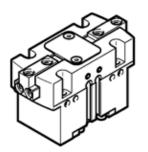
## Parallel gripper HGPT-20-A-B-F-G1 Part number: 560202

**FESTO** 

sturdy, with gripping force retention when opening ...-G1.





## **Data sheet**

Size 20 Stroke per gripper jaw 2 mm  Max. replacement accuracy 4-0.2 mm  Max. angular gripper jaw backlash ax,ay 4-0.1 deg 4-0.2 mm  Max. gripper jaw backlash ax,ay 4-0.1 deg 4-0.2 mm  Max. gripper jaw backlash ax,ay 4-0.0 gm  Rotationally symmetrical 4-0.2 mm  Repetition accuracy, gripper 4-0.2 mm  Repetition accuracy, gripper 4-0.2 mm  Number of gripper fingers 2-1  Zassembly position 4-0.2 mm  Mode of operation 4-0.2 mm  Rotational 4-0.2 mm  Rotation	Feature	values
Max. angular gripper jaw backlash ax,ay  Amax. angular gripper jaw backlash xay  Amax.	Size	20
Max. angular gripper jaw backlash ax,ay  Amax. angular gripper jaw backlash xay  Amax.	Stroke per gripper jaw	2 mm
Max. gripper jaw backlash x,ay		
Max. gripper jaw backlash 52 Rotationally symmetrical Repetition accuracy, gripper Rotational Rotational Rotation Rotational Rotational Rotation Rotational Rotational Rotation Rotational Rot		
Rotationally symmetrical Repetition accuracy, gripper Repetition accuracy, gripper Repetition accuracy, gripper Repetition accuracy, gripper Repetition Re		
Repetition accuracy, gripper Number of gripper fingers 2 Assembly position Any Mode of operation Gripper function Gripper function Gripper force back-up Design structure Inclined plane guided motion sequence Position detection For proximity sensor Working pressure 4 8 bar Working pressure, sealing air Max. operating frequency of gripper Min. opening firm at 6 bar Min. opening firm at 6 bar Min. opening firm at 6 bar Depetating medium Compressed air in accordance with ISO8573-12010 [7:4:4] Note on operating and pilot medium Lubricated operation possible (subsequently required for further operation) Ambient temperature Max. force on gripper jaw Fz static Max. torque at gripper My st		
Number of gripper fingers  Assembly position  Any Mode of operation  Gripper frorce back-up  Design structure  Inclined plane guided motion sequence Position detection  For proximity sensor  Working pressure  Working pressure  Working pressure  Max. operating frequency of gripper  Min. opening time at 6 bar  Min. closing time at 6 bar  13 ms  Min. closing time at 6 bar  Operating medium  Compressed air in accordance with ISO8573-1:2010 [7:4:4]  Note on operating and pilot medium  Compressed air in accordance with ISO8573-1:2010 [7:4:4]  Note on operating and pilot medium  Corrosion resistance classification CRC  2 Protection class  IP40  Ambient temperature  5 60 °C  Max. force on gripper [aw Fz static  Max. torque at gripper Mx static  15 Nm  Max. torque at gripper Mx static  15 Nm  Max. torque at gripper My static  15 Nm  Max. torque at gripper finger  5 60 °C  Max. gripper [aw Fz static  700 N  Max. torque at gripper finger  5 60 °C  Max. ground per external gripper finger  5 60 °C  Max. ground per external gripper finger  5 60 °C  Max. ground per external gripper finger  5 60 °C  Max. torque at gripper My static  15 Nm  Max. torque at gripper finger  5 60 °C  Max. ground per external gripper finger  5 60 °C  Max. ground per external gripper finger  5 60 °C  Mounting type  Optional Internal thread and centering sleeve With through-hole and dowel pin With internal thread and dowel pin With internal thread and dowel pin Min. mounting type  Materials information for cover cap  Materials information, housing  Materials information for gripper jaws  Steel  Materials information for gripper jaws  Steel		
Assembly position Mode of operation Gripper function Gripper function Parallel Gripper force back-up Design structure Inclined plane guided motion sequence Position detection For proximity sensor Working pressure 4 8 bar Working pressure, sealing air Working pressure, sealing air Max. operating frequency of gripper 4 -3 Hz Min. opening time at 6 bar Derating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Note on operating and pilot medium Lubricated operation possible (subsequently required for further operation) Corrosion resistance classification CRC 2 1 Protection class IP40 Ambient temperature 5 60 °C Ambass moment of inertia Max. force on gripper jaw Fz static 700 N Max. torque at gripper Mx static 15 Nm Max. torque at gripper Mx static 15 Nm Max. torque at gripper Mx static 15 Nm Max. torque at gripper fix static 15 Nm Max. torque at gripper fix guide components 5 Mio SP Max. ground per external gripper finger 50 g Product weight Max. ground per external gripper finger 50 g Product weight Max. ground per external gripper finger Mith through-hole and centering sleeve With through-hole and dendering sleeve With through-hole and dowel pin With internal thread and dowel pin With internal thread and dowel pin Mith internal thread and force operation Max port of external gripper finger Materials information for cover cap Materials information for gripper jaws Steel Materials information for gripper jaws		
Mode of operation         double-acting           Gripper for function         Parallel           Gripper force back-up         On opening           Design structure         Inclined plane           Working pressure         4 8 bar           Working pressure, sealing air         0 0.5 bar           Max. operating frequency of gripper         4 8 bar           Min. opening time at 6 bar         13 ms           Min. closing time at 6 bar         25 ms           Operating medium         Compressed air in accordance with ISO8573-1:2010 [7:4:4]           Note on operating and pilot medium         Lubricated operation possible (subsequently required for further operation)           Corrosion resistance classification CRC         2           Protection class         IP40           Ambient temperature         5 60 °C           Mass moment of inertia         0.445 kgcm2           Max. force on gripper jaw x static         15 km           Max. torque at gripper Mx static         15 km           Max. torque at gripper Mx static         15 km           Max. torque at gripper My static         8 Nm           Max. ground per external gripper finger         50 g           Product weight         155 g           Mounting type         Optional Internal thread a		
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Working pressure, sealing air  Max. operating frequency of gripper  (= 3 Hz  Min. opening time at 6 bar  13 ms  Min. closing time at 6 bar  25 ms  Operating medium  Compressed air in accordance with ISO8573-1:2010 [7:4:4]  Note on operating and pilot medium  Lubricated operation possible (subsequently required for further operation)  Corrosion resistance classification CRC  2  Protection class  IP40  Mass moment of inertia  0.445 kgcm2  Max. force on gripper jaw Fz static  700 N  Max. torque at gripper Mx static  15 Nm  Max. torque at gripper Mx static  15 Nm  Max. torque at gripper Mx static  8 Nm  Lubrication interval for guide components  5 Mio SP  Product weight  Mounting type  Optional Internal thread and centering sleeve With through-hole and centering sleeve With through-hole and dowel pin With internal thread and perform the conforms to RoHS  Materials information for cover cap  Materials information for cover cap  Materials information for gripper jaws  Steel  Materials information for gripper jaws		
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Min. opening time at 6 bar  Min. closing time at 6 bar  25 ms  Compressed air in accordance with ISO8573-1:2010 [7:4:4]  Note on operating medium  Lubricated operation possible (subsequently required for further operation)  Corrosion resistance classification CRC  2 Protection class  IP40  Ambient temperature  5 60 °C  Mass moment of inertia  0.445 kgcm2  Max. force on gripper jaw Fz static  700 N  Max. torque at gripper Mx static  15 Nm  Max. torque at gripper Mx static  15 Nm  Max. torque at gripper Mx static  8 Nm  Lubrication interval for guide components  5 Mio SP  Max. ground per external gripper finger  50 g  Product weight  Mounting type  Optional Internal thread and centering sleeve With through-hole and centering sleeve With through-hole and dowel pin With internal thread and dowel pin With internal thread and dowel pin With internal thread and dowel pin Free of copper and PTFE Conforms to RoHS  Materials information for cover cap  Materials information for cover cap  Materials information for gripper jaws  Steel  Materials information for gripper jaws  Steel		
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Operating medium     Compressed air in accordance with ISO8573-1:2010 [7:4:4]       Note on operating and pilot medium     Lubricated operation possible (subsequently required for further operation)       Corrosion resistance classification CRC     2       Protection class     IP40       Ambient temperature     5 60 °C       Mass moment of inertia     0.445 kgcm2       Max. force on gripper jaw Fz static     700 N       Max. torque at gripper My static     15 Nm       Max. torque at gripper My static     8 Nm       Lubrication interval for guide components     5 Mio SP       Max. ground per external gripper finger     50 g       Product weight     155 g       Mounting type     Optional Internal thread and centering sleeve With through-hole and centering sleeve With through-hole and centering sleeve With through-hole and dowel pin With internal thread and dowel pin       Pneumatic connection, sealing air     M5       Pneumatic connection, sealing air     M5       Pneumatic connection for cover cap     High alloy steel, non-corrosive       Materials information for cover cap     High alloy steel, non-corrosive       Materials information for gripper jaws     Steel	. 9	
Note on operating and pilot medium     Lubricated operation possible (subsequently required for further operation)       Corrosion resistance classification CRC     2       Protection class     IP40       Ambient temperature     5 60 °C       Mass moment of inertia     0.445 kgcm2       Max. force on gripper jaw Fz static     700 N       Max. torque at gripper Mx static     15 Nm       Max. torque at gripper My static     8 Nm       Lubrication interval for guide components     5 Mio SP       Max. ground per external gripper finger     50 g       Product weight     155 g       Mounting type     Optional Interval thread and centering sleeve With through-hole and centering sleeve With through-hole and dowel pin With internal thread and dowel pin With internal thread and dowel pin       Pneumatic connection, sealing air     M5       Pneumatic connection     M5       Materials note     Free of copper and PTFE Conforms to RoHS       Materials information for cover cap     High alloy steel, non-corrosive       Materials information, housing     Aluminum Aluminum Almodized       Materials information for gripper jaws     Steel		
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Ambient temperature 5 60 °C  Mass moment of inertia 0.445 kgcm2  Max. force on gripper jaw Fz static 700 N  Max. torque at gripper Mx static 15 Nm  Max. ground per external gripper finger 150 g  Product weight 155 g  Mounting type 155 g  Mounting type 155 g  Mounting thread and centering sleeve With through-hole and centering sleeve With through-hole and dowel pin With internal thread and dowel pin With internal thread and dowel pin Penumatic connection, sealing air 155 mx  Pneumatic connection 157 mx  Mx 5  Materials note 158 mx  Mx 5  Materials information for cover cap 159 mx figh alloy steel, non-corrosive 150 mx figh alloy steel, non-corrosive 150 mx figh alloy steel information for gripper jaws 150 m	Corrosion resistance classification CRC	2
Mass moment of inertia  0.445 kgcm2  Max. force on gripper jaw Fz static  700 N  Max. torque at gripper Mx static  15 Nm  Max. torque at gripper My static  15 Nm  Max. ground per external for guide components  50 Ng  Product weight  155 g  Mounting type  Optional Internal thread and centering sleeve With through-hole and centering sleeve With through-hole and dowel pin With internal thread and dowel pin With internal thread and dowel pin With internal thread and dowel pin Free of copper and PTFE Conforms to RoHS  Materials information for cover cap  Materials information, housing  Materials information for gripper jaws  Steel	Protection class	IP40
Max. force on gripper jaw Fz static  Max. torque at gripper Mx static  Max. torque at gripper My static  Max. torque at gripper My static  Max. torque at gripper Mz static  Max. torque at gripper Mz static  B Nm  Lubrication interval for guide components  Max. ground per external gripper finger  Mounting type  Mounting type  Mounting type  Mithrough-hole and centering sleeve  With through-hole and centering sleeve  With through-hole and dowel pin  With internal thread and dowel pin  With internal thread and dowel pin  With internal thread and pin  Materials note  M5  Materials information for cover cap  Materials information, housing  Materials information for gripper jaws	Ambient temperature	5 60 °C
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Max. torque at gripper Mz static8 NmLubrication interval for guide components5 Mio SPMax. ground per external gripper finger50 gProduct weight155 gMounting typeOptional Internal thread and centering sleeve With through-hole and centering sleeve With through-hole and dowel pin With internal thread and dowel pinPneumatic connection, sealing airM5Pneumatic connectionM5Materials noteFree of copper and PTFE Conforms to RoHSMaterials information for cover capHigh alloy steel, non-corrosiveMaterials information, housingAluminum AnodizedMaterials information for gripper jawsSteel	Max. torque at gripper Mx static	15 Nm
Lubrication interval for guide components5 Mio SPMax. ground per external gripper finger50 gProduct weight155 gMounting typeOptional Internal thread and centering sleeve With through-hole and centering sleeve With through-hole and dowel pin With internal thread and dowel pinPneumatic connection, sealing airM5Pneumatic connectionM5Materials noteFree of copper and PTFE Conforms to RoHSMaterials information for cover capHigh alloy steel, non-corrosiveMaterials information, housingAluminum AnodizedMaterials information for gripper jawsSteel	Max. torque at gripper My static	15 Nm
Max. ground per external gripper finger  Product weight  Mounting type  Mounting type  Optional Internal thread and centering sleeve With through-hole and centering sleeve With through-hole and dowel pin With internal thread and dowel pin With internal thread and dowel pin With and thread and dowel pin With internal thread and pin  Pneumatic connection, sealing air  M5  Pneumatic connection  M5  Materials note Free of copper and PTFE Conforms to RoHS  Materials information for cover cap High alloy steel, non-corrosive  Materials information, housing Aluminum Anodized  Materials information for gripper jaws  Steel	Max. torque at gripper Mz static	8 Nm
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Pneumatic connection, sealing air     M5       Pneumatic connection     M5       Materials note     Free of copper and PTFE Conforms to RoHS       Materials information for cover cap     High alloy steel, non-corrosive       Materials information, housing     Aluminum Anodized       Materials information for gripper jaws     Steel		With through-hole and dowel pin
Pneumatic connection, sealing air     M5       Pneumatic connection     M5       Materials note     Free of copper and PTFE Conforms to RoHS       Materials information for cover cap     High alloy steel, non-corrosive       Materials information, housing     Aluminum Anodized       Materials information for gripper jaws     Steel		With internal thread and dowel pin
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