Hand in hand for tomorrow

Product Information

Customizable gripper fingers FGR

3D-PDF

For 360° view of the construction, activate the 3D PDF by mouse click on the picture

FGR AL-2-PGN-plus-P 160

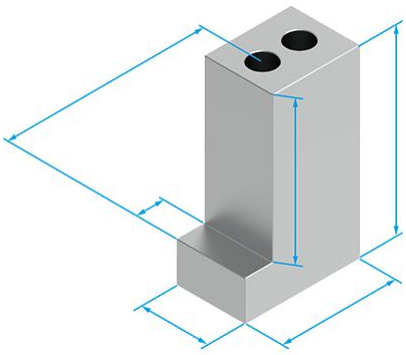
for grippers: PGN-plus-P 160-2-AS-P

based on: Geometry model - 2

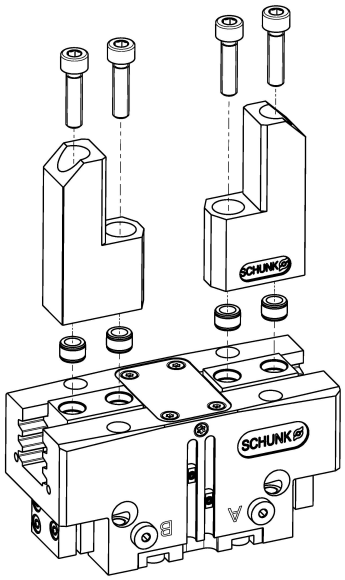
set parameters:

BR (Selection series)	PGN-plus-P
BGVR (Size / Variant)	PGN-plus-P 160-2-AS-P
ASIS (O.D. gripping / I.D. gripping)	O.D. gripping
SPANNKONT (Geometry model)	Gripper finger with inwardly stepped gripping surface
CNSMAT (Material)	Aluminum AlZnMgCu1,5
WAERMEBE (Surface treatment)	
HUB (Jaw position: Gripper stroke per jaw (0 = gripper closed) / mm)	8.0
RH (Gripping position: Gripping stroke per jaw at which the workpiece is gripped / mm)	6.5
X (Finger length in stroke direction (X) / mm)	110.0
Y (Finger width (Y) / mm)	45.0
Z (Finger length (Z) / mm)	200.0
DWS (Distance workpiece (DWS) / mm)	165.0
ABK (Distance from hole to outer edge (ABK) / mm)	12.00
GFL (Gripping surface length (GFL) / mm)	160.0
PP (Position Prism (PP) / mm)	0.0
PW (Prism Angle (PW) / °)	0.0
RA (Radius Outside (RA) / mm)	0.0
EFO (Insertion opening (EFO) / mm)	0.0
FASE1 (Chamfer 1)	without chamfer 1
FL1 (1st chamfer length (FL1) / mm)	0.0
FASE2 (Chamfer 2)	without chamfer 2
FL2 (2nd chamfer length (FL2) / mm)	0.0
FASE3 (Chamfer 3)	without chamfer 3
FW3 (3rd chamfer angle (FW3) / °)	0.0
FL3 (3rd chamfer length (FL3) / mm)	0.0
FASE4 (Chamfer 4)	without chamfer 4
FW4 (4th chamfer angle (FW4) / °)	0.0
FL4 (4th chamfer length (FL4) / mm)	0.0
ZULFM (Max. permissible mass per finger / kg)	3.800

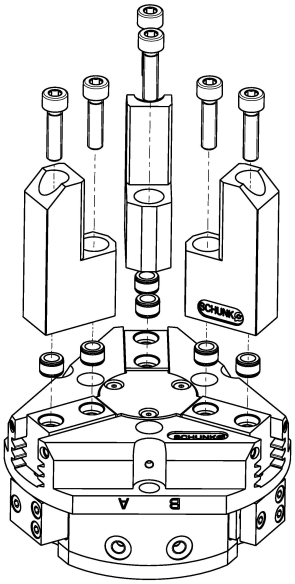
Geometry model - 2



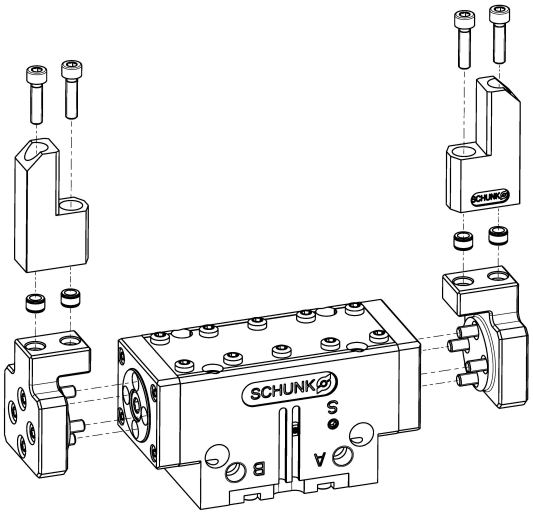
Assembly instructions



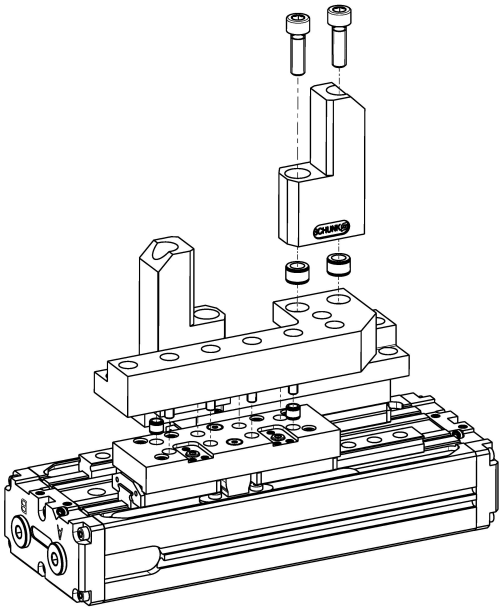
Parallel gripper



Centric Grippers



lateral intermediate jaw



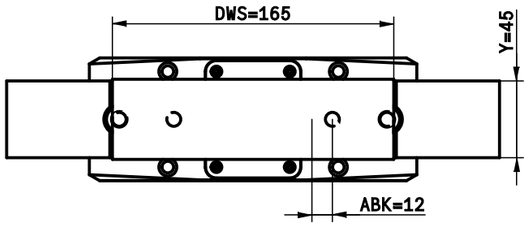
Intermediate jaw

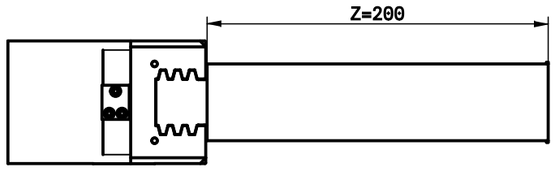
Anzugsmomente für Schrauben

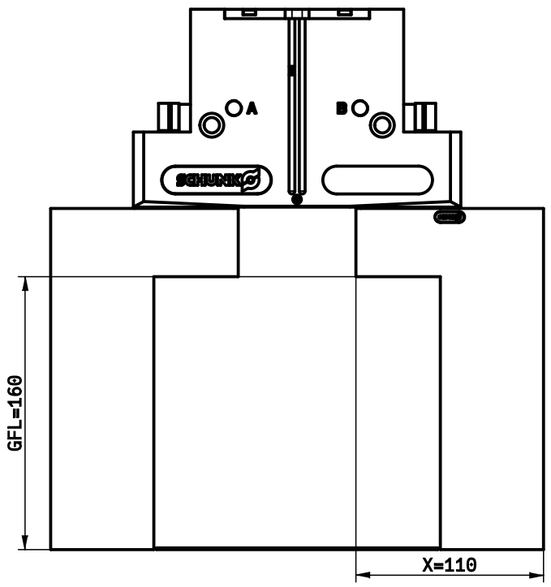
Anzugsmomente nach Tabelle entsprechend Festigkeitsklasse	• Zylinderschrauben DIN 912 (auch Torx) • Sechskantschrauben • Senkschrauben mit Innentorx
Anzugsmoment nach Tabelle entsprechend Festigkeitsklasse aber max. Festigkeitsklasse 8.8	• Zylinderschrauben DIN 6912 und DIN 7984 • Senkschrauben mit Innensechskant • Passschrauben • Linsenschrauben • Muttern • Schrauben die in Aluprofil (SI) eingeschraubt werden • Schraubenköpfe die auf Aluminium aufliegen das nicht harteloxiert ist

	Festigkeitsklassen / Anziehdrehmoment in Nm						
	Reibungszahl $\mu_{ges.}$ 0,12						
Gewinde	**A2-70**	**8.8**	**10.9**	**12.9**	**Kopfauflage Kunststoff PA2200**	**Gewindestift A2/A4**	**Gewindestift 45H**
M 1	0,029	0,037	0,054	0,063	0,005		
M 1,2	0,055	0,071	0,1	0,12	0,012		
M 1,4	0,087	0,11	0,16	0,19	0,023		
M 1,6	0,13	0,16	0,24	0,28	0,031	0,054	0,078
M 2	0,27	0,34	0,5	0,58	0,062	0,1	0,17
M 2,5	0,53	0,68	1,0	1,2	0,11	0,32	0,5
M 3	0,94	1,2	1,8	2,1	0,21	0,43	0,76
M 4	2,2	3,1	4,5	5,3	0,45	0,95	1,8
M 5	4,3	6,1	9,0	11	0,86	2,0	3,5
M 6	7,3	10	15	18	1,3	2,8	6,1
M 8	18	25	37	43	2,9	7,6	14
M 10	35	49	72	85	5,7	16	28
M 12	60	85	120	150	6,7	27	49
M 14	95	130	200	230	11		
M 16	150	210	310	360	18	65	120
M 18	200	290	420	490	20		
M 20	290	410	600	700	34	130	230
M 22	380	540	790	930	26		
M 24	490	700	1.000	1.200	62	230	390
M 27	750	1.100	1.600	1.800	140		
M 30	980	1.400	2.100	2.400	120		
M 33	1.300	1.900	2.800	3.300	170		
M 36	1.700	2.400	3.600	4.200	220		
Fein-gewinde	**A2-70**	**8.8**	**10.9**	**12.9**	**Kopfauflage Kunststoff PA2200**	**Gewindestift A2/A4**	**Gewindestift 45H**
M 8x1	19	27	39	46	2,8		
M 10x1,25	36	52	76	89	5,6		
M 12x1,25	64	92	130	160	6,5		
M 14x1,5	100	150	210	250	10		
M 16x1,5	150	220	320	380	18		
M 18x1,5	220	320	470	540	19		
M 20x1,5	310	440	650	760	32		
M 22x1,5	410	580	860	1.000	25		
M 24x2	530	760	1.100	1.300	60		

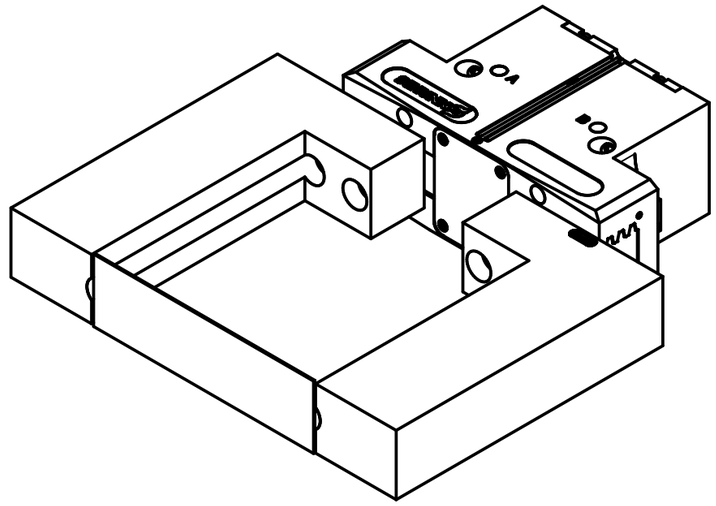
Standard projection







ISO - View



The drawing shows the selected gripper model with the configured gripper finger

Please note:

Scope of delivery: Gripper finger (1 piece) and the required fixing screws (2x M10x35)
The required centring elements are included in the scope of delivery of the gripper.

(range of application)				Calculated finger mass 1.457 kg		Permissible finger mass 3.8 kg	Scale 1:20000	
							Material: Aluminium	
					Date	Token	(description)	
				Editor			FGR AL-2-PGN-plus-P 160	
				Checked			for grippers: PGN-plus-P 160-2-AS-P	
				Std. part			based on: Geometry model	
				(company) SCHUNK			(Drawing number customer-side)	Sheet / Sheets
Cond.	Change	Date	Name	Version: 1			(alternative for:)	(replaced by:)

A3