

**VL 3 DUO**  
**TWIN-SPINDLE TURNING MACHINE FOR THE HIGHLY  
PRODUCTIVE MANUFACTURING OF CHUCKED PARTS**



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# THE VL 3 DUO FROM EMAG

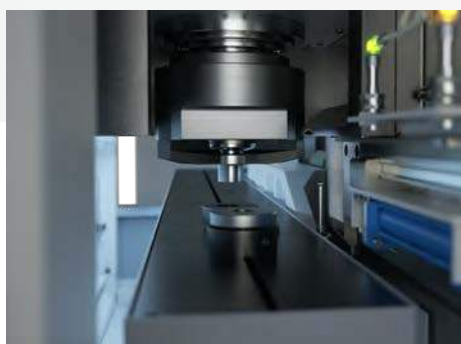
EMAG has extended the product range of the extremely successful VL series in the form of the VL 3 DUO, a twin-spindle machine solution for the highly productive manufacturing of chucked parts with a diameter of up to 150 mm.

The VL 3 DUO integrates all recent EMAG technological developments (from pick-up automation and the TrackMotion automation system, to the basic modular design of the machine) to create a manufacturing system that delivers maximum productivity, with a minimum footprint.



## AUTOMATION INCLUDED, FREE OF CHARGE

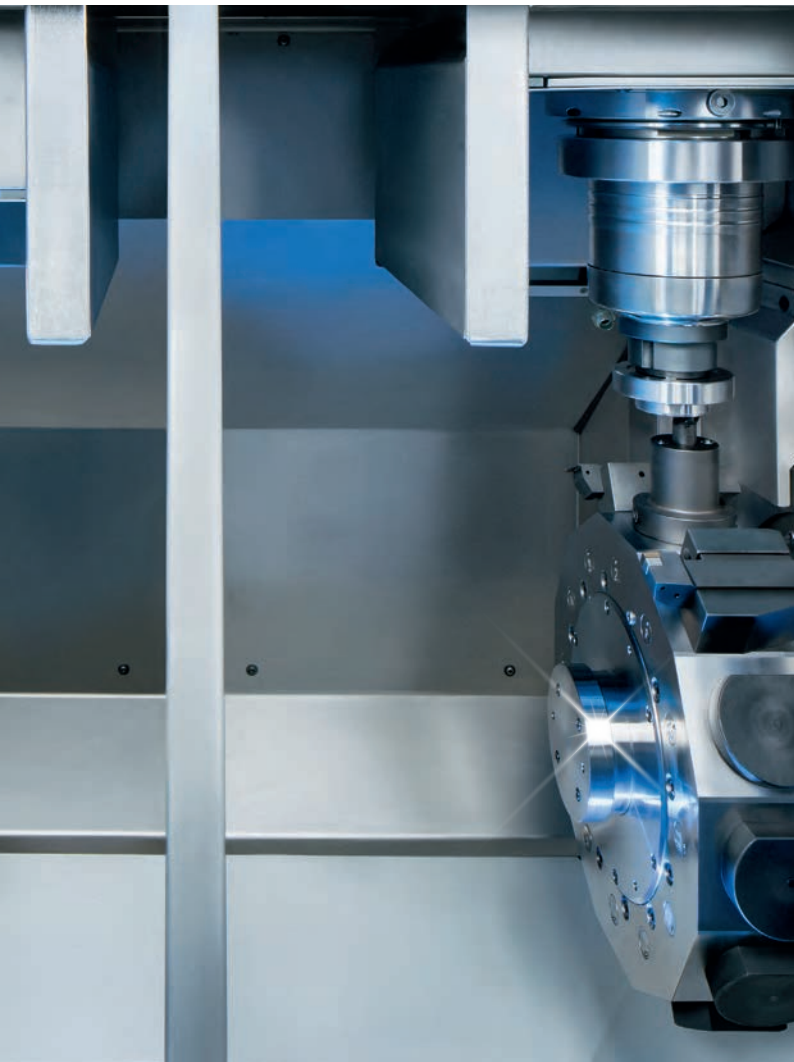
On the VL 3 DUO machines, the working spindles are not only used to machine workpieces, but also to load and unload them. This saves money, space and unnecessary peripheral devices.



Loading and unloading (pick-up station)  
OP 10

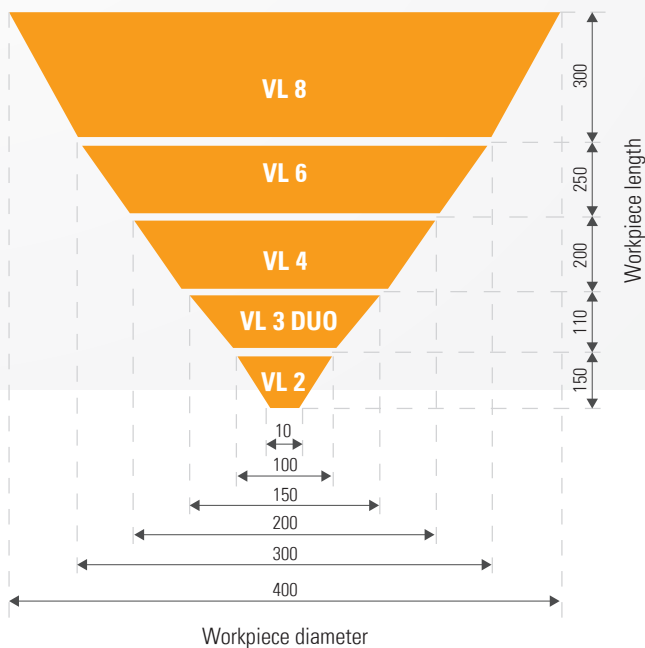


Loading and unloading (pick-up station)  
OP 20



## HIGHLIGHTS

- + Two separate machining areas for OP 10 and OP 20. Each machining area features a high-performance pick-up spindle and a tool turret with 12 tool positions.
- + The TrackMotion automation system not only ensures fast parts transport between the parts storage facility and machining areas, but also turns the parts between OP 10 and OP 20.
- + Its compact design ensures maximum productivity with a minimum footprint. Both machining areas are also easily accessible which minimizes set-up times.



## TECHNICAL DATA

|   |          |                       |
|---|----------|-----------------------|
| Workpiece diameter, max.                                  | mm       | 150                   |
|   | inch     | 6                     |
| Chuck diameter  | mm       | 210                   |
|   | inch     | 8                     |
| Workpiece length, max.                                    | mm       | 110                   |
|   | inch     | 4.5                   |
| Travel distances: X (machining stroke) / Y (optional) / Z | mm       | 505 / ± 30 / 250      |
|   | inch     | 19.5 / ± 1 / 10       |
| Main spindles (2x)  |          |                       |
| » Power rating, 40% / 100%                                | kW       | 17.9 / 15.5           |
|   | hp       | 24 / 21               |
| » Torque, 40% / 100%                                      | Nm       | 144 / 98              |
|   | ft-lb    | 106 / 72              |
| » Number of revolutions, max.                             | rpm      | 5,000                 |
|   | rpm      | 5,000                 |
| » Spindle flange to DIN 55026                             |          | Size 6                |
| » Spindle bearing diameter, front                         | mm       | 100                   |
|   | inch     | 4                     |
| Turrets (2x)  |          |                       |
| » Turret tool positions                                   | Quantity | 12                    |
| Rapid-traverse rate X / Y / Z                             | m/min    | 60 / 30 / 30          |
|   | ipm      | 2,363 / 1,181 / 1,181 |

At home in the world.

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Subject to technical changes.

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