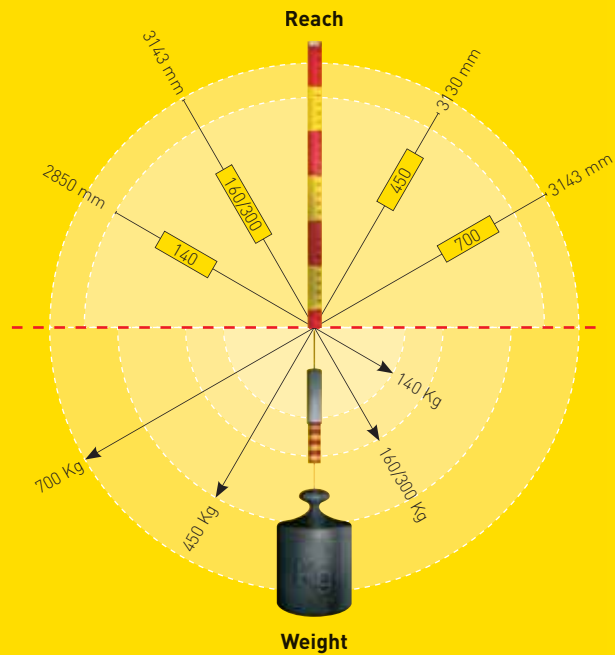


# M-410iB SERIES

	Robot model	Controller	Controlled axes	Max. load capacity at wrist [kg]	Repeatability [mm]	Mechanical weight [kg]	Reach [mm]	Motion range [°]						Maximum speed [°/s]						J4 Moment [Nm]/ Inertia [kgm <sup>2</sup> ]	J5 Moment [Nm]/ Inertia [kgm <sup>2</sup> ]	J6 Moment [Nm]/ Inertia [kgm <sup>2</sup> ]	IP Rating
								J1	J2	J3	J4	J5	J6	J1	J2	J3	J4	J5	J6				
M-410iB	160/300	R-30iA	4	160/300	± 0.5	1940	3143	360	144	136	540	–	–	130/85	130/90	135/100	300/190	–	–	-/78.48/-/137.34	–	–	IP54
	140H		5	140	± 0.2	1200	2850	360	155	112	20	720	–	140	115	135	135	420	–	-/147	-/53	–	
	450		4	450	± 0.5	2430	3130	360	145	135	540	–	–	70	70	70	180	–	–	-/196-294	–	–	
	700		4	700	± 0.5	2700	3143	360	144	136	540	–	–	60	60	60	120	–	–	/490	–	–	



**Available in 5 different versions:**

- M-410iB/140H, 140kg payload, high speed
- M-410iB/160, 160kg payload, hollow wrist
- M-410iB/300, 300kg payload, hollow wrist
- M-410iB/450, 450kg payload; hollow wrist
- M-410iB/700, 700kg payload, hollow wrist

THE M-410*i*B SERIES OFFERS 4-AXES ROBOTS DEDICATED TO PALLETISING APPLICATIONS WITH PAYLOADS RANGING FROM 140 TO 700 KG. FANUC WAS ONE OF THE FIRST ROBOT SUPPLIERS TO DEVELOP A ROBOT SERIES SPECIFICALLY FOR PALLETISING NEEDS AND CAN NOW RELY ON YEARS OF EXPERIENCE IN AUTOMATING THE END OF PRODUCTION LINE.

## » FEATURES AND BENEFITS

The M-410*i*B series — One of the most successful palletising robot series worldwide!

### OPTIMISED DESIGN FOR PALLETISING

The dedicated design increases throughput for palletising and load/unload applications.

- Multiple palletising positions
- Access to the work piece from the upper side, no interference between robot arm and palletised work pieces
- 360° rotation on J1 axis for a large work envelope

### AIR AND ELECTRICAL CONNECTIONS PROVIDED FROM J1 TO J4, HOLLOW WRIST

The gripper cables are installed through the robot wrist and not around it.

- Increased reliability of gripper cabling due to shorter cabling and no interference with the part or gripper elements
- Easier programming
- Increased uptime
- Better performance
- No additional cost

### INTEGRATED BASE AND CONTROLLER

Pedestal and controller are provided with the robot as standard.

- Reduced floor space requirements in factory
- Easier robot transportation
- Reduced installation time enabling quicker production start up
- B size separated cabinet available as option

### HIGH ALLOWABLE WRIST MOMENT AND INERTIA

- Ability to handle large gripper and heavy payload at high speed, thus providing higher throughput
- Flexibility on gripper design and material used

### MOTORS DIRECTLY COUPLED TO THE REDUCER

- Simplified mechanical unit
- Reduced breakdown risk
- Compact and reliable solution
- High accuracy and minimum backlash

### OPTION: SERVO HAND

A servo hand can be 100% integrated to the robot thanks to:

- The hollow wrist to connect cables
- The 6-axes servo amplifier also controls the servo hand as the 5<sup>th</sup> axis

### HOLLOW JOINT CONSTRUCTION

Reduced wear of cable routing as most reducers have hollow construction



# ➤ Dimensions

## M-410iB/140H

Top view

