

LOW-PROFILE ARM



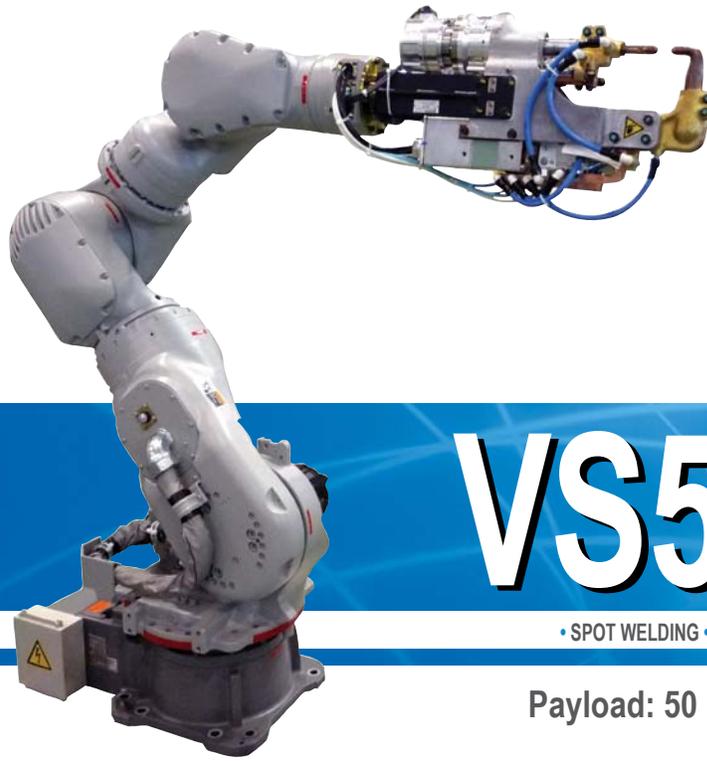
MINI X-GUN (50 KG)



MINI C-GUN (50 KG)

## TOP REASONS TO BUY

- Ideal for flexible, high-density layouts that reduce cycle times, takt time
- Provides flexible reach and enlarged motion range
- Integrated spot harness facilitates programming, reduces maintenance
- Compact servo guns provide clamping force and current capacity of larger guns



# VS50

• SPOT WELDING •

**Payload: 50 kg**

## 7-Axis "Versatile Spot" Welding Robot

- Unique slim design optimizes automotive applications using DC spot guns with compact servo actuators.
- Can be placed in close proximity to workpieces and other robots to create flexible, high-density layouts, eliminating multiple stations and resulting in shorter production lines and smaller spot welding workcells.
- Seven degrees of freedom provides ability to reorient manipulator axes without changing gun position in space. Multi-jointed arm can fold down into a very low profile.
- Compact – only 493 mm (19.4") wide (including the spot harness); 1,630 mm (64.2") reach;  $\pm 0.1$  mm (0.004") repeatability.
- Base axes move 30% faster than heavy-payload robots, resulting in shorter takt times and higher throughput.
- Yaskawa's compact actuators and higher-frequency DC welding led to new lightweight spot guns.
- Guns are available in X- or C-type configurations with 600-kg clamping force and 15,000-Amp capacity.

- Due to lighter gun, robot uses less power, even at its faster speeds. When combined with improved efficiency of smaller DC guns, VS50 robot offers 50% power savings compared to traditional larger robots and guns.
- Innovative design with integrated spot harness prevents interference and reduces programming time.

## DX100 Controller

- Patented multiple robot control supports up to 8 robots/72 axes.
- Windows® CE programming pendant with color touch screen and USB interface.
- Faster processing speeds for smoother interpolation. Quicker I/O response. Accelerated Ethernet communication.
- Extensive I/O suite includes integral PLC and touch screen HMI, 2,048 I/O and graphical ladder editor.
- Supports all major fieldbus networks, including EtherNet/IP, DeviceNet, Profibus-DP and many others.
- Compliant to ANSI/RIA 15.06-1999 and other relevant ISO and CSA safety standards. Optional Category 3 functional safety unit.

