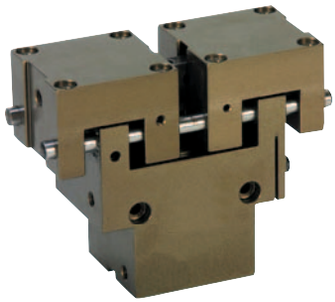
Grip module

parallel grippers



Material:
Housing high-strength aluminium.
Guide shafts and leverage steel.

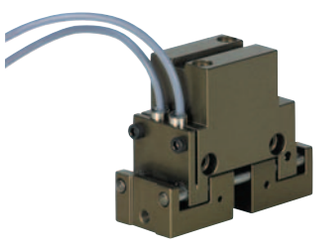
Version:
Housing coated with Hart-Coat®.
Guide shafts hardened and ground.

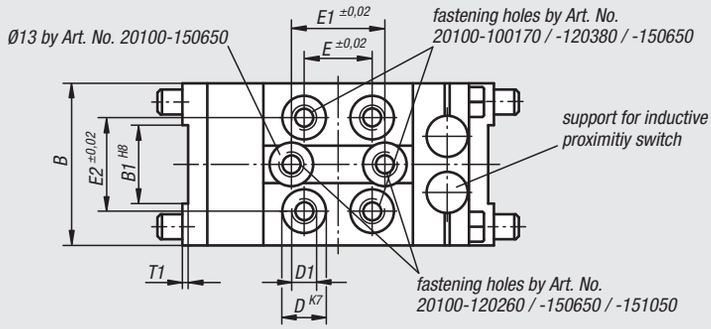
Sample order:
nlm 20100-030025

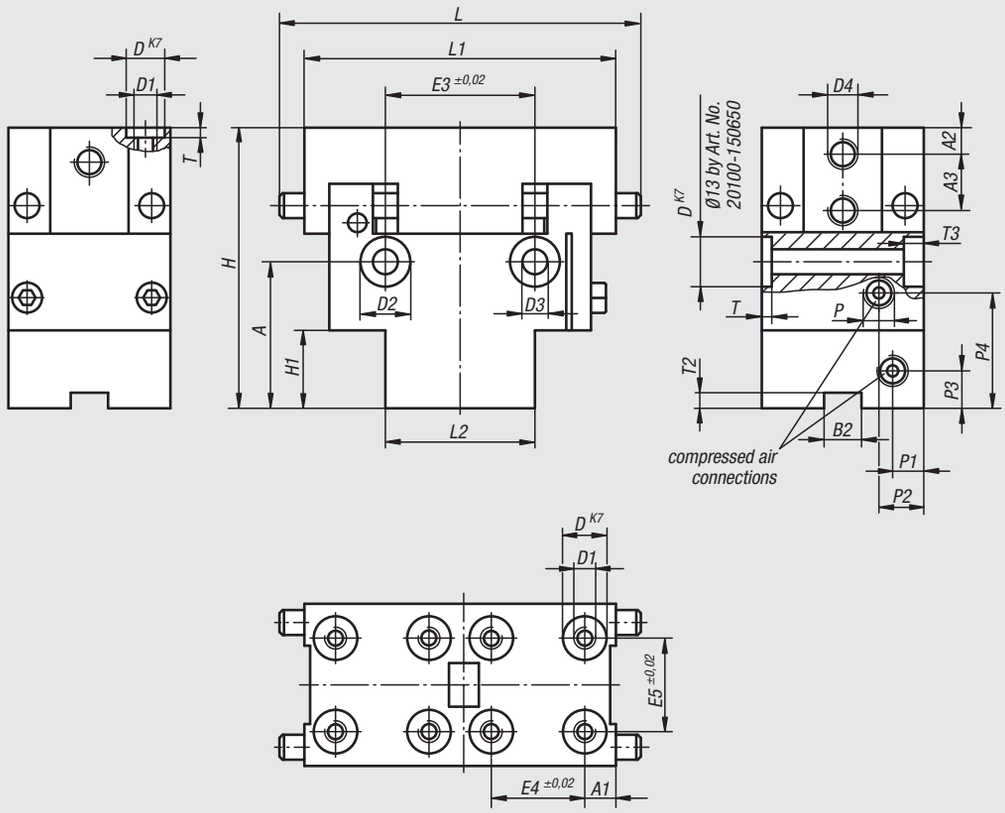
Note:
Maintenance-free pneumatic parallel gripper with leverage kinematics. Control by 4/2 or 5/2 directional valve. Pneumatic drive, 4-8 bar, constant, filtered (10 µm), dried, oiled or unoiled. Grips absolutely centrally. Can grip internally or externally. Proximity switches (accessories) can be integrated for end position feedback.

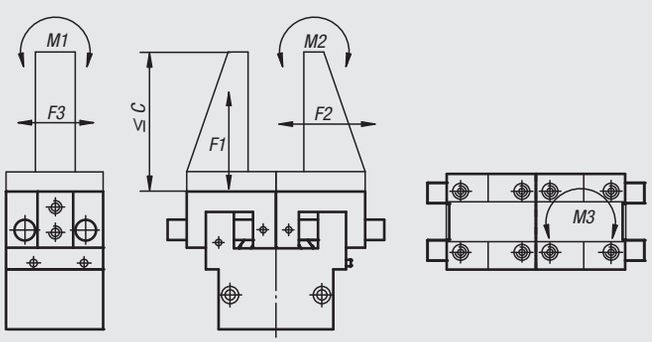
Repeat accuracy ±0.02 mm.

Accessories:
See table for proximity switches and plug connectors.









$$\frac{M1_{eff}}{M1_{zul}} + \frac{M2_{eff}}{M2_{zul}} + \frac{M3_{eff}}{M3_{zul}} \leq 1$$

$$\frac{F1_{eff}}{F1_{zul}} + \frac{F2_{eff}}{F2_{zul}} + \frac{F3_{eff}}{F3_{zul}} \leq 1$$

zul = permissible
eff = calculated

Grip module

parallel grippers

Order No.	A	A1	A2	A3	B	B1	B2	D	D1	D2	D3	D4	E	E1	E2	E3
20100-030025	21,5	5	4,5	-	19	6	-	7	M3	6	3	M3	11	-	11	17,5
20100-040036	24	5	6	-	26	10	6	7	M4	7,5	4,3	M4	15	-	15	24
20100-050085	33,5	5	5	-	28	12	6	7	M4	7,5	4,3	M5	26	-	15	32
20100-100170	22,5	4,5	10	-	40	16	6	7	M4	7,5	4,3	M6	32	-	32	38
20100-120260	20	8	11	-	45	20	-	10	M6	10,5	6,4	M8	48	48	24	48
20100-120380	21	6	9	16	60	25	-	10	M6	10,5	6,4	M8	48	-	48	58
20100-120660	21	6	9	16	60	25	-	10	M6	10,5	6,4	M8	48	-	48	58
20100-150650	27	11	12	20	75	28	-	10	M6	13,5	8,2	M8	48	72	48	72
20100-151050	27	11	12	20	75	28	-	10	M6	13,5	8,2	M8	48	72	48	72

Order No.	E4	E5	H	H1	L	L1	L2	P	P1	P2	P3	P4	T	T1	T2	T3
20100-030025	-	11	40	13	40	34	19	M5	9,5	9,5	4,5	16	1,6	0,5	-	3,5
20100-040036	15	15	45	12,5	60	50	24	M5	4,5	7	6	18,5	1,6	1	2,5	4,2
20100-050085	20	20	56	20	70	60	34	M5	4	7	6,5	28	1,6	1	2,5	4,5
20100-100170	32	32	67	18,5	100	82	42	M5	9	9	6	27	1,6	1,5	2,5	4,5
20100-120260	32	32	81	23,5	120	96	60	R1/8	8	8	8	30,5	2,1	1,5	-	6,5
20100-120380	48	48	87	39	145	120	70	R1/8	15	15	11,5	30	2,1	2	-	6,5
20100-120660	48	48	87	39	145	120	70	R1/8	15	15	11,5	30	2,1	2	-	6,5
20100-150650	48	48	108	47	171	140	90	R1/8	22	22	15	38	2,1	2	-	9
20100-151050	48	48	108	47	171	140	90	R1/8	22	22	15	38	2,1	2	-	9

Order No.	Travel per jaw	Clamping force at 6 bar (N)	Expanding force at 6 bars (N)	Recommended workpiece weight kg	Cylinder Ø	Air consumption per cycle at 6 bar (ccm)	Suitable proximity switch	Suitable plug connector
20100-030025	3	25	35	0,12	14	0,34	83000-010X2000	-
20100-040036	4	36	46	0,17	16	0,8	83000-030X3000	-
20100-050085	5	85	95	0,4	25	2,5	83000-030X3000	-
20100-100170	10	170	170	0,76	32	8	83000-040	80150-010X2000
20100-120260	12	260	260	1,17	40	15,1	83000-050	80150-010X2000
20100-120380	12	380	380	1,78	50	23,6	83000-040	80150-010X2000
20100-120660	12	660	660	2,96	50	23,6	83000-040	80150-010X2000
20100-150650	15	650	650	3	63	46,8	83000-050	80150-010X2000
20100-151050	15	1050	1050	4,74	63	46,8	83000-050	80150-010X2000

Order No.	M1 Nm	M2 Nm	M3 Nm	F1 N	F2 N	F3 N	C max.	Moment of inertia (10^{-3} kgm^2)
20100-030025	1,6	1,5	1,5	140	84	140	25	0,00632
20100-040036	3,9	3,7	1,3	250	82	71	40	0,0278
20100-050085	6	6	1,6	280	100	72	50	0,0767
20100-100170	12	14	12	540	150	400	65	0,416
20100-120260	27	30	12	1100	640	340	80	0,787
20100-120380	57	67	95	1500	350	2100	110	1,89
20100-120660	57	67	95	1500	350	2100	110	1,89
20100-150650	87	94	201	1900	890	3700	140	5,36
20100-151050	87	94	201	1900	890	3700	140	5,36