

The MOTOMAN-ES280D is a versatile, high-speed 6-axis robot offering superior performance in material handling, machine tending and press tending.

The ES280D offers a large work envelope of 2,446 mm and a high moment of inertia ratings. Fast axial speeds and acceleration reduce cycle times and increase production output. The compact, slim design allows the robot to reach into confined spaces, improving system productivity.



**NEW GENERATION!  
DX100**

#### Key benefits

- Fast, flexible and powerful
- Compact design allows maximum performance using minimal floor space
- Max. payload of 280 kg
- Max. working range of 2,446 mm
- Increased durability of hose package by internal cable wiring through the robot's upper arm

## MOTOMAN-ES280D

Spot welding, general purpose and handling

| Axes | Maximum motion range [°] | Maximum speed [°/sec.] | Allowable moment [Nm] | Allowable moment of inertia [kg x m²] | Controlled axes             | 6        |
|------|--------------------------|------------------------|-----------------------|---------------------------------------|-----------------------------|----------|
|      |                          |                        |                       |                                       | Max. payload [kg]           | 280      |
| S    | ±180                     | 90                     | –                     | –                                     | Repet. pos. accuracy [mm]   | ±0.02    |
| L    | +76/–60                  | 80                     | –                     | –                                     | Max. working range [mm]     | R = 2446 |
| U    | +230/–142.5              | 90                     | –                     | –                                     | Temperature [°C]            | 0 to +45 |
| R    | ±360                     | 115                    | 1333                  | 142                                   | Humidity [%]                | 20 – 80  |
| B    | ±125                     | 110                    | 1333                  | 142                                   | Weight [kg]                 | 1120     |
| T    | ±360                     | 190                    | 706                   | 79                                    | Power supply, average [KVA] | 10       |