

5-axis module clamping system 138



Technical information for 5-axis module clamping system 138



Features	Description
Functionality	Functional slides are closed by the manual rotary movement of a threaded spindle with RH/ LH threads and lock the clamping pin with frictional force.
Self-locking	After closing, the clamping pin remains in the tensioned clamping module, even if the external tensile force exceeds the retraction force.
Actuation torque	30 Nm
Repeat accuracy: with clamping pin Form A	< 0,005 mm
Short cone centring	Precise centring with radii to ease insertion
Milling application	The clamping modules are generally not approved for turning applications.
Temperature range	+5°C to +60°C

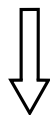
Retraction force in axial direction

Retraction force by 30 Nm actuation torque = 30,000 N

Axial load and retraction path

Axial load $F_{\text{Axial}} = 45,000 \text{ N (4.5 t)}$

Retraction travel = 0.7 mm



Tilt/torque single module

$M_{\text{tilt module}} = 1,000 \text{ Nm (empirically determined)}$

$M_{\text{rotation module}} = 200 \text{ Nm}$

$F_{\text{lateral force}} = 3,000 \text{ N [lateral force without relative movement]}^*$



* The correct function of the clamping modules, in particular the repeat accuracy, is guaranteed up to a lateral force of 3,000 N. The failsafe and personal safety of the clamping modules is assured up to a critical lateral force of 20,000 N.