



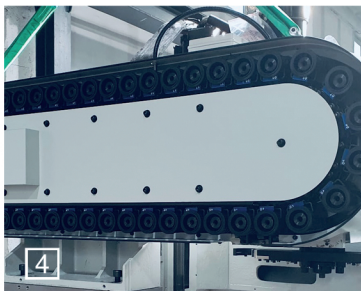
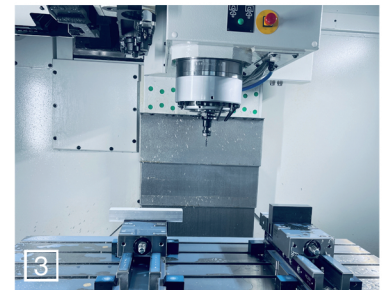
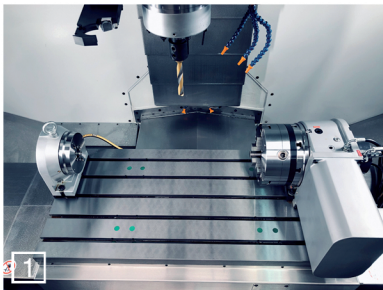
VMC

**AVIA's best VMC
ever produced.**



VMC V HIGHLIGHTS |

- 15.000 rpm powerful and versatile spindle with oil/air lubricated bearings for long time operation with high rpm,
- 600 mm Y axis travel and enlarged working area,
- 50 tools ATC option for larger tools capacity and easier automation,
- large, removable side door for easy application of pallet changer or robot,
- smaller footprint of the machine to save your floor space,
- TNC 620 Heidenhain CNC system as a standard,
- TNC 640 Heidenhain or 828D Siemens CNC systems as optional choice,
- extensive standard equipped, machine tool ready to meet the most demanding production applications,
- designed, produced and assembled in Europe,
- key quality components including ballscrews and spindles manufactured in-house.



1 – Optional CNC rotary table.
4 – 50 tool capacity ATC (option).

2 – 15.000 rpm inline spindle.
5 – Robust components.

3 – Large working area.
6 – Heidenhain CNC system.

TECHNICAL DATA		VMC 650 V	VMC 800 V	VMC 1000 V	VMC 1200 V
WORKTABLE:					
Table surface	mm	800 x 550	1000 x 550	1200 x 550	1400 x 550
T-slots: number / width / spacing	mm	5 / 18 / 100	5 / 18 / 100	5 / 18 / 100	5 / 18 / 100
Maximum table load	kg	700	850	1000	1200
TRAVEL RANGES:					
Longitudinal X	mm	650	800	1000	1200
Transverse Y	mm	600	600	600	600
Vertical Z	mm	620	620	620	620
SPINDLE:					
Maximum spindle speed	rpm	15 000	15 000	15 000	15 000
Spindle taper	ISO	ISO 40	ISO 40	ISO 40	ISO 40
Spindle bearings lubrication	type	oil / air	oil / air	oil / air	oil / air
Spindle power S1 / S6 (25%)	kW	10 / 17	10 / 17	10 / 17	10 / 17
Spindle torque S1 / S6 (25%)	Nm	64 / 108	64 / 108	64 / 108	64 / 108
Min. / Max. distance from spindle nose to table surface	mm	120 / 740	120 / 740	120 / 740	120 / 740
TOOL MAGAZINE:					
Tool changer type		double arm ATC	double arm ATC	double arm ATC	double arm ATC
Number of tools std. / option	pcs.	30 / 50	30 / 50	30 / 50	30 / 50
Tool to tool change time	sec.	2,5	2,5	2,5	2,5
Max tool diameter	mm	85 / 130	85 / 130	85 / 130	85 / 130
Max tool weight	kgs	7	7	7	7
Max tool length	mm	300	300	300	300
FEEDS:					
Feed rate X / Y / Z	m/min	0 – 35 / 35 / 35	0 – 35 / 35 / 35	0 – 35 / 35 / 35	0 – 35 / 35 / 35
Rapid traverse X / Y / Z	m/min	35 / 35 / 35	35 / 35 / 35	35 / 35 / 35	35 / 35 / 35
CNC SYSTEMS:					
Standard	Heidenhain	TNC 620	TNC 620	TNC 620	TNC 620
Option	Heidenhain	TNC 640	TNC 640	TNC 640	TNC 640
Option	Siemens	828D	828D	828D	828D
MISCELLANEOUS:					
Accuracy of positioning	mm	±0,004	±0,004	±0,004	±0,004
Repeatability	mm	0,004	0,004	0,004	0,004
Total power installed	kVA	27	27	27	27
Machine prepared for application of AVIA APC (automatic pallet changer)		standard	standard	standard	standard
Overall Dimensions X / Y / Z	mm	2785x2720x3030	3065x2720x3030	3065x2720x3065	3065x2720x3065
Gross weight approx.	kg	c.a. 4.600	c.a. 5.150	c. a. 5.500	c.a. 5.900

STANDARD EXECUTION:

- digital CNC system from Heidenhain,
- digital motors and drives for spindle and axes,
- roller type guideways for all axes, width 45 mm,
- telescopic covers of all guideways,
- directly driven ballscrews in all linear axes, Ø40 mm,
- automatic central lubrication system for ballscrews and guideways,
- ISO 40 inline spindle with oil/air lubrication system,
- spindle cooler,
- coolant nozzles for spindle,
- side mounted automatic tool changer for 30 tools,
- fully enclosed working area with stainless steel floor,
- enclosure side door prepared for APC,
- coolant wash gun and compressed air gun,
- chip flushing system,
- roll out coolant tank,
- efficient lighting system with LED lamps,
- ethernet port, USB port,
- screw-type chip conveyor,
- electronic handwheel HR510,
- LED status beacon - 3 colours,
- heat exchanger for electric cabinet,
- pull studs - 6 pcs.,
- standard painting RAL 7024/7035/9007,
- CE declaration of conformity,
- operator's and programming manuals (CD),
- foot pads for machine setup included.

OPTIONS:

- linear scales with compressed air unit for all three axes,
- tool probe, workpiece probe,
- coolant through spindle CTS 20 bar,
- coolant through spindle CTS 70 bar with regulation (20-50-70),
- air through spindle ATS (5 bar),
- tool cooling by compressed air 5 bar - adjustable nozzles,
- CNC rotary tables (4th axis, 4th and 5th axes),
- ATC 50 pockets - chain type tool changer,
- BT40 spindle taper,
- scraper type or hinge type chip conveyor,
- CAD/CAM 3D model,
- automatic pallet changer,
- paper filter for nebulise materials,
- mechanical oil separator,
- oil mist collector with filter (environment friendly operations),
- other upon request.