

High-speed, high-precision handling & palletizing robot

MK200



*A high-speed model designed to maximize
handling and palletizing efficiency
in operations with tight cycle times*

High-speed operation

- Increased maximum speed and additional cooling fans enable fast and stable continuous operation

Powerful

- The high wrist torque and high allowable moment of inertia provide optimal performance for handling heavy loads

Compact

- The internal balancer and the slim, compact wrist design allow for installation in tight spaces

MK200

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◆ Basic Specification of Robot

Item	Specification	
Robot model	MK200-11	
Structure	Articulated robot	
Axes	6	
Drive system	AC servo system	
Maximum Motion range	J1	±3.14 rad (±180°)
	J2	-1.40 ~ +1.05 rad (-80 ~ +60°)
	J3	-2.56 ~ +2.62 rad (-146.5 ~ +150°)
	J4	±6.28 rad (±360°)
	J5	±2.27 rad (±130°)
	J6	±6.28 rad (±360°)
Maximum Velocity	J1	2.09 rad/s (120°/s)
	J2	1.83 rad/s (105°/s)
	J3	2.01 rad/s (115°/s)
	J4	2.44 rad/s (140°/s)
	J5	2.32 rad/s (133°/s)
	J6	3.67 rad/s (210°/s)
Payload weight	Wrist	200 kg
	Forearm *1	45 kg (90kg at maximum)
Maximum static load torque	J4	1,347 N·m
	J5	1,347 N·m
	J6	720 N·m
Maximum moment of inertia *2	J4	142.8 kg·m ²
	J5	142.8 kg·m ²
	J6	79.0 kg·m ²
Position repeatability *3	±0.06 mm	
Installation	Floor	
Mounting condition	Ambient temperature: 0 ~ 45 °C *4 Ambient humidity: 20 ~ 85 %RH (without condensation) Vibration: Not more than 0.5G (4.9 m/s ²)	
Protection class	Wrist: IP67 equivalent, Body: IP54 equivalent	
Noise level *5	79.6 dB	
Robot weight	1005 kg	

1[rad] = 180/π[°], 1[N·m] = 1/9.8[kgf·m]

- Axis 1-Axis 6 are displayed as J1-J6 each on the controller screen.
- Specifications are subject to change without prior notice for technical changes.
- Explosion-proof version is not available.

*1 : This value changes due to the placement and load conditions of a wrist.

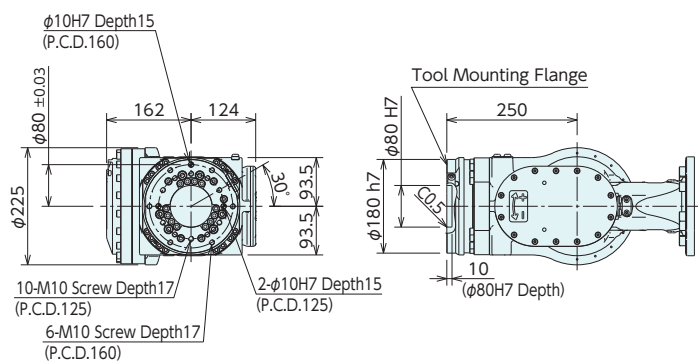
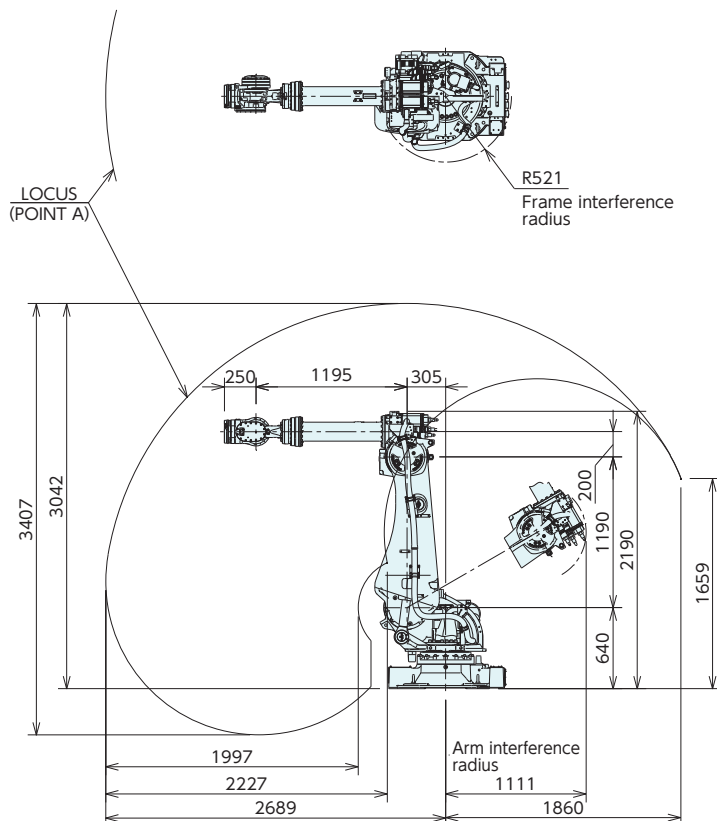
*2 : Maximum moment of inertia of a wrist changes due to the load condition.

*3 : JIS B 8432 conformance.

*4 : Using at 1000m or lower sea level. Ambient temperature has limitations when allowable altitude is exceeded.

*5 : Robot noise is A-weighted equivalent sound level measured under "JIS Z 8737-1" (ISO 11201) with maximum payload and maximum velocity.

◆ Dimensions and operating range



NACHI

NACHI-FUJIKOSHI CORP.

www.nachi-fujikoshi.co.jp

Head Office Shiodome Sumitomo Bldg. 17F, 1-9-2 Higashi-Shinbashi, Minato-ku, Tokyo 105-0021
Robot Division 1-1-1 Fujikoshi-Honmachi, Toyama 930-8511, JAPAN

Tel: +81-(0)3-5568-5111
Tel: +81-(0)76-456-2223

Fax: +81-(0)3-5568-5206
Fax: +81-(0)76-493-5252

NACHI AMERICA INC. DETROIT BRANCH

Michigan, U.S.A.

Tel: +1-248-305-6545

Fax: +1-248-305-6542

<https://www.nachirobotics.com>

NACHI EUROPE GmbH

GERMANY

Tel: +49-(0)2151-65046-0

Fax: +49-(0)2151-65046-90

<https://www.nachi.de/>

NACHI TECHNOLOGY (THAILAND) CO., LTD

THAILAND

Tel: +66-2-250-4101

Fax: +66-2-258-4103

<https://www.nachi-india.com/>

NACHI TECHNOLOGY INDIA PRIVATE LIMITED

INDIA

Tel: +91-92160-33031

Tel: +91-90018-48490

Tel: +62-021-527-2841

Fax: +62-021-527-3029

NACHI-FUJIKOSHI (CHINA) CO., LTD.

INDONESIA

Tel: +86-(0)21-6915-2200

Fax: +86-(0)21-6915-5427

<https://www.nachi.com.cn/>

●The specifications are subject to changes without notice.

●In case that an end user uses this product for military purpose or production of weapon, this product may be liable for the subject of export restriction stipulated in the Foreign Exchange and Foreign Trade Act. Please go through careful investigation and necessary formalities for export.

CATALOG NO.

R7207E

2026.6.*-HASHI