

NACHI

Best-in-Class maximum reach

Achieved high conveyance capacity with a large reach of up to 3210mm

Small interference area

The wrist wiring, signal line, and air hose are internalized to avoid interference with the workpiece.

Full range of application wiring

Supports up to 40 signal wires, also supports Ethernet LAN and additional axes.

Leads its class in speed in precision

High-speed palletizing robot **NEW**

LPA180



Robot specifications

Item			Specification
Robot model			LPA180-01
Construction			Articulated construction
Number of axes			4
Drive system			AC servo system
Max. operating area	Arm	Axis 1	±3.14rad
		Axis 2	+0.79 ~ -1.66rad
		Axis 3	+0.31 ~ -2.05rad
	Wrist	Axis 4	±6.28rad
Max. velocity ¹	Arm	Axis 1	2.44rad/s
		Axis 2	2.18rad/s
		Axis 3	2.27rad/s
	Wrist	Axis 4	6.98rad/s
Max. Payload	Wrist	Max	180kg
		rated	130kg
	Arm 1 ²		Max. 25kg
Max. allowable wrist moment of inertia		Axis 4	69kgm ²
Repeatability ³			±0.09mm
Operating pressure			-101.3 ~ 690kPa
Air piping			IN: Rc1/2×4, OUT: ϕ12×4
Signal line for applications			40 circuits (up to wrist)
Installation method			Floor
Installation conditions	Ambient temperature		0 ~ 45°C ⁴
	Ambient humidity		20 ~ 80%RH (No dew or frost allowed)
	Vibration		Not more than 0.5G (4.9m/s ²)
Robot mass			1,150kg

$$1(\text{rad})=180/\pi(^{\circ}), 1(\text{N}\cdot\text{m})=1/9.8(\text{kgf}\cdot\text{m})$$

* The specifications are subject to changes without notice for product improvement.

* Axis 1 - Axis 4 are displayed as J1-J4 each on the controller screen.

* Explosion-proof version is not available.

*1: The maximum speed in the table is the maximum value when the wrist load is 130kg or less, and will vary depending on the work program and wrist load conditions.

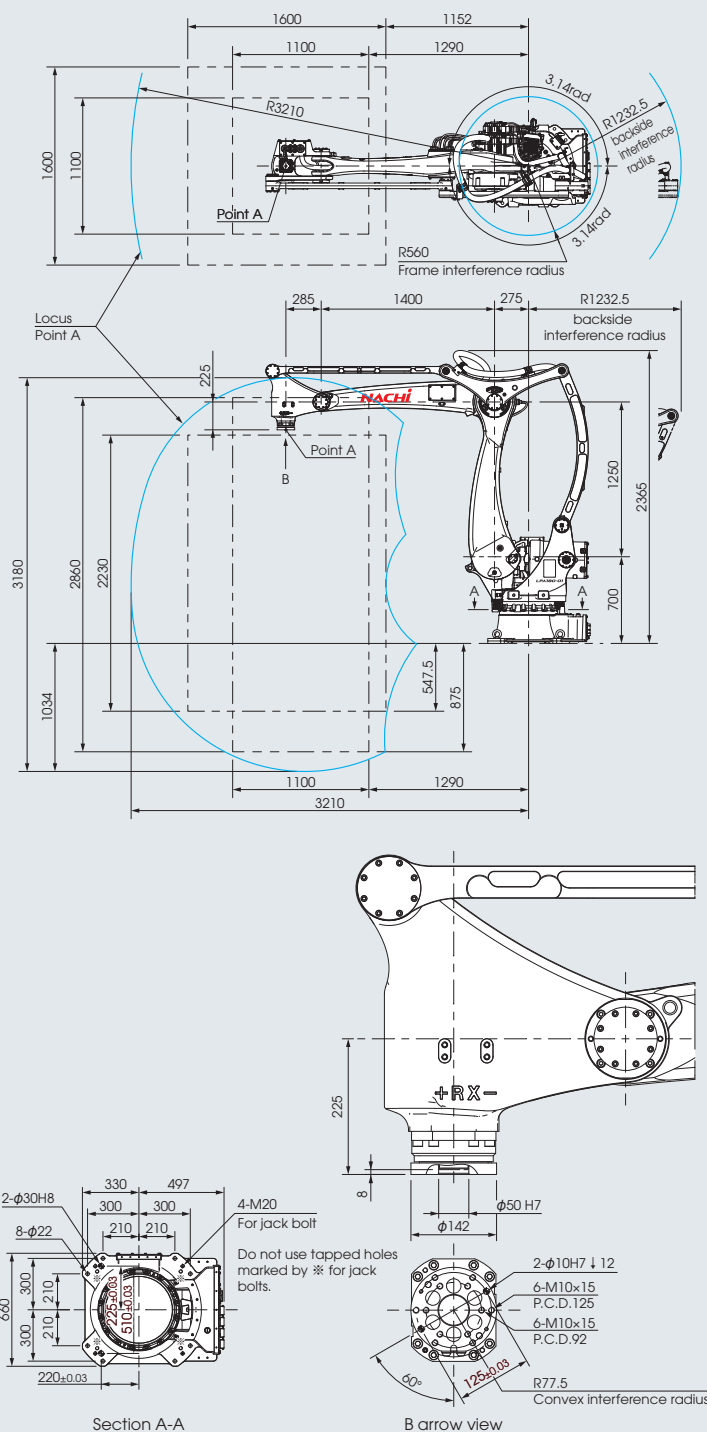
*2: Changes depending on the wrist load conditions and the installation position

*3: JIS B 8432 compliant.

*4: Up to a maximum of 1000m from sea level. Ambient temperature is reduced when allowable altitude is exceeded.

Dimensions and operating range

Easily replaceable with conventional LP130/180



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●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.

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