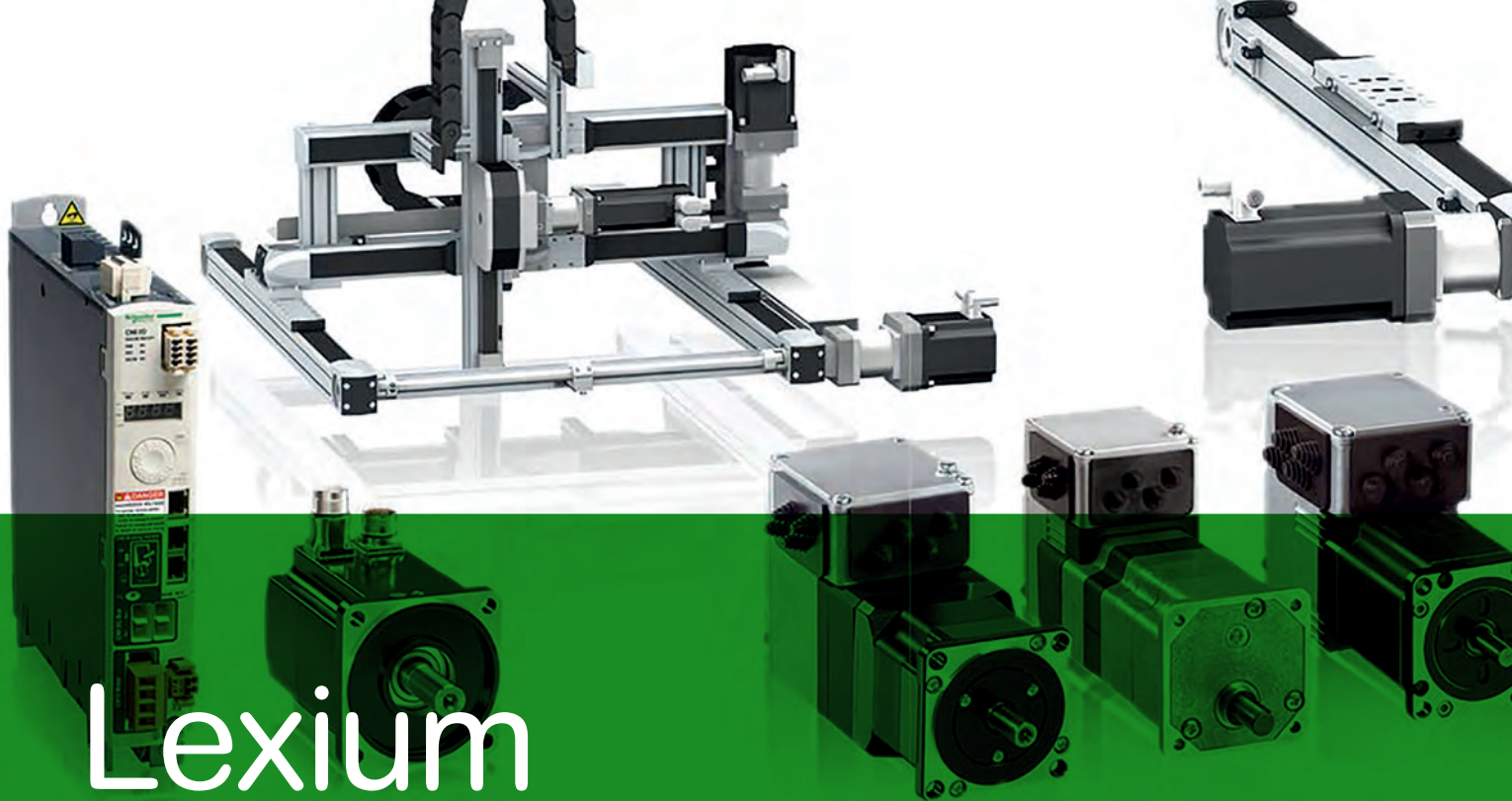




Lexium T, P

Delta robots for pick & place solutions



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Advanced motion control and robotics

Lexium servo drives, motors, and robotics series are designed for a broad range of motion-centric machines. From single-axis to high-performance multi-axis machines, the **Lexium** range enables high-speed movements and precise positioning in packaging, material handling, material working, electronics, and food and beverage applications.

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- [Lexium Robotics](#)
- [Lexium Stepper Drives](#)

Life Is On

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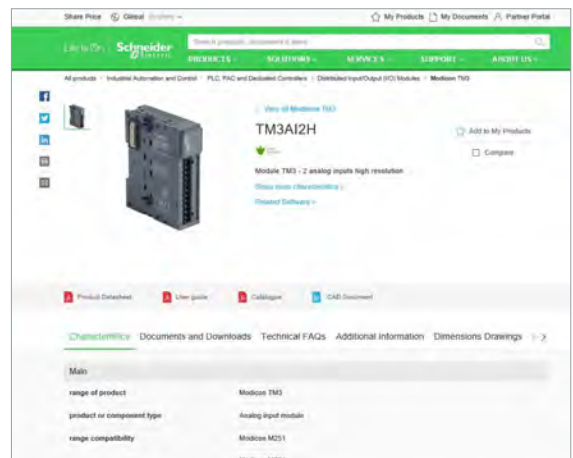
Quick access to product information

Get technical information about your product

References

Modicon TM3
I/O expansion modules for Modicon controllers
Analog I/O modules

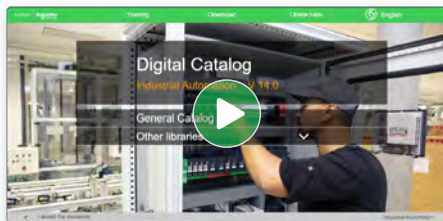
Reference	Number and type of channels	Input range	Output range	Resolution	Input terminal (Modicon TM3)	Reference	Weight
240A00000	24 channels	-10...+10 VDC 0...20 mA r. 20 mA	10...20 VDC 10...20 mA r. 20 mA	10 bits	Terminal block	TM3A12H	0.118 kg
240A00001	24 channels	-10...+10 VDC 0...20 mA r. 20 mA	10...20 VDC 10...20 mA r. 20 mA	10 bits	Terminal block	TM3A12H	0.118 kg
240A00002	24 channels	-10...+10 VDC 0...20 mA r. 20 mA	10...20 VDC 10...20 mA r. 20 mA	10 bits	Terminal block	TM3A12H	0.118 kg
240A00003	24 channels	-10...+10 VDC 0...20 mA r. 20 mA	10...20 VDC 10...20 mA r. 20 mA	10 bits	Terminal block	TM3A12H	0.118 kg
240A00004	24 channels	-10...+10 VDC 0...20 mA r. 20 mA	10...20 VDC 10...20 mA r. 20 mA	10 bits	Terminal block	TM3A12H	0.118 kg
240A00005	24 channels	-10...+10 VDC 0...20 mA r. 20 mA	10...20 VDC 10...20 mA r. 20 mA	10 bits	Terminal block	TM3A12H	0.118 kg
240A00006	24 channels	-10...+10 VDC 0...20 mA r. 20 mA	10...20 VDC 10...20 mA r. 20 mA	10 bits	Terminal block	TM3A12H	0.118 kg
240A00007	24 channels	-10...+10 VDC 0...20 mA r. 20 mA	10...20 VDC 10...20 mA r. 20 mA	10 bits	Terminal block	TM3A12H	0.118 kg
240A00008	24 channels	-10...+10 VDC 0...20 mA r. 20 mA	10...20 VDC 10...20 mA r. 20 mA	10 bits	Terminal block	TM3A12H	0.118 kg
240A00009	24 channels	-10...+10 VDC 0...20 mA r. 20 mA	10...20 VDC 10...20 mA r. 20 mA	10 bits	Terminal block	TM3A12H	0.118 kg
240A00010	24 channels	-10...+10 VDC 0...20 mA r. 20 mA	10...20 VDC 10...20 mA r. 20 mA	10 bits	Terminal block	TM3A12H	0.118 kg
240A00011	24 channels	-10...+10 VDC 0...20 mA r. 20 mA	10...20 VDC 10...20 mA r. 20 mA	10 bits	Terminal block	TM3A12H	0.118 kg
240A00012	24 channels	-10...+10 VDC 0...20 mA r. 20 mA	10...20 VDC 10...20 mA r. 20 mA	10 bits	Terminal block	TM3A12H	0.118 kg
240A00013	24 channels	-10...+10 VDC 0...20 mA r. 20 mA	10...20 VDC 10...20 mA r. 20 mA	10 bits	Terminal block	TM3A12H	0.118 kg
240A00014	24 channels	-10...+10 VDC 0...20 mA r. 20 mA	10...20 VDC 10...20 mA r. 20 mA	10 bits	Terminal block	TM3A12H	0.118 kg
240A00015	24 channels	-10...+10 VDC 0...20 mA r. 20 mA	10...20 VDC 10...20 mA r. 20 mA	10 bits	Terminal block	TM3A12H	0.118 kg
240A00016	24 channels	-10...+10 VDC 0...20 mA r. 20 mA	10...20 VDC 10...20 mA r. 20 mA	10 bits	Terminal block	TM3A12H	0.118 kg
240A00017	24 channels	-10...+10 VDC 0...20 mA r. 20 mA	10...20 VDC 10...20 mA r. 20 mA	10 bits	Terminal block	TM3A12H	0.118 kg
240A00018	24 channels	-10...+10 VDC 0...20 mA r. 20 mA	10...20 VDC 10...20 mA r. 20 mA	10 bits	Terminal block	TM3A12H	0.118 kg
240A00019	24 channels	-10...+10 VDC 0...20 mA r. 20 mA	10...20 VDC 10...20 mA r. 20 mA	10 bits	Terminal block	TM3A12H	0.118 kg
240A00020	24 channels	-10...+10 VDC 0...20 mA r. 20 mA	10...20 VDC 10...20 mA r. 20 mA	10 bits	Terminal block	TM3A12H	0.118 kg



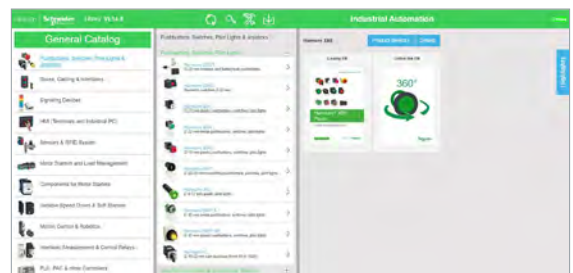
Each commercial reference presented in a catalog contains a hyperlink. Click on it to obtain the technical information of the product:

- Characteristics, Dimensions and drawings, Mounting and clearance, Connections and schemas, Performance curves
- Product image, Instruction sheet, User guide, Product certifications, End of life manual

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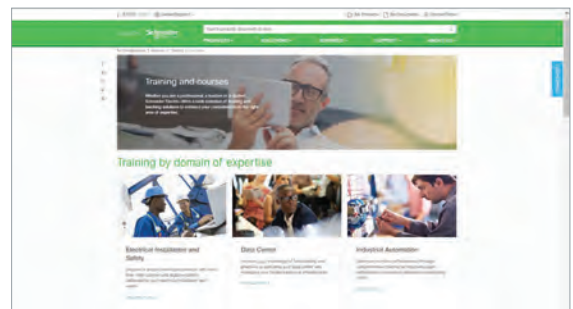


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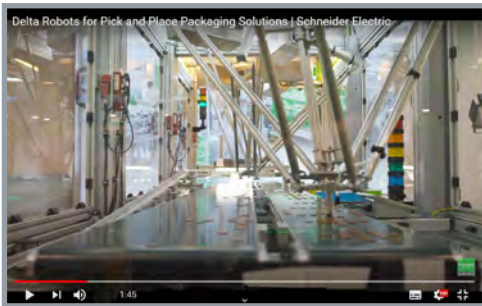
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Lexium T, P

Delta robots for pick & place solutions

Lexium T, Delta 2 robots



Delta Robots for Pick & Place Packaging Solutions (1 min.45 s)
[Click to open video](#)

Lexium T, P are Delta robotics solution developed as an add-on to the PacDrive automation solution system (1) and designed to satisfy rapidly growing customer demand for robots as an integral part of machine design, for example in packaging machinery.

Lexium T, Delta 2 robots

- Lexium T are Delta robots with 2-axis, for pick & place solutions, available with three sizes of work envelope:

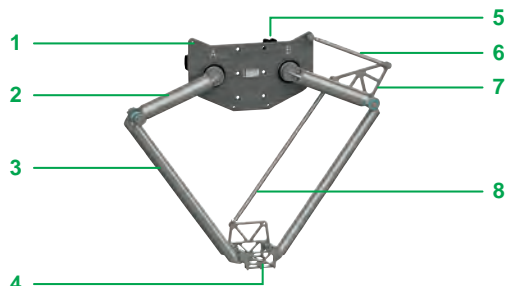
Work envelope	T series		
	T2	T3	T5
Diameter mm (in)	800 (31.5)	1,000 (39)	1,500 (59)
Max. height mm (in)	440 (17.3)	555 (22)	615 (24)

- Lexium T robots have a permanent permissible load of up to 60 kg (132 lb)
 - They are sold ready-to-use (pre-assembled, ready-to-connect mechanics)
 - They use conventional Lexium MH3 Motors with cabinet-mounted servo drives and Lexium 62 ILM integrated drives (1)
- An optional rotational motor can be installed at the tool center point

Specifications of Lexium T, Delta 2 robots

- > High precision and Highly dynamic response
- > Degree of protection up to IP64
- > Flexible mounting capabilities of the parallelogram arm
- > Flexible mounting by switching of the lower arms
- > Low noise level
- > Standard components for mechanisms and drives
- > Referenced ex-factory
- > Compact, angled gearboxes are also available
- > Easy-clean design

Description



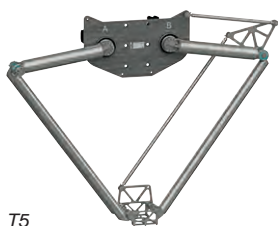
- Mounting plate
- Upper arm (primary arm)
- Lower arm (secondary arm)
- Parallel plate: mounting place of the gripper
- Motor/Gearbox
- Short parallel linkage rod
- Parallel linkage lever
- Long parallel linkage rod



T2



T3



T5

(1) Please refer to our [website](#) or refer to the catalogs listed below (click on [reference](#) to open the catalog)



[DIA7ED2160306EN](#)



[DIA7ED2160308EN](#)



[DIA7ED2160305EN](#)



[DIA7ED2170704EN](#)






[DIA3ED2180101EN](#)

Product reference structure for Lexium T, Delta 2 robots

	VRK	T●	●●	●	●●	00	000
Robot kinematics							
VRK							
Robot series							
T2	2-axis Delta 2 robot 800 mm (31.5 in)						
T3	2-axis Delta 2 robot 1,000 mm (39 in)						
T5	2-axis Delta 2 robot 1,500 mm (59 in)						
Sub series							
L0	ILM motors (T2, T3, T5)						
M0	MH3 motors (T2, T3, T5)						
M1	MH3 motors heavy duty (T2, T3, T5)						
WM	Without motor (T2, T3, T5)						
YY	Replacement equipment set						
Option							
R	Rotational axis installed						
F	Fixed, no rotational axis installed						
C	Customized version						
Y	Replacement equipment (Replacement equipment for customized edition = C)						
Variants							
NC	Normal, Compact (T2, T3, T5)						
YY	Replacement equipment						
Revision							
00	S00 (T2, T3, T5)						
Miscellaneous							
000	Without options						

Selection guide

Robot		Lexium T, Delta 2 robots		
Series		T2, T2 HD (1)	T3, T3 HD (1)	T5, T5 HD (1)
				
Number of axes		2-axis		
Work envelope	Max. width	800 mm (31.5 in)	1,000 mm (39 in)	1,500 mm (59 in)
	Max. height	440 mm (17.3 in)	555 mm (22 in)	615 mm (24 in)
	Unlimited rotation	-		
Permanent permissible load		40...60 kg (88...132 lb) (2)	35...50 kg (77...110 lb) (2)	30...45 kg (66...99 lb) (2)
Axis type		Fixed axis: no rotational axis installed		
Position repeatability (ISO 9283)		0.1 mm (0,0039 in)		
Cycles of inch-feet-inch path (max.)		148 cycles/min (3)	143 cycles/min (3)	134 cycles/min (3)
Maximum velocity		5.8 m/s (19 ft/s)	6 m/s (19.7 ft/s)	6.8 m/s (22.3 ft/s)
Maximum acceleration	for 1 kg (for 2.20 lb)	60 m/s ² (197 ft/s ²)	62 m/s ² (203 ft/s ²)	58 m/s ² (190 ft/s ²)
	for 1.5 kg (for 3.31 lb)	-	-	-
	for 10 kg (for 22.04 lb)	53 m/s ² (174 ft/s ²)	41 m/s ² (135 ft/s ²)	48 m/s ² (157 ft/s ²)
Variants		<ul style="list-style-type: none"> ■ Normal, compact ■ Lexium MH3 motors (4) ■ Lexium 62 ILM integrated drives (4) 		
Combined motor type	For Main axes			
Robot without motor		On request		
Reference		VRKT2●●FNC00000	VRKT3●●FNC00000	VRKT5●●FNC00000
See page		4		

(1) Heavy Duty version

(2) Loads above the maximum load are possible with restrictions

(3) Depending on the application, and on permissible load.

(4) See page 4 or refer to the catalog [DIA7ED2160308EN](#) (click on [reference](#) to open the catalog)

Lexium T, P

Delta robots for pick & place solutions

Lexium T, Delta 2 robots

Motors and integrated servo motors

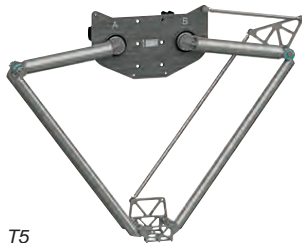
Lexium T, Delta 2 robots									
Series	Number of axes	Work envelope (operating travel)	Max. load	Option	Associated motor or servo motor	Variant	Clean-room	Reference	Weight kg/lb
T2 Compact	2	800 mm (31.50 in)	40 kg (88 lb)	Fixed axis	MH3 motor	–	–	VRKT2M0FNC00000	56.000/123.00
					Lexium 62 ILM – integrated drive	–	–	VRKT2L0FNC00000	64.000/141.00
					60 kg (132 lb)	Fixed axis	MH3 motor heavy duty	–	–
T3 Compact	2	1,000 mm (39 in)	35 kg (77 lb)	Fixed axis	MH3 motor	–	–	VRKT3M0FNC00000	60.000/132.28
					Lexium 62 ILM – integrated drive	–	–	VRKT3L0FNC00000	64.000/141.00
					50 kg (110 lb)	Fixed axis	MH3 motor heavy duty	–	–
T5 Compact	2	1,500 mm (59 in)	30 kg (66 lb)	Fixed axis	MH3 motor	–	–	VRKT5M0FNC00000	60.000/132.28
					Lexium 62 ILM – integrated drive	–	–	VRKT5L0FNC00000	65.000/143.30
					45 kg (99 lb)	Fixed axis	MH3 motor heavy duty	–	–



T2



T3



T5



MH3100●P02F2200



ILM1003P02F0000




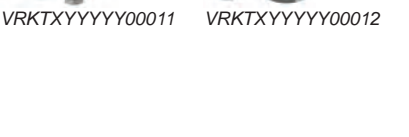

Motors for Lexium T, Delta 2 robots			
Designation	For use with robot-series	Reference	Weight kg/lb
Lexium MH3 motors with rotatable right-angled connectors	VRKT2M0FNC00000, VRKT3M0FNC00000, VRKT5M0FNC00000	MH31002P02F2200	6.400/14.11
	VRKT2M1FNC00000, VRKT3M1FNC00000, VRKT5M1FNC00000	MH31003P02F2200	8.150/17.97
Integrated servo motor (Lexium 62 ILM integrated drive)	VRKT2L0FNC00000, VRKT3L0FNC00000, VRKT5L0FNC00000	ILM1003P02F0000	8.900/19.62

Lexium T, P

Delta robots for pick & place solutions

Lexium T, Delta 2 robots

Replacement equipments

Replacement equipments for Lexium T, Delta 2 robots				
Designation	Description	For use with robot-series	Reference	Weight kg/lb
 VRKTXYYYYY00001	1x calibration tool	T2, T3, T5	VRKTXYYYYY00001	0.125/ 0.275
 VRKTXYYYYY00003	1x upper arm (primary arm) complete 1x indexing bolt gearing 11x screw upper arm (primary arm)	T2	VRKT2YYYYY00002	–
		T3	VRKT3YYYYY00002	3.600/ 7.936
		T5	VRKT5YYYYY00002	3.600/ 7.936
 VRKTXYYYYY00005	1x gearbox main axis 16x screw gearbox/mounting plate 4x screw motor/gearbox 1x indexing bolt gearbox	T2, T3, T5	VRKTXYYYYY00003	6.325/ 13.944
 VRKTXYYYYY00006	1x lower arm (secondary arm) complete 2x half shell 8x screw half shell	T2	VRKT2YYYYY00004	–
		T3	VRKT3YYYYY00004	2.550/ 5.621
		T5	VRKT5YYYYY00004	2.550/ 5.621
 VRKTXYYYYY00007	1x parallel plate complete	T2, T3, T5	VRKTXYYYYY00005	3.035/ 6.801
 VRKTXYYYYY00008	2x shaft complete with mounted bearings	T2, T3, T5	VRKTXYYYYY00006	1.075/ 2.369
 VRKT•YYYYY00007	1x linkage rod complete	T2	VRKT2YYYYY00007	–
		T3	VRKT3YYYYY00007	0.865/ 1.906
		T5	VRKT5YYYYY00007	0.865/ 1.906
 VRKTXYYYYY00009	1x linkage rod complete	T2	VRKT2YYYYY00008	–
		T3	VRKT3YYYYY00008	0.629/ 1.386
		T5	VRKT5YYYYY00008	0.629/ 1.386
 VRKTXYYYYY00011	1x lever with shaft and bearings	T2, T3, T5	VRKTXYYYYY00009	1.363/ 3.004
 VRKTXYYYYY00012	2x shell with mounted bearings 8x screw for shell	T2, T3, T5	VRKTXYYYYY00010	0.425/ 0.936
 VRKTXYYYYY00011	11x screw upper arm (primary arm)	T2, T3, T5	VRKTXYYYYY00011	1.760/ 3.880
 VRKTXYYYYY00012	2x mounting shaft lower arm (secondary arm) 1x distance ring	T2, T3, T5	VRKTXYYYYY00012	0.103/ 0.227

Lexium T, P

Delta robots for pick & place solutions

Lexium P, Delta 3 robots

Lexium P, Delta 3 robots

- Lexium P are Delta robots with 3 to 5-axis, for pick & place solutions, , capable to perform an unlimited rotation:
 - 3-axis robot: without rotational axis
 - 4-axis robot: with a rotational telescopic axis
 - 5-axis robot: with a double rotational module axis and rotational tilting module
- available with the following sizes of work envelope:



P0 Compact



P1 Compact



P2 Compact



P4 Compact



P5 Compact



P6 Compact

Work envelope	P series											
	P0		P1		P2		P4			P5		P6
	Compact	Extended	Compact	Extended	Compact	Standard	Standard	Flat	Compact	Compact	Compact	Extended
Diameter mm (in)	400 (15.8)		600 (23.6)		800 (31.5)		1,200 (47.24)			1,400 (55.11)		1,600 (62.9)
Max. height mm (in)	144 (5.67)	198 (7.8)	206 (8.11)	260 (10.24)	274 (10.80)	274 (10.80)	425 (16.73)	425 (16.73)	425 (16.73)	468 (18.42)	550 (21.65)	657 (25.86)

- Lexium P robots are characterized by their short cycle times and have a permanent permissible load of up to 15 kg (33 lb)
 - They are ready to use (pre-assembled and ready-to-connect mechanics) and also available as a customized version with a motor-gear unit for rotational axis as an alternative to the telescopic axis
 - They can be used for random and/or mixed product flow picking, when combined with a vision system
 - They can be equipped with Lexium SH3 servo motors and Lexium 62 ILM integrated drives (1). 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 motor
- The robot's mounting fixtures are located on the top (P4 Standard series), which reduces the occurrence of the robot arms colliding with the frame, even at extreme deflection
- The Rotational modules provide to Lexium P robots a higher torque and/or better repeatability
- The Double rotational modules provide to Lexium P robots the capability to rotate the gripper with one rotational axis and to perform clamp/unclamp movements with the second rotational axis
- The Tilting modules make it possible, for instance, to tilt products by 90° and raise them upright. The rotational movement of the motor shaft is converted into a tilting movement by a pre-mounted bevel gearbox
- The Rotational tilting modules offer a rotary movement of the gripper in addition to the tilting movement

Specifications of Lexium P, Delta 3 robots

- > High precision and Highly dynamic response
- > IP65 rated, sealed stainless steel design for pharmaceutical and food applications (IP69k for robots on the moving parts, version for cleanroom up to class 6 available)
- > Optimized tube/cable mounting through the parallel plate reduces occurrence of collision with products and machine parts
- > Suitable for washdown applications
- > Low noise level
- > Standard components for mechanisms and drives
- > Referenced ex-factory
- > Compact design for ceiling mounting
- > Three or four degrees of freedom with or without rotational axis
- > Patented, completely welded stainless steel lower arms, no gluing, adapted for usage with cleaning fluids
- > Re-referencing without additional tool ("Homing")

(1) Please refer to our [website](#) or refer to the catalogs listed below (Click on [reference](#) to open the catalog)



[DIA7ED2160306EN](#)



[DIA7ED2160308EN](#)



[DIA7ED2160305EN](#)

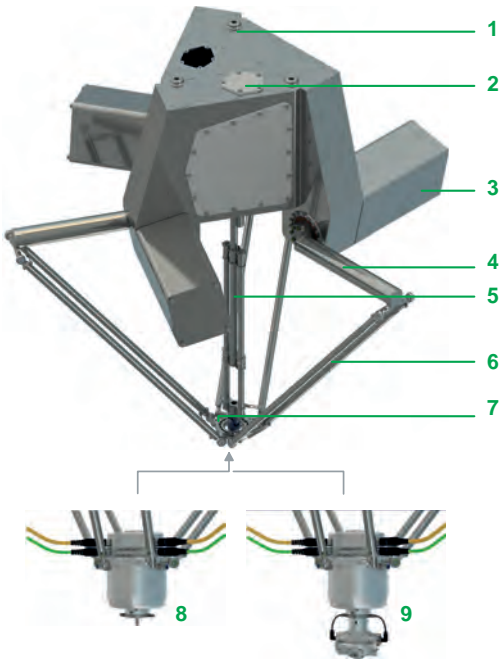


[DIA7ED2170704EN](#)



[DIA3ED2180101EN](#)

Description



- 1 Housing
- 2 Maintenance cover
- 3 Motor cover (covering motor and gearbox)
- 4 Upper arm (primary arm)
- 5 Telescopic axis
- 6 Lower arm (secondary arm)
- 7 Parallel plate: mounting place of the gripper.
Can be replaced with a rotational module 8 or a tilting module 9













Product reference structure for Lexium P, Delta 3 robots

	VRK	P●	●●	●	●●	00	●00
Robot kinematics							
VRK							
Robot series							
P0							
P1							
P2							
P4							
P5							
P6							
Sub series							
S0							
S4							
L0							
WM							
YY							
Option							
R							
F							
C							
Y							
Variants							
WD							
NF							
NO							
WF							
CW							
NC							
01							
YY							
Revision							
●●							
Miscellaneous							
●●●							
E00							

Lexium T, P

Delta robots for pick & place solutions

Lexium P, Delta 3 robots

Robot	Lexium P, Delta 3 robots														
Series	P0 Compact	P0 Extended	P1 Compact	P1 Extended	P2 Compact	P2 Standard		P4 Standard	P4 Flat	P4 Compact	P5 Compact	P6 Compact	P6 Extended		
															
Number of axes	3 5-axis														
Work envelope Diameter	400 mm (15.8 in)		600 mm (23.6 in)		800 mm (31.5 in)			1,200 mm (47.24 in)		1,400 mm (55.11 in)		1,600 mm (62.9 in)			
Max. height	144 mm (5.67 in)	198 mm (7.8 in)	206 mm (8.11 in)	260 mm (10.24 in)	274 mm (10.80 in)	274 mm (10.80 in)		425 mm (16.73 in)	425 mm (16.73 in)	425 mm (16.73 in)	468 mm (18.42 in)	550 mm (21.65 in)	657 mm (25.86 in)		
Unlimited rotation	Yes		Yes		Yes			Yes		Yes		Yes			
Permanent permissible load	Up to 10 kg (up to 22 lb)		Up to 10 kg (up to 22 lb)		Up to 15 kg (up to 33 lb)			Up to 15 kg (up to 33 lb)		Up to 15 kg (up to 33 lb)		Up to 10 kg (up to 22 lb) Up to 15 kg (up to 33 lb) (3)			
Axis type	<ul style="list-style-type: none"> Fixed axis: no rotational axis installed Optional rotational axis: 		<ul style="list-style-type: none"> Fixed axis: no rotational axis installed Optional rotational axis: 		<ul style="list-style-type: none"> Fixed axis: no rotational axis installed Optional rotational axis: 			<ul style="list-style-type: none"> Fixed axis: no rotational axis installed Optional rotational axis: 		<ul style="list-style-type: none"> Fixed axis: no rotational axis installed Optional rotational axis: 		<ul style="list-style-type: none"> Fixed axis: no rotational axis installed Optional rotational axis: 			
Position repeatability (ISO 9283)	0.05 mm (0.0020 in)		0.05 mm (0.0020 in)		0.1 mm (0.0039 in)			0.1 mm (0.0039 in)		0.1 mm (0.0039 in)		0.1 mm (0.0039 in)			
Cycles of inch-feet-inch path (max.)	250 cycles/min (2)	244 cycles/min (2)	232 cycles/min (2)	223 cycles/min (2)	250 cycles/min (2)			208 cycles/min (2)		205 cycles/min (2)		180 cycles/min (2)			
Maximum velocity	6 m/s (19.7 ft/s)	6 m/s (19.7 ft/s)	6 m/s (19.7 ft/s)	6 m/s (19.7 ft/s)	10 m/s (33 ft/s)			10 m/s (33 ft/s)		10 m/s (33 ft/s)		10 m/s (33 ft/s)			
Maximum acceleration	for 1 kg (for 2.20 lb) 125 m/s ² (410 ft/s ²)		125 m/s ² (410 ft/s ²)		120 m/s ² (394 ft/s ²)			100 m/s ² (328 ft/s ²)		90 m/s ² (295 ft/s ²)		80 m/s ² (262 ft/s ²)			
	for 1.5 kg (for 3.31 lb) 120 m/s ² (394 ft/s ²)		120 m/s ² (394 ft/s ²)		90 m/s ² (295 ft/s ²)			75 m/s ² (246 ft/s ²)		70 m/s ² (230 ft/s ²)		60 m/s ² (197 ft/s ²)			
	for 10 kg (for 22.04 lb) (3)		(3)		(3)			(3)		(3)		(3)			
Variants	<ul style="list-style-type: none"> Normal, Compact 		<ul style="list-style-type: none"> Normal, Compact 		<ul style="list-style-type: none"> Normal, Compact Cleanroom, washdown 			<ul style="list-style-type: none"> Standard housing, washdown Standard housing, not washdown Cleanroom, washdown 		<ul style="list-style-type: none"> Flat housing, not washdown Flat housing, washdown 		<ul style="list-style-type: none"> Normal, Compact 		<ul style="list-style-type: none"> Normal, Compact 	
Combined motor type	<ul style="list-style-type: none"> Lexium SH3 motors (4) 		<ul style="list-style-type: none"> Lexium SH3 motors (4) 		<ul style="list-style-type: none"> Lexium SH3 motors (4) Lexium 62 ILM integrated drives (4) 			<ul style="list-style-type: none"> Lexium SH3 motors (4) Lexium 62 ILM integrated drives (4) 		<ul style="list-style-type: none"> Lexium SH3 motors (4) Lexium 62 ILM integrated drives (4) 		<ul style="list-style-type: none"> Lexium SH3 motors (4) Lexium 62 ILM integrated drives (4) 			
For the rotational axis	<ul style="list-style-type: none"> Lexium MH3 motors (4) 		<ul style="list-style-type: none"> Lexium MH3 motors (3) 		<ul style="list-style-type: none"> Lexium SH3 motors (4) Lexium 62 ILM integrated drives (4) 			<ul style="list-style-type: none"> Lexium SH3 motors (4) Lexium 62 ILM integrated drives (4) 		<ul style="list-style-type: none"> Lexium SH3 motors (4) Lexium 62 ILM integrated drives (4) 		<ul style="list-style-type: none"> Lexium SH3 motors (4) Lexium 62 ILM integrated drives (4) 			
Robot without motor	On request		On request		On request			On request		On request		On request			
Reference	VRKP0●●●NC00000	VRKP0●●●NC●●E00	VRKP1●●●NC00000	VRKP1●●●NC●●E00	VRKP2●●●NC00000	VRKP2●●●WD00000		VRKP4●●●WD00000 VRKP4●●●CW00000 VRKP4●●●NO00000	VRKP4●●●WF00000 VRKP4●●●NF00000	VRKP4●●●NC00000	VRKP5S0●NC00000 VRKP5L0●NC00000	VRKP6S0●NC00000 VRKP6L0●NC00000	VRKP6S0●NC00E00		
See page	10		10		10			10		10		11			

(1) Heavy Duty version
 (2) Depending on the application, and on permissible load
 (3) Loads above the maximum load are possible with restrictions
 (4) See page 15 or refer to the catalog [DIA7ED2160308EN](#) (Click on reference to open the catalog)

Lexium T, P

Delta robots for pick & place solutions

Lexium P, Delta 3 robots



P0 Compact



P0 Extended



P1 Compact



P1 Extended



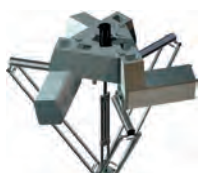
P2 Compact



P2 Standard



P4 Standard



P4 Flat



P4 Compact

Lexium P, Delta 3 robots									
Series	Number of axes	Work envelope (operating travel)	Max. load	Option	Associated motor or servo motor	Variant	Clean-room	Reference	Weight kg / lb
P0 Compact	3...5	400 mm (15.7 in)	10 kg (22 lb)	Fixed axis	SH3 motor	–	–	VRKP0S0FNC00000	27.600 / 60.85
		400 mm (15.7 in)	10 kg (22 lb)	Rotational axis	MH3 motor	–	–	VRKP0S0RNC00000	
P0 Extended	3...5	400 mm (15.7 in)	10 kg (22 lb)	Fixed axis	SH3 motor	–	–	VRKP0S0FNC00E00	27.800 / 61.29
		400 mm (15.7 in)	10 kg (22 lb)	Rotational axis	MH3 motor	–	–	VRKP0S0RNC00E00	
P1 Compact	3...5	600 mm (23.6 in)	10 kg (22 lb)	Fixed axis	SH3 motor	–	–	VRKP1S0FNC00000	27.900 / 61.51
		600 mm (23.6 in)	10 kg (22 lb)	Rotational axis	MH3 motor	–	–	VRKP1S0RNC00000	
P1 Extended	3...5	600 mm (23.6 in)	10 kg (22 lb)	Fixed axis	SH3 motor	–	–	VRKP1S0FNC00E00	28.300 / 62.39
		600 mm (23.6 in)	10 kg (22 lb)	Rotational axis	MH3 motor	–	–	VRKP1S0RNC00E00	
P2 Compact	3...5	800 mm (31.50 in)	15 kg (33 lb)	Fixed axis	SH3 motor	–	–	VRKP2S0FNC00000	70.000 / 154.32
		800 mm (31.50 in)	15 kg (33 lb)	Fixed axis	Lexium 62 ILM integrated drive	–	–	VRKP2L0FNC00000	
		800 mm (31.50 in)	15 kg (33 lb)	Rotational axis	SH3 motor	–	–	VRKP2S0RNC00000	
		800 mm (31.50 in)	15 kg (33 lb)	Rotational axis	Lexium 62 ILM integrated drive	–	–	VRKP2L0RNC00000	
P2 Standard	3...5	800 mm (31.50 in)	15 kg (33 lb)	Fixed axis	SH3 motor	Washdown	–	VRKP2S0FWD00000	110.000 / 242.51
		800 mm (31.50 in)	15 kg (33 lb)	Rotational axis	SH3 motor	Washdown	–	VRKP2S0RWD00000	
P4 Standard	3...5	1,200 mm (47.24 in)	15 kg (33 lb)	Fixed axis	SH3 motor	Washdown	–	VRKP4S0FWD00000	120.000 / 264.55
					SH3 motor	Washdown	Yes	VRKP4S0FCW00000	
					Lexium 62 ILM integrated drive	Not washdown	–	VRKP4L0FNO00000	
				Rotational axis	SH3 motor	Washdown	–	VRKP4S0RWD00000	
					SH3 motor	Washdown	Yes	VRKP4S0RCW00000	
					Lexium 62 ILM integrated drive	Not washdown	–	VRKP4L0RNO00000	
P4 Flat	3...5	1,200 mm (47.24 in)	15 kg (33 lb)	Fixed axis	SH3 motor	Washdown	–	VRKP4S0FWF00000	110.000 / 242.51
					Lexium 62 ILM integrated drive	Not washdown	–	VRKP4L0FNF00000	
				Rotational axis	SH3 motor	Washdown	–	VRKP4S0RWF00000	
					Lexium 62 ILM integrated drive	Not washdown	–	VRKP4L0RNF00000	
P4 Compact	3...5	1,200 mm (47.24 in)	15 kg (33 lb)	Fixed axis	SH3 motor	–	–	VRKP4S0FNC00000	75.000 / 165.34
					Lexium 62 ILM integrated drive	–	–	VRKP4L0FNC00000	
				Rotational axis	SH3 motor	–	–	VRKP4S0RNC00000	
					Lexium 62 ILM integrated drive	–	–	VRKP4L0RNC00000	

Lexium T, P

Delta robots for pick & place solutions

Lexium P, Delta 3 robots

Lexium P, Delta 3 robots (continued)										
Series	Number of axes	Work envelope (operating travel)	Max. load	Option	Associated motor or servo motor	Variant	Clean-room	Reference	Weight	
									kg lb	
 P5 Compact	3...5	1,400 mm (55.11 in)	15 kg (33 lb)	Fixed axis	SH3 motor	–	–	VRKP5S0FNC00000	80.000 176.36	
					Lexium 62 ILM integrated drive	–	–	VRKP5L0FNC00000		
					Rotational axis	SH3 motor	–	–		VRKP5S0RNC00000
					Lexium 62 ILM integrated drive	–	–	VRKP5L0RNC00000		
 P6 Compact	3...5	1,600 mm (62.9 in)	10 kg (22 lb) (1)	Fixed axis	SH3 motor	–	–	VRKP6S0FNC00000	80.000 176.36	
					Lexium 62 ILM integrated drive	–	–	VRKP6L0FNC00000		
					Rotational axis	SH3 motor	–	–		VRKP6S0RNC00000
					Lexium 62 ILM integrated drive	–	–	VRKP6L0RNC00000		
 P6 Extended	3...5	1,600 mm (62.9 in)	10 kg (22 lb) (1)	Fixed axis	SH3 motor	–	–	VRKP6S0FNC00E00	80.000 176.36	
				Rotational axis	SH3 motor	–	–	VRKP6S0RNC00E00		

(1) Up to 15 kg (33 lb) with restrictions.

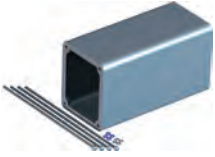

















Lexium T, P

Delta robots for pick & place solutions

Lexium P, Delta 3 robots

Standard replacement equipments

Standard replacement equipments for Lexium P, Delta 3 robots

Designation	Description	For use with robot-series	Reference	Weight kg lb
 VRKP4YYYYY00001	 VRKP4YYYYY00002	1x motor cover 4x threaded rod 4x sealing washer 4x captive washer	VRKP2●●●WD VRKP4●●●WD, VRKP4●●●NO, VRKP4●●●CW, VRKP4●●●WF VRKP4●●●NF	VRKP4YYYYY00001 –
 VRKP4YYYYY00003	 VRKP4YYYYY00006	1x upper arm complete 1x indexing bolt gearing 7x titanium screw upper arm	P0 P1 P2 P4 P5 P6	VRKP0YYYYY00002 VRKP1YYYYY00002 VRKP2YYYYY00002 VRKP4YYYYY00002 VRKP5YYYYY00002 VRKP6YYYYY00002 2.360 5.202
 VRKP4YYYYY00010	 VRKP4YYYYY00012	1x gearbox main axis 16x screw gearbox to housing 16x lock washer gearbox to housing 4x screw motor to gearbox 1x indexing bolt gearbox 1x quad ring 1x PEing cap for motor	P0, P1 P2, P4, P5, P6, P6 Extended	VRKP1YYYYY00003 VRKP4YYYYY00003 – –
 VRKP4YYYYY00011	 VRKP4YYYYY00015	1x parallel plate with ball pins	All Lexium P robots	VRKP4YYYYY00006 –
 VRKP4YYYYY00014	 VRKP4YYYYY00015	3x lower tube 16 1x upper tube 20	P0 P0 Extended P1 P1 Extended P2 P4 P5 P6 P6 Extended	VRKP0YYYYY00010 VRKP0YYYYY00E10 VRKP1YYYYY00010 VRKP1YYYYY00E10 VRKP2YYYYY00010 VRKP4YYYYY00010 VRKP5YYYYY00010 VRKP6YYYYY00010 VRKP6YYYYY00E10 1.250 2.755
 VRKP4YYYYY00011	 VRKP4YYYYY00012	1x clamping cone, large 1x clamping sleeve, large 1x washer, large 6x washer, small 6x clamping cone, small 6x clamping sleeve, small 1x cover for universal joint 7x 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	All Lexium P robots	VRKP4YYYYY00011 –
 VRKP4YYYYY00014	 VRKP4YYYYY00015	3x slide film 20 mm 9x slide film 16 mm	All Lexium P robots	VRKP4YYYYY00012 –
 VRKP4YYYYY00014	 VRKP4YYYYY00015	1x gearbox rotational axis 1x O-ring rotational motor 4x sealing washer for rotational motor 4x screw motor to gearbox 4x screw gearbox rotational axis to housing	All Lexium P robots	VRKP4YYYYY00014 –
 VRKP4YYYYY00014	 VRKP4YYYYY00015	1x maintenance cover 14x screw for maintenance cover 14x sealing washer for maintenance cover	VRKP2●●●WD VRKP4●●●WD, VRKP4●●●NO, VRKP4●●●CW	VRKP4YYYYY00015 –

Lexium T, P

Delta robots for pick & place solutions

Lexium P, Delta 3 robots

Standard replacement equipments



VRKP4YYYYY00016

VRKP4YYYYY00017



VRKP4YYYYY00018



VRKP4YYYYY00019



VRKP4YYYYY00020



VRKP4YYYYY00021



VRKP4YYYYY00022



VRKP4YYYYY00024



VRKP4YYYYY00025

Standard replacement equipments for Lexium P, Delta 3 robots

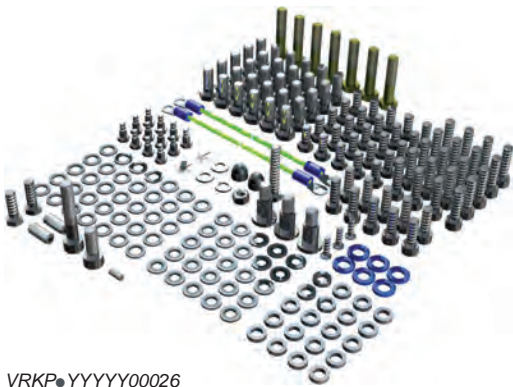
Designation	Description	For use with robot-series	Reference	Weight kg lb
Cable gland with covers and fasteners	1x cable gland M16 PVDF 1x counter nut M16 1x sealing ring PE M16 2x cable gland M50 PVDF 2x counter nut M50 2x sealing ring PE M50 1x sealing insert 4x13 1x sealing insert 7x9 1x lock bolt 13 4x lock bolt 9 1x media cover 50 1x media cover 5016 10x screw for media cover 10x sealing washer for screw media cover	VRKP2●●●WD, VRKP4●●●WD, VRKP4●●●NO, VRKP4●●●CW	VRKP4YYYYY00016	–
Motor cover with fasteners, without seals	1x motor cover VRKP4●●●NO 4x screw-threaded rod 4x sealing washer for screw-threaded rod 4x lock washer	VRKP4●●●WD VRKP4●●●CW VRKP4●●●WF VRKP4●●●NF VRKP4●●●NO	VRKP4YYYYY00017	–
Media covers with fasteners, without seal	2x media cover blank 10x screw media cover 10x sealing washer for screw media cover	VRKP2●●●WD, VRKP4●●●WD, VRKP4●●●CW, VRKP4●●●WF, VRKP4●●●NF, VRKP4●●●NO	VRKP4YYYYY00018	–
Closing for the fourth axis, cover with fastener and sealing	1x cover rotational axis 1x O-ring central motor 4x sealing washer central motor 4x screw cover rotational axis	VRKP2●●●WD, VRKP4●●●WD, VRKP4●●●CW, VRKP4●●●WF, VRKP4●●●NF, VRKP4●●●NO	VRKP4YYYYY00019	–
Sealing set for the maintenance cover, motor cover and media cover	1x sealing gasket for maintenance cover 1x sealing gasket for motor cover 1x sealing gasket for media cover	VRKP2●●●WD, VRKP4●●●WD, VRKP4●●●NO, VRKP4●●●CW	VRKP4YYYYY00020	–
Seals for gearboxes	6x Quand ring main axis motor 2x O-ring rotational axis motor	VRKP2●●●WD, VRKP4●●●WD, VRKP4●●●CW, VRKP4●●●WF, VRKP4●●●NF, VRKP4●●●NO	VRKP4YYYYY00021	–
Screw set for one upper arm (primary arm)	7x titanium screw for upper arm (primary arm)	P0, P1 P2, P4, P5, P6, P6 Extended	VRKP1YYYYY00022 VRKP4YYYYY00022	– –
Ball pins (set for one robot)	12x ball pins	All Lexium P robots	VRKP4YYYYY00024	–
Ball sockets (set for one robot)	12x ball sockets	All Lexium P robots	VRKP4YYYYY00025	–

Lexium T, P

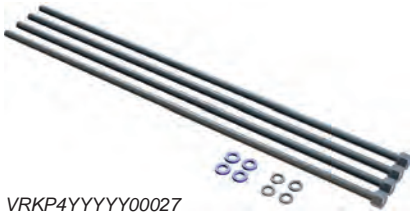
Delta robots for pick & place solutions

Lexium P, Delta 3 robots

Standard replacement equipment



VRKP●YYYYY00026



VRKP4YYYYY00027



VRKP4YYYYY00028



VRKP4YYYYY00029



VRKP●YYYYY00032



VRKP●YYYYY00033



VRKP●YYYYY00037

Standard replacement equipment for Lexium P, Delta 3 robots

Designation	Description	For use with robot-series	Reference	Weight kg / lb
Set of small parts	12x bolt lower arm	P0, P1	VRKP1YYYYY00026	–
	2x sticker lower arm	P2, P4, P5, P6	VRKP4YYYYY00026	–
	25x sealing washer for rotational motor/covering housing			
	35x sealing washer for maintenance cover / media cover/ motor cover			
	2x washer for PE connection			
	2x bolt for rotational motor			
	10x screw for rotational motor to gearbox / main motor to gearbox / universal joint small			
	7x titanium bolt for upper arm			
	1x straight pin universal joint			
	1x clamping screw universal joint			
2x screw for universal joint large / clamping universal joint titan				
3x countersunk head screw for universal joint				
30x screw for gearbox to housing				
25x bolt for rotational motor				
2x indexing bolt for gearbox				
2x nut PE				
1x spring ring PE				
1x bolt PE				
30x bolt for maintenance cover/ media cover / clamping				
3x flat head screw for motor cover				
6x captive washer for motor cover				
2x PE cap for motor				
Fasteners for motor cover	4x threaded rod	VRKP2●●●WD, VRKP4●●●WD, VRKP4●●●CW, VRKP4●●●WF, VRKP4●●●NF, VRKP4●●●NO	VRKP4YYYYY00027	–
	4x sealing washer for threaded rod			
	4x lock washer			
Fan with fastening clips	12x clamping clips	VRKP2●●●WD, VRKP4●●●WD, VRKP4●●●CW, VRKP4●●●WF, VRKP4●●●NF, VRKP4●●●NO	VRKP4YYYYY00028	–
	3x fan 80x25 24 V			
	6x wire ends			
Titanium parallel plate with bearing and ball pins	1x titanium parallel plate with bearing and ball pins	All Lexium P robots	VRKP4YYYYY00029	–
Set of small parts (set for one robot)	6x spring	P0, P0 Extended, P1	VRKP1YYYYY00032	0.650
	12x spring bracket	P1 Extended, P2, P4, P5, P6	VRKPXYYYYY00032	1.433
	24x roll			
Telescopic axis mounted with universal joints (Heavy Duty)	24x screw			
	1x telescopic axis triple	P0	VRKP0YYYYY00033	1.550
		P0 Extended	VRKP0YYYYY00E33	3.417
		P1	VRKP1YYYYY00033	
		P1 Extended	VRKP1YYYYY00E33	
		P2	VRKP2YYYYY00033	
		P4	VRKP4YYYYY00033	
		P5	VRKP5YYYYY00033	
		P6	VRKP6YYYYY00033	
		P6 Extended	VRKP6YYYYY00E33	
Lower arm pair (secondary arms) with rolls	2x lower arm complete	P0	VRKP0YYYYY00037	1.000
	2x single spring	P0 Extended, P1	VRKP1YYYYY00037	2.204
		P1 Extended, P2	VRKP2YYYYY00037	
		P4	VRKP4YYYYY00037	
		P5	VRKP5YYYYY00037	
		P6	VRKP6YYYYY00037	
		P6 Extended	VRKP6YYYYY00E37	

Lexium T, P

Delta robots for pick & place solutions

Lexium P, Delta 3 robots

Standard replacement equipment, Motors



VRKPXXXXXX00040



VRKPXXXXXX00043



VRKP4YYYYY00044



MH30701P02F2200



SH30702P02F2000



ILM0702P02F0000



SH30553P02F2000



SH30703P02F2000



ILM0703P02F0000

Standard replacement equipment for Lexium P, Delta 3 robots

Designation	Description	For use with robot-series	Reference	Weight kg lb
Plain bearing for titanium universal joints of triple telescopic axis	10x plain bearing 10x screw 2x washer	All Lexium P robots	VRKPXXXXXX00040	0.100 0.22
Titanium upper universal joint with fasteners	1x upper universal joint titanium 1x clamping screw upper universal joint	All Lexium P robots	VRKPXXXXXX00043	-
Titanium lower universal joint with fasteners and indexing bolt	1x lower universal joint titanium 6x countersunk screw universal joint 2x straight pin universal joint	All Lexium P robots	VRKPXXXXXX00044	-

Motors for Lexium P, Delta 3 robots

Designation	For use with robot-series	Reference	Weight kg lb
Motors for rotational axis			
Lexium MH3 motors	P0, P0 Extended, P1, P1 Extended	MH30701P02F2200	2.600 5.73
Lexium SH3 motors	VRKP2S0R●●00000, VRKP4S0R●●00000, VRKP5S0R●●00000, VRKP6S0R●●00000	SH30702P02F2000	3.000 6.61
Integrated servo motors (Lexium 62 ILM integrated drive)	P2, P4, P5, P6, P6 Extended	ILM0702P02F0000	3.700 8.16
Motors for Main axis			
Lexium SH3 motors	P0, P1	SH30553P02F2000	1.900 4.19
	P2, P4, P5, P6, P6 Extended	SH30703P02F2000	3.800 8.38
Integrated servo motors (Lexium 62 ILM integrated drive)	P2, P4, P5, P6, P6 Extended	ILM0703P02F0000	4.700 10.36

Lexium T, P

Delta robots for pick & place solutions

Lexium P, Delta 3 robots

Optional equipments



VRKP●YYYYY00004



VRKP4YYYYY00005



VRKP●YYYYY00007



VRKP4YYYYY00008



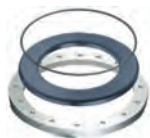
VRKP4YYYYY00009



VRKP4YYYYY00013



VRKP4YYYYY00023



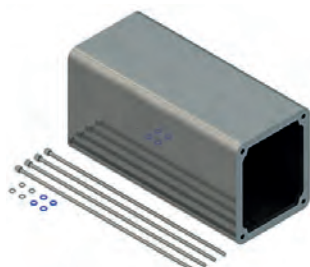
VRKPXXXXXX00030



VRKPXXXXXX00031



VRKPXXXXXX00035



VRKP●YYYYY00036

Optional equipments for Lexium P, Delta 3 robots

Designation	Description	For use with robot-series	Reference	Weight kg/lb
Lower arms pair (secondary arms) with rolls, sockets, and springs	2x lower arm, complete 4x springs	P2	VRKP2YYYYY00004	1.750/ 3.858
		P4	VRKP4YYYYY00004	
		P5	VRKP5YYYYY00004	
		P6	VRKP6YYYYY00004	
		P6 Extended	VRKP6YYYYY00E04	
Stainless steel parallel plate with bearing and ball pins	1x parallel plate with bearing and ball pins	All Lexium P robots	VRKP4YYYYY00005	–
Telescopic axis Double with universal joints	1x telescopic axis double, complete	P2	VRKP2YYYYY00007	1.950/ 4.299
		P4	VRKP4YYYYY00007	
		P5	VRKP5YYYYY00007	
		P6	VRKP6YYYYY00007	
		P6 Extended	VRKP6YYYYY00E07	
Plastic upper universal joint with fasteners	1x plastic upper universal joint 1x clamping screw for upper universal joint	All Lexium P robots	VRKP4YYYYY00008	–
Plastic lower universal joint with fasteners and indexing bolt	1x plastic lower universal joint 6x countersunk screw for universal joint 1x straight pin for universal joint	All Lexium P robots	VRKP4YYYYY00009	–
Food grade slide films	3x slide film 20 mm 9x slide film 16 mm	All Lexium P robots	VRKP4YYYYY00013	–
Springs, rolls and fasteners (set for one robot)	12x springs 24x roll 24x screw	All Lexium P robots	VRKP4YYYYY00023	–
Protector cap for main axis (set for one robot)	3x protector cap 3x supporting ring 3x O-ring for protector cap 48x screw for protector cap 48x sealing washer	All Lexium P robots	VRKPXXXXXX00030	1.200/ 2.645
Gearbox leakage protection for main axis with fasteners	1x protection box for gearbox 1x output-flange-extension 8x screw for output-flange-extension 4x screw for protection box/gearbox 12x screw for protection box/housing	P2, P4, P5, P6	VRKPXXXXXX00031	4.400/ 9.700
Impact plate for the main axis with fasteners (set for one robot)	3x impact plate 12x screw for impact plate 48x sealing washer	All Lexium P robots	VRKPXXXXXX00035	–
Motor cover extended with fasteners without sealing	1x motor cover extended 4x threaded rod 4x sealing washer 4x lock washer	VRKP2●●●WD, VRKP4●●●WD, VRKP4●●●CW, VRKP4●●●WF, VRKP4●●●NF, VRKP4●●●NO	VRKPXXXXXX00036	6.300/ 13.889

Lexium T, P

Delta robots for pick & place solutions

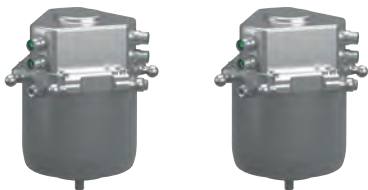
Lexium P, Delta 3 robots

Optional equipments, Cables



VRKPXXXXXX00045

VRKPXXXXXX00046

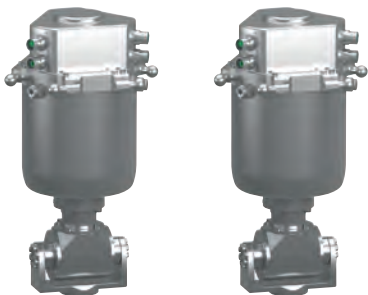


VRKPXXXXXX00038

VRKPXXXXXX00049



VRKPXXXXXX00039



VRKPXXXXXX00041

VRKPXXXXXX00050



VRKPXXXXXX00053

VRKPXXXXXX00052



VW3E2100R030
VW3E2100R043



VW3E1168R030
VW3E1168R043

Optional equipments for Lexium P, Delta 3 robots

Designation	Description	For use with robot-series	Reference	Weight kg/lb
Rotational module B	1x rotational module with brake (1)	All Lexium P robots	VRKPXXXXXX00045	3.500/ 7.716
Rotational module HT-B	1x rotational module High torque with brake (1)	All Lexium P robots	VRKPXXXXXX00046	3.500/ 7.716
Double rotational module	1x double rotational module (1)	All Lexium P robots	VRKPXXXXXX00038	4.000/ 8.818
Double rotational module HD	1x double rotational module for Heavy duty (1)	All Lexium P robots	VRKPXXXXXX00049	4.000/ 8.818
Rotational tilting module	1x rotational tilting module (1)	All Lexium P robots	VRKPXXXXXX00039	4.800/ 10.582
Rotational tilting module HD	1x rotational tilting module for Heavy duty (1)	All Lexium P robots	VRKPXXXXXX00041	5.400/ 11.904
Rotational tilting module HD-B	1x rotational tilting module for Heavy duty with brake (1)	All Lexium P robots	VRKPXXXXXX00050	5.700/ 12.566
Tilting module B	1x tilting module with brake	All Lexium P robots	VRKPXXXXXX00053	4.300 9.479
Tilting module HT-B-HD	1x tilting module High torque for Heavy duty with brake	All Lexium P robots	VRKPXXXXXX00052	5.000 11.023

Cables for optional modules

Designation	Description	Length m (ft)	For use with robot-series	Reference	Weight kg/lb
Encoder extension cables	For cabling the rotational, double rotational modules and tilting modules	3 (9.842)	P0, P1, P2, P4	VW3E2100R030	0.475/ 1.047
		4.3 (14)	P5, P6	VW3E2100R043	–
Power extension cables	For cabling the rotational, double rotational modules and tilting modules	3 (9.842)	P0, P1, P2, P4	VW3E1168R030	0.590/ 1.300
		4.3 (14)	P5, P6	VW3E1168R043	–

(1) Max. load: 1.500 kg (3.3 lb). Degree of protection: IP54

I					
ILM0702P02F0000	4	VRKP4YYYYY00001	10	VRKPXXXXXX00038	14
ILM0703P02F0000	4	VRKP4YYYYY00002	11	VRKPXXXXXX00039	14
ILM1003P02F0000	4	VRKP4YYYYY00003	11	VRKPXXXXXX00040	14
		VRKP4YYYYY00004	11	VRKPXXXXXX00041	14
M		VRKP4YYYYY00005	11	VRKPXXXXXX00043	15
MH30701P02F2200	4	VRKP4YYYYY00006	11	VRKPXXXXXX00044	15
MH31002P02F2200	4	VRKP4YYYYY00007	11	VRKPXXXXXX00045	15
MH31003P02F2200	4	VRKP4YYYYY00008	11	VRKPXXXXXX00046	15
		VRKP4YYYYY00009	11	VRKPXXXXXX00049	15
S		VRKP4YYYYY00010	11	VRKPXXXXXX00050	15
SH30553P02F2000	4	VRKP4YYYYY00011	11	VRKPXXXXXX00052	15
SH30702P02F2000	4	VRKP4YYYYY00012	12	VRKPXXXXXX00053	15
SH30703P02F2000	4	VRKP4YYYYY00013	12	VRKT2L0FNC00000	15
		VRKP4YYYYY00014	12	VRKT2M0FNC00000	16
V		VRKP4YYYYY00015	12	VRKT2M1FNC00000	16
VRKP0S0FNC00000	4	VRKP4YYYYY00016	12	VRKT2YYYYY00002	16
VRKP0S0FNC00E00	4	VRKP4YYYYY00017	12	VRKT2YYYYY00004	16
VRKP0S0RNC00000	4	VRKP4YYYYY00018	12	VRKT2YYYYY00007	16
VRKP0S0RNC00E00	5	VRKP4YYYYY00019	12	VRKT2YYYYY00008	16
VRKP0YYYYY00002	5	VRKP4YYYYY00020	12	VRKT3L0FNC00000	16
VRKP0YYYYY00010	5	VRKP4YYYYY00021	12	VRKT3M0FNC00000	16
VRKP0YYYYY00033	5	VRKP4YYYYY00022	12	VRKT3M1FNC00000	16
VRKP0YYYYY00037	5	VRKP4YYYYY00023	12	VRKT3YYYYY00002	16
VRKP0YYYYY00E10	5	VRKP4YYYYY00024	12	VRKT3YYYYY00004	16
VRKP0YYYYY00E33	5	VRKP4YYYYY00025	12	VRKT3YYYYY00007	16
VRKP1S0FNC00000	5	VRKP4YYYYY00026	12	VRKT3YYYYY00008	16
VRKP1S0FNC00E00	5	VRKP4YYYYY00027	12	VRKT5L0FNC00000	16
VRKP1S0RNC00000	5	VRKP4YYYYY00028	12	VRKT5M0FNC00000	16
VRKP1S0RNC00E00	5	VRKP4YYYYY00029	12	VRKT5M1FNC00000	16
VRKP1YYYYY00002	5	VRKP4YYYYY00033	12	VRKT5YYYYY00002	16
VRKP1YYYYY00003	5	VRKP4YYYYY00037	12	VRKT5YYYYY00004	16
VRKP1YYYYY00010	5	VRKP4YYYYY00037	12	VRKT5YYYYY00007	16
VRKP1YYYYY00022	5	VRKP5L0FNC00000	12	VRKT5YYYYY00008	17
VRKP1YYYYY00026	5	VRKP5LORNC00000	12	VRKTXYYYYY00001	17
VRKP1YYYYY00032	5	VRKP5S0FNC00000	12	VRKTXYYYYY00003	17
VRKP1YYYYY00033	5	VRKP5S0RNC00000	13	VRKTXYYYYY00005	17
VRKP1YYYYY00037	5	VRKP5YYYYY00002	13	VRKTXYYYYY00006	17
VRKP1YYYYY00E10	5	VRKP5YYYYY00004	13	VRKTXYYYYY00009	17
VRKP1YYYYY00E33	10	VRKP5YYYYY00007	13	VRKTXYYYYY00010	17
VRKP2L0FNC00000	10	VRKP5YYYYY00010	13	VRKTXYYYYY00011	17
VRKP2L0RNC00000	10	VRKP5YYYYY00033	13	VRKTXYYYYY00012	17
VRKP2S0FNC00000	10	VRKP5YYYYY00037	13	VW3E1168R030	17
VRKP2S0FWD00000	10	VRKP6L0FNC00000	13	VW3E1168R043	17
VRKP2S0RNC00000	10	VRKP6LORNC00000	13	VW3E2100R030	17
VRKP2S0RWD00000	10	VRKP6S0FNC00000	13	VW3E2100R043	17
VRKP2YYYYY00002	10	VRKP6S0FNC00E00	14		
VRKP2YYYYY00004	10	VRKP6S0RNC00000	14		
VRKP2YYYYY00007	10	VRKP6S0RNC00E00	14		
VRKP2YYYYY00010	10	VRKP6YYYYY00002	14		
VRKP2YYYYY00033	10	VRKP6YYYYY00004	14		
VRKP2YYYYY00037	10	VRKP6YYYYY00007	14		
VRKP4L0FNC00000	10	VRKP6YYYYY00010	14		
VRKP4L0FNF00000	10	VRKP6YYYYY00033	14		
VRKP4L0FNO00000	10	VRKP6YYYYY00037	14		
VRKP4L0RNC00000	10	VRKP6YYYYY00E04	14		
VRKP4L0RNF00000	10	VRKP6YYYYY00E07	14		
VRKP4L0RNO00000	10	VRKP6YYYYY00E10	14		
VRKP4S0FCW00000	10	VRKP6YYYYY00E33	14		
VRKP4S0FNC00000	10	VRKP6YYYYY00E37	14		
VRKP4S0FWD00000	10	VRKPXXXXXX00030	14		
VRKP4S0FWF00000	10	VRKPXXXXXX00031	14		
VRKP4S0RCW00000	10	VRKPXXXXXX00032	14		
VRKP4S0RNC00000	10	VRKPXXXXXX00035	14		
VRKP4S0RWD00000	10	VRKPXXXXXX00036	14		
VRKP4S0RWF00000	10				

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DIA3ED2160307EN
October 2020 - V5.0