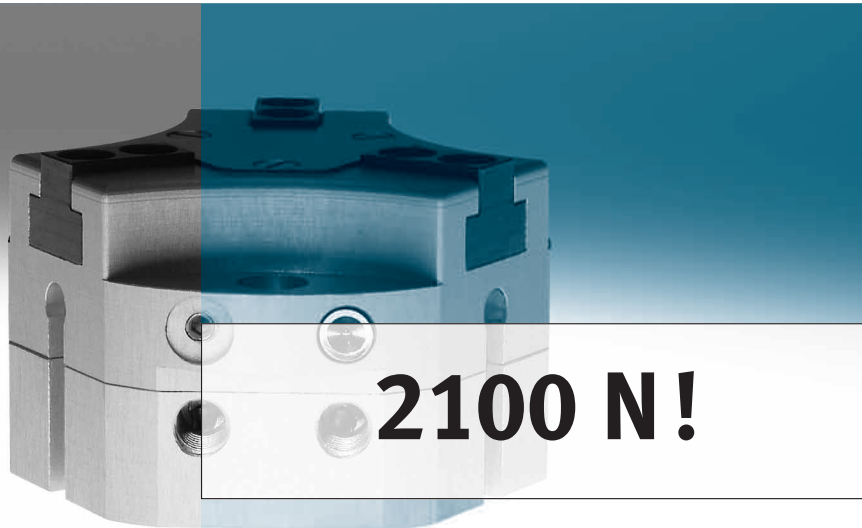


Three jaw T-slot gripper HGDT

FESTO



Sturdy and precise: The new HGDT gripper series for systems and machine building with gripping force retention, sealing air and integratable proximity sensors. Reliably grips with a maximum of 2100 N, even in highly dynamic applications – created for the harsh conditions found in mechanical engineering.

Reliable

Absorbs highest torques and machining forces through gripper-principle and sturdy design.

Robust

In critical environments sealing air protects against dust and soluble oil.

Reliable

The gripper retention force provides the necessary safety if the compressed air fails as well as additional force when closing.

Cost effective and easy to install

Proximity sensor option SME/SMT-10. As an accessory-integrated into the housing, the conventional delete metal lugs are replaced with screw-on sensor holders.

Flexible team player

Thanks to a variety of mounting options and easy integration into Festo multi-axis systems via adapter kits.

Easy commissioning

Due to the user friendly gripper-software for selection and design.



Sturdy

Precise

Protected

139.3.PSI →

Product Short Information

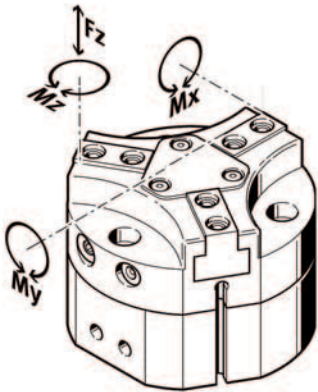
Three jaw T-slot gripper HGDT

Variants and designs

- Gripping force retention opening/closing
 - Guide: sturdy T-slot plain bearing guide, gripper jaws and housing are in matched pairs
 - Internal pressurisation (sealing air) for use in machine tools involving cooling emulsion and swarf
- Flexible thanks to sensing of up to 3 positions
 - Reliable sensing option with up to 3 attachable inductive sensors
 - Cost effective sensing option with up to three SM...-10 sensors (supplied loose, packed with the gripper)
- Relubrication option via lubrication nipple
 - Accessories: Unmachined gripper jaws, adapter sets to combine with Festo drives



HGDT-A	Piston diameter	[mm]		25	35	40	50	63
	Travel per gripper jaw	[mm]		3	4	6	8	10
	Max. gripping forces at 6 bar	[N]	HGDT-A	207	456	618	921	1653
			HGDT-G1/G2	228	547	712	1052	2172
HGDT-A-F	Piston diameter	[mm]		25	35	40	50	63
	Travel per gripper jaw	[mm]		1,5	2	3	4	5
	Max. gripping forces at 6 bar	[N]	HGDT-A-F	380	850	1150	1850	3000
			HGDT-G1/G2	510	1160	1700	2440	4000
	Repetition accuracy	[mm]	<0,03					
	Pressure range	[bar]	3 ... 8					



Piston diameter		25	35	40	50	63
Max. permissible force Fz	[N]	350	400	800	1500	2500
Max. permissible torque Mx	[Nm]	7	15	30	50	80
Max. permissible torque My	[Nm]	10	10	20	30	50
Max. permissible torque Mz	[Nm]	5	10	25	40	60

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