

A-520i™ Washdown

Basic Description

A four-axis, electric servo-driven robot designed to meet the packing and packaging needs of the food and pharmaceutical industries. FANUC Robotics' A-520i Washdown is engineered for precise, high-speed operation in harsh, washdown environments. The user-friendly setup and maximum reliability of this robot is supported by our extensive service and parts network.

A-520i Washdown, the Solution for:

- Meat packaging
- Dairy packing
- Machine loading
- Item transfer
- Case packing

Benefits

- Designed to meet USDA requirements for incidental food contact
- Chemical resistant external surfaces to prevent corrosion
- Hollow joint construction encloses all cable routing to eliminate snagging

Features

- 4 axes of motion
- Directly coupled axes drives
- 20kg (44 lbs) maximum load capacity
- $\pm 0.05\text{mm}$ ($\pm 0.002''$) repeatability



- 45kg (99 lbs) vertical force for part pressing operations
- Removable end-of-arm tooling (EOAT) for cleaning

Options

- Inverted mounting for increased flexibility
- Distributed I/O blocks eliminate costly multi-conductor cables and connections

Invert Mount Benefits

- Floor space savings
- Cycle time improvement
- Allows use of large tooling
- Extensive work envelope allows manipulation of larger parts

Control Features / Benefits

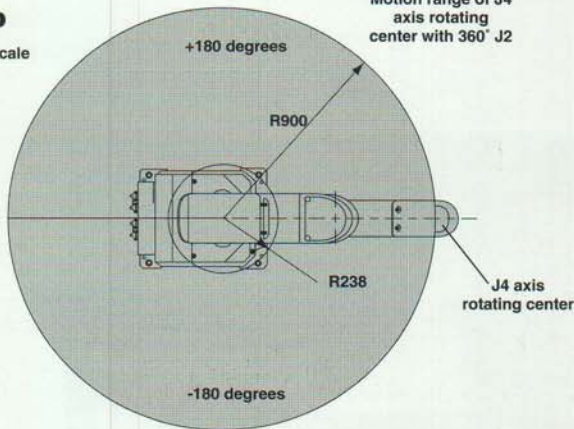
- Controller provides easy installation, startup, troubleshooting and maintenance
- Stores programs in IBM DOS format
- Easy-to-apply user multi-tasking programming environment
- Multi-axis servo drive and single board control maximizes integration and reliability
- Common controller interface to PLC, peripheral control, valve packs, robot programs and training increase customers' ease-of-use
- Advanced TurboMove motion control increases throughput
- Interfaces with FANUC Robotics' vision and line tracking software

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A-520i Washdown Dimensions

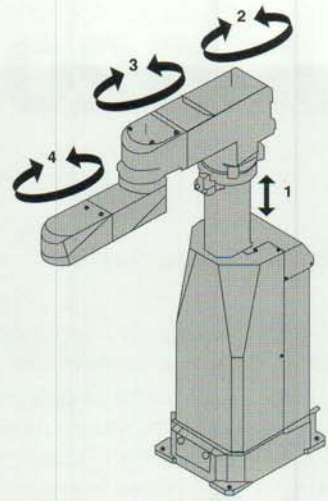
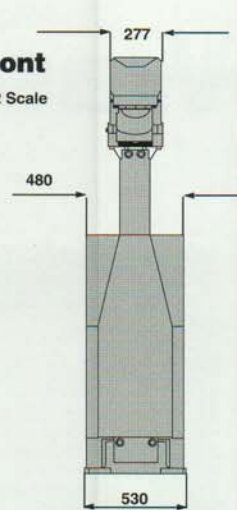
Top

1:32 Scale



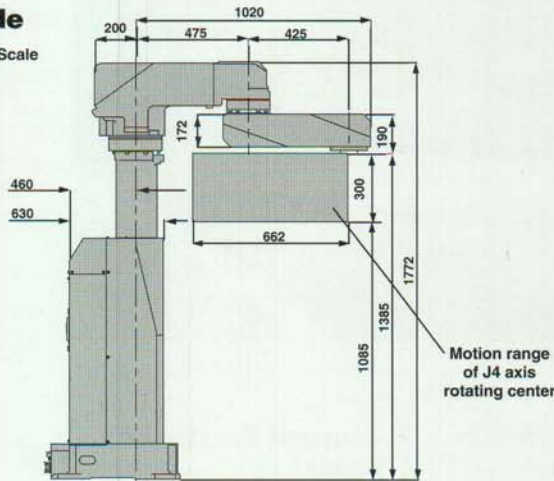
Front

1:32 Scale

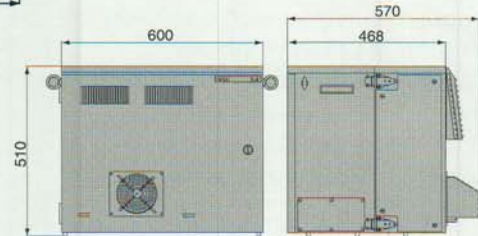


Side

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Controller



Operator Box

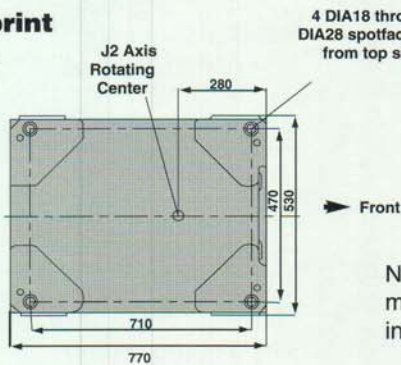


A-520i Washdown Specifications

Items	Range	Speed	
Motion range and speed	Axis 1	300mm (11.8")	800mm/sec (31.5"/sec)
	Axis 2	300° (360° opt)	350°/sec
	Axis 3	300° standard 355° inverted	350°/sec
	Axis 4	540°	720°/sec
Load inertia (Axis 4)	3.0 kgf • cm • sec ²		
Repeatability	±0.05mm (±0.002") Per JIS B6330		
Max. load capacity	20kg (44 lbs)		
Mounting method	Upright/inverted		
Mechanical brakes	Axis 1, 3		
Mechanical weight	Approx 350 kg (770 lbs)		

Footprint

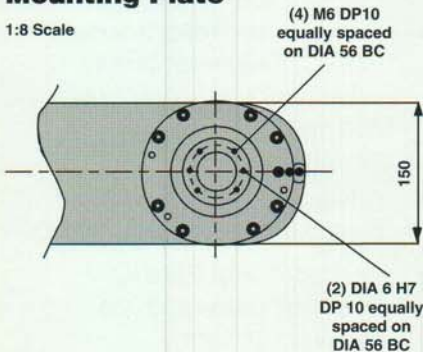
1:16 Scale



Note: Dimensions are in millimeters; conversion to inches equals mm ÷ 25.4

Mounting Plate

1:8 Scale



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