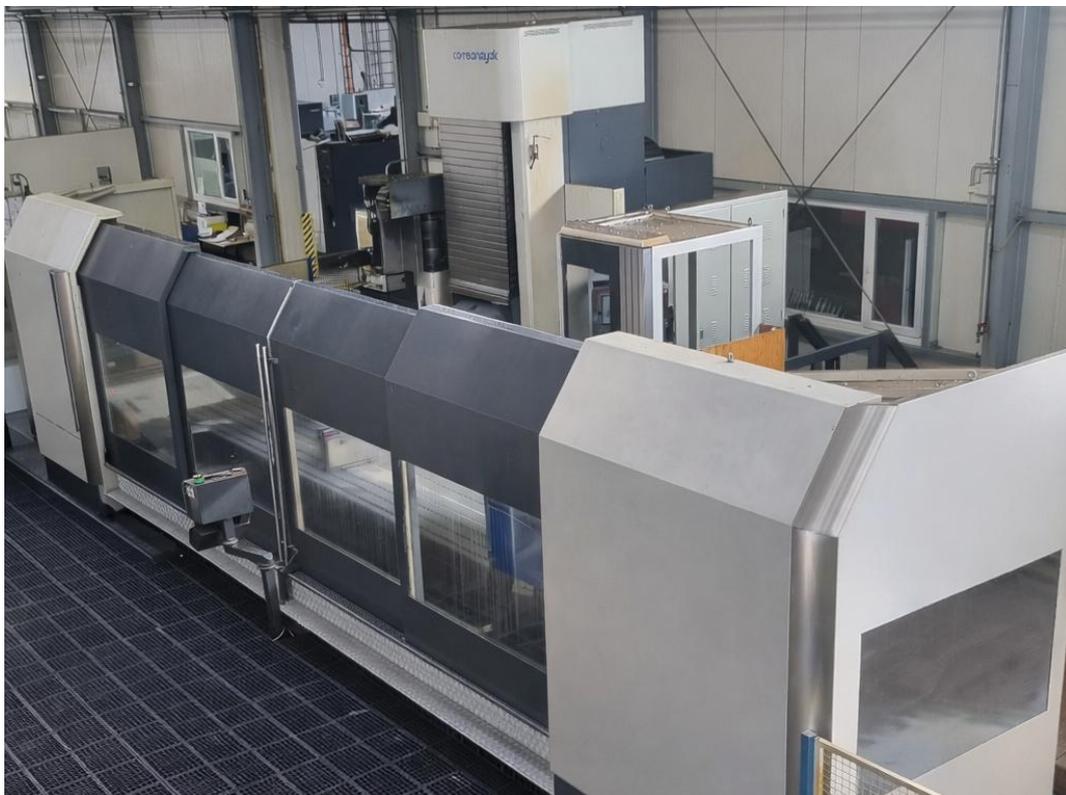


### TECHNICAL DATASHEET

#### CNC – TRAVELING COLUMN MILLING MACHINE With two operator stands and full machine enclosure

Manufacturer	CORREA ANAYAK
Type	HVM-65
CNC-Control	HEIDENHAIN iTNC 530 HSCI
Built	2013



#### Travels

Longitudinal movement (X-Axis)	6.500 mm
Cross movement (Y-Axis)	1.500 mm
Vertical movement (Z-Axis)	2.000 mm

#### Clamping table

Clamping surface	7.300 x 1.200 mm
Height above floor	975 mm
Max. workpiece weight	10.000 kg/m <sup>2</sup>
Number and size of T-slots	9 x 22 mm      22H12 / pilot slot 22H7
Distance between T-slots	130 mm
Front T-slots	2 Stück

### Feeds

X-, Y- and Z-Axis, stepless	2 - 10.000	mm/min.
Rapide traverse in X / Y / Z	20.000	mm/min

### Correa Universal-NC-Milling Head “UAD”

Swivel front/rear plane	Automatically		
Indexing	0.02 x 0.02 °		= 162 Mio. Positions!
Clamping force, inner Hirth spline	ca. 22.000	kg	
Motor power	28 / 42	kW	S1 /S6
Max. torque	1.375	Nm	
Number of gear stages	2		
Max. gear reduction	1:5,5		
Speed range, continuously variable	0 - 6.000	min-1	
Tool holder	SK50	DIN 69871-AD	
Tightening bolts		DIN 69872-A	
Head lubrication	Air-oil mixture with separate automatic lubrication pump		
Cooling system for spindle bearings	Yes		
Cooling system for gearbox	Yes		

### Automatic Tool changer vertical / horizontal

Number of pockets	60	Plätze
Tool diameter max.	Ø125/200	mm
Tool length max.	400	mm
Tool weight max.	25	kg

### Guides, Drive- and measuring systems

- All axis drives with digital drives manufactured by SIEMENS
- Direct measuring systems for X, Y, and Z axes manufactured by HEIDENHAIN
- X, Y, and Z axes guided by high-precision linear guides for maximum precision and dynamics
- Precision ball screws with preloaded nuts in X, Y, and Z axes

### Coolant Tank

- Tank with two cooling circuits and pumps
- Internal coolant supply, approx. 20 bar and 25 l/min
- External cooling approx. 4 bar and 30 l/min
- Tank volume approx. 900 l + 700 l intermediate tank at the chip conveyor
- MAHLE AF 72 automatic edge gap filter

### Chip conveyor

- 1 chip conveyor along the machine table, ejection right from
- 1 ascending conveyor to the right of the machine with intermediate tank
- Discharge height approx. 1,000 mm

### Dimensions and weight

Machine footprint	approx. 14.5 x 7.0	m
Total height	approx. 4.85	m
Maschinengewicht	ca. 58.000	kg

### CNC-Control HEIDENHAIN iTNC 530 HSCI

Digital sequential control, including digital drive control, hard disk storage, 15" TFT color screen

#### Standard working cycles:

Standard drilling and milling cycles, deep drilling, thread cutting with and without compensation chuck, milling of grooves, rectangular and circular pockets, rectangular and circular journals, boring, drill milling (helical path), line cutting, drilling patterns, head swiveling, reverse countersinking, displacement and/or rotation of the coordinate system, mirroring, dimension factor also axis-specific, linear interpolation on 3 axes, circular interpolation on 2 axes and on 3 axes with rotated working plane, swiveling the machining plane

### HR 550 – Wireless electronic handwheel for operating all axes

### Connection Data

Operating Voltage	3 x 400	V
Operating frequency	50	Hz

### Equipment and accessories

- Heavy-duty traveling column milling machine with controlled NC milling head, fixed table, and transversely movable column
- HEIDENHAIN iTNC 530 HSCI CNC control with 15" screen and stainless steel housing, control panel movable to the front of the machine
- Second operator station mounted on the machine stand
- Nicolas Correa universal milling head type "UAD," 0.02x0.02°, SK50
- Spindle speed max. 6,000 rpm, power 28/42 kW, max. torque 1,375 Nm, two gear stages
- Preloaded precision ball screw drives and servo motors in all linear axes
- HEIDENHAIN HR550 electronic wireless handwheel
- Operating mode 3
- Hexagon M&H 3D probe
- Automatic horizontal/vertical tool changer with 60 magazine slots
- Dual-circuit coolant system with approx. 900 l capacity, 20 bar high-pressure pump and internal coolant supply through the spindle with potentiometer, Mahle AF72 automatic edge gap filter
- 2 chip conveyors, 1 x between machine bed and workpiece table, 1 x short cross conveyor
- Telescopic steel cover for the longitudinal and transverse axes
- Vertical guide at top and bottom covered with bellows with attached stainless steel slats
- Full enclosure of the working area with 600 mm "U" doors, including fixed side panels with windows and slanted doors.
- All-round protective enclosure, closing at the rear against the wall (2 doors and safety switch)
- The manual sliding doors at the front of the machine can be opened along the entire length of the clamping table.
- Lighting of the work area
- Paint finish RAL 7035 light gray / RAL 7016 anthracite
- Machine ON approx. 35,500 hours, program run approx. 16,000 hours

### Scope of supply package „SERVICE“ – included services

- Complete disassembly of the machine into its individual parts
- Extensive and thorough cleaning of the machine and all accessory components
- Technical assessment and inspection of the machine and all individual parts by our specialist technicians
- Any visible defects or defective parts identified during the inspection are professionally repaired or replaced by our experienced service team
- Overhaul of the telescopic covers
- Replacement of all scrapers

You receive a fully tested and functional machine that you can use for production immediately.

**Machines that have undergone our "service" package cannot be compared to standard used machines on the market, either technically or visually!**



Your address for  
high quality machine tools

# FLECKENSTEIN

## Werkzeugmaschinen

Technical Datasheet

CNC–Traveling Column Milling Machine

ANAYAK HVM-6500

