

SIA10F

ASSEMBLY | INJECTION MOLDING | INSPECTION
MACHINE TENDING | PACKAGING | PART TRANSFER

KEY BENEFITS

Slim, 7-axis design optimizes space; provides “human-like” flexibility and range of motion, even in tight spaces

Mounts virtually anywhere in any orientation

Can be used in environments that are hazardous to humans

Labor savings justifies capital investment

SPECIFICATIONS

10 kg maximum payload

1,203 mm vertical reach

720 mm horizontal reach

±0.1 mm repeatability

CONTROLLERS



DX200



FS100



MLX200

COMPACT, LEAN AND POWERFUL ARM

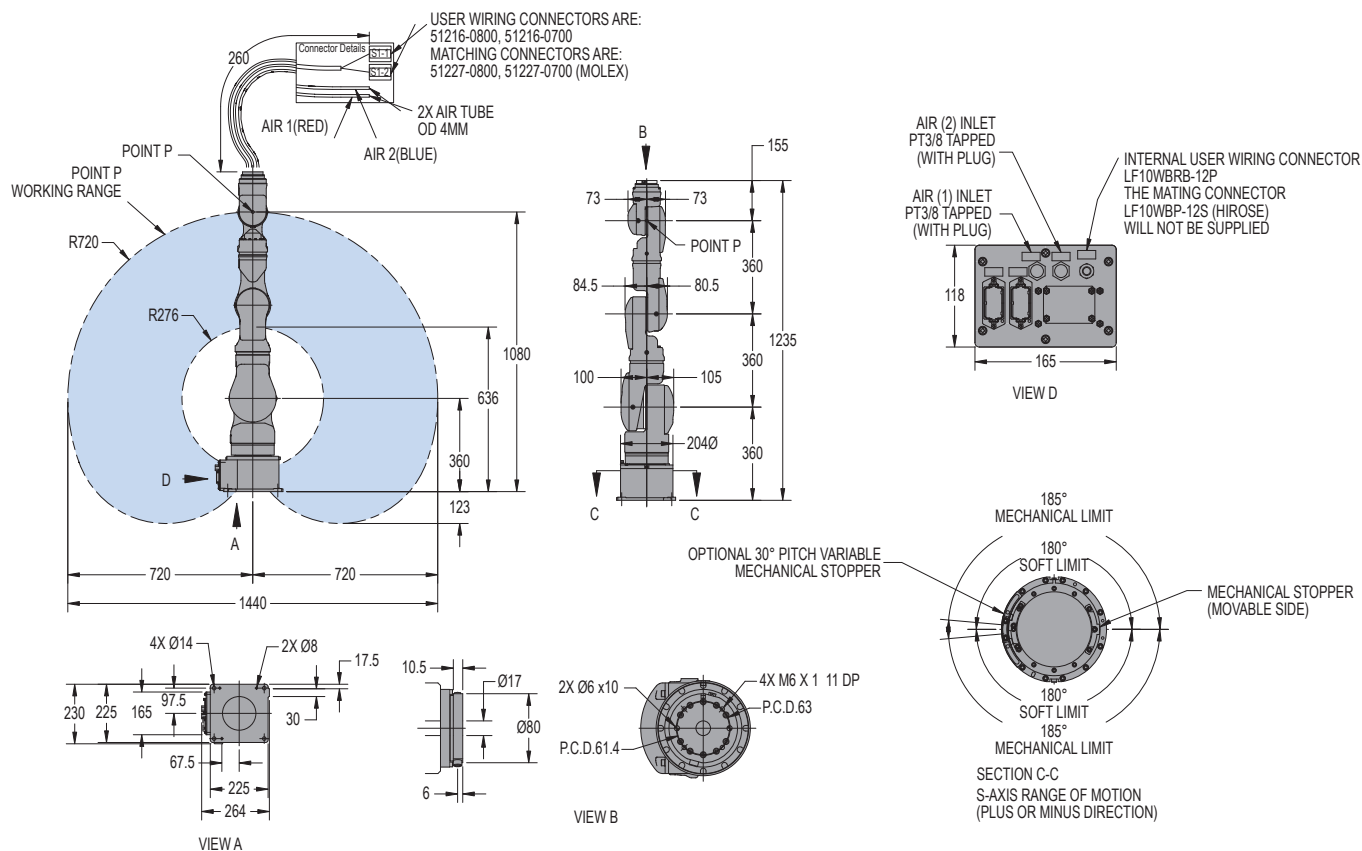
- Superior dexterity enables robot to reorient elbow(s) without affecting hand position or causing self-interference.
- Agile, versatile robot opens up a wide range of industrial applications to robots: ideal for assembly, injection molding, inspection, machine tending and a host of other operations.
- 10 kg payload; 1,203 mm vertical reach; 720 mm horizontal reach; ±0.1 mm repeatability.
- Slim, compact and powerful – robot can straighten vertically to take up only one square foot of floorspace and is only 264 mm wide at widest point.
- Short axis lengths and extreme motion flexibility allow slim manipulator to be positioned out of normal working area (i.e. floor-, ceiling-, wall-, incline- or machine-mounted) without limiting motion range of any axis.
- Mounting SIA10F robot between two machine tools provides open access to machines for fixture maintenance, adjustment or testing.

- Operator has clear access to machine operator station for entering offsets, maintenance or other operations.

FS100 CONTROLLER

- Small, compact controller.
- 470 mm wide, 200 mm high, 420 mm deep.
- Designed for packaging and small parts handling robots with payloads of 20 kg and under.
- Compatible with integrated MotoSight™ 2D vision (optional).
- Improved communication speeds and functionality.
- High-speed I/O response and high-resolution timers.
- Open architecture enables software customization in widely accepted environments such as C, C++, C# and .NET.
- Uses similar programming pendant hardware as DX200 controller, providing a consistent programming interface.

SIA10F ROBOT



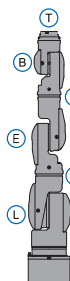
All dimensions are metric (mm) and for reference only.
Request detailed drawings for all design/engineering requirements.

SPECIFICATIONS

Axes	Maximum motion range [°]	Maximum speed [°/sec.]	Allowable moment [N•m]	Allowable moment of inertia [kg•m ²]	Controlled axes	7
S	±180	170	-	-	Maximum payload [kg]	10
L	±110	170	-	-	Repeatability [mm]	±0.1
E	±170	170	-	-	Horizontal reach [mm]	720
U	±135	170	-	-	Vertical reach [mm]	1,203
R	±180	200	31.4	1	Protection - IP rating XP Package (optional)	IP50 Base; IP64 Body; IP67 Wrist
B	±110	200	31.4	1	Weight [kg]	60
T	±180	400	19.6	0.4	Power requirements	1- or 3-phase; 200/230 VAC at 50/60 Hz
					Power rating [kVA]	1.5

OPTIONS

Wide variety of fieldbus cards
Vision systems
Robot base I/O cables
External axis kit
Material handling software package
Conveyor tracking
MotoFit™ force sensing package



AXES LEGEND

S-Axis: Turning/Sweep
L-Axis: Lower Arm
E-Axis: Elbow
U-Axis: Upper Arm
R-Axis: Wrist Roll
B-Axis: Bend / Pitch / Yaw
T-Axis: Wrist Twist

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