VL DUO line



MANUFACTURING SYSTEM FOR CHUCKED COMPONENTS



MAXIMUM FLEXIBILITY

Each machine in the DUO line is configured individually to the manufacturing requirement. The entire list of options, which is also available for single machines, is freely available for every machine in the DUO line, including driven tools, Y-axis, probe, etc. The VL DUO line is available in the vertical turning machine versions VL 2, VL 4, VL 6 and VL 8 (depiction without safety fences).



MANUFACTURING SYSTEM FOR CHUCKED COMPONENTS



The Right Solution for Your Production Process

Parts storage facility, automation system and machining – the DUO line guarantees perfectly coordinated manufacturing. Every DUO line consists of two modular machines from the VL-series with the TrackMotion automation system and a parts storage facility for raw and finished parts. The modular approach of the DUO line allows twin spindle manufacturing of a wide range of workpieces with the benefits of single machines.









TECHNICAL DATA		VL 2 DUO line	VL 4 DUO line	VL 6 DUO line	VL 8 DUO line
Chuck diameter	mm	160	260	400	500
	inch	6.5	10	15.5	19.5
X-travel	mm inch	700 27.5	740 29	880 34.5	995
Z-travel	mm	375	400	480	<u> </u>
	inch	15	15.5	19	23
Y-travel (optional)	mm inch	± 50 ± 2	± 30 ± 1	± 30 ± 1	± 30 ± 1
Main spindle	inon	12	1	<u> </u>	
» Power rating at 40 % / 100 %	kW hp	18 / 14 24 / 19	27 / 18 36 / 24	39 / 28 52 / 38	44/34,5 59/46
» Torque at 40 % / 100 %	Nm ft-lb	77 / 59 56 / 43	303 / 202 223 / 149	460 / 320 339 / 236	775/600
» Speed, max.	1/min	6.000 6,000	4.500 4,500	3.100 3,100	2.850 2,850
TrackMotion					
» Workpiece weight (gripper), max.	kg Ib	5 11	20 44	40 88	60 132
» Horizontal travel speed	m/min ipm	150 5,907	150 5,907	150 5,907	150 5,907
» Vertical travel speed	m/min ipm	25 984	25 984	25 984	25 984
» Stroke in Z (TransLift)	mm inch	450 17.5	450 17.5	650 25.5	650 25.5

THE BENEFITS OF THE TRACKMOTION AUTOMATION SYSTEM

- Minimal set-up time the TrackMotion automation system is ready for use as soon as the workpiece height and part diameter have been entered
- Universal NC gripper no retooling required
- + Time saving by turning the workpiece during transport
- Space-saving since the whole TrackMotion automation system is installed behind the machines
- Measuring equipment, marking systems, cleaning machines and a lot of other functions can be integrated
- Short part transport time: Horizontal travel speed: 150 m/min and vertical: 25 m/min

TrackMotion: the Automation System for the VL DUO line

The TrackMotion is an automation solution which combines the previous concept of conveyor belts, pick-and-place units and changers in a single system.

On the TrackMotion automation system, a so-called TransLift unit runs on a rail system through the machines ("track"). The TransLift grips the parts at different heights, while also positioning and turning the workpiece over. The machines can be linked to each other very easily using a TrackMotion automation system. What is more, the TrackMotion automation system is also extremely fast.



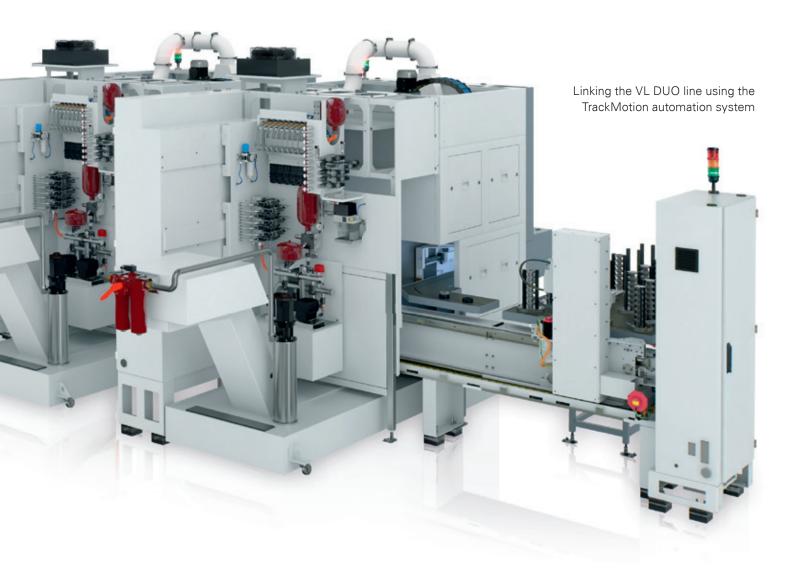
TRACKMOTION





Machining in the first clamping operation OP 10

Machining in the second clamping operation OP 20





EMAG TrackMotion – the highly flexible automation system for the VL DUO line: TransLift, track and control unit

Simple and reliable –

TrackMotion replaces conveyor belts, changers and lifting units. High travel speeds ensure high productivity: horizontal: 150 m/min, vertical: 25 m/min.



TRACKMOTION

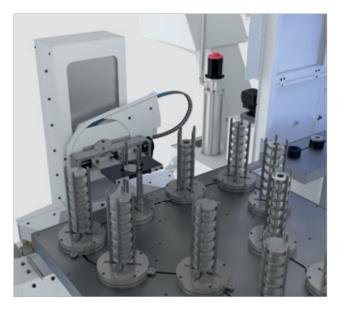
Use the Workpiece Storage for More Productivity

The VL DUO line was specially developed for machining chucked parts in two clamping operations in medium to large series. The low cost, large workpiece storage means that the line can also manufacture autonomously until all the supplied raw parts have been machined which can take up to 3-4 hours (depending on the workpiece and tool).

Resetting in a very short time

All the TrackMotion axes, including the gripper, are CNC-controlled. The resetting process takes place by entering the dimensions of the new workpiece. If you wish to reset the machine for a known workpiece, this can simply be done by opening the appropriate workpiece data record.





The raw parts are supplied by a parts storage facility. This has a capacity of up to 400 parts, depending on the geometry of the workpiece.

From small to large with no retooling. The universal NC gripper ensures that the VL DUO line can be reset very quickly.

At home all over the world.

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