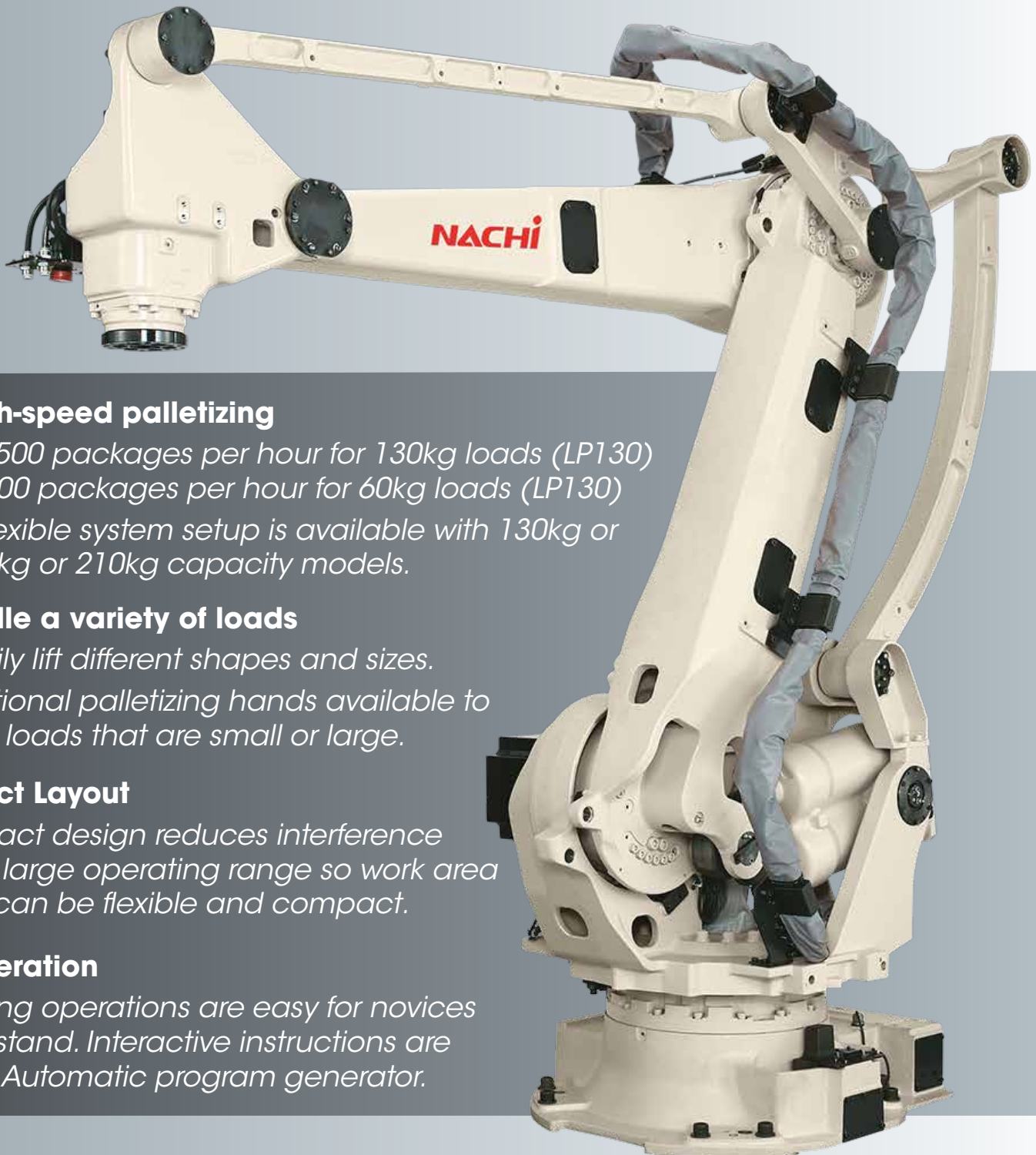


LP SERIES

NACHI
ROBOTIC SYSTEMS, INC.

LP130/180/210

4-axis palletizing robot is flexible and agile



High-speed palletizing

- 1,500 packages per hour for 130kg loads (LP130)
- 1,800 packages per hour for 60kg loads (LP130)
- Flexible system setup is available with 130kg or 180kg or 210kg capacity models.

Handle a variety of loads

- Easily lift different shapes and sizes.
- Optional palletizing hands available to carry loads that are small or large.

Compact Layout

- Compact design reduces interference within a large operating range so work area layouts can be flexible and compact.

Easy Operation

- Teaching operations are easy for novices to understand. Interactive instructions are possible. Automatic program generator.

LP130/180/210

List of basic specifications

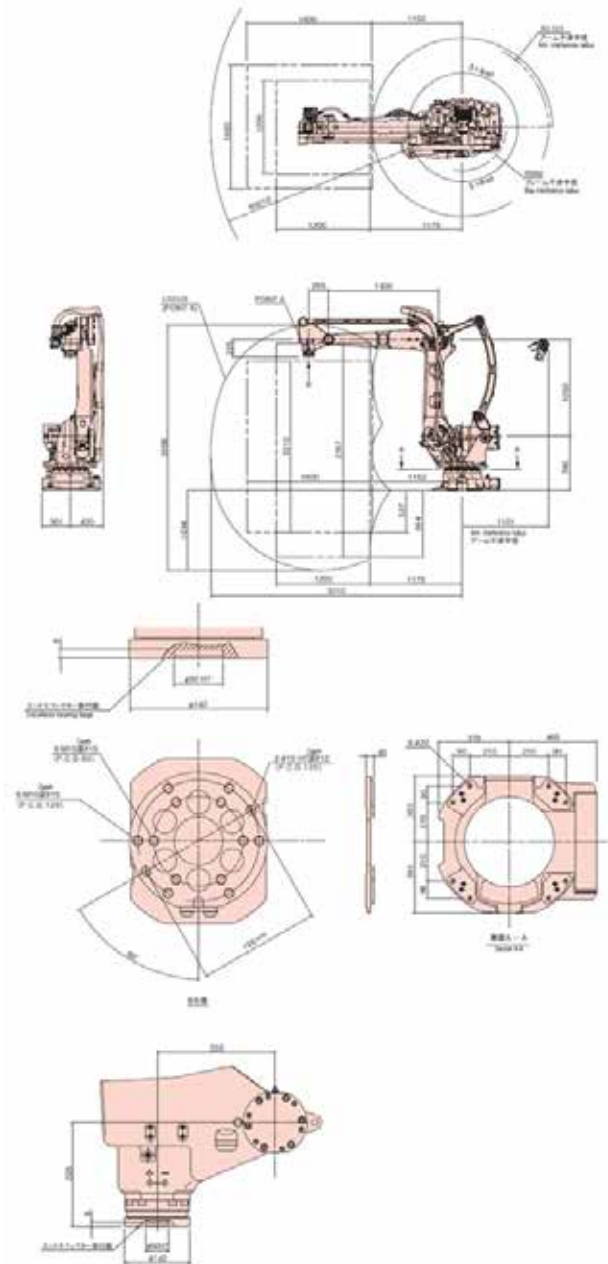
Robot model		LP130	LP180	LP210	
Construction		Articulated construction			
Number of axes		4			
Drive system		AC servo system			
Max. operating area	Arm	J1	±3.14rad		
		J2	+0.71 to -1.65rad		
		J3	+0.30 to -2.04rad		
	Wrist	J4	±6.28rad		
Max. velocity	Arm	J1	2.27rad/s	2.01rad/s	1.83rad/s
		J2	2.01rad/s	1.75rad/s	1.75rad/s
		J3	2.01rad/s	1.83rad/s	1.75rad/s
	Wrist	J4	6.98rad/s	6.28rad/s	5.24rad/s
Max. Payload	Wrist	130kg	180kg	210kg	
	Forearm*1	25kg			
Max allowable moment of inertia	J4	50kgm ²	69kgm ²	100kgm ²	
Repeatability*2		±0.3mm	±0.4mm		
Air piping		-101.3 to 690kPa			
Operating pressure		2-φ12x8 (up to wrist)			
Signal line for applications		20 circuits (up to wrist) 6 circuits (up to forearm)			
Installation method		Floor mounted			
Installation conditions		Ambient temperature : 0 to 45 °C Ambient humidity : 20 to 85% RH (without condensation) Vibration : 0.5G or less			
Robot mass		1,150kg			

1[rad]=180/π[°] 1[N·m]=1/9.8[kgf·m]

(*1) Varies according to wrist load conditions and installation position.

(*2) JIS B 8432 compliant.

Exterior dimensions and operating envelope



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NACHI ROBOTIC SYSTEMS INC.
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Indiana, U.S.A.
CANADA
MEXICO
BRASIL
GERMANY
THAILAND
SINGAPORE
INDONESIA
INDIA
CHINA

Tel: +1-248-305-6545
Tel: +1-317-530-1001
Tel: +1-905-660-0088
Tel: +52-442-153-2424
Tel: +55-11-4793-8800
Tel: +49-(0)2151-65046-0
Tel: +66(38)961679
Tel: +65-65587393
Tel: +62-21-527-2841
Tel: +91-(0)14-9467-1300
Tel: +86-(0)21-6915-2200

Fax: +1-248-305-6542
Fax: +1-317-530-1011
Fax: +1-905-660-1146
Fax: +52-442-153-2435
Fax: +55-11-4793-8870
Fax: +49-(0)2151-65046-90
Fax: +66(38)961683
Fax: +65-65587371
Fax: +62-21-527-3029
Fax: +91-(0)14-9467-1310
Fax: +86-(0)21-6915-5427

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● 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.