

MOTOMAN GP70L

Picking & Handling
with the GP-series



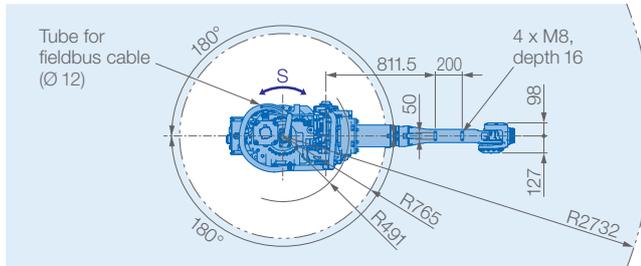
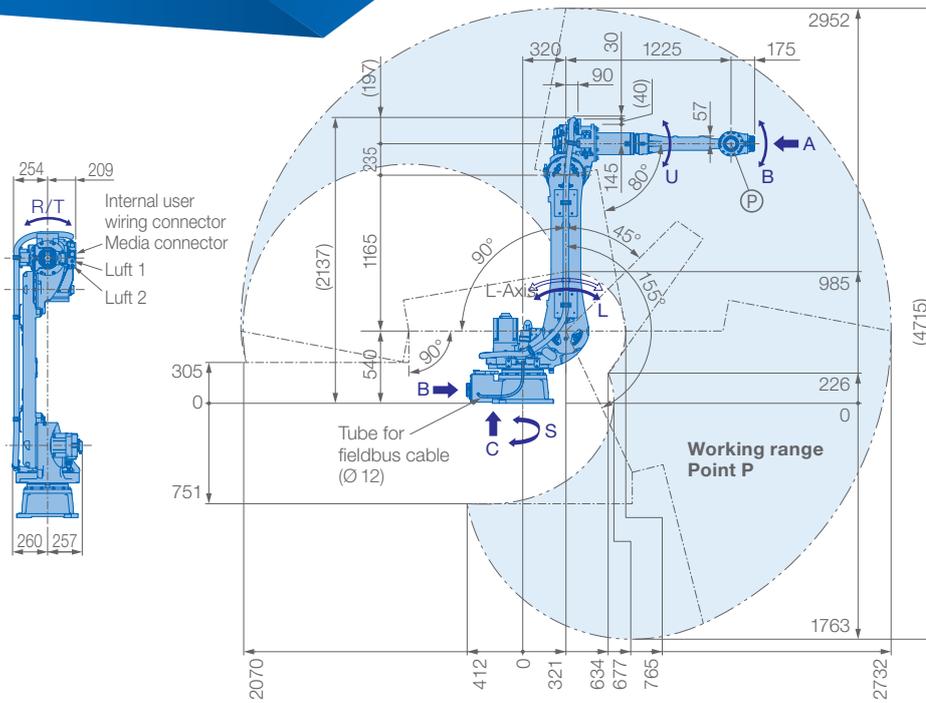
The fast and dynamic 6-axis MOTOMAN GP70L robot offers top performance for order picking as well as item, box and carton handling in the logistics industry. The most powerful robot in its class offers a huge increase in terms of efficiency and productivity for sorting and packing in intralogistics applications.

With a payload of 70 kg and an enormous reach of 2,732 mm, its slim design allows it to operate in the tightest of spaces, resulting in a high robot density. The narrow cable routing further reduces the width of the robot. The modern picking and handling robot can flexibly supplement or replace manual stations, and in combination with additional peripherals (e.g., 3D vision technology), it increase economic efficiency.

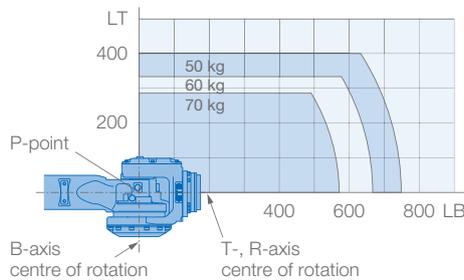
The MOTOMAN GP70L operates with powerful servo motors of the Yaskawa Sigma-7 generation, which ensure the highest accelerations with short movements for even shorter cycle times. The reduced cycle times further increase productivity. The ideal combination is with the optional Functional Safety Control (FSU) for safeguarding compact work areas, which is already integrated in the compact MOTOMAN YRC1000 high-performance controller.

KEY BENEFITS

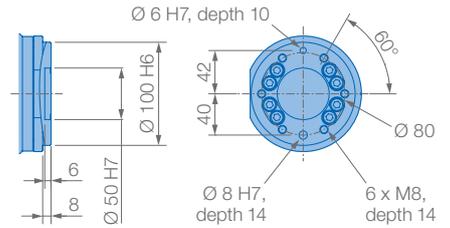
- Unique in its class → especially for the logistics industry
- New Sigma-7 servo motors → high acceleration, speeds, smaller size and power requirements
- High payload: 70 kg
- Large working range: 2,732 mm
- Robust and flexible
- Slim, compact and low profile design
- Advanced safety function (FSU) in the control system (YRC1000)
- PLC integration via MotoLogix software interface
- Wrist resistant to intrusion of dust and liquids (IP54/IP67)



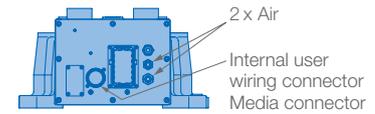
Allowable wrist load



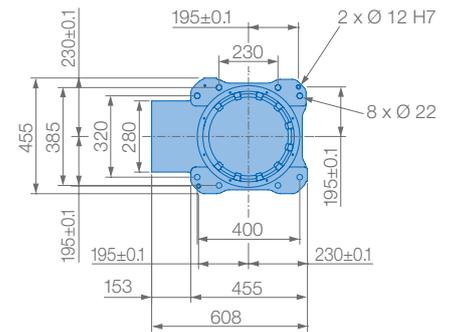
View A



View B



View C



Mounting option: Floor

IP Protection: Main axes (S, L, U) IP54, wrist IP67



Specifications GP70L

Axes	Maximum motion range [°]	Maximum speed [°/sec.]	Allowable moment [Nm]	Allowable moment of inertia [kg · m ²]	Controlled axes	
					6	
					Max. payload [kg]	70
S	±180	180	-	-	Repeatability [mm]	±0.05
L	+155/-90	123	-	-	Max. working range R [mm]	2732
U	+90/-80	160	-	-	Temperature [°C]	0 to +45
R	±360	230	392	28	Humidity [%]	20 - 80
B	±125	230	392	28	Weight [kg]	650
T	±360	350	196	11	Power supply, average [KVA]	5.0

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