ANAYAK HVM-8000-PC

2022-11-08

# **TECHNICAL DATASHEET**

# **CNC-Travelling Column Milling Machine**

Manufacturer ANAYAK

Type HVM-8000-PC

Control **HEIDENHAIN iTNC530** 

Built **2007** 



### **Travels**

Longitudinal movement (X-axis)	7.300	mm
Transverse movement (Y-axis)	1.500	mm
Vertical movement (Z-axis)	2.000	mm

# Clamping table

Clamping surface	8.000 x 1.200 x	mm
Max. Workpiece weight	15.000	kg/m²

T-slot number x size 9 x 22 mm Distance 130 mm

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X-, Y- and Z-Axis, stepless 2 - 10.000 mm/min. Rapid traverse in X / Y / Z 20 m/min

# Orthogonal-Indexierbarer-Fräskopf

 Swivel range front/rear plane
 1°/1°
 360 x 1°/ +/- 135°°

 Power at S1/S6 ED
 28/38 kW

 Speed range, stepless
 40 - 4.000 min-1

 Max. Torque
 2.240 Nm

 Tool holder
 SK 50 – DIN 69871-B

 ZF - Gearbox
 2 steps

### **Automatic toolchanger ATC**

Tool places 40 pockets
Tool diameter max. 125/250 mm
Tool length max. 400 mm
Tool weight max. 20 kg

Change positions Horizontal/Vertical

#### Guideways, drives and measuring systems

- All axis drives with digital drives Fabr. SIEMENS
- Direct measuring systems for X-, Y- and Z-axis Fabr. HEIDENHAIN
- X-, Y- and Z-axis guidance by means of high-precision linear guides for highest precision and dynamics
- Rack and pinion drive in X axis
- Precision ball screws with preloaded nuts in Y and Z axes

#### Coolant system with chip conveyor

- Coolant outlet at the front of the milling head via manually swiveling nozzles.
- Internal coolant supply through the spindle center
- Tank volume approx. 350 I with oil skimmer
- Normal coolant supply 30 l/min 5 bar
- High pressure pump for internal coolant 23 l/min 19 bar
- Coolant tank incl. and paper belt filter
- Hinged belt chip conveyor along the X axis of the machine including coolant tank

## **Dimensions and weight**

Machine footprint ca.  $14,5 \times 7,4 \text{ m}$ Total height ca. 4,80 mMachine weight ca. 50.000 kg

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#### **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 tenons, 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 Power supply**

Total power 59 kVA
Operating voltage 3 x 400 V
Operating frequency 50 Hz

#### **Equipment and Accessories**

- Machine bed, column and vertical saddle as cast iron construction, heat-treated for stress-relieve
- Milling slide as cast iron construction, heat-treated for stress-relieve
- Universal milling head, positioning via Hirth toothing, front plane 1°, rear plane 1° - changeable automatically
- oil cooling unit for cooling of ZF main gearbox
- spindle drive 28/38 kW
- spindle speed max. 4.000 min-1
- Axis drives by means of gear rack or precision ball screw spindles and digital servo motors
- 3-D measuring touch probe system
- CNC control HEIDENHAIN iTNC 530 incl. digital drive technology
- Portable electric handwheel HEIDENHAIN HR 410
- Travelling operator platform with second CNC control HEIDENHAIN iTNC 530
- Autom. tool changer with 40 magazine positions, change position horizontal/vertical
- Coolant system with external shower ring and IKZ through the spindle
- 1 chip conveyor lengthwise in the working area
- Precision linear guides in all axes
- Precision ball screws in all axes
- Direct measuring system in all axes
- Hydraulic counterbalance in the vertical axis
- Telescopic steel covers of the X-axis
- Milling unit closed with link aprons at the top and bottom of the vertical axis
- Air conditioning for electrical cabinet
- hydraulic system
- Working area lighting
- Approx. operating hours: Machine ON approx. 50,000 h, program run approx. 28,000 h