

Sigma NextGen™ Solution 125/160

Applied Robotics' Sigma NextGen™

Increased moment capability to maximize robot load capacity.

Application module interchangeability increases flexibility.



Features and Benefits

- High payload capacity — up to 500 Kg.
- Patented six-sided design accommodates more utilities
- The Sigma NextGen™ family uses a common profile which provides modularity and allows for interchangeability with existing Sigma modules
- New cam design allows up to 3mm plate separation when coupling
- New cam design ensures positive tooling disengagement
- High Torsional capability — Coupling mechanism — design along with locating pins provide increased torsional capability
- Failsafe coupling mechanism — self locking design feature ensures coupling integrity maintained (Even upon loss of air)
- Multiple ISO bolt patterns — Interchangeable ring accommodates multiple robot bolting patterns (same housing)
- Supports a wide variety of bus communications systems

Applications

Spot Welding
Material Handling
Machine Loading/Unloading
Mold Changing
Docking Systems
Pallet Coupling Systems
Pick and Place Operations
Press Transfer

Specifications

Description	Robot Adaptor / Tool Adaptor
Payload	500 Kg.
Moment—MX, MY	26667 In-lbf (3013 Nm)
Moment—MZ	28267 In-lbf (3194 Nm)
Height	60 mm
Width x Length	243 mm x 280 mm
Weight	8.78 kg / 6.20 kg
Couple / Uncouple Port	1/4 BSPP
Repeatability — X, Y	+/- .025 mm
Repeatability — Z	+/- .013 mm
Operating Temperature	5—60 Deg C
Operating Pressure	6 +/- 1 bar

*Not exactly what your application requires?
Applied Robotics can design a solution that meets your particular application needs.

* For specific product applications, please contact our Tech Support staff at techsupport@appliedrobotics.com or via telephone at (518)384-1000 or +39 (0) 32 39 65 93 in Italy.



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