





# TRULY INDUSTRIAL TRULY COLLABORATIVE

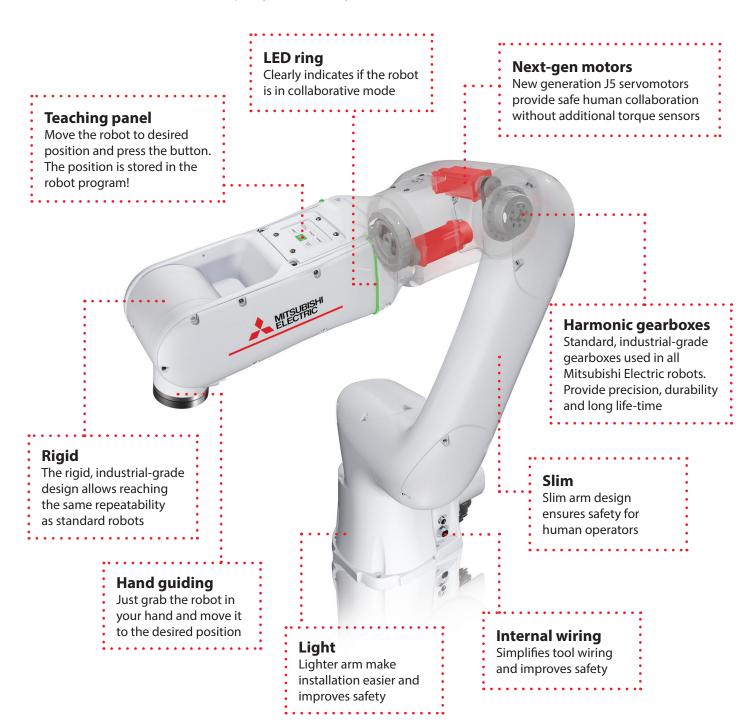
MELFA

as**\i**sta

## **ASSISTA**

### Industrial Performance Built-In

The MELFA ASSISTA is Mitsubishi Electric's newest robot offering, specifically created to work in a cooperative environment. ASSISTA is a collaborative robot that can share a workspace with human interaction for a wide variety of applications. Easy control, programming, and connectivity provide operators with the skills they need to interact with this robot quickly and efficiently.





## KEY BENEFITS: **EASY CONTROL**



Move easily with operation buttons

■ Programming without a teach pendant – The operation buttons on the arm of the robot give you an easy way to control the robot. A teach pendant is not required for programming. The LED on the robot arm changes color depending on the status of the robot, giving the operator a quick visual cue about what the robot is doing.



#### **EASY PROGRAMMING**



No robot expertise is needed

■ RT VisualBox engineering software – You can create programs visually using the intuitive operations of the RT VisualBox software. The software allows operators to program the robot with a "train by demonstration" programming interface. This allows for the movement of the robot arm position to set waypoints easily.

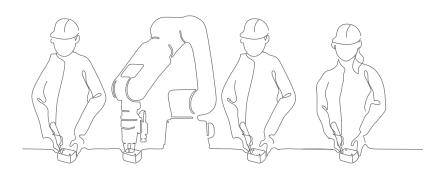


#### **EASY CONNECTIVITY**



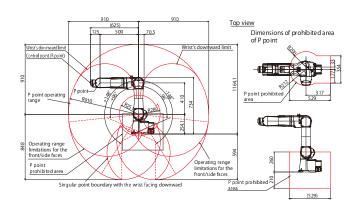
A wide variety of components and applications

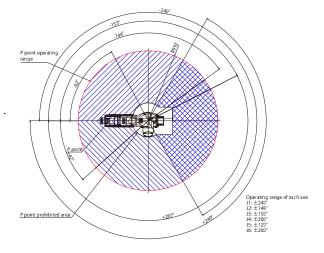
■ ASSISTA offers a wide variety of components — Grippers, fingers, vision and other peripherals have been developed by a group of organizations known as the MELFA Robot Partners. These tools can be easily setup and configured for your application. ASSISTA can also be configured to move freely as part of an AGV/AMR system or as a mobile robot.



#### **ASSISTA Collaborative Robot Product Overview**

TYPE		UNIT	SPECIFICATIONS
MACHINE CLASS			Standard/Oil mist *1
PROTECTION DEGREE		-	IP40(Standard)/IP45(oil mist) * 1
INSTALLATION		_	Floor type, ceiling type, (wall-mounted type *2)
DEGREES OF FREEDOM		-	6
DRIVE SYSTEM			AC servo motor
POSITION DETECTION METHOD			Absolute encoder
MAXIMUM LOAD CAPACITY		kg	5
ARM LENGTH		mm	500+410
MAXIMUM REACH RADIUS		mm	910
OPERATING RANGE	J1	deg	480 (±240)
	J2		296 (±148)
	J3		300 (±150)
	J4		400 (±200)
	J5		240 (±120)
	J6		400 (±200)
MAX. SPEED	J1	deg/s	125
	J2		125
	J3		125
	J4		300
	J5		360
	J6		720
MAXIMUM COMPOSITE SPEED		mm/s	1,000
POSITION REPEATABILITY		mm	±0.03
AMBIENT TEMPERATURE		°C	0 to 40
MASS		kg	20





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