



Integrated Z-Stages Series 5104.D

The series 5104.D Stages are translational stages designed for high loads. These units are predominantly integrated in large goniometers (e.g. 480).

This series is equipped with either 2-, 3- or 5-phase motors.

The stages are equipped with limit switches and zero-point control. Integrated gear boxes enable a resolution in the order of nm. A position/step control via encoders is available as an option.

It is possible to combine the integrated Z-Stages with series 5102 XY-tables to XYZ-positioning systems. The power supply of the XY-Stages is via the SUB-D-15 sockets integrated in the Z-positioning stage.

- multi-axis positioning systems possible by simple combination of stages
- four spindle lifting gear drives controlled by a connecting shaft
- trapezoidal spindle drive with smoothed and tempered spindle (self-locking)
- four high-precision ball-type nipples guarantee high guidance stability
- robust surfaces through galvanic anodisation
- maximum system resolution increased by a reduction transmission

Specifications:

Travel range [mm]:	250*	(5104.D80)
Spindle pitch [mm/U]:	4	
Max. load [N]:	2000	
Min. drive torque [Nm]:	1.5	
Resolution [µm]:	0.0625	
Weight [kg]:	60	

* optional: extended or shortened travel range

