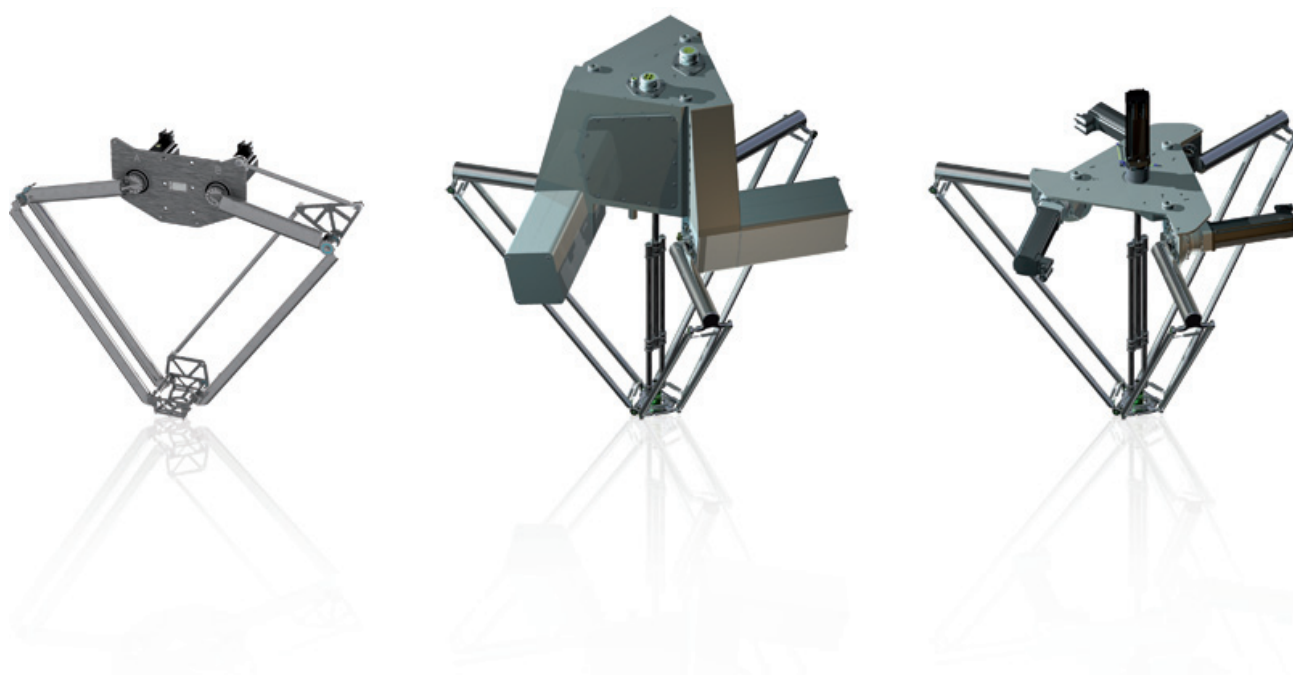


PacDrive 3 automation solution

PacDrive Delta robots

Catalog

March **2016**



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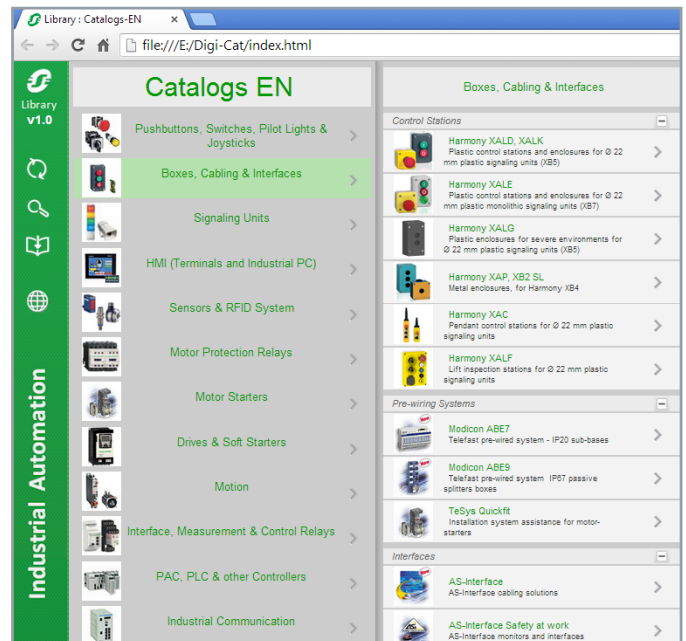
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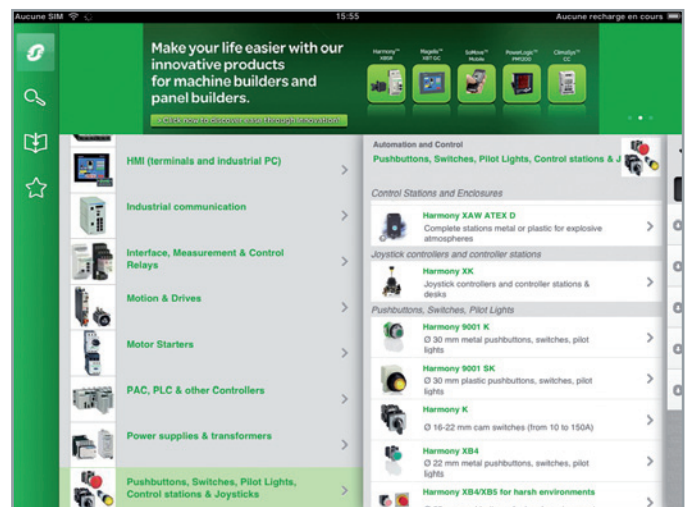
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PacDrive 3 automation solution

PacDrive Delta robots

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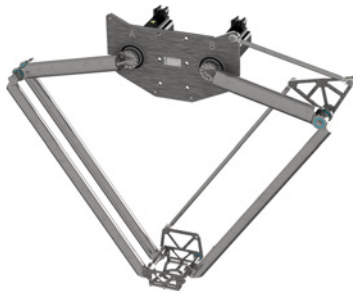
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PacDrive Delta robots



Lexium Cartesian robots



PacDrive Delta 2 robot

Presentation

These robotics solutions were developed as an add-on to PacDrive. They were designed to satisfy rapidly growing customer demand for robots as an integral part of machine design, for example in packaging machinery.

The robotics hardware consists of PacDrive Delta 2, PacDrive Delta 3 robots. In addition to the standard product offerings, customized versions are also available upon request.

Schneider Electric provides also Cartesian robots: the modular Lexium Cartesian robot systems that consist of standardized elements, complete solutions, and customized solutions for a variety of 1, 2, and 3-dimensional motion tasks. Please refer to our catalog "Lexium Cartesian robots".

PacDrive Delta 2 robots

- The PacDrive Delta 2 robot is quick, quiet, and reliable. It has a maximum load capacity of 45 kg (99.20 lbs).
- The **T3** and **T5** types use conventional Lexium MH3 Motors with cabinet-mounted servo drives (1).
- The ready-to-use **T3** and **T5** robots are available to install an optional rotational motor.

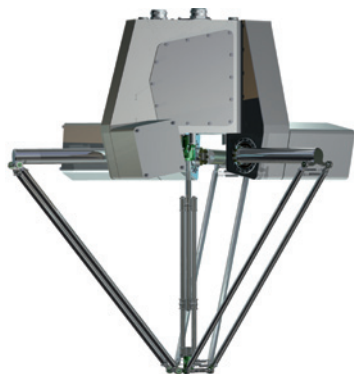
Advantages of PacDrive Delta 2 robots

- > Flexible mounting capabilities of the parallelogram arm
- > Flexible mounting by switching of the lower arms
- > High payload capacity
- > Large work envelope
- > High precision
- > Highly dynamic response
- > Low noise level
- > Standard components for mechanisms and drives
- > Pre-assembled and ready to connect mechanics
- > Referenced ex-factory
- > Low maintenance while at the same time offering high load capacity
- > Compact, angled gearboxes are also available
- > Degree of protection up to IP64
- > Easy-clean design

References

- > See page 7

(1) Please refer to our catalog "Lexium SH3/MH3/SHS servo motors".



PacDrive Delta 3 robot, type P4



PacDrive Delta 3 robot, type P4 Flat



PacDrive Delta 3 robot, type P2, P4, P6 Compact

PacDrive Delta 3 robots

- PacDrive Delta 3 robots are designed for fast pick-and-place operations. They stand out with their short cycle times and an exceptional payload capacity of up to 15 kg (33.1 lb).
- Combined with a vision system, PacDrive Delta 3 robots can also be used for random and/or mixed product flow picking.
- The robot's mounting fixtures located on the top (P4 Standard version), which reduces the risk of the robot arms colliding with the frame, even at extreme deflection.
- The PacDrive Delta 3 robots can be equipped with Lexium SH3 servo motors (1), or with Lexium 62 ILM integrated drives (2).
- The PacDrive Delta 3 robots are available as 3 axis robot without rotational axis or with a rotational axis as 4 axis robot.
- The PacDrive Delta 3 robots are also available with an optional rotational axis.
- Lexium 62 ILM integrated drives are connected via a single cable from the cabinet to machine-mounted distribution boxes and single, quick-connect cables to each servo.

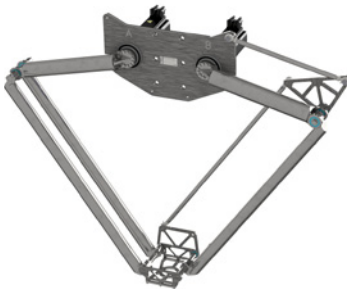
Advantages of PacDrive Delta 3 robots

- > 3 types available for optimum footprint
- > Highly dynamic response
- > IP65 rated, sealed stainless steel design for pharmaceutical and food applications (IP69k for all robots on the moving parts, Version with cleanroom up to class 6 available)
- > High precision
- > Optimized tube/cable mounting through the parallel plate reduces risk of collision with products and machine parts
- > Suitable for washdown applications (P4 only)
- > Available with Lexium 62 ILM integrated drives for non-washdown applications: P4 Standard, P6 Compact or P2 Compact on request
- > Low noise level
- > Standard components for mechanisms and drives
- > Pre-assembled and ready to connect mechanics
- > Referenced ex-factory
- > Low maintenance while at the same time offering high load capacity
- > Compact design for ceiling mounting
- > Three or four degrees of freedom
- > Choice between Lexium SH3 servo motors and Lexium 62 ILM integrated drives
- > Patented, completely welded stainless steel lower arms, no gluing, no issues with cleaning fluids
- > Re-referencing without additional tool ("Homing")

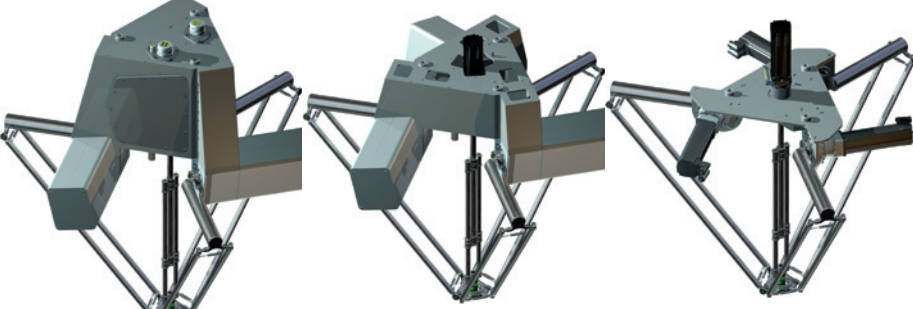
References

- > See pages 8 to 11

(1) Please refer to our catalog "Lexium SH3/MH3/SHS servo motors".
 (2) Please refer to our catalog "Lexium 62 ILM integrated drive".

Robot type	PacDrive Delta 2 robots		PacDrive Delta 3 robots
	T3/ T3 HD (1000 mm/39.4 in.)	T5/T5 HD (1500 mm/59.05 in.)	P2 Compact (800 mm/31.5 in.)
Number of axes	2-3 axis		3-4 axis
			
Work envelope	☐ Width max. 1000 mm (39.4 in.) ☐ Height max. 555 mm (21.85 in.)	☐ Width max. 1500 mm (59.05 in.) ☐ Height max. 615 mm (24.21 in.)	☐ Diameter 800 mm (31.5 in.) ☐ Height 230 mm (9.06 in.) ☐ Unlimited rotation
Rotational axis	☐ Fixed (no rotational axis installed) ☐ Optional rotational axis	☐ Fixed (no rotational axis installed) ☐ Optional rotational axis	☐ Fixed (no rotational axis installed) ☐ Optional rotational axis: - 3 axis without rotational axis - 4 axis with rotational axis
Repetitive accuracy	< 0.3 mm (< 0.01 in.)	< 0.3 mm (< 0.01 in.)	+/- 0.1 mm (+/-0.004 in.)
Position repetability	140 cycle/minute (1)	130 cycle/minute (1)	301 cycle/minute (1)
Maximum speed	4 m/sec	4 m/sec	10 m/sec
Maximum acceleration	☐ 40 m/sec ² max	☐ 40 m/sec ² max	☐ 120 m/sec ² at 1kg (at 2.20 lb) ☐ 90 m/sec ² at 1.5 kg (at 3.31 lb)
Maximum payload capability	Up to 45 kg (99.20 lb)	Up to 45 kg (99.20 lb)	Up to 15 kg (33.1 lb)
Variants	☐ Normal – non-washdown (IP64)	☐ Normal – non-washdown (IP64)	☐ Normal – washdown, non-hygienic (IP65, IP69K moving parts)
Combined motor type	☐ Lexium MH3 motors (2) ☐ Lexium 62 ILM integrated drive: on request ☐ Without motor: on request	☐ Lexium MH3 motors (2) ☐ Lexium 62 ILM integrated drive: on request ☐ Without motor: on request	☐ Lexium SH3 motors (2) ☐ Lexium 62 ILM integrated drive (3)
Reference	VRKT3M●FNC00000	VRKT5M●FNC00000	VRKP2●●●NC00000
See page	7		8

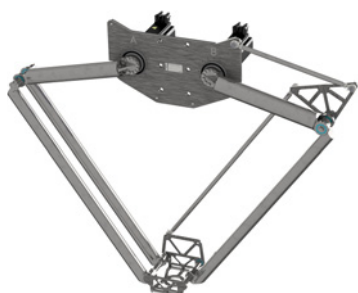
(1) Depending on the application, and on payload.
(2) Please refer to our catalog "Lexium SH3/MH3/SHS servo motors".
(3) Please refer to our catalog "Lexium 62 ILM integrated drive".

Robot type	P4 Standard (1200 mm/47.2 in.)	P4 Flat (1200 mm/47.2 in.)	P4 Compact (1200 mm/47.2 in.)	P6 Compact (1600 mm/62.9 in.)	P6 Extended (1600 mm/62.9 in.)
Number of axes	3-4 axis	3-4 axis	3-4 axis		
					
Work envelope	☐ Diameter 1200 mm (47.24 in.) ☐ Height 225 mm (8.86 in.) ☐ Unlimited rotation	☐ Diameter 1200 mm (47.2 in.) ☐ Height 225 mm (8.86 in.) ☐ Unlimited rotation	☐ Diameter 1200 mm (47.2 in.) ☐ Height 225 mm (8.86 in.) ☐ Unlimited rotation	☐ Diameter 1600 mm (62.9 in.) ☐ Height 275 mm (10.83 in.) ☐ Unlimited rotation	☐ Diameter 1600 mm (62.9 in.) ☐ Height 450 mm in Z stroke (17.71 in.) ☐ Unlimited rotation
Rotational axis	☐ Fixed (no rotational axis installed) ☐ Optional rotational axis: - 3 axis without rotational axis - 4 axis with rotational axis	☐ Fixed (no rotational axis installed) ☐ Optional rotational axis: - 3 axis without rotational axis - 4 axis with rotational axis	☐ Fixed (no rotational axis installed) ☐ Optional rotational axis: - 3 axis without rotational axis - 4 axis with rotational axis	☐ Fixed (no rotational axis installed) ☐ Optional rotational axis: - 3 axis without rotational axis - 4 axis with rotational axis	☐ Fixed (no rotational axis installed) ☐ Optional rotational axis: - 3 axis without rotational axis - 4 axis with rotational axis
Repetitive accuracy	+/- 0.1 mm (+/-0.004 in.)	+/- 0.1 mm (+/-0.004 in.)	+/- 0.1 mm (+/-0.004 in.)	+/- 0.1 mm (+/-0.004 in.)	+/- 0.1 mm (+/-0.004 in.)
Position repeatability	230 cycle/minute (1)	230 cycle/minute (1)	230 cycle/minute (1)	180 cycle/minute (1)	180 cycle/minute (1)
Maximum speed	10 m/sec	10 m/sec	10 m/sec	10 m/sec	10 m/sec
Maximum acceleration	☐ 100 m/sec² at 1kg (at 2.20 lb) ☐ 75 m/sec² at 1.5 kg (at 3.31 lb)	☐ 100 m/sec² at 1kg (at 2.20 lb) ☐ 75 m/sec² at 1.5 kg (at 3.31 lb)	☐ 100 m/sec² at 1kg (at 2.20 lb) ☐ 75 m/sec² at 1.5 kg (at 3.31 lb)	☐ 80 m/sec² at 1kg (at 2.20 lb) ☐ 60 m/sec² at 1.5 kg (at 3.31 lb)	☐ 80 m/sec² at 1kg (at 2.20 lb) ☐ 60 m/sec² at 1.5 kg (at 3.31 lb)
Maximum payload capability	Up to 15 kg (33.1 lb)	Up to 15 kg (33.1 lb)	Up to 15 kg (33.1 lb)	Up to 15 kg (33.1 lb)	Up to 15 kg (33.1 lb)
Variants	☐ Washdown (IP65, IP69K moving parts) ☐ Normal – non-washdown (IP65, IP69K moving parts) ☐ Cleanroom Class 6	☐ Washdown (IP65, IP69K moving parts) ☐ Normal – non-washdown (IP65, IP69K moving parts)	☐ Normal – washdown, non-hygienic (IP65, IP69K moving parts)	☐ Normal – washdown, non-hygienic (IP65, IP69K moving parts)	☐ Normal – washdown, non-hygienic (IP65, IP69K moving parts)
Combined motor type	☐ Lexium SH3 motors (2) ☐ Lexium 62 ILM integrated drive (3) ☐ Motor and drive ☐ Motor and gearbox ☐ Without motor and gearbox: on request	☐ Lexium SH3 motors (2) ☐ Lexium 62 ILM integrated drive (3) ☐ Without motor ☐ Motor and gearbox ☐ Without motor and gearbox: on request	☐ Lexium SH3 motors (2) ☐ Lexium 62 ILM integrated drive (3) ☐ Motor and drive ☐ Without motor and gearbox: on request	☐ Lexium SH3 motors (2) ☐ Lexium 62 ILM integrated drive on request ☐ Motor and gearbox ☐ Without motor and gearbox: on request	☐ Lexium SH3 motors (2) ☐ Lexium 62 ILM integrated drive on request ☐ Motor and gearbox ☐ Without motor and gearbox: on request
Reference	VRKP4●●●●●00000	VRKP4●●●●●F00000	VRKP4●●●●●NC00000	VRKP6●●●●●NC00●00	
See page	8	8	8	8	8

(1) Depending on the application, and on payload.
(2) Please refer to our catalog "Lexium SH3/MH3/SHS servo motors".
(3) Please refer to our catalog "Lexium 62 ILM integrated drive".

PacDrive Delta 2 and PacDrive Delta 3 robots: Product reference structure

	Type (root)			Model					Options						
Example	V	R	K	P	4	S	0	R	N	O	0	0	0	0	0
Robot Kinematics															
VRK															
Robot Type/Product Type															
P2	3-4 axis Delta 3 robot 800 mm (31.5 in.)														
P4	3-4 axis Delta 3 robot 1200 mm (47.2 in.)														
P6	3-4 axis Delta 3 robot 1600 mm (62.9 in.)														
T3	2 axis Delta 2 robot														
T5	3 axis Delta 2 robot														
CP	Customer Project														
Subtype															
S0	SH motor														
L0	ILM motor														
WM	Without motor (P4)														
YY	Spare part set														
HB	Hardware Bundle														
Option															
R	Rotational axis installed														
F	Fixed, no rotational axis installed														
C	Customized version or customized hardware bundle														
Y	Spare part														
Variant															
WD	Washdown IP 65 (P4)														
NF	Normal, non-washdown, flat (P4)														
NO	Normal, non-washdown (P4)														
WF	Washdown, flat (P4)														
CW	Cleanroom, class 6 conforming to ISO14644-1 (P4)														
NC	Normal, Compact (P2, P4 and P6 with SH motors; with Lexium 62 ILM motors on request)														
01	Customized version 01 (=> Option=C)														
YY	Spare part														
P4	Customized bundle for P4 robot scope														
Version															
To identify robot version															
00	S00 (P4; T3, T5)														
Miscellaneous															
for options; e.g. spare part number															
000	Customized hardware bundle subtype/enumeration														



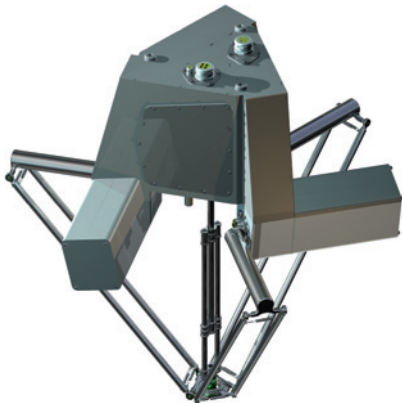
PacDrive Delta 2 robot, 2 axis

PacDrive Delta 2 robots**Delta 2 robots**

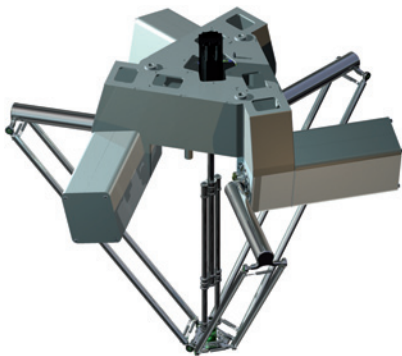
Designation	Number of axis	Payload		Reference	Weight kg / lb
		kg	lb		
PacDrive robot T3 <i>T3, fixed axis, MH3 motor</i>	2	35	77.16	VRKT3M0FNC00000	50.000 110.23
PacDrive robot T3 HD <i>T3 HD, fixed axis, MH3 motor</i>	2	45	99.20	VRKT3M1FNC00000	50.000 110.23
PacDrive robot T5 <i>T5, fixed axis, MH3 motor</i>	2	30	66.13	VRKT5M0FNC00000	60.000 132.27
PacDrive robot T5 HD <i>T5, fixed axis, MH3 motor</i>	2	45	99.20	VRKT5M1FNC00000	60.000 132.27



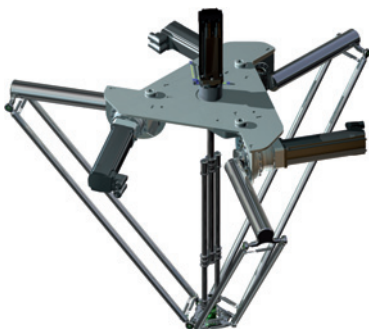
PacDrive Delta 3 robot, P2 Compact



PacDrive Delta 3 robot, P4 Standard



PacDrive Delta 3 robot, P4 Flat



PacDrive Delta 3 robot, P4/P6 Compact

PacDrive Delta 3 robots**P2 Compact robots (800 mm work envelop / 31.50 in. work envelop)**

Designation	Reference	Weight kg / lb
PacDrive robot P2s-F-NC-15-800 <i>P2 Compact, fixed axis, non-washdown, SH3 motor</i>	VRKP2S0FNC00000	47.000 103.62
PacDrive robot P2s-R-NC-15-800 <i>P2 Compact, rotational axis, non-washdown, SH3 motor</i>	VRKP2S0RNC00000	52.000 114.64
PacDrive robot P2L-F-NC-15-800 <i>P2 Compact, fixed axis, non-washdown, ILM motor</i>	VRKP2L0FNC00000	55.000 121.25
PacDrive robot P2L-R-NC-15-800 <i>P2 Compact, rotational axis, non-washdown, ILM motor</i>	VRKP2L0RNC00000	65.000 143.30

P4 Standard robots (1200 mm work envelop / 47.24 in. work envelop)

Designation	Reference	Weight kg / lb
PacDrive robot P4s-F-WD-15-1200 <i>P4, fixed axis, washdown, SH3 motor</i>	VRKP4S0FWD00000	105.000 231.49
PacDrive robot P4s-R-WD-15-1200 <i>P4, rotational axis, washdown, SH3 motor</i>	VRKP4S0RWD00000	110.000 242.51
PacDrive robot P4s-F-CW-15-1200 <i>P4, fixed axis, washdown, cleanroom, SH3 motor</i>	VRKP4S0FCW00000	105.000 231.49
PacDrive robot P4s-R-CW-15-1200 <i>P4, rotational axis, washdown, cleanroom, SH3 motor</i>	VRKP4S0RCW00000	110.000 242.51
PacDrive robot P4L-F-NO-15-1200 <i>P4, fixed axis, non-washdown, ILM motor</i>	VRKP4L0FNO00000	107.000 235.89
PacDrive robot P4L-R-NO-15-1200 <i>P4, rotational axis, non-washdown, ILM motor</i>	VRKP4L0RNO00000	113.000 249.12

P4 Flat robots (1200 mm work envelop / 47.24 in. work envelop)

Designation	Reference	Weight kg / lb
PacDrive robot P4s-F-WF-15-1200 <i>P4 Flat, fixed axis, washdown, SH3 motor</i>	VRKP4S0FWF00000	89.000 196.21
PacDrive robot P4s-R-WF-15-1200 <i>P4 Flat, rotational axis, washdown, SH3 motor</i>	VRKP4S0RWF00000	94.000 207.23
PacDrive robot P4L-F-NF-15-1200 <i>P4 Flat, fixed axis, non-washdown, ILM motor</i>	VRKP4L0FNF00000	116.000 255.74
PacDrive robot P4L-R-NF-15-1200 <i>P4 Flat, rotational axis, non-washdown, ILM motor</i>	VRKP4L0RNF00000	125.000 275.58
PacDrive robot P4-R-NF-15-1200 <i>P4 Flat, rotational axis, non-washdown, without motor</i>	VRKP4WMRNF00000	100.000 220.46

P4 Compact robots (1200 mm work envelop / 47.24 in. work envelop)

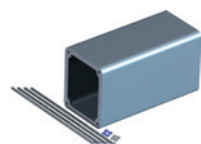
Designation	Reference	Weight kg / lb
PacDrive robot P4s-F-NC-15-1200 <i>P4 Compact, fixed axis, non-washdown, SH3 motor</i>	VRKP4S0FNC00000	51.000 112.44
PacDrive robot P4s-R-NC-15-1200 <i>P4 Compact, rotational axis, non-washdown, SH3 motor</i>	VRKP4S0RNC00000	56.000 123.46
PacDrive robot P4L-F-NC-15-1200 <i>P4 Compact, fixed axis, non-washdown, ILM motor</i>	VRKP4L0FNC00000	55.000 121.25
PacDrive robot P4L-R-NC-15-1200 <i>P4 Compact, rotational axis, non-washdown, ILM motor</i>	VRKP4L0RNC00000	60.000 132.28

P6 Compact robots (1600 mm work envelop / 62.99 in. work envelop)

Designation	Reference	Weight kg / lb
PacDrive robot P6s-F-NC-15-1600 <i>P6 Compact, fixed axis, non-washdown, SH3 motor</i>	VRKP6S0FNC00000	60.000 132.28
PacDrive robot P6s-R-NC-15-1600 <i>P6 Compact, rotational axis, non-washdown, SH3 motor</i>	VRKP6S0RNC00000	65.000 143.30

P6 Extended robots (1600 mm work envelop / 62.99 in. work envelop)

Designation	Reference	Weight kg / lb
PacDrive robot P6EXs-F-NC-15-1600 <i>P6 Extended, fixed axis, non-washdown, SH3 motor</i>	VRKP6S0FNC00EX0	60.000 132.28
PacDrive robot P6EXs-R-NC-15-1600 <i>P6 Extended, rotational axis, non-washdown, SH3 motor</i>	VRKP6S0RNC00EX0	65.000 143.30



VRKP4YYYYY00001

VRKP2YYYYY00002
VRKP4YYYYY00002

VRKP4YYYYY00003

VRKP2YYYYY00004
VRKP4YYYYY00004

VRKP4YYYYY00005



VRKP4YYYYY00006

VRKP2YYYYY00007
VRKP4YYYYY00007

VRKP4YYYYY00008



VRKP4YYYYY00009

VRKP2YYYYY00010
VRKP4YYYYY00010

VRKP4YYYYY00011



VRKP4YYYYY00012



VRKP4YYYYY00013

PacDrive Delta 3 robots

Spare parts for PacDrive Delta 3 robots

Designation	Use with	Description	Reference	Weight kg / lb
Primary arm with ball pins and indexing bolt	P2	1x primary arm, complete 1x indexing bolt gearing	VRKP2YYYYY00002	—
2 secondary arms with rolls, sockets, and 4 springs	P2	2x lower arm, complete 4x spring	VRKP2YYYYY00004	—
Telescopic axis mounted with universal joints	P2	1x telescopic axis	VRKP2YYYYY00007	—
Set of 3 tubes for telescopic axis	P2	2x lower tube 16 1x upper tube 20	VRKP2YYYYY00010	—
Motor cover with fasteners – without seal	P4	1x motor cover P4x-WD 4x screw-threaded rod 4x sealing rings screw-threaded rod 4x loss washer	VRKP4YYYYY00001	—
Primary arm with ball pins and indexing bolt	P4	1x primary arm, complete 1x indexing bolt for gearing	VRKP4YYYYY00002	—
Gearbox with fasteners and indexing bolt	P2, P4, P6	1x gearbox main axis 12x screw-drive motor 4x screw-drive motor 12x washer drive motor 1x indexing bolt gearbox 1x X-Ring drive motor 1x PE caps for motors	VRKP4YYYYY00003	—
2 secondary arms with rolls, sockets and 4 springs	P4	2x lower arm, complete 4x spring	VRKP4YYYYY00004	—
Parallel plate with bearing and ball pins	P2, P4, P6	1x parallel plate with bearing and ball pins	VRKP4YYYYY00005	—
Parallel plate with ball pins	P2, P4, P6	1x parallel plate with ball pins	VRKP4YYYYY00006	—
Telescopic axis mounted with universal joints	P4	1x telescopic axis	VRKP4YYYYY00007	—
Upper universal joint with fasteners	P2, P4, P6	1x upper universal joint 1x clamping screw for upper universal joint	VRKP4YYYYY00008	—
Lower universal joint with fasteners and indexing bolt	P2, P4, P6	1x lower universal joint 6x countersunk screw for universal joint 1x straight pin for universal joint	VRKP4YYYYY00009	—
Set of 3 tubes for telescopic axis	P4	2x lower tube 16 1x upper tube 20	VRKP4YYYYY00010	—
Various fasteners	P2, P4, P6	1x clamping cone, large 1x clamping sleeve, large 1x washer, large 4x washer, small 4x clamping cone, small 4x clamping sleeve, small 1x cover for universal joint 5x clamping screw 1x screw for universal joint, large 1x screw for universal joint, small 6x countersunk screw for universal joint 2x straight pin for universal joint	VRKP4YYYYY00011	—
3 sets of sliding films	P2, P4, P6	3x sliding lms 20 6x sliding lms 16	VRKP4YYYYY00012	—
3 sets of sliding film FDA	P2, P4, P6	3x sliding film 20 FDA 6x sliding film 16 FDA	VRKP4YYYYY00013	—



VRKP4YYYYY00014



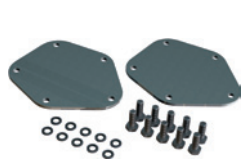
VRKP4YYYYY00015



VRKP4YYYYY00016



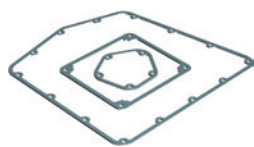
VRKP4YYYYY00017



VRKP4YYYYY00018



VRKP4YYYYY00019



VRKP4YYYYY00020



VRKP4YYYYY00021



VRKP4YYYYY00022



VRKP4YYYYY00023

PacDrive Delta 3 robots

Spare parts for PacDrive Delta 3 robots (continued)

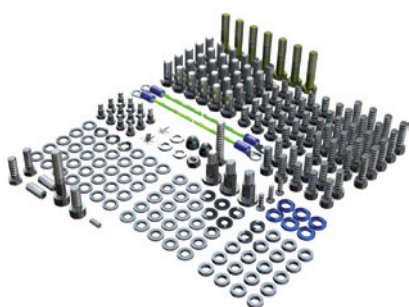
Designation	Use with	Description	Reference	Weight kg / lb
Gearbox rotation axis with fasteners and seals	P2, P4, P6	1x gearbox rotational axis 1x O-ring central motor 4x sealing ring for central motor 4x screw for central motor above 4x gearbox screw	VRKP4YYYYY00014	–
Maintenance lid with fasteners	P4	1x maintenance lid 14x maintenance lid screw 14x sealing ring for maintenance lid	VRKP4YYYYY00015	–
Cable bushing with lids and fasteners	P4	1x cable bushing M16 PVDF 1x counter nut M16 MS-vern 1x sealing ring PE M16 2x gland body M50 PVDF 2x counter nut M50 MS-vern 2x sealing ring PE M50 1x sealing insert 4x13 1x sealing insert 7x9 1x lock bolt 13 4x lock bolt 9 1x media lid 50 1x media lid 50/16 10x screw for media lid 10x sealing ring for screw media lid	VRKP4YYYYY00016	–
Motor cover with fasteners – without seals	P4	1x motor cover P4x-NO 4x screw-threaded rod 4x sealing ring for screw-threaded rod 4x loss washer	VRKP4YYYYY00017	–
2 covers with fasteners – without seals	P4	2x media lid blank 10x screw media lid 10x sealing ring for screw media lid	VRKP4YYYYY00018	–
Closing 4th-axis lid with fasteners and seals	P4	1x blind cap central axis 1x o-ring central motor 4x sealing ring for central motor 4x screw for central motor below	VRKP4YYYYY00019	–
1 set of seals for maintenance lid, motor cover, media lid	P4	1x seal for maintenance lid 1x seal for motor cover 1x seal for media lid	VRKP4YYYYY00020	–
2 sets of seals for all gearboxes	P2, P4, P6	6x X-ring drive motor 2x o-ring central motor	VRKP4YYYYY00021	–
Screw set for 1 primary arm	P2, P4, P6	7x screw for primary arm	VRKP4YYYYY00022	–
12 Helical extensions with rolls and fasteners – set for 1 robot	P2, P4, P6	12x helical extension 24x roll 24x screw	VRKP4YYYYY00023	–



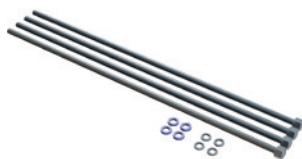
VRKP4YYYYY00024



VRKP4YYYYY00025



VRKP4YYYYY00026



VRKP4YYYYY00027



VRKP4YYYYY00028



VRKP4YYYYY00029

PacDrive Delta 3 robots

Spare parts for PacDrive Delta 3 robots (continued)

Designation	Use with	Description	Reference	Weight kg / lb
12 ball pins – set for 1 robot	P2, P4, P6	12x ball pin	VRKP4YYYYY00024	–
12 ball sockets – set for 1 robot	P2, P4, P6	12x ball socket	VRKP4YYYYY00025	–
Set of small parts e.g. fasteners, washers, etc. without expendable parts	P2, P4, P6	12x screw 2x PE sticker 1x ground wire 0.5, 650 mm (25.6 in.) 1x ground wire 0.5, 400 mm (15.7 in.) 25x sealing ring for central motor sealing ring for covering screw 35x sealing ring for maintenance lid sealing ring for media lid 2x washer PE 2x screw for central motor below 20x washer drive motor 10x screw for central motor above for screw drive motor screw for universal joint, small 7x screw for primary arm 1x straight pin for universal joint 1x clamping screw for universal joint 1x screw for universal joint, large 3x countersunk screw for universal joint 20x screw for drive motor 25x covering screw 2x indexing bolt for gearbox 1x nut PE 1x spring ring PE 1x screw PE 30x screw for maintenance lid screw for media lid clamping screw 3x flat head screw for motor cover 6x loss washer 2x PE cap for motors	VRKP4YYYYY00026	–
Fasteners for motor cover	P4	4x screw for threaded rod 4x sealing ring screw for threaded rod 4x loss washer	VRKP4YYYYY00027	–
Fan with clamping fixtures	P4	12x clamping fixture 3x fan 80x25 24 V 6x wire end ferrules	VRKP4YYYYY00028	–
Parallel plate with bearing and ball pins	P2, P4, P6	1x titanium parallel plate with bearing and ball pins	VRKP4YYYYY00029	–

V	
VRKP2L0FNC00000	8
VRKP2L0RNC00000	8
VRKP2S0FNC00000	8
VRKP2S0RNC00000	8
VRKP2YYYYY00002	9
VRKP2YYYYY00004	9
VRKP2YYYYY00007	9
VRKP2YYYYY00010	9
VRKP4L0FNF00000	8
VRKP4L0FNO00000	8
VRKP4L0RNC00000	8
VRKP4L0RNF00000	8
VRKP4L0RNO00000	8
VRKP4S0FCW00000	8
VRKP4S0FNC00000	8
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VRKP4S0RCW00000	8
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VRKP6S0FNC00EX0	8
VRKP6S0RNC00000	8
VRKP6S0RNC00EX0	8
VRKT3M0FNC00000	7
VRKT3M1FNC00000	7
VRKT5M0FNC00000	7
VRKT5M1FNC00000	7

The Next Generation



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