Catalog | November 2021



Lexium Cartesian Robots

Portal axes, Linear tables, Cantilever axes, Multi axes systems





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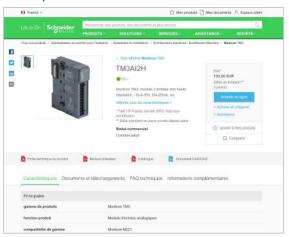
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 Connections and schemas, Performance curves
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Lexium Cartesian Robots

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Lexium PAS, PAD, TAS, CAS, CAR Portal axes, Linear tables, Cantilever axes

Axis type	Portal axes			Linear tables	Cantilever axes		Telescopic axes
Number of movement directions	1						
Typical direction of movement	Horizontal				Vertical		Horizontal
Fastening of the load	On carriage				On the side of the profile or on the 2 end	On the 2 end plates	On carriage
					plates		
Moving part	Carriage				Profile and end plates	Rods and end plates	Profile and carriage
Type of mechanical drive element	Toothed belt		Ballscrew	Ballscrew	Toothed belt	Toothed belt or gear rack	Toothed belt
Type of guide	Recirculating ball bearing guide or roller	Double recirculating ball bearing guide	Recirculating ball bearing guide	Double recirculating ball bearing guide	Recirculating ball bearing guide or roller	Linear ball bearing guide	Double recirculating ball bearing guide
	guide				guide		

















# Tight procedure in the result of the res								
Size 1-0.9 x 0 mm cross section 2.3 s x 2.3 s/m Size 2.6 0 x 0 mm cross section (2.3 s x 2.3 s/m) Size 2.6 0 x	Main characteristics	 High speed Long stroke length Certified for Cleanrooms with ISO class 6 	High accelerationHigh speedLong stroke length	■ High feed forces	■ High feed forces	■ High feed forces		
Available sizes Size 1-40 x 40 mm cross section (2.3 x 2.3 sin) Size 2-0 x 00 mm cross section (2.3 x 2.3 sin) Size 4.10 x 40 mm cross section (2.3 x 2.3 sin) Size 4.10 x 10 mm cross section (2.3 x 2.3 sin) Size 4.10 x 10 mm cross section (2.3 x 2.3 sin) Size 4.10 x 10 mm cross section (2.3 x 2.3 sin) Size 4.10 x 10 mm cross section (2.3 x 2.3 sin) Size 4.10 x 10 mm cross section (2.3 x 2.3 sin) Size 4.10 x 10 mm cross section (2.3 x 2.3 sin) Size 4.10 x 10 mm cross section (2.3 x 2.3 sin) Size 4.10 x 10 mm cross section (2.3 x 2.3 sin) Size 4.10 x 10 mm cross section (2.3 x 2.3 sin) Size 4.10 x 10 mm cross section (2.3 x 2.3 sin) Size 4.10 x 10 mm cross section (2.3 x 2.3 sin) Size 4.10 x 10 mm cross section (2.3 x 2.3 sin) Size 4.10 x 10 mm cross section (2.3 x 2.3 sin) Size 4.10 x 10 mm cross section (2.3 x 2.3 sin) Size 4.10 x 10 mm cross section (2.3 x 2.3 sin) Size 4.10 x 10 mm cross section (2.3 x 2.3 sin) Size 4.10 x 10 mm cross section (2.3 x 1.3 sin) Size 4.10 x 10 mm cross sec	Dynamic	****	****	***	**	***	***	***
Commonweight Comm	Precision	***	***	****	****	***	***	**
## Antisatic toolhed belt Several different motor and gearbox mounting options Stroke lengths per mm ## Stroke Surface Several different motor and gearbox mounting options Stroke lengths per mm ## Stroke Surface Several different motor and gearbox mounting options Stroke lengths per mm Stroke	Available sizes	(1.57 x 1.57 in) Size 2: 60 x 60 mm cross section (2.36 x 2.36 in) Size 3: 80 x 80 mm cross section (3.15 x 3.15 in) Size 4: 110 x 110 mm cross section		(2.36 x 2.36 in) Size 3: 80 x 80 mm cross section (3.15 x 3.15 in) Size 4: 110 x 110 mm cross section	(3.93 x 1.53 in) Size 2: 150 x 54 mm cross section (5.90 x 2.12 in) Size 3: 200 x 59 mm cross section	(1.57 x 1.57 in) Size 2: 60 x 60 mm cross section (2.36 x 2.36 in) Size 3: 80 x 80 mm cross section (3.15 x 3.15 in) Size 4: 110 x 110 mm cross section	(2.59 x 1.18 in) Size 1: 80 x 30 mm cross section (3.14 x 1.18 in) Size 2: 100 x 40 mm cross section (3.93 x 1.57 in) Size 3: 120 x 50 mm cross section (4.72 x 1.96 in) Size 4: 160 x 50 mm cross section	
Stroke Special miles Stroke Special miles Stroke Special miles Stroke lengths per mm S	Maximum feed force	2600 N (584.50 lbf)	1200 N (269.77 lbf)	4520 N (1016.13 lbf)	2580 N (580.00 lbf)	2150 N (483.33 lbf)	705 N (158.49 lbf)	1500 N (337.21 lbf)
Page 4 a biliferent types of guides Different types of guides Different sensors for the limit switch function Different sensors for the lim	Maximum speed	8 m/s (26.24 ft/s)	5 m/s (16.40 ft/s)	1.25 m/s (4.10 ft/s)	1 m/s (3.28 ft/s)	3 m/s (9.84 ft/s)	3 m/s (9.84 ft/s)	3 m/s (9.84 ft/s)
Different types of guides Different sensors for the limit switch function Different sensors for the limit switch function Different carriage lengths for adapting to the load Option to add more than one carriage of increased corrosion resistance Antistatic toothed belt Cover strip to protect the inner parts of the axis Several different motor and gearbox mounting options Stroke lengths per mm Different sensors for the limit switch function Different sensors	Stroke	95500 mm (0.35 216.53 in)	95500 mm (0.35 216.53 in)	9 3000 mm (0.35 118.11 in)	71500 mm (0.2759.05 in)	91800 mm (50.3570.86 in)	8500 mm (0.3219.68 in)	132400 mm (0.5194.48 in)
## Ballscrew support for longer strokes and function function function function function function function is a Different carriage lengths for adapting to the load increased corrosion resistance in length and the load increased corrosion resistance in longer strokes and higher speeds in loreased corrosion resistance in longer strokes and higher speeds in loreased corrosion resistance in longer strokes and higher speeds in longer strokes and higher speeds in loreased corrosion resistance in longer strokes and higher speeds in loreased corrosion resistance in longer stroke lengths per mm in load more than one carriage in loreased corrosion resistance in longer stroke lengths per mm in load more than one carriage in loreased corrosion resistance in longer stroke lengths per mm in load more than one carriage in loreased corrosion resistance in longer stroke lengths per mm in load more than one carriage in loreased corrosion resistance in longer stroke lengths per mm in load more than one carriage in load than th	Repeatability	± 0.05 mm (± 0.0020 in)	± 0.05 mm (± 0.0020 in)	± 0.02 mm (± 0.0001 in)	± 0.02 mm (± 0.0001 in)	± 0.05 mm	± 0.05 mm	± 0.1 mm
Portal axes with movable carriage and fixed axis Linear tables with movable carriage and fixed axis profile Cantilever axes with moveable axis profile or end plates and fixed drive block Reference PAS4 PAD4 PAS4 PAS4 PAS4 CAS4 CAS4 CAS2	Options	 Different sensors for the limit switch function Different carriage lengths for adapting to the load Option to add more than one carriage Increased corrosion resistance Antistatic toothed belt Cover strip to protect the inner parts of the axis Several different motor and gearbox mounting options 	function Different carriage lengths for adapting to the load Option to add more than one carriage Increased corrosion resistance Antistatic toothed belt Cover strip to protect the inner parts of the axis Several different motor and gearbox mounting options	 Ballscrew support for longer strokes and higher speeds Different sensors for the limit switch function Different carriage lengths for adapting to the load Option to add more than one carriage Cover strip to protect the inner parts of the axis Several different motor and gearbox mounting options 	 Different sensors for the limit switch function Bellow to protect the inner parts of the axis Several different motor and gearbox mounting options 	 Different sensors for the limit switch function Increased corrosion resistance Antistatic toothed belt Cover strip to protect the inner parts of the axis Several different motor and gearbox mounting options 	function Increased corrosion resistance Antistatic toothed belt Several different motor and gearbox mounting options	 Several different motor and gearbox mounting options
	Range		xed axis		Linear tables with movable carriage and		île or end plates and fixed drive block	
	Reference	PAS4•B	PAD4	PAS4•S	TAS4	CAS4	CAR4	CAS2
	Page	6	10	16	22	26	30	3/

Lexium PAS, PAD, TAS, CAS, CAR Portal axes, Linear tables, Cantilever axes

Combinations of drive units and axes

Drive element		Portal axes					Linear tables			Cantilever and	d telescopic axe	es			Planetary ge	earboxes (1)		
	Туре	PAS41B	PAS42B PAS42S PAD42B PAD42E	PAD42P	PAS43B PAS43S	PAS44B PAS44S	TAS41S	TAS42S	TAS43S	CAS41B CAR40R CAR41B	CAS42B CAR42B CAR43B CAR44B	CAS43B	CAS44B	CAS24B	PLE40 / WPLE40	PLE60 / WPLE60	PLE80 / WPLE80	PLE120 / WPLE120
Stepper motors	BRS368																	
	BRS397																	
	BRS39A																	
	BRS39B																	
	BRS3AC																	
	BRS3AD																	
ntegrated stepper																		
notors	ILS1•572																	
	ILS1•573																	
	ILS1•851			_												_		
	ILS1•852																	
	ILS1•853 ILA1•571																	
ntegrated servo notors	ILA1•571		_								+							
	ILE1•661••••1			_		_						_						_
ntegrated DC-motors	ILE1•661••••2		_							_		_						
vith mounted	ILE1•661••••3				_													
jearbox	ILE1•661••••4		_		_													
Servo motors	BSH / SH3 0401											_						
Del vo motors	BSH / SH3 0402																	
	BSH / SH3 0551																	
	BSH / SH3 0552																	
	BSH / SH3 0553																	
	BSH / BMH / / MH3 / SH3 / ILM 0701																	
	BSH / BMH / BMi / MH3 / SH3 / ILM 0702																	
	BSH / BMH / BMi / MH3 / SH3 / ILM 0703																	
	BSH / BMH / / MH3 / SH3 / ILM 1001																	
	BSH / BMH / BMi / MH3 / SH3 / ILM 1002																	
	BSH / BMH / BMi / MH3 / SH3 / ILM 1003																	
	BSH / / / SH3 / 1004																	
	BSH / BMH / / MH3 / SH3 / ILM 1401																	
	BSH / BMH / BMi / MH3 / SH3 / ILM 1402																	
	BSH / BMH / / MH3 / SH3 / 1403																	
	BSH / / / SH3 / 1404																	
Servo motors	BCH2MBA53																	
ICH2	BCH2MB013																	
	BCH2LD023																	
	BCH2LD043																	
	BCH2LF043																	
	BCH2HF073																	
	BCH2LF073																	
	BCH2LH103																	
	BCH2MM052																	
	BCH2MM031																	
	BCH2MM102 BCH2HM102																	
	BCH2MM081																	
	BCH2MM061																	
	BCH2MM091					_												
	BCH2MM152					_							+					
	BCH2LH203																	
	BCH2MM202																	
	BCH2MR202																	
	BCH2HR202																	
	BCH2MR302																	
	BCH2MR301																	
	BCH2MR352																	
	BCH2MR451																	
lanetary	PLE40 / WPLE40																	
earboxes (1)	PLE60 / WPLE60																	
, ,	PLE80 / WPLE80																	
	PLE120 / WPLE120																	

(1) Planetary gearboxes from company Neugart GmbH.

Possible to combine

Portal axes with movable carriage and fixed axis Lexium PAS4•B portal axes



Lexium PAS4•B portal axes with motor and gearbox mounted

Presentation (1)

Lexium PAS4•B are ready-to-install portal axes with toothed belt drive and one linear guide in four sizes. The axis profile is fixed in place and the load is mounted on the movable carriage. The portal axes are ideally suited for the transport of heavy loads with short and long strokes.

- The very high speeds and accelerations of the Lexium PAS4●B portal axes enable very short positioning times. The high feed forces with good repeatability are made possible by the steel tension members in the toothed belt. The fabric coating of the toothed belt ensures friction-optimized in and out toothing and thus quiet and smooth movement.
- Two types of guides are available for transmitting the load to the axis profile designed using FEM:
 - The recirculating ball bearing guide is particularly suitable for applications with high force and torque loads.
 - The roller guide is a cost-optimized guide and is suitable for applications with lower force and torque loads.
- The individual forces (Fx, Fy, Fz) and torques (Mx, My, Mz) of the Lexium PAS4•B portal axes are designed for a very long service life of 30,000 km (18,641 miles). If the specified forces and torques are not reached, the service life of the Lexium PAS4•B portal axes increase.
- The T-slots at the bottom and on both sides of the axis profile can be used to fasten the Lexium PAS4•B portal axes. The portal axes are typically used horizontally, but can also be mounted vertically, laterally or overhead. The permissible forces and torques do not change.
- The Lexium PAS4●B portal axes are available with different carriage lengths and with up to three driven carriages. An optionally selectable cover strip is used to protect internal components such as toothed belt and linear guide. Furthermore, an antistatic toothed belt and various sensors can be selected as options.
- The Lexium PAS4●B portal axes can be combined with all motors and / or gearboxes offered by Schneider Electric. The mounting of third-party motors and / or third-party gearboxes is also possible.

Applications

Applications with the following requirements:

- Positioning over long distances: material handling, palletizers, etc.
- Positioning of parts at high speeds: flying shear, optical and measuring applications, labeling, etc.
- High feed forces: hoisting, cutting, machining, etc.

Special product features

- Stroke deliverable per millimeter
- Carriage with threaded holes and centering for reproducible load mounting
- Exchangeable grease nipples, for example to mount an automatic lubrication system
- Motor and gearbox assembly via flexible coupling system on both sides of the end blocks
- Sensors movable in T-slot
- Customized special solutions on request

The PAS42BB with ball guiding is suitable for clean room applications with the following configurations:



Standard clean room class PAS42BBM1000A1NA•••R

- Clean room class 6 (ISO14644-1) 1.8 m/s (5.91 ft/s) with 10 kg (22.05 lb) load
- Clean room class 6 (ISO14644-1) at 0.5 m/s (1.64 ft/s) with 10 kg (22.05 lb) load



Increased clean room class PAS42BBM1000A1RA•••R
- Clean room class 5 (ISO14644-1) at 1.8 m/s (5.91 ft/s)

- Clean room class 5 (ISO14644-1) at 1.8 m/s (5.91 ft/s) with 10 kg (22.05 lb) load
- Clean room class 4 (ISO14644-1) at 0.5 m/s (1.64 ft/s) with 10 kg (22.05 lb) load



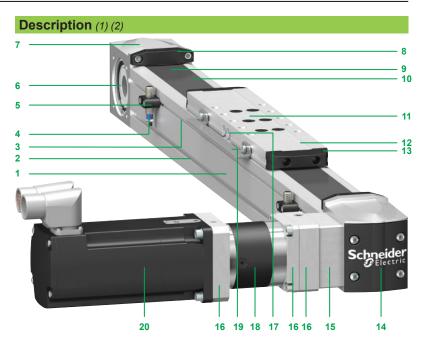
Increased clean room class PAS42BBM1000A1RA•••R with suction 11.7 m³/h (60.03 cu ft/h)

- Clean room class 2 (ISO14644-1) at 1.8 m/s (5.91 ft/s) with 10 kg (22.05 lb) load
- Clean room class 1 (ISO14644-1) at 1.0 m/s (3.28 ft/s) with 10 kg (22.05 lb) load

⁽¹⁾ Technical data (characteristics, dimensions, etc.) for Lexium PAS4•B portal axes are available on the product data sheet.



Portal axes with movable carriage and fixed axis Lexium PAS4•B portal axes



- 1 Axis profile
- 2 T-slots for mounting the axis (on both sides and on lower side)
- 3 T-slot for positioning the sensor holders (on both sides)
- 4 Sensor with cable and connector (two per axis, optional equipment)
- 5 Sensor holder (two per axis, optional equipment)
- 6 Toothed belt pulley with hollow shaft (in each end block)
- 7 End block (two per axis)
- 8 Cover strip clamp (two per axis, optional equipment)
- 9 Cover strip (optional equipment)
- 10 Toothed belt (hidden, under the cover strip)
- 11 Carriage with threaded holes and centering for reproducible load mounting
- 12 Strip deflector (two per axis, optional equipment)
- 13 Rubber buffer (two per axis)
- 14 End block cover (at each end block)
- 15 Coupling housing (optional equipment)
- **16** Adaptation plate (optional equipment)
- 17 Exchangeable grease nipples on each side of the carriage (two per side)
- **18** Gearbox (optional equipment)
- 19 Contact plate (optional equipment)
- 20 Motor (optional equipment)

(2) Description of a Lexium PAS4•B portal axis; the configuration options selected will determine whether or not certain components are included.

⁽¹⁾ Technical data (characteristics, dimensions, etc.) for Lexium PAS4•B portal axes are available on the product data sheet.

Portal axes with movable carriage and fixed axis Lexium PAS4•B portal axes

Mechanical characteristics (1)

Force and torque (Fx, Fy, Fz, Mx, My, Mz) are calculated for a service life of 30,000 km (18,641 miles)

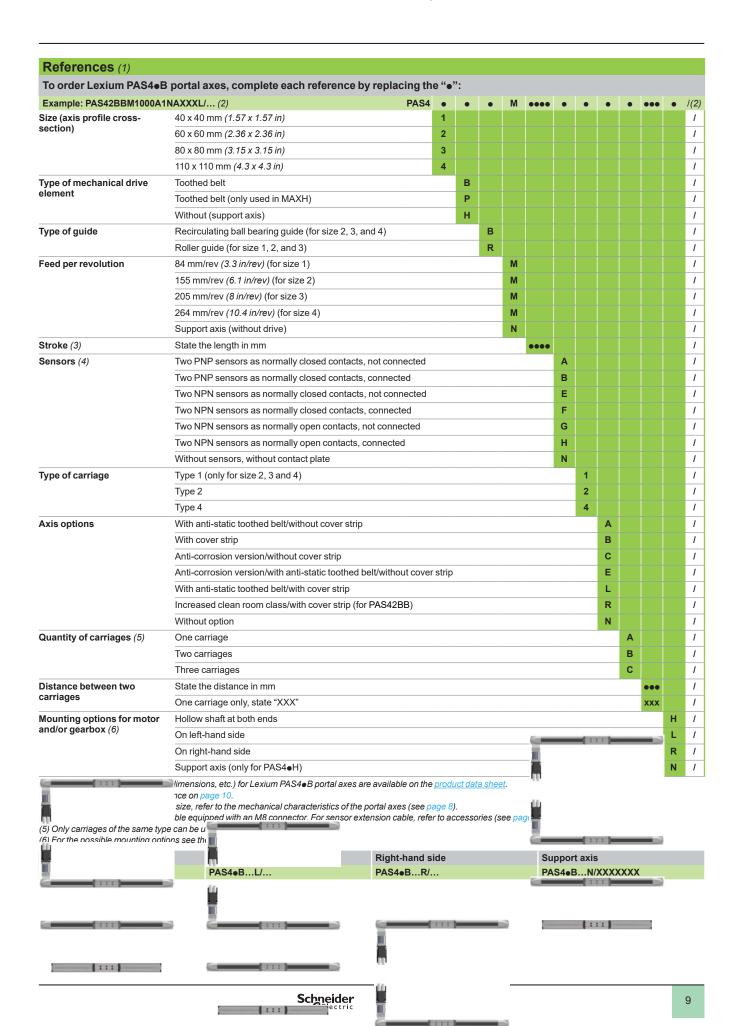
Type o	f portal axis		PAS41BR	PAS42BR	PAS42BB	PAS43BR	PAS43BB	PAS44BB
Axis pro (width x	ofile cross-section height)	mm (in)	Size 1 : 40 x 40 (1.58 x 1.58)	Size 2: 60 x 60 (2	2.36 x 2.36)	Size 3: 80 x 80 (3.15 x 3.15)	Size 4: 110 x 110 (4.33 x 4.33)
Type of element	mechanical drive t		Toothed belt			•		
Type of	guide		Roller guide	Roller guide	Ball guide	Roller guide	Ball guide	Ball guide
Feed pe	er revolution	mm/rev (in/rev)	84 (3.31)	155 (6.10)		205 (8.07)		264 (10.39)
Max. fee	ed force (Fx) (3)	N (lbf)	300 (67.44)	800 (179.84)		1,100 (247.28)		2,600 (584.50)
Max. sp	eed (2)	m/s (ft/s)	8 (26.25)		5 (16.40)	8 (26.25)	5 (16.40)	
Max. ac	celeration (2)	m/s² (ft/s²)	20 (65.62)		50 (164.04)	20 (65.62)	50 (164.04)	
Max. dr	ive torque (3)	Nm (lbf/in)	4 (35.40)	20 (177.01)	1	36 (318.62)		110 (973.58)
Max. for	rce (Fy) (3)	N (lbf)	660 (148.37)		2,810 (631.71)	1,760 (395.66)	4,410 (991.407	6,270 (1,409.55)
Max. for	rce (Fz) (3)		430 (96.66)		2,810 (631.71)	1,040 (233.80)	4,410 (991.407	6,270 (1,409.55)
Max. to	rque (Mx) (3)	Nm (lbf/in)	5 (44.25)	9 (79.65)	19 (168.16)	29 (256.67)	42 (371.73)	68 (601.85)
	with carriage type 1	Nm (lbf/in)	-	18 (159.31)	74 (654.95)	51 (451.38)	162 (1,433.82)	256 (2,265.79)
torque (My) (3)	with carriage type 2	(IDI/III)	11 (97.35)	31 (274.374)	194 (1,717.04)	87 (770.01)	379 (3,354.43)	655 (5,797.23)
	with carriage type 4		28 (247.82)	56 (495.64)	362 (3,203.96)	160 (1,416.11)	687 (6,080.46)	1,209 (10,700.55)
Max. torque	with carriage type 1	Nm (lbf/in)	-	28 (247.82)	74 (654.95)	86 (761.16)	162 (1,433.82)	256 (2,265.79)
(Mz)	with carriage type 2	(101/111)	17 (150.46)	48 (424.83)	194 (1,717.04)	148 (1,309.91)	379 (3,354.43)	655 (5,797.23)
(3)	with carriage type 4		43 (380.58)	87 (770.01)	362 (3,203.96)	271 (2,398.55)	687 (6080.46)	1,209 (10,700.55)
Minm	ax. stroke (4)	mm (in)	1253,000 (4.92118.11)	1255,500 (4.92216.54)	95,500 (0.35216.54)	1755,500 (6.89216.54)	115,500 (0.43216.54)	135,500 (0.51216.54)
Repeata	ability	mm (in)	± 0.05 (0.002)					

- (1) Technical data (characteristics, dimensions, etc.) for Lexium PAS4•B portal axes are available on the product data sheet.
- (2) Depending on load and stroke.
- (3) Forces and torques decrease at increasing speeds. If several forces (Fy, Fz) and torques (Mx, My, Mz) acting at the same time, refer to the hardware guide.
- (4) Min. stroke required for the lubrication of the linear guide. For information about greater strokes for ball guides, contact your Schneider Electric representative.

Forces and torques



Portal axes with movable carriage and fixed axis Lexium PAS4•B portal axes



Portal axes with movable carriage and fixed axis Lexium PAS4•B portal axes

References (continue	* * *								
To order Lexium PAS4 Example: PAS42BBM1000A	portal axes, complete each reference by replacing the "•":	(2)/						+	
+ PLE60 3:1 + BMH0702P01A		(-//					Ĭ		
Motor and/or gearbox	Motor only	1	1					П	
configuration (3)	Motor and gearbox	1	2						
	Gearbox only	1	3						
	Without motor, without gearbox, with adaptation material (select motor/gearbox type)	1	4						
	Without motor, without gearbox, without adaptation material	1	Х						
Gearbox interface (4)	PLE 40 - straight planetary gearbox	1		0G					
	PLE 60 - straight planetary gearbox	1		1G					
	PLE 80 - straight planetary gearbox	1		3G					ľ
	PLE 120 - straight planetary gearbox	1		5G					i
	WPLE 40 - angular planetary gearbox	1		0A				Н	i
	WPLE 60 - angular planetary gearbox	1		1A					i
	WPLE 80 - angular planetary gearbox	1		3A					i
	WPLE 120 - angular planetary gearbox	1		5A					İ
	Third-party gearbox without mounting by Schneider Electric (gearbox drawing required)	1		YY					i
	Third-party gearbox with mounting by Schneider Electric (gearbox must be provided)	1		ZZ				г	ĺ
	Without gearbox	1		XX				г	ĺ
Gearbox orientation (3) (5)	0°	1			3			Н	ŀ
(3)	90°	1			0				ł
	180°	1			9				
	270°	1			6			Н	۱
	Without gearbox	1			Х			Н	ł
lotor interface	Stepper motors BRS 368	1			^	V8		Н	
otor interrace	Stepper motors BRS 397, 39A	1				V9		Н	
		1				V9			
	Stepper motors BRS 39B	1				VU V1			
	Stepper motors BRS 3AC, 3AD	1							
	Integrated drive with stepper motor ILS••571, 572	1				16 17			
	Integrated drive with stepper motor ILS••573	1							
	Integrated drive with stepper motor ILS••851, 852					19			
	Integrated drive with stepper motor ILS••853	1				18			
	Integrated drive with brushless DC motor ILE••66 with spur wheel gear	1				E7		Н	-
	Integrated drive with servo motor ILA • • 57	1				A6			
	Servo motors BSH/SH3 0401, 0402	1				H0			
	Servo motors BSH/SH3 055	1				H5			
	Servo motors BSH/BMH/BMI/MH3/SH3/ILM 0701, 0702	1				H7			_
	Servo motors BSH/BMH/BMI/MH3/SH3/ILM 0703	1				H8		Ш	
	Servo motors BSH/BMH/BMI/MH3/SH3/ILM 1001, 1002, 1003	1				H1			
	Servo motors BSH 1004	1				H4			
	Servo motors BSH/BMH/MH3/SH3/ILM 1401, 1402, 1403, 1404	1				H2		ш	
	Servo motors BCH2•B A5, 01	1				C1			_
	Servo motors BCH2•D 02, 04	1				C2		ш	
	Servo motors BCH2●F 04	1				C3			
	Servo motors BCH2●F 07	1				C4			
	Servo motors BCH2●H 10, 20	1				C5			
	Servo motors BCH2●M 08	1				C6			4
	Servo motors BCH2●M 03, 05, 06, 10, 09, 15, 20	1				C7			ļ
	Servo motors BCH2●R 20, 30, 35, 45	1				C8			ĺ
	Third-party motor without mounting by Schneider Electric (motor drawing required)	1				YY			ĺ
	Third-party motor with mounting by Schneider Electric (motor drawing required; motor must be provided)	I				ZZ			
	Without motor	1				XX			ĺ
lotor orientation (3) (6)	<u>0°</u>	1					3		ĺ
	90°	1					0		ĺ
	180°	1					9		ĺ
	270°	1					6		J
	Without motor	1					X		
lanetary gearbox gear ratio	+ State the planetary gearbox gear ratio and the complete motor reference at the end of the refere	nce, ir	n plair	n text.				+	ĺ

⁽¹⁾ Technical data (characteristics, dimensions, etc.) for Lexium PAS4•B portal axes are available on the product data sheet.

⁽²⁾ For the first part of the reference, see page 9.

⁽³⁾ For further information, refer to motor and/or gearbox configuration and orientation (see page 11).

⁽⁴⁾ Planetary gearboxes from company Neugart GmbH.

⁽⁵⁾ In case of a straight planetary gearbox, the orientation references to the setscrew of the drive unit adaptation.

⁽⁶⁾ With reference to the motor connectors.

Lexium PAS, PAD Portal axes with movable carriage and fixed axis Lexium PAS4

B portal axes

Motor and/or gearbox configuration and orientation

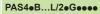
Hollow shaft at both ends

PAS4eB...H/XXXXXXX

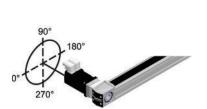


Left-hand side

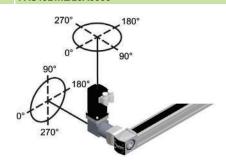
PAS4eB...L/1XXXeee



PAS4eB...L/2eAeeee







PAS4eB...L/3eGeeeX

PAS4eB...L/3eAeeeX

PAS4eB...L/4eeXeeX







Right-hand side

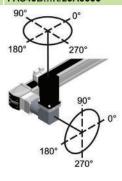
PAS4eB...R/1XXXeee

PAS4eB...R/2eGeeee

PAS4•B...R/2•A••••







PAS4eB...R/3eGeeeX

PAS4eB...R/3eAeeeX

PAS4eB...R/4eeXeeX







Portal axes with movable carriage and fixed axis Lexium PAD4 portal axes



PAD42BB



PAD42EB



PAD42PB Lexium PAD4 portal axes with motor and gearbox mounted

Presentation (1)

Lexium PAD4 are ready-to-install portal axes with toothed belt drive and two linear guides in three drive designs. The axis profile is fixed in place and the load is mounted on the movable carriage couple or single carriage. The portal axes are ideally suited for the transport of heavy loads with short and long strokes

- The designs differ in the number and type of driven toothed belts:
 - Carriage couple driven by two coupled toothed belts: higher dynamics
 - Individual carriages, each driven with one toothed belt for independent movements of the carriages: more flexibility
 - Carriage couple driven by one toothed belt: cost-optimized solution
- The very high speeds and accelerations of the Lexium PAD4 portal axes enable very short positioning times. The high feed forces with good repeatability are made possible by the steel tension members in the toothed belt. The fabric coating of the toothed belt ensures friction-optimized in and out toothing and thus quiet and smooth movement
- One type of guide is available for transmitting the load to the axis profile designed using FEM:
 - The double recirculating ball bearing guide in combination with the very rigid axis profile is particularly suitable for applications with lateral torsional torque (Mx) or applications with very high force and torque loads.
- The individual forces (Fx, Fy, Fz) and torques (Mx, My, Mz) of the Lexium PAD4 portal axes are designed for a very long service life of 30,000 km (18,641.13 miles). If the specified forces and torques are not reached, the service life of the Lexium PAD4 portal axes increase.
- The T-slots at the bottom and on both sides of the axis profile can be used to fasten the Lexium PAD4 portal axes. The portal axes are typically used horizontally, but can also be mounted vertically, laterally or overhead. The permissible forces and torques do not change.
- The Lexium PAD4 portal axes are available with different carriage lengths and with up to three driven carriages. An optionally selectable cover strip is used to protect internal components such as toothed belt and linear guide. Furthermore, an antistatic toothed belt and various sensors can be selected as options.
- The Lexium PAD4 portal axes can be combined with all motors and / or gearboxes offered by Schneider Electric. The mounting of third-party motors and / or third-party gearboxes is also possible.

Applications

Applications with the following requirements:

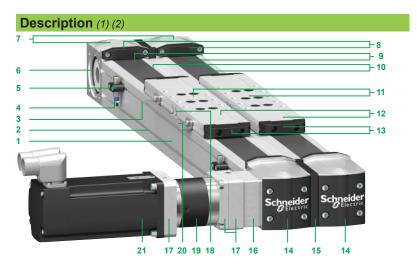
- Positioning over long distances: material handling, palletizers, etc.
- Positioning of parts at high speeds: flying shear, optical and measuring applications, labeling, etc.
- High feed forces: hoisting, cutting, machining, etc.

Special product features

- Stroke deliverable per millimeter
- Carriage with threaded holes and centering for reproducible load mounting
- Exchangeable grease nipples, for example to mount an automatic lubrication system
- Motor and gearbox assembly via flexible coupling system on both sides of the end blocks
- Sensors movable in T-slot
- Customized special solutions on request

(1) Technical data (characteristics, dimensions, etc.) for Lexium PAD4 portal axes are available on the product data sheet.

Portal axes with movable carriage and fixed axis Lexium PAD4 portal axes



PAD42BB / PAD42EB

- Axis profile
- T-slots for mounting the axis (on both sides and o lower side)
- T-slot for positioning the sensor holders (on both sides)
- Sensor with cable and connector (two per axis, optional equipment)
- Sensor holder (two per axis, optional equipment)
- Toothed belt pulley with hollow shaft (in each end block)
- End block (four per axis)
- Cover strip clamp (four per axis, optional equipment)
- Cover strip (two per axis, optional equipment)

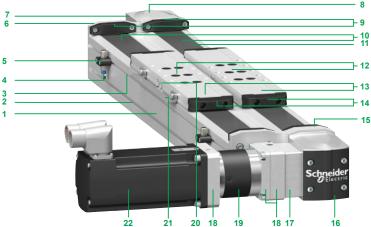
- 10 Toothed belt (two per axis, hidden, under the cover strip)
- Carriage with threaded holes and centering for reproducible load mounting (two per axis)
- 12 Strip deflector (four per axis, optional equipment)

 13 Rubber buffer (four per axis)

 14 End block cover (at each end block)

- 15 End block mid-plate (two per axis)
- 16 Coupling housing (optional equipment)
- 17 Adaptation plate (optional equipment)
- 18 Exchangeable grease nipples on each side of
- the carriage (two per side)

 19 Gearbox (optional equipment)
- 20 Contact plate (optional equipment)
- 21 Motor (optional equipment)



PAD42PB

- Axis profile
- T-slots for mounting the axis (on both sides and on lower side)
- T-slot for positioning the sensor holders (on both sides)
- Sensor with cable and connector (two per axis, optional equipment)
 Sensor holder (two per axis, optional
- 5 equipment)
- End plate (two per axis)
- Toothed belt pulley with hollow shaft (hidden, in each end block)
- 8 End block (two per axis)
- Cover strip clamp (four per axis, optional equipment)
- 10 Cover strip (two per axis, optional equipment)

- Toothed belt (hidden, under the cover strip)
- 12 Carriage with threaded holes and centering for reproducible load mounting (two per axis)
- 13 Strip deflector (four per axis, optional equipment)
- 14 Rubber buffer (four per axis)
- 15 Distance plate
- End block cover (at each end block)
 Coupling housing (optional equipment)
- 18 Adaptation plate (optional equipment)
- 19 Gearbox (optional equipment)
- Exchangeable grease nipples on each side of the carriage (two per side)
- 21 Contact plate (optional equipment)
- 22 Motor (optional equipment)
- (1) Technical data (characteristics, dimensions, etc.) for Lexium PAD4 portal axes are available on the
- (2) Description of Lexium PAD4 portal axes; the configuration options selected will determine whether or not certain components are included.

Portal axes with movable carriage and fixed axis Lexium PAD4 portal axes

Mechanical characteristics (1)

Force and torque (Fx, Fy, Fz, Mx, My, Mz) are calculated for a service life of 30,000 km (18,641 miles)

Type of portal axes			PAD42BB	PAD42EB	PAD42PB
Axis profile cross-section (width x height)	on	mm (in)	130 x 60 <i>(5.12 x 2.36)</i>		·
Type of mechanical driv	e element		Toothed belt		
Type of guide			Double ball guide		
Feed per revolution		mm/rev (in/rev)	155 (6.10)		
Max. feed force (Fx) (3)		N (lbf)	1,200 (269.77)	800 (179.84)	
Max. speed (2)		m/s (ft/s)	5 (16.40)		
Max. acceleration (2)		m/s² (ft/s²)	50 (164.04)		
Max. drive torque (3)		Nm (lbf/in)	30 (265.52)	20 (177.01)	
Max. force (Fy) (3)		N (lbf)	4,209 (946.22)	2,806 (630.81)	4,209 (946.22)
Max. force (Fz) (3)		N (lbf)	4,209 (946.22)	2,806 (630.81)	4,209 (946.22)
Max. torque (Mx) (3)		Nm (lbf/in)	98 (867.37)	19 (168.16)	98 (867.37)
Max. torque (My) (3)	With carriage type 1	Nm (lbf/in)	149 (1,318.76)	74 (654.95)	149 (1,318.76)
	With carriage type 2	(IOIIII)	387 (3,425.23)	194 (1,717.04)	387 (3,425.23)
	With carriage type 4		724 (6,407.93)	362 (3,203.96)	724 (6,407.93)
Max. torque (Mz) (3)	With carriage type 1	Nm (lbf/in)	111 (982.43)	74 (654.95)	111 (982.43)
	With carriage type 2	(101/111)	290 (2,566.71)	194 (1,717.04)	290 (2,566.71)
	With carriage type 4		543 (4,805.95)	362 (3,203.96)	543 (4,805.95)
Minmax. stroke (4)		mm (in)	95,500 (0.35216.54)		
Repeatability		mm (in)	± 0.05 (0.002)		

Forces and torques

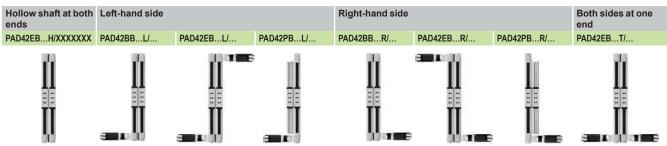


⁽¹⁾ Technical data (characteristics, dimensions, etc.) for Lexium PAD4 portal axes are available on the <u>product data sheet</u>.
(2) Depending on load and stroke.
(3) Forces and torques decrease at increasing speeds. If several forces (Fy, Fz) and torques (Mx, My, Mz) acting at the same time, refer to the to the <u>hardware guide</u>.
(4) Min. stroke required for the lubrication of the linear guide. For information about greater strokes for ball guides, contact your Schneider Electric representative.

Portal axes with movable carriage and fixed axis Lexium PAD4 portal axes

To order Lexium PAD4 portal	axes, complete each reference by replacing the "•":												
Example: PAD42BBM1000A1N	IAXXXL/(2) PAD	4 2	•	В	M	••••	•	•	•	•	•••	•	/(2
Size (axis profile cross-section)	130 x 60 mm (5.1 x 2.36 in)	2											1
Type of mechanical drive	Two toothed belts (both sides driven by one drive)		В										1
element	Two toothed belts (each side driven by a drive)		Е										1
	One toothed belt (only one side driven by a drive)		Р										1
Type of guide	Double recirculating ball bearing guide			В									1
Feed per revolution	155 mm/rev (6.1 in/rev)				M								1
Stroke (3)	State the length in mm					••••							1
Sensors (4)	Two PNP sensors as normally closed contacts, not connect	ed					Α						1
	Two PNP sensors as normally closed contacts, connected						В						1
	Two NPN sensors as normally closed contacts, not connect	ed					Е						1
	Two NPN sensors as normally closed contacts, connected						F						1
	Two NPN sensors as normally open contacts, not connected	d					G						1
	Two NPN sensors as normally open contacts, connected						Н						1
	Without sensors, without contact plate						N						1
Type of carriage couple	Type 1							1					1
	Type 2							2					1
	Type 4							4					1
Axis options	Antistatic toothed belt, without cover strip								Α				1
	With cover strip								В				1
	Increased corrosion resistance, without cover strip								С				1
	Increased corrosion resistance, antistatic toothed belt, with	out cov	er str	ip					Е				1
	Antistatic toothed belt, with cover strip								L				1
	Without options								N	A	1		
	Antistatic toothed belt, with cover strip Without options L N		1										
Two carriage couples B				1									
	Three carriage couples									С			1
Distance between two	State the distance in mm (refer to Technical Data for the min	imum	distar	nce be	etwee	en two c	arriag	je cou	ıples)		•••		1
carriages couples	One carriage couple only state "XXX"									A B C E L N A B C C Ess) •••• xxx H L R	1		
Mounting options for motor	Hollow shaft at both ends (only PAD42EB)										B C C XXX H	1	
One carriage couple only state "XXX" bounting options for motor and/or gearbox (6) Hollow shaft at both ends (only PAD42EB)	1												
	On right-hand side											R	1
	On both sides at one end (only PAD42EB)											Т	1

- (1) Technical data (characteristics, dimensions, etc.) for Lexium PAD4 portal axes are available on the product data sheet.
- (2) For the second part of the reference on page 16.
- (3) For the min. and max. stroke per size, refer to the mechanical characteristics of the portal axes (see page 14).
- (4) Supplied with a 0.1 m (0.33 ft) cable equipped with an M8 connector. For sensor extension cable, refer to accessories (see page 55).
- (5) Only carriage couples of the same type can be used. All carriage couples are driven.
- (6) For the possible mounting options see the following pictures:



Note: For a PAD42BB or PAD42PB axis without motor, gearbox, or adaptation material: in the type code (see table above), select L or R as character under Mounting options for motor and/or gearbox to define the position of the double coupling or the distance plate.

Portal axes with movable carriage and fixed axis Lexium PAD4 portal axes

To order I exilim PADA no	ortal axes, complete each reference by replacing the "•":							
Example: PAD42BBM1000A	1NAXXXL (2)/21G0H70	(2)/	•	••	•	••	•	+
+ PLE60 3:1 + BMH0702P01A								
lotor and/or gearbox	Motor only	1	1					
onfiguration (3)	Motor and gearbox	1	2					
	Gearbox only	1	3					
	Without motor, without gearbox, with adaptation material (select motor/gearbox type)	1	4					
	Without motor, without gearbox, without adaptation material	1	Х					
earbox interface (4) (5)	PLE 40 - straight planetary gearbox	1		0G				
	PLE 60 - straight planetary gearbox	1		1G				
	PLE 80 - straight planetary gearbox	1		3G				
	PLE 120 - straight planetary gearbox	1		5G				
	WPLE 40 - angular planetary gearbox	1		0A				
	WPLE 60 - angular planetary gearbox	1		1A				
	WPLE 80 - angular planetary gearbox	1		3A				
	WPLE 120 - angular planetary gearbox	1		5A				
	Third-party gearbox without mounting by Schneider Electric (gearbox drawing required)	1		YY				
	Third-party gearbox with mounting by Schneider Electric (gearbox must be provided)	1		ZZ				
	Without gearbox	I		XX				
earbox orientation (3) (6)	0°	1			3			
() ()	90°	1			0			
	180°	1			9			
	270°	1			6			
	Without gearbox	1			Х			
otor interface (5)	Stepper motors BRS 368	1				V8		
(5)	Stepper motors BRS 397, 39A	1				V9		
	Stepper motors BRS 39B	1				VO		
	Stepper motors BRS 3AC, 3AD	1				V1		
	Integrated drive with stepper motor ILS••571, 572	1				16		
	Integrated drive with stepper motor ILS••573	1				17		
	Integrated drive with stepper motor ILS••851, 852	1				19		
	Integrated drive with stepper motor ILS••853	1				18		
	Integrated drive with brushless DC motor ILE••66 with spur wheel gear	1				E7		
	Integrated drive with servo motor ILA • 57	1				A6		
	Servo motors BSH/SH3 0401, 0402	1				H0		_
	·	_						_
	Servo motors BSH/SH3 055	1				H5		_
	Servo motors BSH/BMH/BMI/MH3/SH3/ILM 0701, 0702	1				H7		_
	Servo motors BSH/BMH/BMI/MH3/SH3/ILM 0703	1				H8		_
	Servo motors BSH/BMH/BMI/MH3/SH3/ILM 1001, 1002, 1003	1				H1		
	Servo motors BSH1004	1				H4		_
	Servo motors BSH/BMH/MH3/SH3/ILM 1401, 1402, 1403, 1404	1				H2		_
	Servo motors BCH2●B A5, 01	1				C1		
	Servo motors BCH2●D 02, 04	1				C2		
	Servo motors BCH2●F 04	1				C3		
	Servo motors BCH2●F 07	1				C4		
	Servo motors BCH2●H 10, 20	1				C5		
	Servo motors BCH2●M 08	1				C6		
	Servo motors BCH2●M 03, 05, 06, 10, 09, 15, 20	1				C7		
	Servo motors BCH2●R 20, 30, 35, 45	1				C8		
	Third-party motor without mounting by Schneider Electric (motor drawing required)	1				YY		
	Third-party motor with mounting by Schneider Electric (motor drawing required; motor	1				ZZ		
	must be provided)							
	Without motor	1				XX		
otor orientation (3) (7)	0°	I					3	
	<u>90°</u>	I					0	
	180°	1					9	
270° Without motor	1					6		
	-					Х		

 $^{(1) \ \}textit{Technical data (characteristics, dimensions, etc.)} \ \textit{for Lexium PAD4 portal axes are available on the } \underline{\textit{product data sheet}}.$

⁽²⁾ For the first part of the reference, see page 15.

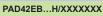
 ⁽³⁾ For further information, refer to motor and/or gearbox configuration and orientation (see page 17).
 (4) Planetary gearboxes from company Neugart GmbH.

⁽⁵⁾ Valid for both motors and/or gearboxes of the PAD42EB.
(6) In case of a straight planetary gearbox, the orientation references to the setscrew of the drive unit adaptation.
(7) With reference to the motor connectors.

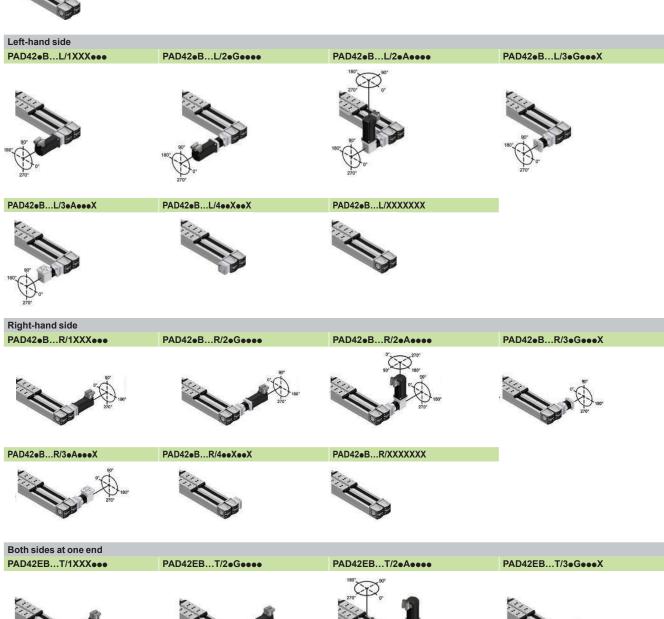
Portal axes with movable carriage and fixed axis Lexium PAD4 portal axes

Motor and/or gearbox configuration and orientation

Hollow shaft at both end







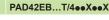
180





PAU42EB...1/30A000X

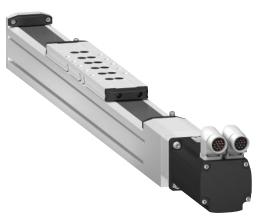






Note: For a PAD42BB or PAD42PB axis without motor, gearbox, or adaptation material: in the type code (see page 15), select L or R as character under Mounting options for motor and/or gearbox to define the position of the double coupling or the distance plate.

Portal axes with movable carriage and fixed axis Lexium PAS4•S portal axes



Lexium PAS4•S portal axes with motor and gearbox mounted

Presentation (1)

Lexium PAS4•S are ready-to-install portal axes with ballscrew and one linear guide in three sizes. The axis profile is fixed in place and the load is mounted on the movable carriage. The portal axes are ideally suited for applications with high feed force and for the transport of heavy loads at medium speeds.

- The very good repeatability of the Lexium PAS4•S portal axes is made possible by the ballscrew. To adapt the feed forces, speeds and accelerations to the application, three ballscrew pitches are available for each size. The optionally available ballscrew supports enables higher speeds with longer strokes at the same time.
- One type of guide is available for transmitting the load to the axis profile designed using FEM:
 - The recirculating ball bearing guide is particularly suitable for applications with high forces and torques.
- The individual forces (Fx, Fy, Fz) and torques (Mx, My, Mz) of the Lexium PAS4●S portal axes are designed for a long service life of 10,000 km. If the specified forces and torques are not reached, the service life of the Lexium PAS4●S portal axes increase.
- The T-slots at the bottom and on both sides of the axis profile can be used to fasten the Lexium PAS4•S portal axes. The portal axes are typically used horizontally, but can also be mounted vertically, laterally or overhead. The permissible forces and torques do not change.
- The Lexium PAS4•S portal axes are available with different carriage lengths and with up to two additional non-driven carriages. An optionally selectable cover strip is used to protect internal components, such as ballscrew and linear guide. Furthermore, various sensors can be selected as an option.
- The Lexium PAS4●S portal axes can be combined with all motors and / or gearboxes offered by Schneider Electric. The mounting of third-party motors and / or third-party gearboxes is also possible.

Applications

Applications with the following requirements:

- A precision feed movement and guiding, even at variable loads and torques
- High feed forces: clamping, cutting, etc.
- Precise positioning and repeatability: optical and measuring applications, etc.

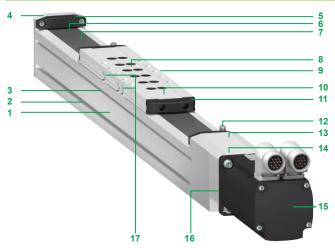
Special product features

- Stroke deliverable per millimeter
- Carriage with threaded holes and centering for reproducible load mounting
- Exchangeable grease nipples, for example to mount an automatic lubrication system
- Motor and gearbox assembly via flexible coupling system on both sides of the end blocks
- Sensors movable in T-slot
- Customized special solutions on request

(1) Technical data (characteristics, dimensions, etc.) for Lexium PAS4•S portal axes are available on the <u>product data sheet</u>.

Portal axes with movable carriage and fixed axis Lexium PAS4•S portal axes

Description (1) (2)



- Axis profile
- T-slots for mounting the axis (on both sides and on lower side)
- T-slot for positioning the sensor holders (on both sides)
- Cover strip clamp (two per axis, optional equipment)

- Cover strip (optional equipment)
 Ballscrew (hidden, under the cover strip)
 Carriage with threaded holes and centering for reproducible load mounting Contact plate (hidden, on the side of the carraige, optional equipment)
- Strip deflector (two per axis, optional equipment)
- 11 Rubber buffer (two per axis)
- 12 Sensor with cable, connector and sensor holder (two per axis, optional
- equipment)

 13 Drive block with drive shaft
- 14 Coupling housing (optional equipment)
- 15 Motor (optional equipment)
- 16 Adaptation plate (optional équipment)
- 17 Exchangeable grease nipples on each side of the carriage (three per side)

Mechanical characteristics (1)

Force and tore	que (Fx, Fy, Fz,	Mx, My, Mz)	are calculated	l for a service	life of 10,000	km (6,214 mi	les)				
Type of porta	al axis		PAS42SBB	PAS42SBD	PAS42SBF	PAS43SBB	PAS43SBD	PAS43SBG	PAS44SBB	PAS44SBD	PAS44SBH
Axis profile of (width x heigh	ross-section t)	mm (<i>in)</i>	Size 2 : 60 x	60 (2.36 x 2.3	36)	Size 3 : 80 x	80 <i>(3.15 x 3.1</i>	15)	Size 4 : 110)	x 110 <i>(4.33 x 4</i>	1.33)
Type of mech element	nanical drive		Ballscrew								
Type of guide)		Ball guide								
Ballscrew pit	ch	mm/rev (in/rev)	5 (0,2)	10 (0,39)	16 <i>(0,63)</i>	5 (0,2)	10 <i>(0,39)</i>	20 (0,79)	5 (0,2)	10 (0,39)	25 (0,98)
Ballscrew dia	ameter	mm (in)	16 <i>(0.63)</i>			20 (0.79)			25 (0.98)		
Max. feed for	ce (Fx) (4)	N (lbf)	2,980 (669.93)	1,560 <i>(350.70)</i>	1,540 (346.20)	3,400 (764.35)	2,600 (584.50)	1,720 (386.67)	3,700 (831.79)	4,520 (1?016.13)	3,000 (674.42)
Max. speed (3)	m/s (ft/s)	0.25 (0.82)	0.5 (1.64)	0.8 (2.62)	0.25 (0.82)	0.5 (1.64)	1 (3.28)	0.25 (0.82)	0.5 (1.64)	1.25 (4.10)
Max. acceler	ation (3)	m/s² (ft/s²)	2 (6.56)	4 (13.12)	6.4 (21.00)	2 (6.56)	4 (13.12)	8 (26.25)	2 (6.56)	4 (13.12)	10 (32.81)
Max. drive to	rque (4)	Nm (lbf/in)	3.2 (28.32)	3.3 (29.20)	4.9 (43.36)	3.7 (32.74)	5.3 (46.90	6.8 (60.18)	4.3 (38.05)	9 (79.65)	14.3 (126.5)
Max. force (F	y) (4)	N (lbf)	4,050 (910.4	17)		6,360 (1,429	9.78)		9,040 (2,032	2.27)	
Max. force (F	z) (4)	N (lbf)	4,050 (910.4	17)		6,360 (1,429	9.78)		9,040 (2,032	2.27)	
Max. torque (Mx) (4)	Nm (lbf/in)	27 (238.97)			60 (531.04)			98 (867.37)		
Max. torque (My) (4)	With carriage type 1	Nm (lbf/in)	304 (2,690.6	52)		556 (4,921.0	01)		935 (8,275.4	14)	
	With carriage type 4		668 (5,912.2	29)		1,224 (10,83	33.31)		2,155 (19,07	73.35)	
Max. torque (Mz) (4)	With carriage type 1	Nm (lbf/in)	304 (2,690.6	52)		556 (4,921.0	01)		935 (8,275.4	14)	
	With carriage type 4		668 (5,912.2	29)		1,224 (10,83	33.31)		2,155 (19,07	73.35)	
Minmax. s	troke (5)	mm (in)	91,500 (<i>0.</i>	3559.06)		113,000 (0	0.43118.11)		133,000 (0	0.51118.11)	
Repeatability	1	mm (in)	± 0.02 (0.00	1)							

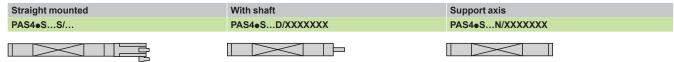
- (1) Technical data (characteristics, dimensions, etc.) for Lexium PAS4•S portal axes are available on the product data sheet
- (2) Description of Lexium PAS4•S portal axes; the configuration options selected will determine whether or not certain components are included.
- (3) Depending on load and stroke.
- (4) Forces and torques decrease at increasing speeds. If several forces (Fy, Fz) and torques (Mx, My, Mz) acting at the same time, refer to the hardware guide.
- (5) Min. stroke required for the lubrication of the linear guide.



Portal axes with movable carriage and fixed axis Lexium PAS4•S portal axes

Example: PAS42SBF1000A1	portal axes, complete each reference by replace BAXXXS/ (2)	PAS4	•	•	В	•	••••	•	•	•	•	•••	•	1(2
Size (axis profile cross-	60 x 60 mm (2.36 x 2.36 in)		2											1
section)	80 x 80 mm (3.15 x 3.15 in)		3											1
	110 x 110 mm (4.3 x 4.3 in)		4											1
Type of mechanical drive	Ballscrew			S										1
element	Without (support axis)			Α										1
Type of guide	Recirculating ball bearing guide				В									1
Ballscrew pitch	5 mm/rev (0.19 in/rev) (for size 2, 3 and 4)					В						İ		1
	10 mm/rev (0.39 in/rev) (for size 2, 3 and 4)					D								1
	16 mm/rev (0.63 in/rev) (for size 2)					F								1
	20 mm/rev (0.79 in/rev) (for size 3)					G								1
	25 mm/rev (0.98 in/rev) (for size 4)					Н								1
	Support axis (without drive)					N								1
Stroke (3)	State the length in mm						••••							1
Sensors (4)	Two PNP sensors as normally closed contacts, not con	nected						Α						1
	Two PNP sensors as normally closed contacts, connection	ted						В						1
	Two NPN sensors as normally closed contacts, not co	nected						Е						1
	Two NPN sensors as normally closed contacts, connection	cted						F						1
	Two NPN sensors as normally open contacts, not contact	ected						B		1				
	Two NPN sensors as normally open contacts, connect	ed						Н						1
	Without sensors, without contact plate							N						1
Type of carriage	Type 1								1					1
	Type 4								4					1
Axis options (5)	With cover strip/without ballscrew support									В				1
	With cover strip/with 1 ballscrew support							A B E F G H N 1 4 B C C D	1					
	Without cover strip/with 1 ballscrew support									D				1
	With cover strip/with 2 ballscrew supports									Е				1
	Without cover strip/with 2 ballscrew supports									F				1
	Without cover strip/without ballscrew support	prs, without contact plate I 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1												
Quantity of carriages (6)	One carriage													
	Arriages (6) One carriage Two carriages B	1												
	Three carriages										С			1
Distance between two	State the distance in mm	Screw support												
carriages	One carriage only, state "XXX"											XXX		1
Mounting options for motor	Straight mounted												S	1
and/or gearbox (7)	Without cover strip/with 1 ballscrew supports Without cover strip/with 2 ballscrew supports Without cover strip/with 2 ballscrew supports Without cover strip/without ballscrew support N Se (6) One carriage Two carriages B Three carriages C State the distance in mm One carriage only, state "XXXX" Trmotor Straight mounted O Straight mounted Straight mounted O Without cover strip/with 1 ballscrew supports F A A A A A A A A A A A A	D	1											
	With shaft			N	1									

- $(1) \ \textit{Technical data (characteristics, dimensions, etc.)} \ \textit{for Lexium PAS4} \bullet \textit{S portal axes are available on the } \underline{\textit{product data sheet}}.$
- (2) For the second part of the reference, see page 21.
- (3) For the min. and max. stroke per size, refer to the mechanical characteristics of the portal axes (see page 19).
- (4) Supplied with a 0.1 m (0.33 ft) cable equipped with an M8 connector. For sensor extension cable, refer to accessories (see page 55).
- (5) Ballscrew support corresponds to total axis length and ballscrew speed.
- (6) Only carriages of the same type can be used. Only the carriage next to the motor is driven.
- (7) For the possible mounting options see the following pictures:



Portal axes with movable carriage and fixed axis Lexium PAS4•S portal axes

Example: PAS42SBF1000A	S portal axes, complete each reference by replacing the "•":	(2)/						
+ BMH0702P01A2A	12/ VVVVV (L)/ I/VVVIII V	(2)				30		
Notor and/or gearbox	Motor only	1	1					
onfiguration (3)	Motor and gearbox	1	2					
3 ()	Gearbox only	1	3					
	Without motor, without gearbox, with adaptation material (select motor/gearbox type)	1	4		i			
	Without motor, without gearbox, without adaptation material	1	Х		i			
Gearbox interface (4)	PLE 40 - straight planetary gearbox	1		0G	i			
,	PLE 60 - straight planetary gearbox	1		1G				
	PLE 80 - straight planetary gearbox	1		3G				
	PLE 120 - straight planetary gearbox	1		5G				
	WPLE 40 - angular planetary gearbox	1		0A				
	WPLE 60 - angular planetary gearbox	1		1A				
	WPLE 80 - angular planetary gearbox	1		3A	i			
	WPLE 120 - angular planetary gearbox	1		5A				
	Third-party gearbox without mounting by Schneider Electric (gearbox drawing required)	1		YY	i			
	Third-party gearbox with mounting by Schneider Electric (gearbox must be provided)	1		ZZ	i			
	Without gearbox	1		XX				
Gearbox orientation (3) (5)	0°	1		701	3			
204.20% 01.01.14.101. (0) (0)	90°	1			0			
	180°	1			9			
	270°	1			6			
	Without gearbox	1			X			
Motor interface	Stepper motors BRS 368	1				V8		
notor interface	Stepper motors BRS 397, 39A	1				V9		
	Stepper motors BRS 39B	1				VO		
	Stepper motors BRS 3AC, 3AD	1				V1		
	Integrated drive with stepper motor ILS•••571, 572	1				16		
	Integrated drive with stepper motor ILS•••573	1				17		
	Integrated drive with stepper motor ILS•••873	1				19		
		1				18		
	Integrated drive with stepper motor ILS•••853	1				E7		
	Integrated drive with brushless DC motor ILE••66 with spur wheel gear	1				A6		
	Integrated drive with servo motor ILA •• 57	1				H0		
	Servo motors BSH/SH3 0401, 0402	1						
	Servo motors BSH/SH3 055	_				H5		
	Servo motors BSH/BMH/BMI/MH3/SH3/ILM 0701, 0702	1				H7		
	Servo motors BSH/BMH/BMI/MH3/SH3/ILM 0703	1				H8		
	Servo motors BSH/BMH/BMI/MH3/SH3/ILM 1001, 1002, 1003	1				H1		
	Servo motors BSH 10040.63	1				H4		
	Servo motors BSH/BMH/MH3/SH3/ILM 1401, 1402, 1403	1				H2		
	Servo motors BCH2•B A5, 01	1				C1		
	Servo motors BCH2●D 02, 04	1				C2		
	Servo motors BCH2●F 04	1				C3		
	Servo motors BCH2●F 07	1				C4		
	Servo motors BCH2●H 10, 20	1				C5		
	Servo motors BCH2●M 08	1				C6		
	Servo motors BCH2●M 03, 05, 06, 10, 09, 15, 20	1				C7		
	Servo motors BCH2●R 20, 30, 35, 45	1				C8		
	Third-party motor without mounting by Schneider Electric (motor drawing required)	1				YY		
	Third-party motor with mounting by Schneider Electric (motor drawing required; motor must be provided)	1				ZZ		
	Without motor	1				XX		
Notor orientation (3) (6)	0°	1					3	
- (-/(-/	90°	1					0	
	180°	1					9	
	270°	1					6	
	Without motor	1					X	
	+ State the planetary gearbox gear ratio and the complete motor reference at the end of the reference							٩

- (2) For the first part of the reference, see page 20.
- (3) For further information, refer to motor and/or gearbox configuration and orientation (see below).
 (4) Planetary gearboxes from company Neugart GmbH.
- (5) In case of a straight planetary gearbox, the orientation references to the setscrew of the drive unit adaptation.
- (6) With reference to the motor connectors.

Motor and/or gearbox configuration and orientation Straight mounted PAS4eS...S/2eGeeee PAS4eS...S/3eAeeeX PAS4eS...S/4eeXeeX













PAS4•S...D/XXXXXXX



Linear tables with movable carriage and fixed axis profile

Lexium TAS4 linear tables



Lexium TAS4 linear table with motor mounted

Presentation (1)

Lexium TAS4 are ready-to-install linear tables with ball screw and two linear guides in three sizes. The axis profile is fixed in place and the load is mounted on the movable carriage. The linear tables are ideally suited for applications with high feed force and for the transport of heavy loads at medium speeds.

- The very good repeatability of the Lexium TAS4 linear tables is made possible by the ball screw. To adapt the feed forces, speeds and accelerations to the application, three ball screw pitches are available for each size.
- One type of guide is available for transmitting the load to the axis profile designed using FEM:
 - The double recirculating ball bearing guide in combination with the rigid axis
 profile is particularly suitable for applications with lateral torsional torque (Mx)
 or applications with very high force and torque loads.
- The individual forces (Fx, Fy, Fz) and torques (Mx, My, Mz) of the Lexium TAS4 tables are designed for a long service life of 10,000 km (6,214 miles). If the specified forces and torques are not reached, the service life of the Lexium TAS4 linear tables increase.
- The T-slots at the bottom and on both sides of the axis profile can be used to fasten the Lexium TAS4 linear tables. The linear tables are typically used horizontally, but can also be mounted vertically, laterally or overhead.
- The linear tables Lexium TAS4 are optionally available with bellows to protect internal components, such as ball screw and linear guide. Furthermore, internal sensors and a belt drive can be selected as options. The belt drive can be mounted in four different positions.
- The Lexium TAS4 linear tables can be combined with all motors and / or gearboxes offered by Schneider Electric. The mounting of third-party motors and / or third-party gearboxes is also possible.

Applications

Applications with the following requirements:

- Feed movement without mechanical backlash: cutting, separating, labeling, etc.
- High feed forces: clamping, machining, etc.
- Precise movement of heavy loads: material handling, etc.
- Precise positioning: optical applications, laser use, etc.

Special product features

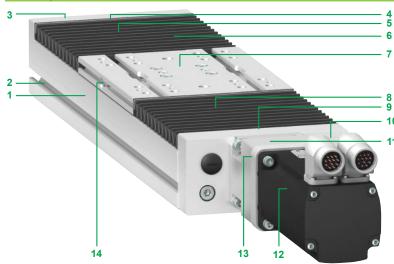
- Stroke deliverable per millimeter
- Carriage with threaded holes and centering for reproducible load mounting
- Exchangeable grease nipples, for example to mount an automatic lubrication system
- Motor and gearbox assembly via flexible coupling system
- Sensors movable in T-slot
- Customized special solutions on request

(1) Technical data (characteristics, dimensions, etc.) for Lexium TAS4 linear tables are available on the <u>product data sheet</u>.

Linear tables with movable carriage and fixed axis profile

Lexium TAS4 linear tables

Description (1) (2)



T-slots for mounting the axis (on both sides and on lower side)

End plate

Bellow clamp (four per axis, optional equipment)
Bellow (two per axis, optional equipment)
Ballscrew (hidden, under the bellow)

Carriage with threaded holes and T-slots for load mounting Sensor with cable or connector (hidden, under the bellow, optional equipment)

Drive block with drive shaft
Cable gland for sensor cable outlet (hidden)
Coupling housing (optional equipment)
Motor (optional equipment)

Adaptation plate (optional equipment)

Exchangeable grease nipples on each side of the carriage (one per side)

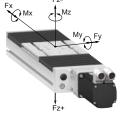
Mechanical characteristics (1)

Force and torque (Fx, Fy, Fz, Mx, My, Mz) are calculated for a service life of 5,000 km (3,107 miles) for TAS41 and 10,000 km (6,214 miles) for

Type of linear table		TAS41SBA	TAS41SBB	TAS41SBC	TAS42SBB	TAS42SBC	TAS42SBD	TAS43SBB	TAS43SBC	TAS43SBE		
Axis profile cross-section (width x height)	mm (in)	Size 1 : 100 x	39 (3.94 x 1.5	54)	Size 2 : 150 x	54 (5.91 x 2.1	13)	Size 3: 200 x	59 (7.87 x 2.3	32)		
Type of mechanical drive element		Ballscrew										
Type of guide		Double ball g	uide									
	mm/rev (in/rev)	2 (0.08)	5 (0.2)	10 (0.39)	5 (0.2)	10 (0.39)	16 (0.63)	5 (0.2)	10 (0.39)	20 (0.79)		
Ballscrew diameter	mm (in)	12 (0.47)			16 (0.63)			20 (0.79)				
Max. feed force (Fx) (4)	N (lbf)	500 (112.40)	800 (179.84)	780 (175.35)	2,200 (494.57)	1,120 (251.78)	1,080 (242.79)	2,580 (580.00)	1,760 (395.66)	1,700 (382.17)		
Max. speed (3)	m/s (ft/s)	0.1 (0.33)	0.25 (0.82)	0.5 (1.64)	0.25 (0.82)	0.5 (1.64)	0.8 (2.62)	0.25 (0.82)	0.5 (1.64)	1 (3.28)		
	m/s² (ft/s²)	0.8 (2.62)	2 (6.56)	4 (13.12)	2 (6.56)	4 (13.12)	6.4 (21.00)	2 (6.56)	4 (13.12)	8 (26.25)		
	Nm (lbf/in)	0.4 (3.54)	0.9 (7.96)	1.6 <i>(14.16)</i>	2.2 (19.47)	2.3 (20.35)	3.4 (30.09)	2.7 (23.89)	3.5 (30.97)	6.4 (56.64)		
Max. force (Fy) (4)	N (lbf)	1,720 (386.6	7)		2,660 (597.9	9)		3,550 (798.07)				
Max. force (Fz) (4)	N (lbf)	+ 2,155 (484	.46)		+ 6,285 (1,41	12.92)		+ 8,380 (1,88	33.89)			
	N (lbf)	- 2,155 <i>(-484</i>	.46)		- 3,140 <i>(-705</i>	5.90)		- 4,190 <i>(-941</i>	.94)			
	Nm (lbf/in)	48 (424.83)			110 (973.58)			205 (1,814.4	(0)			
	Nm (lbf/in)	90 (796.56)			190 (1,681.6	(4)		335 (2,964.99)				
	Nm (lbf/in)	72 (637.25)	7.25) 160 (1,416.11) 285 (2,522.46)					(6)				
Minmax. stroke (5)	mm (in)	7600 (0.28	23.62)		91,000 (0.3539.37)				111,500 (0.4359.06)			
Repeatability	mm (in)	± 0.02 (0.001)									

- (1) All technical data (characteristics, dimensions, etc.) for Lexium TAS4 linear tables are available on the product data sheet.
- (2) Description of Lexium TAS linear tables; the configuration options selected will determine whether or not certain components are included.
- (3) Depending on load and stroke.
 (4) Forces and torques decrease at increasing speeds. If several forces (Fy, Fz) and torques (Mx, My, Mz) acting at the same time, refer to the <u>user guide</u>.
 (5) Min. stroke required for the lubrication of the linear guide.





Linear tables with movable carriage and fixed axis profile

Lexium TAS4 linear tables

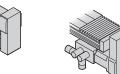
To order Lexium TAS4 line	ear table, complete each reference by replacing the "•'	' :										
Example: TAS42SBD0500A1E	3S / (2)	TAS4	•	S	В	•	••••	•	1	•	•	1(2
Size (Axis profile cross- section)	100 x 39 mm (3.94 x 1.54 in)		1									/
section	150 x 54 mm (5.91 x 2.13 in)		2									1
	200 x 59 mm (7.87 x 2.32 in)		3									1
Type of mechanical drive element	Ballscrew			S								1
Type of guide	Double recirculating ball bearing guide				В							/
Ballscrew pitch	2 mm/rev (0.08 in/rev) (for size 1)					Α						/
	5 mm/rev (0.19 in/rev) (for size 1, 2 and 3)					В						1
	10 mm/rev (0.39 in/rev) (for size 1, 2 and 3)					С						/
	16 mm/rev (0.63 in/rev) (for size 2)					D						1
	20 mm/rev (0.79 in/rev) (for size 3)					Ε						1
Stroke (3)	State the length in mm											1
Sensors	Two PNP sensors as normally closed contacts, not connected (4)											1
	Two PNP sensors as normally closed contacts, not connected (5)											/
	Two PNP sensors as normally closed contacts, connected											1
	Without sensors							N				/
Type of carriage	Type 1								1			1
Axis options	With bellow									В		1
	Without bellow									N		1
Mounting options for motor (6)	Straight mounted										S	1
	With mounted motor, driven by a belt drive above										0	1
	With mounted motor, driven by a belt drive below										U	1
	With mounted motor, driven by a belt drive left										L	/
	With mounted motor, driven by a belt drive right										R	1
	With shaft										N	1

- (1) All technical data (characteristics, dimensions, etc.) for Lexium TAS4 linear tables are available on the product data sheet.

- (1) An estimical data (characteristics, dimensions, etc.) for Lexium TAS4 linear tables are available on the product data sneet.
 (2) For the second part of the reference, see page 25.
 (3) For the min. and max. stroke per size, refer to the mechanical characteristics of the linear tables (see page 23).
 (4) Supplied with a 5 m (16.40 ft) cable with flying leads at one end.
 (5) Supplied with a 0.2 m (0.66 ft) cable equipped with an M8 connector. For sensor extension cable, refer to accessories (see page 55).
 (6) For the possible mounting options see the following pictures:

Straight mounted	Driven by a belt d	rive			With shaft
TAS4S/	TAS4O/	TAS4U/	TAS4L/	TAS4R/	TAS4N/XXX
	~ .				
	X992			(Pa	











Linear tables with movable carriage and fixed axis profile

Lexium TAS4 linear tables

Example: TAS42SBD050 + BMH0702P01A2A	00A1BS (2)/H70	(2)/	••	•	+		
lotor interface	Stepper motors BRS 368	1	V8				
	Stepper motors BRS 397, 39A	1	V9				
	Stepper motors BRS 39B	1	V0				
	Stepper motors BRS 3AC, 3AD	1	V1				
	Integrated drive with stepper motor ILS•• 571, 572	1	16				
	Integrated drive with stepper motor ILS•• 573	1	17				
	Integrated drive with stepper motor ILS•• 851, 852	1	19		Н		
	Integrated drive with stepper motor ILS•• 853	1	18				
	Integrated drive with brushless DC motor ILE●● 66 with spur wheel gear	1	E7				
	Integrated drive with servo motor ILA • • 57	1	A6				
	Servo motors BSH/SH3 0401, 0402	1	Н0		Н		
	Servo motors BSH/SH3 055						
	Servo motors BSH/BMH/BMI/MH3/SH3/ILM 0701, 0702	1	Н7				
	Servo motors BSH/BMH/BMI/MH3/SH3/ILM 0703	1	Н8		Н		
	Servo motors BSH/BMH/BMI/MH3/SH3/ILM 1001, 1002, 1003	1	H1				
	Servo motors BSH 1004	1	H4				
	Servo motors BSH/BMH/MH3/SH3/ILM 1401, 1402, 1403, 1404	1	H2				
	Servo motors BCH2●B A5, 01	1	C1				
	Servo motors BCH2●D 02, 04	1	C2				
	Servo motors BCH2●F 04	1	С3				
	Servo motors BCH2●F 07	1	C4				
	Servo motors BCH2eH 10, 20	1	C5		П		
	Servo motors BCH2●M 08	1	C6				
	Servo motors BCH2●M 03, 05, 06, 10, 09, 15, 20	1	C7		П		
	Servo motors BCH2●R 20, 30, 35, 45	1	C8				
	Third-party motor without mounting by Schneider Electric (motor drawing required)	1	YY				
	Third-party motor with mounting by Schneider Electric (motor drawing required; motor must be provided)	1	ZZ		П		
	Without motor	1	XX				
otor orientation (3)	0°	1		3			
	90°	1		0			
	180°	1		9			
	270°	1		6			
	Without motor	1		X			

- (1) Technical data (characteristics, dimensions, etc.) for Lexium TAS4 linear tables are available on the <u>product data sheet</u>. (2) For the first part of the reference, see <u>page 24</u>. (3) For further information, refer to motor orientation (see below).

Motor orientation					
Straight mounted	Driven by a belt drive				With shaft
TAS4S/•••	TAS4O/•••	TAS4U/•••	TAS4L/•••	TAS4R/•••	TAS4N/XXX
90° 0° 180° 270°	90° 180° 0° 270°	90° 180° 270°	90° 180° 270°	90° 180°	

Cantilever axes with moveable axis profile or end plates and fixed drive block Lexium CAS4 cantilever axes



Lexium CAS4 cantilever axes with motor and gearbox mounted

Presentation (1)

Lexium CAS4 are ready-to-install cantilever axes with toothed belt drive and one linear guide in four sizes. In contrast to the portal axes, the carriage and the drive block are fixed in place. The load is mounted on the movable axis profile or on one of the two end plates attached to the axis profile. The cantilever axes are ideal for lifting heavy loads with short and long strokes.

- The medium speeds and high accelerations of the Lexium CAS4 cantilever axes enable short positioning times. The high feed forces with good repeatability are made possible by the steel tension members in the toothed belt. The fabric coating of the toothed belt ensures friction-optimized in and out toothing and thus quiet and smooth movement.
- Two types of guides are available for transmitting the load to the axis profile designed using FEM:
 - The double ball guide is particularly suitable for applications with high force and torque loads.
 - The roller guide is a cost-optimized guide and is suitable for applications with lower force and torque loads.
- The individual forces (Fx, Fy, Fz) and torques (Mx, My, Mz) of the Lexium CAS4 cantilever axes are designed for a long service life of 15,000 km (9,321 miles). If the specified forces and torques are not reached, the service life of the Lexium CAS4 cantilever axes increase.
- The threads in the carriage can be used to fasten the Lexium CAS4 cantilever axes. The cantilever axes are typically used vertically, but can also be mounted horizontally, laterally or overhead. The permissible forces and torques do not change.
- The Lexium CAS4 cantilever axes are optionally available with a cover strip to protect internal components, such as linear guide. Furthermore, an antistatic toothed belt and various sensors can be selected as options.

The Lexium CAS4 cantilever axes can be combined with all motors and / or gearboxes offered by Schneider Electric. The mounting of third-party motors and / or third-party gearboxes is also possible.

Applications

Applications with the following requirements:

- Loop-back movement within a work area: pusher, etc.
- High feed forces: clamping, cutting, etc.
- Positioning over long distances: material handling, etc.

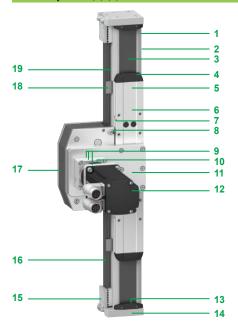
Special product features

- Stroke deliverable per millimeter
- End plates and carriage with threaded holes and centering for reproducible load mounting
- Exchangeable grease nipples, for example to mount an automatic lubrication system
- Easy maintenance due to lubrication at each stroke position and grease nipples on both sides of the carriage
- Motor and gearbox assembly via flexible coupling system on all four sides of the end blocks
- Sensors movable in T-slot
- Customized special solutions on request

⁽¹⁾ Technical data (characteristics, dimensions, etc.) for Lexium CAS4 cantilever axes are available on the product data sheet.

Cantilever axes with moveable axis profile or end plates and fixed drive block Lexium CAS4 cantilever axes

Description (1) (2)



- Axis profile
- T-slots for mounting the load (on one side and on the back)
- Cover strip (optional equipment)
- Rubber buffer (two per axis)
- Strip deflector (two per axis, optional equipment)
- Carriage with threaded holes and centering for reproducible axis mounting
- Exchangeable grease nipples on each side of the carriage (two per side)
- Sensor with cable and connector (two per axis, optional equipment)
- Adaptation plate (optional equipment)
- 10 Gearbox (optional equipment)
- 11 Drive block including toothed belt pulley with hollow shaft
- 12 Motor (optional equipment)
- 13 Cover strip clamp (two per axis, optional equipment)
- 14 End plate with threaded holes and centering for reproducible load mounting (two per axis)
- 15 Toothed belt tensioner (two per axis)
- 16 Toothed belt
- 17 Drive block cover
- 18 Contact plate (two per axis)
- 19 T-slot for positioning the contact plate

Mechanical characteristics (1)

Force and torque (Fx. Fy. Fz. Mx. My. Mz) are calculated for a service life of 15,000 km (9,321 miles)

Force and torque (FX, Fy,	I Z, IVIX, IVIY,	iviz) are calculated	ioi a sei vice ille	OI 10,000 KIII (3,	32 i iiiie3)		
Type of cantilever axis		CAS41BR	CAS42BR	CAS42BB	CAS43BR	CAS43BB	CAS44BB
Axis profile cross-section (width x height)	mm (in)	Size 1 : 40 x 40 (1.58 x 1.58)	Size 2 : 60 x 60 (2.	36 x 2.36)	Size 3 : 80 x 80 <i>(</i> 3	.15 x 3.15)	Size 4: 110 x 110 (4.33 x 4.33)
Type of mechanical drive element		Toothed belt					
Type of guide		Roller guide		Ball guide	Roller guide	Ball guide	
Feed per revolution	mm/rev (in/rev)	84 (3.31)	155 <i>(6.10)</i>		205 (8.07)		264 (10.39)
Max. feed force (Fx) (4)	N (lbf)	250 (56.20)	650 (146.12)		900 (202.32)		2,150 <i>(483.33)</i>
Max. speed (3)	m/s (ft/s)	3 (9.84)					
Max. acceleration (3)	m/s² (ft/s²)	20 (65.62)		50 (164.04)	20 (65.62)	50 (164.04)	
Max. drive torque (4)	Nm (lbf/in)	3.5 (30.97)	16 (141.61)		30 (265.52)		90 (796.56)
Max. force (Fy) (4)	N (lbf)	930 (209.07)		3,540 (795.82)	2,430 (546.28)	5,550 (1,247.68)	7,890 (1,773.74)
Max. force (Fz) (4)		600 (134.88)		3,540 (795.82)	1,430 (321.47)	5,550 (1,247.68)	7,890 (1,773.74)
Max. torque (My) (4)	Nm	7 (61.95)	13 (115.05)	24 (212.41)	40 (354.02)	53 (469.08)	85 (752.31)
Max. torque (Mz) (4)	(lbf/in)	24 (212.41)	29 (256.67)	250 (2,212.68)	85 (752.31)	487 (4,310.31)	1,021 (9,036.61)
Max. torque (Mz) (4)		37 (327.47)	45 (398.28)	250 (2,212.68)	144 (1,274.50)	487 (4,310.31)	1,021 (9,036.61)
Minmax. stroke (5)	mm (in)	125400 (<i>4.9215.75</i>)	125600 (4.9223.62)	9700 (<i>0.3527.56</i>)	175800 (6.8931.50)	111,000 (<i>0.4</i> 339.37)	131,800 (<i>0.5170.87</i>)
Repeatability	mm (in)	± 0.05 (± 0.002)					
Typical payloads (6)	kg/ <i>lb</i>	6 (13,23)	10 (22,04)	20 (44,09)	15 (33,07)	30 (66,14)	60 (132,28)

- (1) Technical data (characteristics, dimensions, etc.) for Lexium CAS4 cantilver axes are available on the <u>product data sheet</u>.
 (2) Description of Lexium CAS4 cantilever axes; the configuration options selected will determine whether or not certain components are included.
 (3) Depending on load and stroke.
- (4) Forces and torques decrease at increasing speeds. If several forces (Fy, Fz) and torques (Mx, My, Mz) acting at the same time, refer to the <u>hardware quide</u>. (5) Min. stroke required for the lubrication of the linear guide. For information about greater strokes for ball guides, contact your Schneider Electric representative. (6) Values can also be exceeded. Refer to max. force (Fx) value, contact your Schneider Electric representative.



Cantilever axes with moveable axis profile or end plates and fixed drive block Lexium CAS4 cantilever axes

To order Lexium CAS4 c	antilever axes, complete each reference by replacing	he "•" :										
Example: CAS42BBM0350A3	BNR/ (2)	CAS4	•	В	•	M	••••	•	3	•	•	1(2
Size (axis profile cross-	40 x 40 mm (1.57 x 1.57 in)		1									1
section)	60 x 60 mm (2.36 x 2.36 in)		2									1
	80 x 80 mm (3.15 x 3.15 in)		3									1
	110 x 110 mm (4.3 x 4.3 in)		4									1
Type of mechanical drive element	Toothed belt			В								1
Type of guide	Recirculating ball bearing guide (for size 2, 3, 4)				В							1
	Roller guide (for size 1, 2, 3)				R							1
Feed per revolution	84 mm/rev (3.3 in/rev) (for size 1)					M						1
	155 mm/rev (6.1 in/rev) (for size 2)					M						1
	205 mm/rev (8 in/rev) (for size 3)	·										1
	264 mm/rev (10.4 in/rev) (for size 4)											1
Stroke (3)	State the length in mm											1
Sensors (4)	Two PNP sensors as normally closed contacts, not connected											1
	Two PNP sensors as normally closed contacts, connected							В				1
	Two NPN sensors as normally closed contacts, not connected							Е				1
	Two NPN sensors as normally closed contacts, connected											1
	Two NPN sensors as normally open contacts, not connected							G				1
	Two NPN sensors as normally open contacts, connected							Н				1
	Without sensors, without contact plate							N				1
Type of carriage	Type 3								3			1
Axis options	With anti-static toothed belt/without cover strip									Α		1
	With cover strip									В		1
	Anti-corrosion version/without cover strip									С		1
	Anti-corrosion version/with anti-static toothed belt/ without cover strip									Е		1
	With anti-static toothed belt/with cover strip									L		1
	Without option									N		1
Mounting options for motor	Hollow shaft										Н	1
and/or gearbox (5)	On right-hand side										R	1

- (1) Technical data (characteristics, dimensions, etc.) for Lexium CAS4 cantilever axes are available on the <u>product data sheet</u>.
 (2) For the second part of the reference, see page 29.
 (3) For the min. and max. stroke per size, refer to the mechanical characteristics of the cantilever axes (see page 27).
 (4) Supplied with a 0.1 m (0.33 ft) cable equipped with an M8 connector. For sensor extension cable, refer to accessories (see page 55).
 (5) For the possible mounting options see the following pictures:

Hollow shaft Right-hand side CAS4...H/XXXXXXX CAS4...R/...





Cantilever axes with moveable axis profile or end plates and fixed drive block Lexium CAS4 cantilever axes

Example: CAS-422BM0330A3NR (2/21G9H79 + PLE69 31 + BM10702P01A2A	References (continu	cantilever axes, complete each reference by replacing the "•":						
Motor and yearbox onfiguration (3)	Example: CAS42BBM0350A	3NR (2)/21G9H79	(2)	•	••	•	••	•
Motor and gearbox 7 2 3 4 5 5 5 5 5 5 5 5 5			1	1				
Gearbox only Without motor, without gearbox, with adaptation material (select motor/gearbox type)			_					
Without motor, without gearbox, with adaptation material (select motor/gearbox type)	33 (0)		_					
Without motor/without gearbox, without adaptation material		· · · · · · · · · · · · · · · · · · ·						
Pil.E. 40 - straight planetary gearbox			_	_				
PLE 60 - straight planetary gearbox PLE 80 - straight planetary gearbox PLE 120 - straight planetary gearbox PLE 120 - straight planetary gearbox WPLE 40 - angular planetary gearbox WPLE 60 - angular planetary gearbox WPLE 70 - angular planetary gearbox WPLE 80 - angular planetary gearbox PLE 120 - angular planetary gearbox WPLE 80 - angular planetary gearbox WPLE 80 - angular planetary gearbox WPLE 80 - angular planetary gearbox I	Coarbox interface (4)		_	^	00			
PLE 80 - straight planetary gearbox PLE 120 - straight planetary gearbox WPLE 40 - angular planetary gearbox WPLE 60 - angular planetary gearbox WPLE 80 - angular planetary gearbox WPLE 80 - angular planetary gearbox WPLE 80 - angular planetary gearbox WPLE 120 - angular planetary gearbox WPLE 120 - angular planetary gearbox Third-party gearbox without mounting by Schneider Electric (gearbox drawing required) Third-party gearbox without mounting by Schneider Electric (gearbox must be provided) Third-party gearbox without mounting by Schneider Electric (gearbox must be provided) Third-party gearbox Third-party motor with out mounting by Schneider Electric (gearbox drawing required) Third-party motor with mounting by Schneider Electric (gearbox drawing required) Third-party motor with mounting by Schneider Electric (gearbox drawing required) Third-party motor with mounting by Schneider Electric (gearbox drawing required) Third-party motor with mounting by Schneider Electric (gearbox drawing required) Third-party motor with mounting by Schneider Electric (motor drawing required) Third-party motor with mounting by Schneider Electric (motor drawing required) Third-party motor with mounting by Schneider Electric (motor drawing required) Third-party motor with mounting by Schneider Electric (motor drawing required) Third-party moto	Bearbox interrace (4)		_					
PLE 120 - straight planetary gearbox WPLE 60 - angular planetary gearbox WPLE 60 - angular planetary gearbox WPLE 60 - angular planetary gearbox WPLE 80 - angular planetary gearbox WPLE 120 - angular planetary gearbox Without gearbox Without gearbox Searbox orientation (3) (5) 90° 90° 10			_					
WPLE 40 - angular planetary gearbox WPLE 80 - angular planetary gearbox WPLE 90 - angular planetary gearbox WPLE 120 - angular planetary gearbox Third-party gearbox without mounting by Schneider Electric (gearbox drawing required) I YY Third-party gearbox with mounting by Schneider Electric (gearbox must be provided) I XX Bearbox orientation (3) (5) 9° 1/ 180° 270° Without gearbox I I Searbox I I Searbox Vithout gearbox Vithout gearbox Vithout gearbox I I Searbox Vithout gearbox Vithout gearbox Vithout gearbox Vithout gearbox I I Searbox Vithout gearbox Vithout g			_					
WPLE 60 - angular planetary gearbox			_					
WPLE 120 - angular planetary gearbox WPLE 120 - angular planetary gearbox Third-party gearbox without mounting by Schneider Electric (gearbox drawing required) Third-party gearbox without mounting by Schneider Electric (gearbox drawing required) Third-party gearbox without mounting by Schneider Electric (gearbox must be provided) Third-party gearbox without mounting by Schneider Electric (gearbox must be provided) Third-party gearbox without mounting by Schneider Electric (gearbox must be provided) Third-party gearbox Third-party motor Sch12eF 04 Servo motors BSH/SHM/IMM/SH3/ILM 1001, 1002, 1003 Third-party gearbox Third-party motor with out mounting by Schneider Electric (motor drawing required) Third-party motor with cumuning by Schneider Electric (motor drawing required) Third-party motor with mounting by Schneider Electric (motor drawing required) Third-party motor with mounting by Schneider Electric (motor drawing required) Third-party motor with mounting by Schneider Electric (motor drawing required) Third-party motor with mounting by Schneider Electric (motor drawing required) Third-party motor with mounting by Schneider Electric (motor drawing required) Third-party motor with mounting by Schneider Electric (motor drawing required) Third-party motor with mounting by Schneider Electric (motor drawing required) Third-party motor with mounting by Schneider Electric (motor drawing required) Third-party motor with mounting by Schneider Electric (motor drawing required) Third-party motor with mounting by Schneider Elec			_					
### WPLE 120 - angular planetary gearbox ### Third-party gearbox without mounting by Schneider Electric (gearbox drawing required)			_					
Third-party gearbox without mounting by Schneider Electric (gearbox drawing required)			_					
Third-party gearbox with mounting by Schneider Electric (gearbox must be provided)			_					
Searbox orientation (3) (5) 0°			_					
Searbox orientation (3) (5) 0° 1 90° 1 1 0 0 1 1 0 0 1 1		Third-party gearbox with mounting by Schneider Electric (gearbox must be provided)	_					
90° 180° 7 9 90° 17 9 90° 17 9 90° 180° 270° 17 9 90° 180° 270° 17 9 90° 180° 270° 180° 17 9 90° 18			_		XX			
180° 270° 7	Gearbox orientation (3) (5)	0°	1			3		
270° Without gearbox		90°	1			0		
Mithout gearbox Stepper motors BRS 388 Stepper motors BRS 397, 39A I		180°	1			9		
Stepper motors BRS 368 7		270°	1			6		
Stepper motors BRS 397, 39A		Without gearbox	1			X		
Stepper motors BRS 39B 1	Notor interface	Stepper motors BRS 368	1				V8	
Stepper motors BRS 3AC, 3AD Integrated drive with stepper motor ILS●671, 572		Stepper motors BRS 397, 39A	1				V9	
Stepper motors BRS 3AC, 3AD Integrated drive with stepper motor ILS●•571, 572		Stepper motors BRS 39B	1				V0	
Integrated drive with stepper motor ILS●671, 572		• • • • • • • • • • • • • • • • • • • •	1				V1	
Integrated drive with stepper motor ILS●e573			1				16	
Integrated drive with stepper motor ILS●e851, 852			_				17	
Integrated drive with stepper motor ILS●6853 Integrated drive with brushless DC motor ILE●666 with spur wheel gear Integrated drive with servo motor ILA●57 Servo motors BSH/SH3 0401, 0402 Integrated drive with servo motor ILA●57 Servo motors BSH/SH3 055 Servo motors BSH/BH3 055 Servo motors BSH/BMH/BMI/MH3/SH3/ILM 0701, 0702 Integrated drive with servo motor BSH/BMH/BMI/MH3/SH3/ILM 0701, 0702 Integrated drive with servo motor BSH/BMH/BMI/MH3/SH3/ILM 0701, 0702 Integrated drive with servo motors BSH/BMH/BMI/MH3/SH3/ILM 0701, 0702 Integrated drive with servo motors BSH/BMH/BMI/MH3/SH3/ILM 0701, 0702 Integrated drive with servo motors BSH/BMH/BMI/MH3/SH3/ILM 0701, 0702 Integrated drive with servo motors BSH/BMH/BMI/MH3/SH3/ILM 0701, 0702 Integrated drive with servo motors BSH/BMH/BMI/MH3/SH3/ILM 0701, 0702 Integrated drive with servo motors BSH/BMH/BMI/MH3/SH3/ILM 0701, 0702 Integrated drive with servo motors BSH/BMH/BMI/MH3/SH3/ILM 0701, 0702 Integrated drive with servo motors BSH2●BA 0, 070 In			_				19	
Integrated drive with brushless DC motor ILE●66 with spur wheel gear			_				18	
Integrated drive with servo motor ILA●●57			_				E7	
Servo motors BSH/SH3 0401, 0402		_ · · · · · · · · · · · · · · · · · · ·	_				A6	
Servo motors BSH/SH3 055 1			_		_		HO	
Servo motors BSH/BMH/BMI/MH3/SH3/ILM 0701, 0702			_				H5	
Servo motors BSH/BMH/BMI/MH3/SH3/ILM 0703			_				_	
Servo motors BSH/BMH/BMI/MH3/SH3/ILM 1001, 1002, 1003		· · · · · · · · · · · · · · · · · · ·	_				H7	
Servo motors BSH 1004			_				H8	
Servo motors BSH/BMH/MH3/SH3/ILM 1401, 1402, 1403, 1404			_				H1	
Servo motors BCH2			_				H4	
Servo motors BCH2●D 02, 04			_		_		H2	
Servo motors BCH2●F 04 7		· · · · · · · · · · · · · · · · · · ·	_				C1	
Servo motors BCH2•F 07		Servo motors BCH2●D 02, 04	_				C2	
Servo motors BCH2●H 10, 20			1				C3	
Servo motors BCH2		Servo motors BCH2●F 07	- 1				C4	
Servo motors BCH2		Servo motors BCH2●H 10, 20	1				C5	
Servo motors BCH2•R 20, 30, 35, 45 Third-party motor without mounting by Schneider Electric (motor drawing required) Third-party motor with mounting by Schneider Electric (motor drawing required; motor must be provided) Without motor I 90° 1 180° 17 180° 17 180° 17 180° 180		Servo motors BCH2●M 08	1				C6	
Third-party motor without mounting by Schneider Electric (motor drawing required) Third-party motor with mounting by Schneider Electric (motor drawing required; motor must be provided) Without motor 1 1 1 1 1 1 1 1 1 1 1 1 1		Servo motors BCH2•M 03, 05, 06, 10, 09, 15, 20	1				C7	
Third-party motor without mounting by Schneider Electric (motor drawing required) Third-party motor with mounting by Schneider Electric (motor drawing required; motor must be provided) Without motor 1 1 1 1 1 1 1 1 1 1 1 1 1		Servo motors BCH2●R 20, 30, 35, 45	1				C8	
Third-party motor with mounting by Schneider Electric (motor drawing required; motor must be provided) 1							YY	
Without motor			_				ZZ	
Motor orientation (3) (6) 0° 1 1 90° 1 1 180° 1 1 1 1 1 1 1 1 1 1			_	1			XX	
90°	Notor orientation (3) (6)		_				AA	3
180° / / 270° / /		·	_		-			0
270° /			_					9
			_	-				
Alithment markers			- 1	-				6
Without motor // Valentary gearbox gear ratio + State the planetary gearbox gear ratio and the complete motor reference at the end of the reference, in plain text.			_ /	<u> </u>				X

- (1) Technical data (characteristics, dimensions, etc.) for Lexium CAS4 cantilever axes are available on the product data sheet.

 (2) For the first part of the reference, see page 28).

 (3) For further information, refer to motor and/or gearbox configuration and orientation (see below).

 (4) Planetary gearboxes from company Neugart GmbH.

 (5) In case of a straight planetary gearbox, the orientation references to the setscrew of the drive unit adaptation.

 (6) With reference to the motor connectors.

Motor and/or gearbox configuration and orientation Hollow shaft Right-hand side CAS4...R/3•G•••X CAS4...R/3•A•••X CAS4...R/4...X CAS4...H/XXXXXXX CAS4...R/2.G. CAS4...R/2.A...

Cantilever axes with moveable axis body or end plates and fixed drive block

Lexium CAR4 cantilever axes

Presentation (1)

Lexium CAR4 are ready-to-install cantilever axes with toothed belt or gear rack drive and two linear guides in five sizes. In contrast to the portal axes, the axis body is fixed in place. The load is mounted on one of the two movable end plates. The cantilever axes are ideal for lifting medium loads with medium strokes.

- The medium speeds and accelerations of the Lexium CAR4 cantilever axes enable short positioning times. The medium feed forces with good repeatability are made possible by the steel tension members in the toothed belt.
- One type of guide is available for transmitting the load to the axis body:
- The linear ball bearing guide is particularly suitable for applications with low to medium force and torque loads.
- The individual forces (Fy, Fz) and torques (Mx, My, Mz) of the Lexium CAR4 cantilever axes are designed for a long service life of 15,000 km (9,321 miles). If the specified forces and torques are not reached, the service life of the Lexium CAR4 cantilever axes increase.
- The threads or the T-slots in the axis body can be used to fasten the Lexium CAR4 cantilever axes. The cantilever axes are typically used vertically, but can also be mounted horizontally, laterally or overhead. The permissible forces and torques do not change.
- The Lexium CAR4 cantilever axes are optionally available with antistatic toothed belt and various sensors.
- The Lexium CAR4 cantilever axes can be combined with all motors and / or gearboxes offered by Schneider Electric. The mounting of third-party motors and / or third-party gearboxes is also possible.

Applications

Applications with the following requirements:

- High-speed positioning for short working distances: material handling, etc.
- High feed forces: clamping, assembly, etc.

Special product features

- Stroke deliverable per millimeter
- Low moving net mass
- End plates with threaded holes and centering for reproducible load mounting
- Linear ball bearing guide lubricated for life
- Motor and gearbox assembly via flexible coupling system
- Customized special solutions on request

(1) Technical data (characteristics, dimensions, etc.) for Lexium CAR4 cantilever axes are available on



Lexium CAR40R cantilever axes with motor mounted



Lexium CAR4•B cantilever axes with motor and gearbox mounted

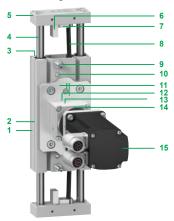
Cantilever axes with moveable axis body or end plates and fixed drive block

Lexium CAR4 cantilever axes

Description (1) (2)



CAR40 with gear rack



- Axis body including rack pinion with hollow shaft
- 2 Linear ball bearing (two per axis)
- Sensor with cable and connector (two per axis, optional equipment)
- Sensor holder (two per axis)
- Guide rod
- End plate with counterbore and centering for reproducible load mounting (two per axis)
- Rubber buffer (two per axis)
- Gear rack
- Slide bearing (two per axis)
- Threaded holes and centering for mounting the axis (on one side)
- 11 Coupling housing (optional equipment)
- **12** Adaptation plate (optional equipment)
- 13 Motor (optional equipment)
- Axis body including toothed belt pulley with hollow shaft
- Threaded holes and centering for mounting the axis (CAR41, on one side and on the back) T-slots for mounting the axis (CAR42, CAR43, CAR44, on both sides and on the back)
- Linear ball bearing (four per axis)
- Guide rod (two per axis)
- End plate with threaded holes, counterbore and centering for reproducible load mounting (two per axis)
- Contact block (two per axis)
- Toothed belt tensioner (two per axis)
- 8 Toothed belt
- Sensor with cable and connector (two per axis, optional equipment)
- 10 Rubber buffer (two per axis, inside axis body)
- 11 Axis body adapter plate
- 12 Coupling housing (optional equipment)
- 13 Adaptation plate (optional equipment)
- 14 Gearbox (optional equipment)
- 15 Motor (optional equipment)

CAR41, CAR42, CAR43, CAR44 with toothed belt

Mechanical characteristics (1)

Force and torque (Fx, Fy, Fz, Mx, My, Mz) are calculated for a service life of 15,000 km (9,321 miles)

Type of cantilever axis	, , ,	CAR40RC	CAR41BC	CAR42BC	CAR43BC	CAR44BC
Axis body cross-section (width x height)	mm (in)	Size 0: 66 x 30 (2.6 x 1.18)	Size 1: 80 x 30 (3.15 x 1.18)	Size 2: 100 x 40 (3.9 x 1.57)	Size 3: 120 x 50 (4.7 x 1.97)	Size 4 : 160 x 50 (6.3 x 1.97)
Type of mechanical drive element		Gear rack	Toothed belt			
Type of guide		Linear ball bearing guide	9			
Feed per revolution	mm/rev (in/rev)	50 (1.97)	75 (2.95)	100 (3.94)	100 (3.94)	100 <i>(3.94)</i>
Max. feed force (Fx) (4)	N (lbf)	80 (17.98)	125 (28.10)	435 (97.79)	535 (120.27)	705 (158.49)
Max. speed (3)	m/s (ft/s)	3 (9.84)				
Max. acceleration (3)	m/s² (ft/s²)	20 (65.62)				
Max. drive torque (4)	Nm (lbf/in)	0.6 (5.31)	1.5 (13.27)	7 (61.95)	8.5 (75.23)	11.5 (101.78)
Max. force (Fy) (4)	N (lbf)	160 (35.96)	210 (47.20)	290 (65.19)	460 (103.41)	950 (213.56)
Max. force (Fz) (4)		130 (29.22)	180 (40.46)	250 (56.20)	400 (89.92)	820 (184.34)
Max. torque (Mx) (4)	Nm (lbf/in)	1.9 (16.81)	5.1 (45.13)	9 (79.65)	16 (141.61)	45 (398.28)
Max. torque (My) (4)		2.8 (24.78)	6.7 (59.29)	21 (185.86)	34 (300.92)	85 (752.31)
Max. torque (Mz) (4)		3.5 (30.97)	7.8 (69.03)	25 (221.26)	39 (345.17)	100 (885.07)
Min Max. stroke (5)	mm <i>(in</i>)	8150 (0.315.90)	8200 (0.317.87)	10300 (0.3911.81)	12400 (0.4715.74)	14500 (0.5519.68)
Repeatability	mm <i>(in</i>)	± 0.05 (± 0.002)				
Typical payload (6)	kg (lb)	1 (2.20)	3 (6.61)	5 (11.02)	10 (22.04)	18 (39.68)

- (1) Technical data (characteristics, dimensions, etc.) for Lexium CAR4 cantilever axes are available on the pro

- (1) Technical data (characteristics, differistions, etc.) for Lexium CARA cantilever axes are available on the product data street.
 (2) Description of Lexium CARA cantilever axes; the configuration options selected will determine whether or not certain components are included.
 (3) Depending on load and stroke.
 (4) Forces and torques decrease at increasing speeds. If several forces (Fy, Fz) and torques (Mx, My, Mz) acting at the same time, refer to the hardware guide.
 (5) Min. stroke required for the lubrication of the linear guide. For information about greater strokes, contact your Schneider Electric representative.
 (6) Values can also be exceeded. Refer to max. force (Fx) value, contact your Schneider Electric representative.



Lexium CAS, CAR
Cantilever axes with moveable axis body or end plates and fixed drive block Lexium CAR4 cantilever axes

To order Lexium CAR4 ca	ntilever axes, complete each reference by replacing th	ne "•" :										
Example: CAR42BCM0150A1N	IR/ (2)	CAR4	•	•	С	M	••••	•	1	•	•	/(2
Size (axis body cross-section)	66 x 30 mm (2.6 x 1.18 in)		0									1
	80 x 30 mm (3.15 x 1.18 in)		1									1
	100 x 40 mm (3.9 x 1.57 in)		2									1
	120 x 50 mm (4.7 x 1.97 in)		3									1
	160 x 50 mm (6.3 x 1.97 in)		4									1
Type of mechanical drive	Gear rack (for size 0)			R								1
element	Toothed belt (for size 1, 2, 3, 4)			В								1
Type of guide	Linear ball bearing guide C										1	
Feed per revolution	50 mm/rev (1.97 in/rev) (for size 0	0 mm/rev (1.97 in/rev) (for size 0										1
	75 mm/rev (2.95 in/rev) (for size 1)					M						1
	100 mm/rev (3.9 in/rev) (for size 2, 3, 4)					M						1
Stroke (3)	State the length in mm											1
Sensors (4)	Two PNP sensors as normally closed contacts, not connected							Α				1
	Two PNP sensors as normally closed contacts, connected							В				1
	Two NPN sensors as normally closed contacts, not connected							Е				1
	Two NPN sensors as normally closed contacts, connected											1
	Two NPN sensors as normally open contacts, not connected							G				1
	Two NPN sensors as normally open contacts, connected							Н				1
	Without sensors, with contact plate							N				1
Type of axis body	Type 1								1			1
Axis options	Antistatic toothed belt (for size 2, 3, 4)									Α		1
	Increased corrosion resistance (for size 1, 2, 3, 4)									С		1
	Increased corrosion resistance, antistatic toothed belt (for size 2, 3, 4)									Е		1
	Without									N		1
Mounting options for motor	Hollow shaft										Н	1
and/or gearbox (5)	On right-hand side									R	1	

- (1) Technical data (characteristics, dimensions, etc.) for Lexium CAR4 cantilever axes are available on the <u>product data sheet</u>.
 (2) For the second part of the reference, see page 33.
 (3) For the min. and max. stroke per size, refer to the mechanical characteristics of the cantilever axes (see page 31).
 (4) Supplied with a 0.1 m (0.33 ft) cable equipped with an M8 connector. For sensor extension cable, refer to accessories (see page 55).
 (5) For the possible mounting options see the following pictures:

Hollow shaft CAR4...H/XXXXXXX Right-hand side



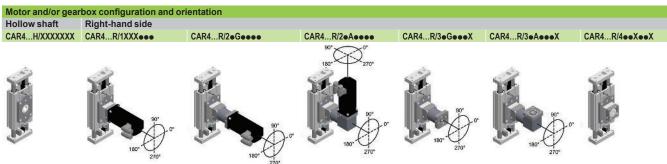


Cantilever axes with moveable axis body or end plates and fixed drive block

Lexium CAR4 cantilever axes

Example: CAR42BCM0150A1		(2)/	•	••	•	••	•	+
+ PLE60 3:1 + BMH0702P01A2	A.							
lotor and/or gearbox	Motor only	1	1					L
onfiguration (3)	Motor and gearbox	1	2					
	Gearbox only	1	3					
	Without motor, without gearbox, with adaptation material (select motor/gearbox type)	1	4					
	Without motor/without gearbox, without adaptation material	1	Х					
earbox interface (4)	PLE 40 - straight planetary gearbox	1		0G				
	PLE 60 - straight planetary gearbox	1		1G				L
	PLE 80 - straight planetary gearbox	1		3G				L
	PLE 120 - straight planetary gearbox	1		5G				L
	WPLE 40 - angular planetary gearbox	1		0A				L
	WPLE 60 - angular planetary gearbox	1		1A				L
	WPLE 80 - angular planetary gearbox	1		3A				L
	WPLE 120 - angular planetary gearbox	I		5A				L
	Third-party gearbox without mounting by Schneider Electric (gearbox drawing required)	1		YY				L
	Third-party gearbox with mounting by Schneider Electric (gearbox must be provided)	1		ZZ				L
	Without gearbox	1		XX				L
earbox orientation (3) (5)	<u>0</u> °	1			3			L
	90°	1			0			L
	180°	1			9			L
	270°	1			6			L
	Without gearbox	1			Х			L
lotor interface	Stepper motors BRS 368	1				V8		L
	Stepper motors BRS 397, 39A	1				V9		L
	Stepper motors BRS 39B	1				V0		L
	Stepper motors BRS 3AC, 3AD	1				V1		L
	Integrated drive with stepper motor ILS●●571, 572	1				16		L
	Integrated drive with stepper motor ILS••573	1				17		L
	Integrated drive with stepper motor ILS●●851, 852	1				19		L
	Integrated drive with stepper motor ILS••853	1				18		
	Integrated drive with brushless DC motor ILE●●66 with spur wheel gear	1				E7		
	Integrated drive with servo motor ILA •• 57	1				A6		
	Servo motors BSH/SH3 0401, 0402	1				H0		Г
	Servo motors BSH/SH3 055	1				H5		
	Servo motors BSH/BMH/BMI/MH3/SH3/ILM 0701, 0702	1				H7		Г
	Servo motors BSH/BMH/BMI/MH3/SH3/ILM 0703	1				H8		Г
	Servo motors BSH/BMH/BMI/MH3/SH3/ILM 1001, 1002, 1003	1				H1		Г
	Servo motors BSH 1004	1				H4		Г
	Servo motors BSH/BMH/MH3/SH3/ILM 1401, 1402, 1403, 1404	1				H2		Г
	Servo motors BCH2●B A5, 01	1				C1		Г
	Servo motors BCH2●D 02, 04	1				C2		Г
	Servo motors BCH2●F 04	1				C3		Г
	Servo motors BCH2●F 07	1				C4		Г
	Servo motors BCH2●H 10, 20	1				C5		Г
	Servo motors BCH2●M 08	1				C6		Γ
	Servo motors BCH2•M 03, 05, 06, 10, 09, 15, 20	1				C7		Г
	Servo motors BCH2•R 20, 30, 35, 45	1				C8		Γ
	Third-party motor without mounting by Schneider Electric (motor drawing required)	1				YY		Г
	Third-party motor with mounting by Schneider Electric (motor drawing required; motor must be	1				ZZ		Г
	provided)							ı
	Without motor	1				XX		r
lotor orientation (3) (6)	0°	1				AA	3	H
0.	90°	1					0	r
	180°	1					9	H
	270°	1	\vdash				6	H
	Without motor	1	\vdash				X	H

- (1) Technical data (characteristics, dimensions, etc.) for Lexium CAR4 cantilever axes are available on the <u>product data sheet</u> (2) For the first part of the reference, see page 32.
 (3) For further information, refer to motor and/or gearbox configuration and orientation (see below).
 (4) Planetary gearboxes from company Neugart GmbH.
 (5) In case of a straight planetary gearbox, the orientation references to the setscrew of the drive unit adaptation.
 (6) With reference to the motor connectors.



Cantilever axes with moveable axis profile or end plates and fixed drive block Lexium CAS2 telescopic axes



Lexium CAS2 telescopic axes with motor and gearbox mounted

Presentation (1)

Lexium CAS2 is a read y-to-install telescopic axis with toothed belt drive and four linear guides with a telescopic carriage. In contrast to the portal axes, the drive block of the telescopic axis is fixed in place. The load is mounted on the moveable telescopic carriage, which in turn is located on the also moveable axis profile. Due to this design, the total length is shorter than the stroke for strokes bigger than 1 m, as the total length only increases by half the stroke. The telescopic axis is ideally suited for the transport of medium loads with medium strokes.

- The medium speeds and accelerations of the Lexium CAS2 telescopic axes enable short positioning times. The medium feed forces with good repeatability are made possible by the steel tension members in the toothed belt.
- One type of guide is available for transmitting the load to the axis profile:
- The double recirculating ball bearing guide is particularly suitable for applications with lateral torsional torque (Mx) and medium force and torque loads.
- The individual forces (Fx, Fy, Fz) and torques (Mx, My, Mz) of the Lexium CAS2 telescopic axes are designed for a long service life of 15,000 km. If the specified forces and torques are not reached, the service life of the Lexium CAS2 telescopic axes increase.
- The T-slots in the carriage of the drive block can be used to fasten the Lexium CAS2 telescopic axes. The telescopic axis is typically used horizontally, but can also be mounted vertically, laterally or overhead. The permissible forces and torques do not change.
- The Lexium CAS2 telescopic axes are available with different carriage lengths.
- The Lexium CAS2 telescopic axes can be combined with all motors and / or gearboxes offered by Schneider Electric. The mounting of third-party motors and / or third-party gearboxes is also possible.

Applications

Applications requiring positioning over long distances where space is at a premium:

- Material handling
- Stock transporters
- Transfer machines
- Etc.

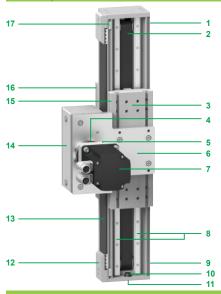
Special product features

- Stroke deliverable per millimeter
- Double stroke length with single total length increase
- Low moving net mass
- Easy maintenance due to lubrication at each stroke position
- Sensor contact block movable in T-slot
- Customized special solutions on request

(1) Technical data (characteristics, dimensions, etc.) for Lexium CAS2 telescopic axes are available on the product data sheet.

Cantilever axes with moveable axis profile or end plates and fixed drive block Lexium CAS2 telescopic axes

Description (1) (2)



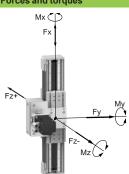
- Axis profile
- Toothed belt (for the carriage)
- Carriage with T-slots for mounting the axis
- Gearbox (optional equipment)
- Adaptation plate (optional equipment)
- Drive block including toothed belt pulley
- Motor (optional equipment)
- Guide (two per carriage)
- End block including deflection pulley (two per axis)
- 10 Rubber buffer (two per axis)
- 11 End plate (two per axis)
- 12 Toothed belt tensioner (two per axis)
- 13 Toothed belt (for the axis profile)
- 14 Drive block cover
- 15 Sensor with cable or connector (inside the carriage, optional equipment)
- 16 Carriage with T-slots for load mounting
- 17 Contact plate (two per axis)

Mechanical characteristics (1)

Force and torque (Fx, Fy, F	z, Mx, My, Mz) are calculated fo	or a service life of	f 30,000 km (18,641 miles)
Type of telescopic axis			CAS24BB
Axis profile cross-section		mm (in)	Size 4: 120 x 95 (4.72 x 3.74)
(width x height)			
Type of mechanical drive elem	ent		Toothed belt
Type of guide			Double ball guide
Feed per revolution		mm/rev (in/rev)	300 (11.81)
Max. feed force (Fx) (3)		N (lbf)	1,500 (337.21)
Max. speed (4)		m/s (ft/s)	3 (9.84)
Max. acceleration (4)		m/s² (ft/s²)	20 (65.62)
Max. drive torque (3)		Nm (lbf/in)	36 (318.62)
Max. force (Fy) (3)		N (lbf)	2,460 (553.03)
Max. force (Fz-, Fz+) (3)	Fz+	N (lbf)	+4,650 (+1,045.36)
	Fz- \	N (lbf)	-2,320 (-521.55)
Max. torque (Mx) (3)		Nm (lbf/in)	70 (619.55)
Max.torque (My) (3)	With carriage type 1	Nm (lbf/in)	281 (2,487.05)
	With carriage type 2		374 (3,310.17)
Max. torque (Mz) (3)	With carriage type 1	Nm (lbf/in)	298 (2,637.52)
	With carriage type 2		397 (3,513.74)
Min Max. stroke (5)		mm (in)	132,400 (0.5194.49)
Repeatability		mm (in)	± 0.1 (0.004)
Typical payload (6)		kg (lb)	35 (77.16)

- (1) Technical data (characteristics, dimensions, etc.) for Lexium CAS2 telescopic axes are available on the product data sheet
- (1) Test initial data (characteristics, dimensions, etc.) for Lexium CAS2 telescopic axes; the configuration options selected will determine whether or not certain components are included.
 (2) Description of Lexium CAS2 telescopic axes; the configuration options selected will determine whether or not certain components are included.
 (3) Forces and torques decrease at increasing speeds. If several forces (Fy, Fz) and torques (Mx, My, Mz) acting at the same time, refer to the hardware guide.
 (4) Depending on load and stroke.
 (5) Min. stroke required for the lubrication of the linear guide. For information about greater strokes for ball guides, contact your Schneider Electric representative.
 (6) Values can also be exceeded. Refer to max. force (Fx) value, contact your Schneider Electric representative.

Forces and torques



Lexium CAS, CAR

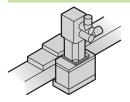
Cantilever axes with moveable axis profile or end plates and fixed drive block Lexium CAS2 telescopic axes

To order Lexium CAS2 to	elescopic axes, complete each reference by replac	ing the	"•":									
Example: CAS24BBM1200A1		CAS2	4	В	В	M	••••	•	•	N	R	/(2,
Size (axis profile cross- section)	120 x 95 mm (4.72 x 3.74 in)		4									I
Type of mechanical drive element	2 toothed belts: 1 for the carriage and 1 for the axis profile			В								I
Type of guide	Double recirculating ball bearing guide				В							1
Feed per revolution	150 mm/rev (5.91 in/rev) (for axis profile) 300 mm/rev (11.81 in/rev) (for axis carriage)										1	
Stroke (3)	State the length in mm						••••					I
Sensors (4)	Two PNP sensors as normally closed contacts, not connecte	d						Α				I
	Two PNP sensors as normally closed contacts, connected							В				I
	Without sensors, with contact plate							N				I
Type of carriage	Type 1								1			1
	Type 2								2			1
Axis options	Without option N							N		I		
Mounting options for motor and/or gearbox (5)	On right-hand side										R	1

- (1) Technical data (characteristics, dimensions, etc.) for Lexium CAS2 telescopic axes are available on the <u>product data sheet</u>.
 (2) For the second part of the reference, see <u>page 37</u>.
 (3) For the min. and max. stroke per size, refer to the mechanical characteristics of the telescopic axes (see <u>page 35</u>).
 (4) Supplied with a 0.1 m (0.33 ft) cable equipped with an M8 connector. For sensor extension cable, refer to accessories (see <u>page 55</u>).
 (5) For the possible mounting options see the following pictures:

Right-hand side

CAS2...R/...

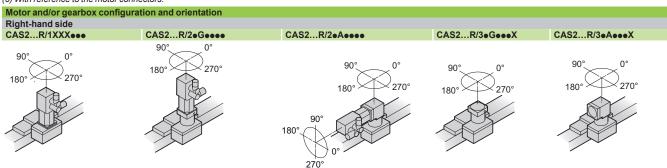


Lexium CAS, CAR

Cantilever axes with moveable axis profile or end plates and fixed drive block Lexium CAS2 telescopic axes

Example: CAS24BBM1200A		(2)/	•	••	•	••	•	+
+ PLE80 3:1 + BMH0702P01A Notor and/or gearbox		1	4					
onfiguration (3)	Motor only Motor and gearbox	1	1					
omigaration (5)		1	3					Н
Saculary intentace (4)	Gearbox only	1	3	0G				_
Gearbox interface (4)	PLE 40 - straight planetary gearbox	1		1G				_
	PLE 60 - straight planetary gearbox	-						_
	PLE 80 - straight planetary gearbox	1		3G				-
	PLE 120 - straight planetary gearbox	1		5G				-
	WPLE 40 - angular planetary gearbox	1		0A				_
	WPLE 60 - angular planetary gearbox	1		1A				_
	WPLE 80 - angular planetary gearbox	1		3A				_
	WPLE 120 - angular planetary gearbox	1		5A				_
	Third-party gearbox without mounting by Schneider Electric (gearbox drawing required)	1		YY				
	Third-party gearbox with mounting by Schneider Electric (gearbox must be provided)	1		ZZ				_
	Without gearbox	1		XX				
Searbox orientation (3) (5)	<u>0°</u>	1			3			
	90°	- 1			0			
	180°	1			9			
	270°	1			6			
	Without gearbox	1			X			
Notor interface	Stepper motors BRS 368	1				V8		
	Stepper motors BRS 397, 39A	1				V9		
	Stepper motors BRS 39B	1				V0		
	Stepper motors BRS 3AC, 3AD	1				V1		
	Integrated drive with stepper motor ILS••571, 572	1				16		
	Integrated drive with stepper motor ILS••573	1				17		Т
	Integrated drive with stepper motor ILS••851, 852	1				19		
	Integrated drive with stepper motor ILS••853	1				18		П
	Integrated drive with brushless DC motor ILE●●66 with spur wheel gear	1				E7		
	Integrated drive with servo motor ILA••57	1				A6		Н
	Servo motors BSH/SH3 0401, 0402	1				H0		
	Servo motors BSH/SH3 055	1				H5		_
	Servo motors BSH/BMH/BMI/MH3/SH3/ILM 0701, 0702	1				H7		-
	Servo motors BSH/BMH/BMI/MH3/SH3/ILM 0703	1				H8		-
		1				H1		-
	Servo motors BSH/BMH/BMI/MH3/SH3/ILM 1001, 1002, 1003							_
	Servo motors BSH 1004	1				H4		_
	Servo motors BSH/BMH/MH3/SH3/ILM 1401, 1402, 1403, 1404	1				H2		_
	Servo motors BCH2•B A5, 01	1				C1		_
	Servo motors BCH2•D 02, 04	- 1				C2		_
	Servo motors BCH2•F 04	1				C3		_
	Servo motors BCH2•F 07	1				C4		
	Servo motors BCH2•H 10, 20	1			,	C5		
	Servo motors BCH2•M 08	1				C6		
	Servo motors BCH2•M 03, 05, 06, 10, 09, 15, 20	1				C7		
	Servo motors BCH2•R 20, 30, 35, 45	1				C8		
	Third-party motor without mounting by Schneider Electric (motor drawing required)	1				YY		
	Third-party motor with mounting by Schneider Electric (motor drawing required; motor must	1				ZZ		
	be provided)							L
	No motor	1				XX		
Notor orientation (3) (6)	0°	1					3	
, , , ,	90°	1					0	
	180°	1					9	
	270°	1					6	
	Without motor	1					X	
	*							+

- (1) Technical data (characteristics, dimensions, etc.) for Lexium CAS2 telescopic axes are available on the produ
 (2) For the first part of the reference, see page 36.
 (3) For further information, refer to motor and/or gearbox configuration and orientation (see below).
 (4) Planetary gearboxes from company Neugart GmbH.
 (5) In case of a straight planetary gearbox, the orientation references to the setscrew of the drive unit adaptation.
 (6) With reference to the motor connectors. Technical data (characteristics, dimensions, etc.) for Lexium CAS2 telescopic axes are available on the product data sheet.



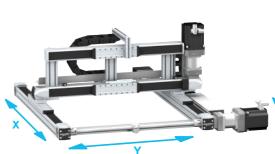
Cartesian multi axes systems for 1-, 2-, 3-dimensional positioning solutions

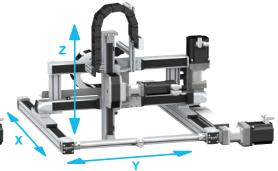
Axis type	Double portal axes		Linear positioners	Portal robots	
Number of movement directions	1		2		3
Typical direction of movement	Horizontal: Combination of two parallel X axes		Horizontal and vertical: Combination of one X- axis and one Z- axis	Horizontal: Combination of one X- and one Y- axis	Horizontal and vertical: Combination of two perpendicular axes X- and Y- and one Z- axis
Fastening of the load	On both carriages		On the side or on the end blocks of the Z- axis profile	On the Y- axis carriage	On the side or on the end blocks of the Z- axis profile
Moving part	Carriage				
Multi axes system type	PAS4•P axes + PAS4•H support axis (driven by the load)	PAS4●B + PAS4●B axes (shaft-driven)	■ MAXH + CAS4 axes ■ MAXH + CAR4 axes	MAXS + MAXH axesMAXS + PAS4•B axes	■ MAXS + MAXH + CAS4 axes ■ MAXS + MAXH + CAR4 axes
Type of mechanical drive element	X: Toothed belt on one axis	X: Toothed belt on both axes	X: Toothed belt on one axis Z: Toothed belt	X: Toothed belt on both axes Y: Toothed belt on one axis	X: Toothed belt on both axes Y: Toothed belt on one axis Z: Toothed belt
Type of guide	Recirculating ball bearing guide or roller guide	Recirculating ball bearing guide or roller guide	Recirculating ball bearing guide or roller guide	Recirculating ball bearing guide or roller guide	Recirculating ball bearing guide or roller guide











Main characteristic	es	 High acceleration High speed Long stroke length Certified for Cleanrooms with ISO class 6 (ISO14644-1) 	 High precision movement (positioning, guiding) High feed forces 	Compact and stiff system for pick and place, and also for lang stroke lengths	■ Long stroke length on both axes	■ Long stroke length on three axes
Available sizes		Size 1: 40 x 40 mm cross section (1.57 x 1.57 in) Size 2: 60 x 60 mm cross section (2.36 x 2.36 in) Size 3: 80 x 80 mm cross section (3.15 x 3.15 in) Size 4: 110 x 110 mm cross section (4.3 x 4.3 in)	Size 1: 40 x 40 mm cross section (1.57 x 1.57 in) Size 2: 60 x 60 mm cross section (2.36 x 2.36 in) Size 3: 80 x 80 mm cross section (3.15 x 3.15 in) Size 4: 110 x 110 mm cross section (4.3 x 4.3 in)	Size 1: 40 x 40 mm cross section (1.57 x 1.57 in) Size 2: 60 x 60 mm cross section (2.36 x 2.36 in) Size 3: 80 x 80 mm cross section (3.15 x 3.15 in) Size 4: 110 x 110 mm cross section (4.3 x 4.3 in)	Size 1: 40 x 40 mm cross section (1.57 x 1.57 in) Size 2: 60 x 60 mm cross section (2.36 x 2.36 in) Size 3: 80 x 80 mm cross section (3.15 x 3.15 in) Size 4: 110 x 110 mm cross section (4.3 x 4.3 in)	Size 1: 40 x 40 mm cross section (1.57 x 1.57 in) Size 2: 60 x 60 mm cross section (2.36 x 2.36 in) Size 3: 80 x 80 mm cross section (3.15 x 3.15 in) Size 4: 110 x 110 mm cross section (4.3 x 4.3 in)
Stroke	On the X- axis	95,500 mm (0.35 216.53 in)		95,500 mm <i>(0.35 216.53 in)</i>	95,500 mm (0.35 216.53 in)	95,500 mm (0.35 216.53 in)
	On the Y- axis	-		-	91,500 mm (0.3559.05 in)	91,500 mm (0.3559.05 in)
	On the Z- axis	-		91,800 mm (50.3570.86 in)	-	91,800 mm (50.3570.86 in)
Options		 Choice of guide type: Ball guide (for applications recost-effective solution) Wide range of sensors for the limit switch function Choice of carriage types for adapting the load Option to add carriages Increased corrosion resistance Anti-static belt Cover strip Several different motor mounting options Variable distance between the two axes 	quiring high forces and torques) or roller guide (simple,	■ Choice of guide type: Ball guide (for applications re	equiring high forces and torques) or roller guide (simple, cost-eff	fective solution)
Range		Lexium MAX Cartesian multi axes systems for 1-, 2-, 3-dimension	onal positioning solutions			
Reference		МАХН	MAXS	MAXP	MAXR•2	MAXR•3
Page		42	42	48	50	50

Cartesian multi axes systems for 1-, 2-, 3-dimensional positioning solutions

Combinations of drive units and multi-axes

rive element		Double portal axes				Planetary gearboxes (1)			
	Туре	MAXH41 MAXS41	MAXH42 MAXS42	MAXH43 MAXS43	MAXH44 MAXS44	PLE40 / WPLE40	PLE60 / WPLE60	PLE80 / WPLE80	PLE120 / WPLE120
epper motors	BRS368							_	
	BRS397					_			
	BRS39A								
	BRS39B								
	BRS3AC								
	BRS3AD								
egrated stepper									
	ILS1•572								
	ILS1●573								
	ILS1●851								
	ILS1•852								
	ILS1•853								
	ILA1•571								
ors	ILA1•572								
	ILE1•661••••1								
	ILE1•661••••2								
	ILE1•661••••3								
	ILE1•661••••4								
vo motors	BSH / SH3 0401 BSH / SH3 0402								
	BSH / SH3 0402 BSH / SH3 0551								
	BSH / SH3 0552								
	BSH / SH3 0553				_				
	BSH / BMH / / MH3 / SH3 / ILM 0701					_			
	BSH / BMH / BMi / MH3 / SH3 / ILM 0702								
	BSH/BMH/BMi/MH3/SH3/ILM 0703								
	BSH / BMH / / MH3 / SH3 / ILM 1001						_		
	BSH/BMH/BMi/MH3/SH3/ILM 1002								
	BSH/BMH/BMi/MH3/SH3/ILM 1003								
	BSH / / / SH3 / 1004								
	BSH/BMH//MH3/SH3/ILM 1401								
	BSH/BMH/BMi/MH3/SH3/ILM 1402								
	BSH / BMH / / MH3 / SH3 / 1403								
	BSH / / / SH3 / 1404								
	BCH2MBA53								
:H2	BCH2MB013								
	BCH2LD023								
	BCH2LD043								
	BCH2LF043								
	BCH2HF073								
	BCH2LF073								
	BCH2LH103								
	BCH2MM052								
	BCH2MM031								
	BCH2MM102								
	BCH2HM102								
	BCH2MM081								
	BCH2MM061								
	BCH2MM091								
	BCH2MM152								
	BCH2LH203								
	BCH2MM202								
	BCH2MR202								
	BCH2HR202 BCH2MR302								
	BCH2MR301								
	BCH2MR352								
notony	BCH2MR451 PLE40 / WPLE40								
DOAGS (1)	PLE60 / WPLE60 PLE80 / WPLE80								
	FLLOU/ WFLEOU								

(1) Planetary gearboxes from company Neugart GmbH.



Cartesian multi axes systems for 1-, 2-, 3-dimensional positioning solutions

Lexium MAXH / MAXS double portal axes



Lexium MAXH double portal axes with motor and gearbox mounted



Lexium MAXS double portal axes with motor and gearbox mounted

Presentation (1)

Lexium MAXH and Lexium MAXS double portal axes are linear motion axes.

They consist of two PASB portal axes mounted in parallel with:

- First axis (1) driven by drive unit (2)
- Second axis (3) driven by:
 - MAXH: the load mounted on the two carriages (4)
 - MAXS: the synchronous shaft (5)

The carriages are driven by a toothed belt, available with either a roller guide or a ball quide.

- MAX•2BB, MAX•3BB and MAX•4BB axes, with a ball guide, are particularly suitable for applications requiring high forces and significant torque. The roller guides on MAX•1BR, MAX•2BR and MAX•3BR axes offer a simple and cost-effective guiding solution for other applications.
- Lexium MAXH / MAXS double portal axes can provide a solution to applications requiring positioning of heavy loads over a long stroke with a high dynamic response.
- Lexium MAXH and Lexium MAXS double portal axes offer different configuration options, including axis length, different types of sensor for the limit switch function, addition of a cover strip, the choice between several types and sizes of carriage, the option of having up to three carriages, an anti-static toothed belt, and an anti-corrosion version (see page 45).
- Schneider Electric offers numerous drive units for driving Lexium MAXH and Lexium MAXS axes (see pages 40 and 46).

Third-party drive units can also be used under certain conditions. Contact our Customer Care Center for further details.

Applications

Applications with the following requirements:

- Positioning of heavy loads and/or involving large surface areas: material handling, etc.
- Positioning over long distances: material handling, Pick & Place, etc.

Special product features

- Profiles with T-slots on 3 sides for simple integration into existing structures
- Carriage with centering tapped holes for mounting the load
- Grease nipples accessible on each side of the carriages to simplify routine maintenance
- Quick-coupling system for easy motor assembly
- Stroke in various lengths available per millimeter
- Option to position sensors anywhere along the profile thanks to the T-slots

⁽¹⁾ Technical data (characteristics, dimensions, etc.) for Lexium MAXH / MAXS double portal axes are available on the <u>product data sheet</u>. The load, force and torque data indicated in all the documents relates to carriages mounted on a rigid mechanical structure with a centrally mounted load.

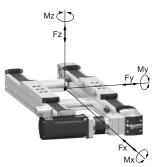
Cartesian multi axes systems for 1-, 2-, 3-dimensional positioning solutions

Lexium MAXH / MAXS double portal axes

Force and torqu	ıe (Fx, Fy, Fz, Mx, I	My, Mz) are				miles)		
Type of double p			MAXH41BR	MAXH42BR	MAXH42BB	MAXH43BR	MAXH43BB	MAXH44BB
Axis profile cross (width x height)	s-section	mm (in)	Size 1 : 40 x 40 (1.58 x 1.58)	Size 2 : 60 x 60 (2.36 x 2.36)		Size 3 : 80 x 80 (3.15 x 3.15)		Size 4 : 110 x 110 (4.33 x 4.33)
Type of mechanic	cal drive element		Toothed belt					
Type of guide			Roller guide		Ball guide	Roller guide	Ball guide	
Feed per revoluti	on	mm/rev (in/rev)	84 (3.31)	155 (6.10)		205 (8.07)		264 (10.39)
Max. feed force (F	Fx) (2)	N (lbf)	300 (67.44)	800 (179.84)		1,100 (247.28)		2,600 (584.50)
Max. speed (3)		m/s (ft/s)	8 (26.25)		5 (16.40)	8 (26.25)	5 (16.40)	
Max. acceleration	n (3)	m/s² (ft/s²)	20 (65.62)		50 (164.04)	20 (65.62)	50 (164.04)	
Max. drive torque	lax. drive torque (2)		4 (35.40)	20 (177.01)		36 (318.62)		110 (973.58)
Max. force (Fy) (2)		N (lbf)	990 (222.56)		4,215 (947.56)	2,640 (593.49)	6,615 (1,487.11)	9,405 (2,114.32)
Max. force (Fz) (2)			645 (145)		4,215 (947.56)	1,560 (350.70)	6,615 (1,487.11)	9,405 (2,114.32)
Max. torque (Mx) Note: di: inside axi		Nm (lbf/in)	8.6 + 0,22 x di (76.11 + 0,22 x di)	12.9 + 0,22 x di (114.17 + 0,22 x di)	84.3 + 1.41 x di (746.11 + 1.41 x di)	41.6 + 0.52 x di (368.19 + 0.52 x di)	176.4 + 2.21 x di (1,561.27 + 2.21 x di)	344.9 + 3.14 x di (3,044.65 + 3.14 x di)
Min max. insid	e axis distance (di)	mm (in)	100300 (3.9411.81)	110400 (4.3315.74)		120500 (4.7219.68)		130600 (5.1123.62)
Max. torque (My)	with carriage type 1	Nm (lbf/in)	_	36 (318.62)	148 (1,309.91)	102 (902.77)	324 (2867.64)	512 (4,531.58)
	with carriage type 2		22 (194.71)	62 (548.74)	388 (3,434.08)	174 (1,540.02)	758 (6708.86)	1,310 <i>(11,594.47)</i>
	with carriage type 4		56 (495.64)	112 (991.28)	724 (6,407.93)	320 (2,832.23)	1,374 (12,160.92)	2,418 (21,401.10)
Max. torque (Mz)	with carriage type 1	Nm (lbf/in)	_	28 (247.82)	74 (654.95)	86 (761.16)	162 (1,433.82)	256 (2,265.79)
	with carriage type 2		17 (150.46)	48 (424.83)	194 (1,717.04)	148 (1,309.91)	379 (3,354.43)	655 (5,797.23)
	with carriage type 4		43 (380.58)	87 (770.01)	362 (3,203.96)	271 (2,398.55)	687 (6,080.46)	1,209 (10,700.55)
Min max. strol	ke (5)	mm (in)	1253,000 (4.92118.11)	1255,500 (4.92216.54)	95,500 (0.35216.54)	1755,500 (6.89216.54)	115,500 (0.43216.54)	135,500 (0.51216.54)
Repeatability		mm (in)	± 0.1 (0.003)					

⁽¹⁾ Technical data (characteristics, dimensions, etc.) for Lexium MAXH double portal axes are available on the <u>product data sheet</u>. The load, force and torque data indicated in all the documents relates to carriages mounted on a rigid mechanical structure with a centrally mounted load.

Forces and torques



⁽²⁾ Forces and torques decrease at increasing speeds. If several forces (Fy, Fz) and torques (Mx, My, Mz) acting at the same time, refer to the hardware guide.

⁽³⁾ Depending on load and stroke.

⁽⁴⁾ These figures only apply to rigid connected carriage via adapter plate and inside axis distance (di). The plate is not included.

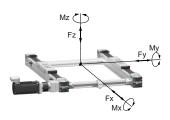
⁽⁵⁾ Min. stroke required for the lubrication of the linear guide. For information about greater strokes for ball guides, contact your Schneider Electric representative.

Cartesian multi axes systems for 1-, 2-, 3-dimensional positioning solutions

Lexium MAXH / MAXS double portal axes

Type of double p	e (Fx, Fy, Fz, Mx, I	,,/	MAXS41BR	MAXS42BR	MAXS42BB	MAXS43BR	MAXS43BB	MAXS44BB
Type of double p Axis profile cross width x height)		mm (in)	Size 1: 40 x 40 (1.58 x 1.58)	Size 2: 60 x 60 (2.36 x 2.36)	INAU42DD	Size 3: 80 x 80 (3.15 x 3.15)	MAAGAGE	Size 4: 110 x 11 (4.33 x 4.33)
Type of mechanic	al drive element	, ,	Toothed belt	1, 1, 1,		1,4		(
Type of guide			Roller guide		Ball guide	Roller guide	Ball guide	
eed per revolution	nn .	mm/rev	84	155] Jan garas	205] Jan garas	264
eed per revolution	511	(in/rev)	(3.31)	(6.10)		(8.07)		(10.39)
Max. feed force (F	(2)	N (lbf)	450 (101.16)	1,200 (269.77)		1,650 (370.93)		3,900 (876.75)
Max. speed (3)		m/s (ft/s)	8 (26.25)		5 (16.40)	8 (26.25)	5 (16.40)	
Max. acceleration	(3)	m/s² (ft/s²)	20 (65.62)		50 (164.04)	20 (65.62)	50 (164.04)	
Max. drive torque	(2)	Nm (lbf/in)	6 (53.10)	30 (265.52)		54 (477.94)		160 (1,416.11)
Max. force (Fy) (2))	N (lbf)	990 (222.56)		4,215 (947.56)	2,640 (593.49)	6,615 (1,487.11)	9,405 (2,114.32)
Max. force (Fz) (2)			645 (145)		4,215 (947.56)	1,560 (350.70)	6,615 (1,487.11)	9,405 (2,114.32)
Max. torque (Mx) Note: di = inside a	(2) (4) xis distance (mm) (in)	Nm (lbf/in)	8.6 + 0,22 x di (76.11 + 0,22 x di)	12.9 + 0,22 x di (114.17 + 0,22 x di)	84.3 + 1.41 x di (746.11 + 1.41 x di)	41.6 + 0.52 x di (368.19 + 0.52 x di)	176.4 + 2.21 x di (1,561.27 + 2.21 x di)	344.9 + 3.14 x di (3,044.65 + 3.14 x d
Min max. insid	e axis distance (di)	mm (in)	1001400 (3.9455.11)	1101800 (4.3370.86)		1202300 (4.7290.55)		1302800 (5.11110.23)
Max. torque (My)	with carriage type 1	Nm (lbf/in)	-	36 (318.62)	148 (1,309.91)	102 (902.77)	324 (2,867.64)	512 (4,531.58)
	with carriage type 2	_	22 (194.71)	62 (548.74)	388 (3,434.08)	174 (1,540.02)	758 (6,708.86)	1,310 (11,594.47)
	with carriage type 4		56 (495.64)	112 (991.28)	724 (6,407.93)	320 (2,832.23)	1,374 (12,160.92)	2,418 (21,401.10)
Max. torque (Mz)	with carriage type 1	Nm (lbf/in)	-	42 (371.73)	110 (973.58)	129 (1,141.74)	243 (2,150.73)	384 (3,398.68)
	with carriage type 2		25 (221.26)	72 (637.25)	290 (2,566.71)	220 (1,947.16)	568 (5,027.22)	982 (8,691.43)
	with carriage type 4		64 (566.44)	130 (1,150.59)	543 (4,805.95)	405 (3,584.55)	1,030 (9,116.26)	1,813 (16,046.4)
lin max. strok	se (5)	mm (in)	1253,000 (4.92118.11)	1255,500 (4.92216.54)	95,500 (0.35216.54)	1755,500 (6.89216.54)	115,500 (0.43216.54)	135,500 (0.51216.54)
Repeatability		mm (in)	± 0.1 (0.003)					

⁽¹⁾ Technical data (characteristics, dimensions, etc.) for Lexium MAXS double portal axes are available on the product data sheet. The load, force and torque data indicated in all the documents relate to carriages mounted on a rigid mechanical structure with a centrally mounted load.



⁽²⁾ Forces and torques decrease at increasing speeds. If several forces (Fy, Fz) and torques (Mx, My, Mz) acting at the same time, refer to the <u>hardware guide</u>. (3) Depending on load and stroke.

⁽⁴⁾ These figures only apply to rigid connected carriage via adapter plate and inside axis distance (di). The plate is not included.

(5) Min. stroke required for the lubrication of the linear guide. For information about greater strokes for ball guides, contact your Schneider Electric representative.

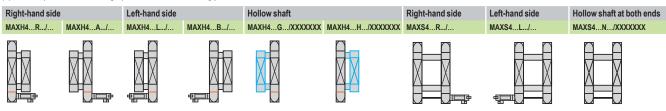
Cartesian multi axes systems for 1-, 2-, 3-dimensional positioning solutions

Lexium MAXH / MAXS double portal axes

To order Lexium MAXH or	r Lexium MAXS double portal axes, complete each reference by replacing the "•":								
Example: MAXH42BBM1000A	1NAXXXL0200/(2) MAX •• • B • M ••• • • •	•••	•	••••	/(.				
Type of drive for support axis	Support axis driven by the load H4				1				
	Support axis driven by a drive shaft S4				1				
Size (axis profile cross-	40 x 40 mm (1.57 x 1.57 in) 1				1				
section)	60 x 60 mm (2.36 x 2.36 in)				1				
	80 x 80 mm (3.15 x 3.15 in)				1				
	110 x 110 mm (4.3 x 4.3 in)				1				
Type of mechanical drive element	Toothed belt B B				1				
Type of guide	Recirculating ball bearing guide (for size 2, 3, 4)				1				
	Roller guide (for size 1, 2, 3)				1				
Feed per revolution	84 mm/rev (3.3 in/rev) (for size 1)				1				
	155 mm/rev (6.1 in/rev) (for size 2)				1				
	205 mm/rev (8 in/rev) (for size 3)				1				
	264 mm/rev (10.4 in/rev) (for size 4)				1				
Stroke (3)	State the length in mm				1				
Sensors (4)	Two PNP sensors as normally closed contacts, not connected A				1				
	Two PNP sensors as normally closed contacts, connected				1				
	Two NPN sensors as normally closed contacts, not connected				1				
	Two NPN sensors as normally closed contacts, connected				1				
	Two NPN sensors as normally open contacts, not connected				1				
	Two NPN sensors as normally open contacts, connected H				1				
	Without sensors, without contact plate				1				
Type of carriage	Type 1 (only for size 2, 3 and 4)				1				
	Type 2 2				1				
	Type 4 4				1				
Axis options	With anti-static toothed belt/without cover strip				1				
	With cover strip B				1				
	Anti-corrosion version/without cover strip				1				
	Anti-corrosion version/with anti-static toothed belt/without cover strip				1				
	With anti-static toothed belt/with cover strip				1				
	Without option N				1				
Quantity of carriages (5)	One carriage A				1				
	Two carriages				1				
	Three carriages C				1				
Distance between two	State the distance in mm	•••			1				
carriages	One carriage only, state "XXX"	XXX			1				
Mounting options for motor	On right-hand side		R		1				
and/or gearbox (6)	On left-hand side								
	On right-hand side (for MAXH)		Α		1				
	On left-hand side (for MAXH)		В		1				
	Hollow shaft / driven axis on the right (for MAXH)		G		1				
	Hollow shaft / driven axis on the left (for MAXH)		Н		1				
	Hollow shaft at both ends (for MAXS)		N		1				
Distance between the two axes	State the distance in mm			••••	1				

- (1) Technical data (characteristics, dimensions, etc.) for Lexium MAXH / MAXS double portal axes are available on the <u>product data sheet.</u>
 (2) For the second part of the reference, see page 46.

- (2) For the second pair of the felerence, see page 40.
 (3) For the min. and max. stroke per size, refer to the mechanical characteristics of the double portal axes (see page 43).
 (4) Supplied with a 0.1 m (0.33 ft) cable equipped with an M8 connector. For sensor extension cable, refer to accessories (see page 55).
 (5) Only carriages of the same type can be used. All carriages are driven.
 (6) For the possible mounting options see the following pictures:



Cartesian multi axes systems for 1-, 2-, 3-dimensional positioning solutions

Lexium MAXH / MAXS double portal axes

Example: MAXH42BBM1000A	r Lexium MAXS double portal axes, complete each reference by replaci 1NAXXXL0200 (2)/21G0H70	(2)/	•	••	•	••	•	+	
+ PLE60 3:1 + BMH0702P01A2									
lotor and/or gearbox	Motor only	1	1						
onfiguration (3)	Motor and gearbox	1	2						
	Gearbox only	I	3						
	Without motor, without gearbox, with adaptation material (select motor/gearbox type)	I	4						
	Without motor, without gearbox, without adaptation material	I	Х						
Gearbox interface (4)	PLE 40 - straight planetary gearbox	I		0G					
	PLE 60 - straight planetary gearbox	I		1G					
	PLE 80 - straight planetary gearbox	I		3G					
	PLE 120 - straight planetary gearbox	1		5G					
	WPLE 40 - angular planetary gearbox	1		0A					
	WPLE 60 - angular planetary gearbox	1		1A					
	WPLE 80 - angular planetary gearbox	1		3A					
	WPLE 120 - angu lar planetary gearbox	1		5A					
	Third-party gearbox without mounting by Schneider Electric (gearbox drawing required)	1		YY					
	Third-party gearbox with mounting by Schneider Electric (gearbox must be provided)	1		ZZ					
	Without gearbox	1		XX					
earbox orientation (3) (5)	<u>0°</u>	1			3				
	90°	1			0				
	180°	1			9				
	270°	1			6				
	Without gearbox	1			Х				
lotor interface	Stepper motors BRS 368	1				V8			
	Stepper motors BRS 397, 39A	1				V9			
	Stepper motors BRS 39B	1				V0			
	Stepper motors BRS 3AC, 3AD	1				V1			
	Integrated drive with stepper motor ILS••571, 572	1				16			
	Integrated drive with stepper motor ILS••573	1				17			
	Integrated drive with stepper motor ILS••851, 852	1				19			
	Integrated drive with stepper motor ILS●●853	1				18			
	Integrated drive with brushless DC motor ILE••66 with spur wheel gear	1				E7			
	Integrated drive with servo motor ILA •• 57	1				A6			
	Servo motors BSH/SH3 0401, 0402	1				НО			
	Servo motors BSH/SH3 055	1				Н5			
	Servo motors BSH/BMH/BMI/MH3/SH3/ILM 0701, 0702	1				H7			
	Servo motors BSH/BMH/BMI/MH3/SH3/ILM 0703	1				Н8			
	Servo motors BSH/BMH/BMI/MH3/SH3/ILM 1001, 1002, 1003	1				H1			
	Servo motors BSH 1004	1				H4			
	Servo motors BSH/BMH/MH3/SH3/ILM 1401, 1402, 1403, 1404	1				H2			
	Servo motors BCH2•B A5, 01	1				C1			
	Servo motors BCH2•D 02, 04	1				C2			
	Servo motors BCH2•F 04	1				C3			
	Servo motors BCH2eF 07	1				C4			
	Servo motors BCH2eH 10, 20	1				C5			
	Servo motors BCH2•M 08	1				C6			
	Servo motors BCH2•M 03, 05, 06, 10, 09, 15, 20	1				C7			
	Servo motors BCH2•R 20, 30, 35, 45	1				C8			
						YY			
	Third-party motor without mounting by Schneider Electric (motor drawing required)	1						-	
	Third-party motor with mounting by Schneider Electric (motor drawing required; motor must be provided)	1				ZZ			
	Without motor	1				ХХ			
otor orientation (3) (6)	0°	1				A A	3		
otor orientation (3) (6)	90°	1					0	\vdash	
								\vdash	
	180°	1					9	\vdash	
	270° Without motor	I I					6 X	\vdash	

⁽¹⁾ Technical data (characteristics, dimensions, etc.) for Lexium MAXH/MAXS double portal axes are available on the product data sheet.

⁽²⁾ For the first part of the reference, see page 45.
(3) For further information, refer to motor and/or gearbox configuration and orientation (see page 47).
(4) Planetary gearboxes from company Neugart GmbH.
(5) In case of a straight planetary gearbox, the orientation references to the setscrew of the drive unit adaptation.

⁽⁶⁾ With reference to the motor connectors.

Cartesian multi axes systems for 1-, 2-, 3-dimensional positioning solutions

Lexium MAXH / MAXS double portal axes

Motor and/or gearbox configuration and orientation

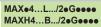
Hollow shaft at both ends

MAXH4...H.../XXXXXXX MAXH4...G.../XXXXXXX MAXS4...N.../XXXXXXX

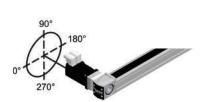


Left-hand side

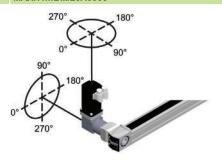
MAX•4...L.../1XXX••• MAXH4...B.../1XXX•••



MAX•4...L.../2•A•••• MAXH4...B.../2•A••••







MAX•4...L.../3•G•••X MAXH4...B.../3•G•••X

MAX•4...L.../3•A•••X MAXH4...B.../3•A•••X

MAX+4...L.../4•eX•eX MAXH4...B.../4•eX•eX







Right-hand side

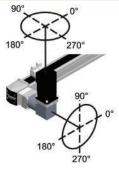
MAX•4...R.../1XXX••• MAXH4...A.../1XXX•••

MAX•4...R.../2•G•••• MAXH4...A.../2•G••••

MAX•4...R.../2•A•••• MAXH4...A.../2•A••••







MAXe4...R.../3eGeeeX

MAX•4...R.../3•A•••X MAXH4...A.../3•G•••X MAXH4...A.../3•A•••X

MAXe4...R.../4eeXeeX MAXH4...A.../4eeXeeX

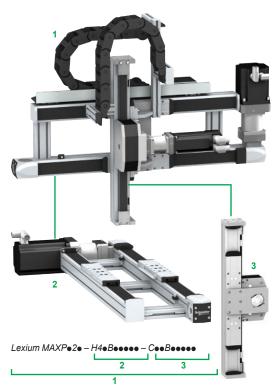






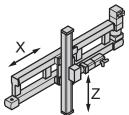
Cartesian multi axes systems for 1-, 2-, 3-dimensional positioning solutions

Lexium MAXP linear positioners



Presentation (1)

Lexium MAXP linear positioners (1) are multi axes systems for linear motion in directions X and Z:



They consist of two axes with:

- A Lexium MAXH double portal axes providing motion in direction X (2)
- A Lexium CAS4 or Lexium CAR4 cantilever axis providing motion in direction Z (3)

Each carriage is driven by a toothed belt, available with either a roller guide or a ball guide.

Lexium MAXP linear positioners operate above or below the working area. They provide an effective solution to dynamic load handling. Depending on the model, loads can be moved as far as 5,500 mm (216.53 in) in direction X and 1,800 mm (70.86 in) in direction Z.

These linear positioners offer different configuration options for each axis, including length, choice of different sizes and types of profile, and a choice of different types of guide (see next page).

Schneider Electric offers numerous drive elements for driving Lexium MAXP linear positioners.

Since the choice and combination of these drive elements is specific to each application, you will need to contact our Customer Care Center.

Applications

Applications requiring dynamic load positioning:

- Material handling
- Pick & Place
- Etc.

Special p uct features

Numerous adaptation possibilities thanks to its modular design

Type of linear positions	er		MAXP12		MAXP22			
			H41BR - W41BC	H41BR - C41BR	H42BR - W42BC	H42BB - W42BC	H42BR - C42BR	H42BB - C42BB
Type of mechanical driv element	e X and Z axes		Toothed belt					
Type of guide	X- axis		Roller guide			Ball guide	Roller guide	Ball guide
	Z- axis		Linear ball bearing guide	Roller guide	Linear ball bearing	g guide	Roller guide	Ball guide
Typical payload (2)		kg (lb)	2 (4.41)	6 (13.23)	4 (8.82)	5 (11.02)	10 (22.05)	20 (44.09)
Feed per revolution	X- axis	mm/rev	84 (3.31)		155 (6.10)			
	Z- axis	(in/rev)	75 (2,95)	84 (3.31)	100 (3.94)		155 (6.10)	
Min max. stroke (3)	X- axis	mm (in)	1253,000 (4.92118.11)		1254,000 (4.92157.48)	94,000 (0.35157.48)	1254,000 (4.92157.48)	94,000 (0.35157.48)
	Z- axis mm (in		8200 (0.317.87)	125400 (4.9215.75)	10300 (0.3911	1.81)	125600 (4.9223.62)	9700 (0.3527.56)
Repeatability		mm (in)	± 0.1 (0.003)					
Type of portal axis			MAXP32				MAXP42	
			H43BR - W44BC	H43BB - W44BC	H43BR - C43BR	H43BB - C43BB	H44BB - C44BB	
Type of mechanical driv element	e X and Z axes		Toothed belt					
Type of guide	X- axis		Roller guide	Ball guide	Roller guide	Ball guide	Ball guide	
	Z- axis		Linear ball bearing	g guide	Roller guide	Ball guide	Ball guide	
Typical payload (2)		kg (lb)	14 (30.86)	18 (39.68)	15 (33.07)	30 (66.14)	60 (132.28)	
Feed per revolution	X- axis	mm/rev	205 (8.07)				264 (10.39)	
	Z- axis	(in/rev)	100 (3.94)		205 (8.07)		264 (10.39)	
Min max. stroke (3)	X- axis	mm (in)	1755,500 (6.89216.54)	115,500 (0.43216.54)	1755,500 (6.89216.54)	115,500 (0.43216.54)	135,500 (0.51216.54)	
	Z- axis	mm (in)	14500 (0.5519.69)		175800 (6.8931.50)	111,000 (0.4339.37)	131,800 <i>(0.51</i>	70.87)
Repeatability		mm (in)	± 0.1 (0.003)					

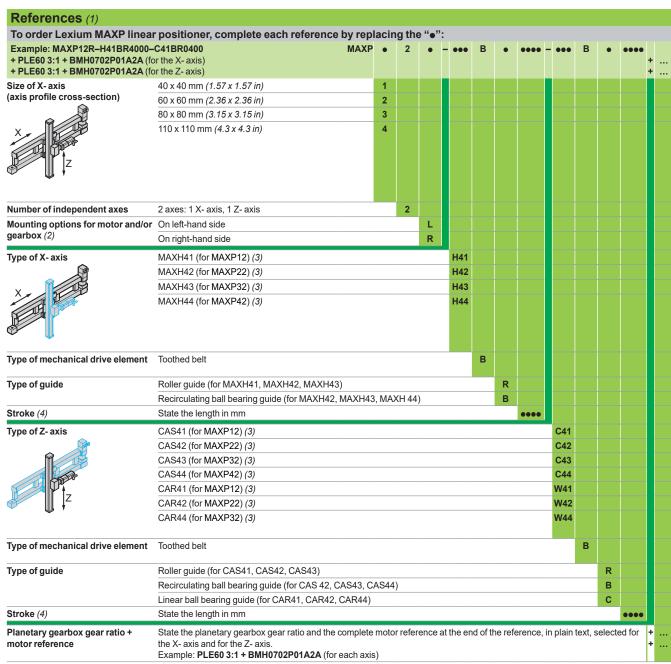
⁽¹⁾ Technical data (characteristics, dimensions, etc.) for Lexium MAXP linear positioners are available on the product data sheet

⁽²⁾ The typical payload is only a guideline and can also be exceeded depending on the application. Please contact your Schneider Electric representative for more information.

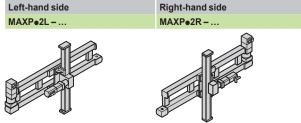
⁽³⁾ Min. stroke required for the lubrication of the linear guide. For information about greater strokes for ball guides, contact your Schneider Electric representative.

Cartesian multi axes systems for 1-, 2-, 3-dimensional positioning solutions

Lexium MAXP linear positioners

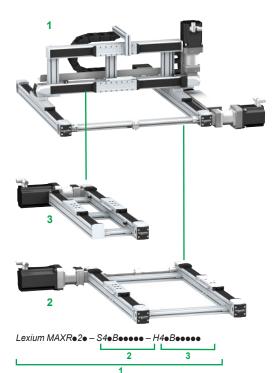


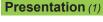
- (1) Technical data (characteristics, dimensions, etc.) for Lexium MAXP linear positioners are available on the product data sheet.
- (2) For the possible mounting options see the pictures below.
- (3) Supplied with 2 PNP output sensors, NC contact, with a 0.1 m (0.33 ft) cable equipped with an M8 connector. For sensor extension cable, refer to accessories (see page 55).
- (4) For the min. and max. stroke per size, refer to the mechanical characteristics of the linear positioners (see page 48).



Cartesian multi axes systems for 1-, 2-, 3-dimensional positioning solutions

Lexium MAXR●2 / MAXR●3 portal robots



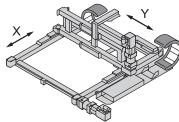


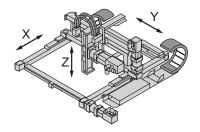
Lexium MAXR•2 (1) and Lexium MAXR•3 (5) portal robots are multi axes linear motion systems.

- Lexium MAXR•2 portal robots (1) allow motion in directions X and Y.
- Lexium MAXR•3 portal robots (5) offer additional motion in direction Z.

Lexium MAXR●2 portal robot

Lexium MAXRe3 portal robot





- Lexium MAXR•2 portal robots (1) consist of two axes:
 - a Lexium MAXS double portal axis providing motion in direction X (2)
 - a Lexium MAXH double portal axis or a Lexium PAS4•B portal axis providing motion in direction Y (3)
- Lexium MAXR•3 portal robots (5) consist of three axes:
 - a Lexium MAXS double portal axis providing motion in direction X (2)
 - a Lexium MAXH double portal axis providing motion in direction Y (3)
 - a Lexium CAS4 or Lexium CAR4 cantilever axis providing motion in direction Z (4)

The carriages are driven by a toothed belt, available with either a roller guide or a ball guide.

- Lexium MAXR•2 and Lexium MAXR•3 portal robots operate above the working area. They provide an effective solution to load handling over long distances:
 - Lexium MAXR•2 portal robots: depending on the model, loads can be moved as far as 5,500 mm (216.53 in) in direction X and 1,500 mm (59.06 in) in direction Y
 - Lexium MAXR•3 portal robots: depending on the model, loads can be moved as far as 5,500 mm in direction X, 1,500 mm (59.06 in) in direction Y and 1,800 mm (70.86 in) in direction Z

These portal robots offer different configuration options for each axis, including length, choice of different sizes and types of profile, and a choice of different types of guide (see pages 52 and 53).

Schneider Electric offers numerous drive elements for driving Lexium MAXR•2 and Lexium MAXR•3 portal robots.

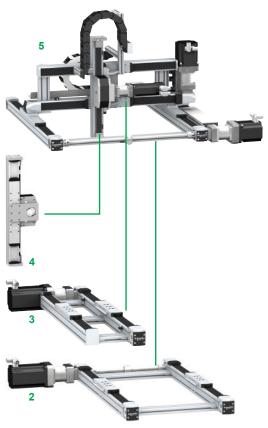
Since the choice and combination of these drive elements is specific to each application, you will need to contact our Customer Care Center.



Applications requiring load handling over long distances:

- Material handling
- Optics
- Pick & Place
- Etc.

(1) Technical data (characteristics, dimensions, etc.) for Lexium MAXR•2 / MAXR•3 portal robots are available on the product data sheet.



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Cartesian multi axes systems for 1-, 2-, 3-dimensional positioning solutions

Lexium MAXR●2 / MAXR●3 portal robots

Y-axis		al robots							
September Sept	•	สเาบมบเร		MAYP42		MAYBOO			
Topled bell Topled bell	Type of portal robot			S41BR -	S41BR -H41BR	S42BR -			
	Type of mechanical drive	X and Y axes				1 42010	1 4200	TITZDIC	114200
Roller guide		X- axis		Roller guide			Ball guide	Roller guide	Ball guide
ypical payrolad (?)) p = - 3								
Seed per revolution X. axis	Typical payload (2)		ka (lb)		10 (22.05)	5 (11.02)		-	
Initia	••••	X- axis		- '	1 - (=)		1 -= (=====	1.0 (00.00	100 ()
March Marc						. ,			
Y- axis	lin max. stroke (3)	X- axis	mm (in)	· · · · · ·	2118.11)				
mm (in) 10, 10, 00.03		Y- axis	mm (in)	1251,200 <i>(4.9</i>	247.24)	1251,500			91,500
Stable			mm (in)				••		
Toolheed belt Toolheed bel	Typo or portar robot			S43BR -				S44BB -	
		X and Y axes			P43BB	H43BR	назвв	Н44ВВ	
Part Part		Y- axis							
Y- axis					30 (66.14)	45 (99.21)	100 (220.46)		
Max	eed per revolution								
Part	Min max. stroke (3)			1755,500					1216.53)
MaxR13		Y- axis	mm (in)	1751,500	111,500	1751,500	111,500	131,500 (0.5	159.06)
MAXR13	Repeatability		mm (in)		(0.4359.06)	(6.8959.06	(0.4359.06)		
S41BR	Lexium MAXRe3 porta	al robots							
S41BR				MAXR13-		MAXR23 -			
H41BR	Type of portal resor				S41BR =		S42RR -	S42BR -	S42BB =
Toothed belt Toot				H41BR -	H41BR -	H42BR –	H42BB -	H42BR –	H42BB -
Y- axis		X, Y, and Z axes			5 <u>5</u>		11.250	0.22.0	10.222
Variable Variable	Type of guide	X- axis		Roller guide			Ball guide	Roller guide	Ball guide
		Y- axis		Roller guide			Ball guide	Roller guide	Ball guide
Seed per revolution		Z- axis		Linear ball beari	ng guide	Linear ball beari	ng guide	Roller guide	Ball guide
Y-axis Z-axis X-axis X	Typical payload (2)		kg (lb)	2 (4.41)	6 (13.23)	4 (8.82)	5 (11.02)	10 (22.05)	20 (44.09)
Total Tota	eed per revolution	X- axis	mm/rev	84 (3.31)		155 (6.10)			
Min max. stroke (3)		Y- axis	(in/rev)	84 (3.31)		155 (6.10)			
Y-axis mm (in) 1251,200 (4.9247.24) 1251,500 (4.92216.53) (Z- axis		75 (2,95)	84 (3.31)	100 (3.94)		155 (6.10)	
Repeatability	Min max. stroke (3)	X- axis	mm (in)	1253,000 (4.9	2118.11)				95,500 (0.35216.5
Contemporaries Cont		Y- axis	mm (in)	1251,200 <i>(4.9</i>	247.24)				(0.3559.06)
MAXR33 -		Z- axis	mm (in)			10300 (0.39	.11.81)		9700 (0.3527.56)
S43BR - H43BR - H43BB - H43BR - H43BB - H44BB - H43BB - H44BB - H43BB - H44BB - H43BB - H43BB - H43BB - H43BB - H44BB - H43BB - H43BB - H43BB - H44BB Repeatability		mm/in.	± 0.1 (0.003)						
H43BR	Type of portal robot			MAXR33 -				MAXR43 -	
Toppe of mechanical drive element X, Y, and Z axes Toothed belt				H43BR -	H43BB -	H43BR -	H43BB -	H44BB -	
Roller guide Roller guide Ball guide Roller guide Ball guide Roller guide Ball guide Roller guide Ball guide Roller guide Ball guide Roller guide Ball guide Roller guide Ball guide Roller guide Ball guide Roller guide Rolle		X, Y, and Z axes			114100	040DK	34000	34400	
Y- axis Roller guide Ball guide Roller guide Ball guide Z- axis Linear ball bearing guide Roller guide Ball guide Feed per revolution X- axis mm/rev 205 (8.07) 264 (10.39) Y- axis (in/rev) 205 (8.07) 264 (10.39) Z- axis 100 (3.94) 205 (8.07) 264 (10.39) Min max. stroke (3) X- axis mm (in) 1755,500 (6.89216.53) 1755,500 (6.89216.53) 115,500 (6.89216.53) 115,500 (0.43216.53) 135,500 (0.43216.53) 135,500 (0.43216.53) 131,500 (0.43216.53) 131,500 (0.43216.53) 131,500 (0.4359.06) 131,500 (0.4359.06) 131,500 (0.4359.06) 131,500 (0.4359.06) 131,500 (0.4359.06) 131,500 (0.4339.37) 131,800 (0.5170.87)		X- axis		Roller guide	Ball guide	Roller guide	Ball guide		
Z-axis Linear ball bearing guide Roller guide Ball guide	21 · · · · · · · · · · · · · · · · · · ·				<u> </u>		-		
Kypical payload (2) kg (lb) 14 (30.86) 18 (39.68) 15 (33.07) 30 (66.14) 60 (132.28) Feed per revolution X- axis mm/rev 205 (8.07) 264 (10.39) Y- axis (in/rev) 205 (8.07) 264 (10.39) Z- axis 100 (3.94) 205 (8.07) 264 (10.39) Min max. stroke (3) X- axis mm (in) 1755,500 (6.89216.53) 1755,500 (6.89216.53) 115,500 (6.89216.53) 135,500 (0.43216.53) Y- axis mm (in) 1751,500 (6.8959.06) 111,500 (6.8959.06) 111,500 (6.4959.06) 111,500 (6.4959.06) Z- axis mm (in) 14500 (0.5519.69) 175800 (6.8931.50) 111,000 (0.4339.37) 131,800 (0.5170.87)									
Y- axis mm/rev 205 (8.07) 264 (10.39	Typical payload (2)		kg (lb)					60 (132.28)	
Y- axis (in/rev) 205 (8.07) 264 (10.39) Z- axis 100 (3.94) 205 (8.07) 264 (10.39) Min max. stroke (3) X- axis mm (in) 1755,500 (0.43216.53) 1755,500 (0.43216.53) 1755,500 (0.43216.53) 135,500 (0.51216.53) Y- axis mm (in) 1751,500 (0.4359.06) 1751,500 (0.4359.06) 111,500 (0.4359.06) 131,500 (0.5159.06) Z- axis mm (in) 14500 (0.5519.69) 175800 (0.4339.37) 111,000 (0.4339.37) 131,800 (0.5170.87)		X- axis			. , ,	. , ,	. , ,		
Z- axis 100 (3.94) 205 (8.07) 264 (10.39) Min max. stroke (3) X- axis mm (in) 1755,500 (6.89216.53) (6.89216.53	•			· · · · ·				, ,	
Min max. stroke (3) X- axis mm (in) (6.89216.53) 1755,500 (0.43216.53) 1755,500 (0.43216.53) 1755,500 (0.43216.53) 1755,500 (0.43216.53) 1755,500 (0.43216.53) 1751,500 (0.43216.5						205 (8.07)			
Y- axis mm (in) 1751,500 (6.8959.06) 111,500 (0.4359.06) 1751,500 (6.8959.06) 111,500 (0.4359.06) 131,500 (0.5159.06) Z- axis mm (in) 14500 (0.5519.69) 175800 (6.8931.50) 111,000 (0.4339.37) 131,800 (0.5170.87)		Z- axis					11 5 500	` '	1 216 53)
Z- axis mm (in) 14500 (0.5519.69) 175800 (0.4339.37) 131,800 (0.5170.87) (0.4339.37)	Min max. stroke (3)		mm (in)	1755,500 (6.89216.53)	(0.43216.53)		(0.43216.53)	133,300 (0.3	1210.00)
	Vin max. stroke (3)	X- axis	` ′	(6.89216.53) 1751,500	(0.43216.53) 111,500	(6.89216.53) 1751,500	111,500		
	Ain max. stroke (3)	X- axis Y- axis	mm (in)	(6.89216.53) 1751,500 (6.8959.06)	(0.43216.53) 111,500 (0.4359.06)	(6.89216.53) 1751,500 (6.8959.06) 175800	111,500 (0.4359.06) 111,000	131,500 (0.5	159.06)

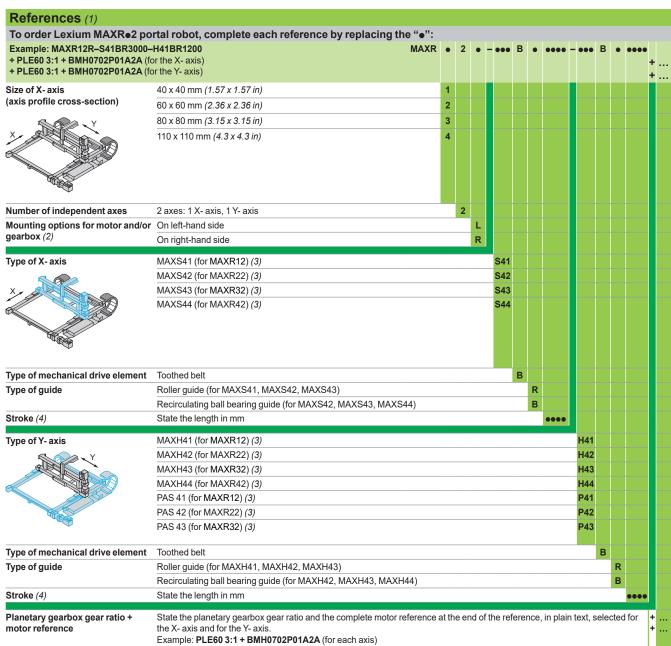
⁽¹⁾ Technical data (characteristics, dimensions, etc.) for Lexium MAXR*2 / MAXR*3 portal robots are available on the <u>product data sheet</u>.

(2) The typical payload is only a guideline and can also be exceeded depending on the application. Please contact your Schneider Electric representative for more information.

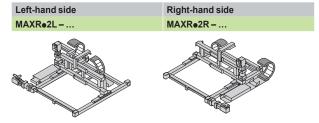
(3) Min. stroke required for the lubrication of the linear guide. For information about greater strokes for ball guides, contact your Schneider Electric representative.

Cartesian multi axes systems for 1-, 2-, 3-dimensional positioning solutions

Lexium MAXRe2 / MAXRe3 portal robots

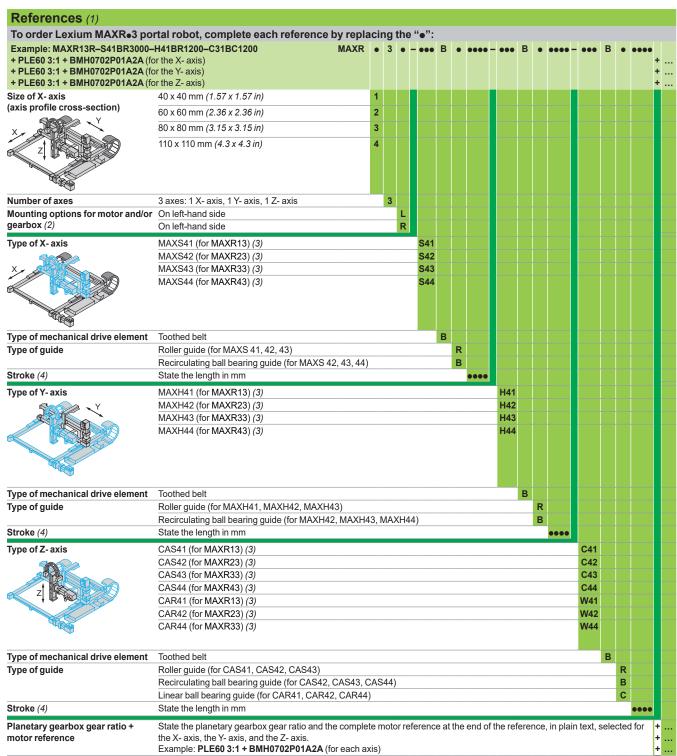


- (1) Technical data (characteristics, dimensions, etc.) for Lexium MAXR•2 portal robots are available on the product data sheet.
- (2) For the possible mounting options see the pictures below.
- (3) Each axis is supplied with 2 PNP output sensors, NC contact, with a 0.1 m (0.33 ft) cable equipped with an M8 connector.
- (4) For the min. and max. stroke per size, refer to the mechanical characteristics of the portal robots (see page 51).

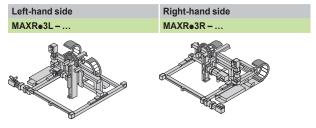


Cartesian multi axes systems for 1-, 2-, 3-dimensional positioning solutions

Lexium MAXRe2 / MAXRe3 portal robots



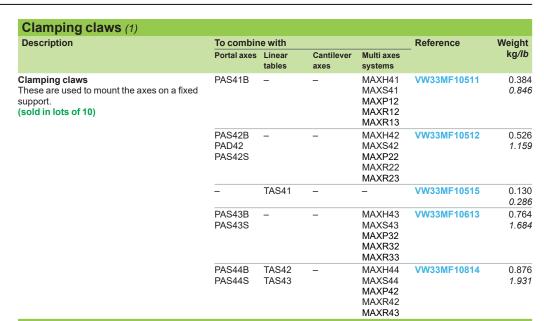
- (1) Technical data (characteristics, dimensions, etc.) for Lexium MAXRe3 portal robots are available on the product data sheet.
- ${\it (2) For the possible mounting options see the pictures below.}$
- (3) Each axis is supplied with 2 PNP output sensors, NC contact, with a 0.1 m (0.33 ft) cable equipped with an M8 connector.
- (4) For the min. and max. stroke per size, refer to the mechanical characteristics of the portal robots (see page 51).

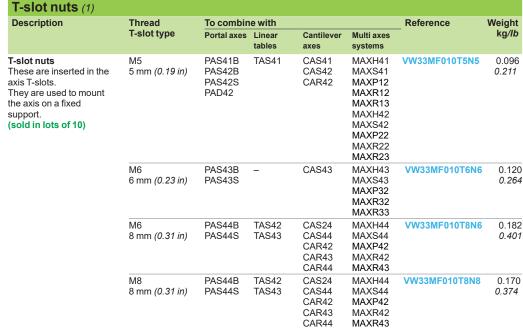


Accessories for Portal axes, Linear tables, Cantilever axes, Multi axes systems



VW33MF010T







Description	To combin	e with			Reference	Weight
	Portal axes	Linear tables	Cantilever axes	Multi axes systems	_	kg/lb
T-slot covers These help to protect the profile T-slots. Length 2 m (6.56 ft (sold in lots of 5)	PAS41B	TAS41	CAS41	MAXH41 MAXS41 MAXP12 MAXR12 MAXR13	VW33MC05A05	0.090 <i>0.198</i>
	PAS42B PAD42 PAS42S	-	CAS42 CAR42	MAXH42 MAXS42 MAXP22 MAXR22 MAXR23	VW33MC05B05	0.370 0.815
	PAS43B AS43S	-	CAS43	MAXH43 MAXS43 MAXP32 MAXR32 MAXR33	VW33MC05A06	0.350 <i>0.771</i>
	PAS44B PAS44S	TAS42 TAS43	CAS44 CAR42 CAR43 CAR44	MAXH44 MAXS44 MAXP42 MAXR42 MAXR43	VW33MC05A08	0.120 <i>0.264</i>

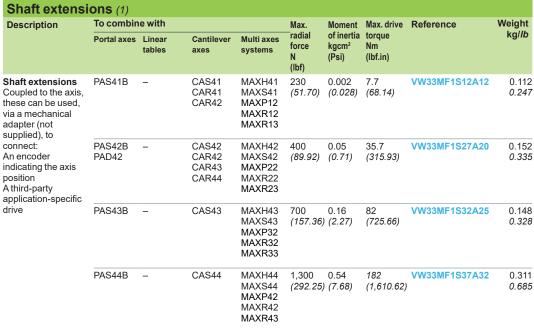
(1) More technical data for accessories is available on product Data sheet. Click on product reference to open it.

Accessories for Portal axes, Linear tables, Cantilever axes, Multi axes systems



111/221	1E0201	D01-	

Locating dow	vels (1)					
Description	To combin	ne with	Reference	Weight		
	Portal axes	Linear tables		kg/lb		
Locating dowels These adapters help to ensure accurate, reproducible positioning of the load on the carriage. They are inserted in the holes provided on the carriage.	PAS41B PAS42B PAD42 PAS42S	-	CAS41 CAS42 CAR40 CAR41	MAXH41 MAXS41 MAXP12 MAXR12 MAXR13 MAXH42 MAXS42 MAXP22 MAXP22 MAXR22 MAXR23	VW33MF020LD01	0.098 <i>0.216</i>
(sold in lots of 20)	PAS43B PAS43S	-	CAS43 CAR42 CAR43	MAXH43 MAXS43 MAXP32 MAXR32 MAXR33	VW33MF020LD02	0.107 0.235
	PAS44B PAS44S	-	CAS44 CAR44	MAXH44 MAXS44 MAXP42 MAXR42 MAXR43	VW33MF020LD03	0.028 0.061





⁽¹⁾ More technical data for accessories is available on product Data sheet. Click on product reference to open it.

Accessories for Portal axes, Linear tables, Cantilever axes, Multi axes systems







Description	To combin	e with		Delivery	Reference	Weight	
	Portal axes	Linear tables	Cantilever axes	Multi axes systems	volume		kg/lb
Single-hand lubrication gun for oil (2) This is used to lubricate axes with roller guides. Oil capacity: 120 cm³ (7.322 in³)	PAS4●R	-	CAS4⊕BR	MAXH4•BR MAXS4•BR MAXP•2• - •••BR MAXR•2• - •••BR MAXR•3• - •••BR	0.5 cm³ (0.031 in³) / stroke	VW33MAP22	0.563 1.241
Single-hand lubrication gun for grease (2) This is used to lubricate axes with ball guides: Suitable for VW33MAC4 cartridge	PAS4••B PAD42	TAS4●	CAS4•BB CAS24BB	MAXH4•BB MAXS4•BB MAXP•2• - •••BB MAXR•2• - •••BB MAXR•3• - •••BB	0.8 cm³ (0.049 in³) / stroke	VW33MAP11C4	1.300 2.866
Lubricant cartridge for single-hand lubrication gun (grease)	To combine	with VW33M	AP11C4			VW33MAC4	0.400 0.881

Sensor extension cables (1)								
Description	To combin	ne with		Length	Reference	Weight		
	Portal axes	Linear tables	Cantilever axes	Multi axes systems	m <i>(ft)</i>		kg/lb	
Extension cables Cables equipped with a 3-way M8	PAS4•B PAD42 PAS4•S	TAS4●	CAS4• CAR4• CAS24	MAXH• MAXS• MAXP• MAXR•	5 (16.40)	VW32SBCBGA050	0.219 <i>0.482</i>	
connector on the sensor end and one stripped end.				WAXR●	10 (32.81)	VW32SBCBGA100	0.274 0.604	
These cables connect directly to the cable supplied with the sensor via the M8 connector.					20 (65.62)	VW32SBCBGA200	0.113 <i>0.24</i> 9	

Spare parts and Replacement equipments						
Designation	To combine with	For futher information refer to the corresponding hardware guide (click on the link)				
Toothed belts and pulleys, Couplings, Cover strips, Sensors and other parts	Portal axes	Lexium PAS, PAD				
	Linear tables	<u>Lexium TAS</u>				
	Cantilever axes	Lexium CAS, CAR				
	Multi axes systems	Lexium MAX				

⁽¹⁾ More technical data for accessories is available on product Data sheet. Click on product reference to open it. (2) Delivered empty with pipe and nozzle.

Accessories for Multi axes systems systems

Energy chain (1)

Presentation

Energy chains are developed to help guide and protect moving cables and hoses. They minimize downtime, provide protection and support, and help to extend the service life of the cables and hoses.

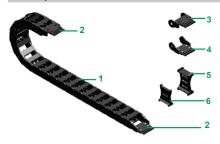
Energy chains are used in the MAXP●2, MAXR●2, MAXR●3 products.

The required total length of cable drag chain is calculated as follows: L = stroke/2 + K (mm)

For dimension K, see table dimension drawings. The total length L of the cable drag chain is composed of several sections. Use the formula to calculate the number of pieces to be ordered:

- \Box Number of sections for series 1400 = L/500 (round up the result to the nearest integer)
- □ Number of sections for series 2400 = L/460 (round up the result to the nearest integer)
- □ Number of sections for series 2600 = L/560 (round up the result to the nearest integer)

Description



- 1 Cable drag chain contains a section with:
 - 15 chain links (E02-1400-•••-•••)
 - 10 chain links (E02-2400-••• and E02-2600-•••-•••)
- 2 2 connection elements with strain relief

Cable drag chain connector contains a pair of connectors with:

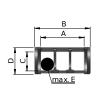
- 3 1x connection element bore with strain relief
- 4 1x connection element bolt with strain relief

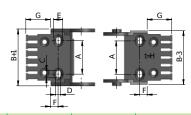
2 types of cable drag chain separators:

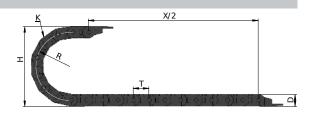
- 5 three-slots type, for SPM3MAC26
- 6 one-slot type, for SPM3MAC14 and SPM3MAC24

References					
Chain type (2)	Chain reference	Chain connector reference	Chain separator reference (4)		
E02-1400-038-R075 (3)	SPM3MAC1403075	SPM3MAC1403	SPM3MAC14		
E02-2400-057-R075	SPM3MAC2405075				
E02-2400-057-R100	SPM3MAC2405100	SPM3MAC2405	SPM3MAC2405 SPM3MAC24		
E02-2400-057-R125	SPM3MAC2405125				
E02-2400-077-R100	SPM3MAC2407100				
E02-2400-077-R125	SPM3MAC2407125	SPM3MAC2407			
E02-2400-077-R150	SPM3MAC2407150				
E02-2600-075-R100	SPM3MAC2607100	SPM3MAC2607	SPM3MAC26		
E02-2600-100-R125	SPM3MAC2610125	SPM3MAC2610	SPINISIMAC20		

Dimensions







Cable drag chain type	E02-1400	-038-R075	E02-240	0-057-R075	E02-2400	0-057-R100	E02-2400	0-057-R125	E02-2400	0-077-R100	E02-2400	-077-R125	E02-2400	-077-R150	E02-2600	-075-R100	E02-2600	0-100-R125
Chain	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
Α	38	1.50	57	2.24	57	2.24	57	2.24	77	3.03	77	3.03	77	3.03	75	2.95	100	3.94
В	51.5	2.03	73	2.87	73	2.87	73	2.87	93	3.66	93	3.66	93	3.66	91	3.58	116	4.57
С	21	0.83	25	0.98	25	0.98	25	0.98	25	0.98	25	0.98	25	0.98	35	1.38	35	1.38
D	28	1.10	35	1.38	35	1.38	35	1.38	35	1.38	35	1.38	35	1.38	50	1.97	50	1.97
E	18	0.71	23	0.91	23	0.91	23	0.91	23	0.91	23	0.91	23	0.91	32	1.26	32	1.26
T	33	1.30	33	1.30	46	1.81	46	1.81	46	1.81	46	1.81	46	1.81	56	2.20	56	2.20
R	75	2.95	75	2.95	100	3.94	125	4.92	100	3.94	125	4.92	150	5.91	100	3.94	125	4.92
Н	178	7.01	185	7.28	235	9.25	285	11.22	235	9.25	285	11.22	335	13.19	250	9.84	300	11.81
K	305	12.01	346	13.62	414	16.30	496	19.53	414	16.30	496	19.53	578	22.76	475	18.70	550	21.65
Chain connector	mm	in	mm	in					mm	in					mm	in	mm	in
Α	24	0.94	44	1.73					64	2.52					55	2.17	80	3.15
В	51.5	2.03	73	2.87					93	3.66					91	3.58	116	4.57
С	24	0.94	7	0.28											23	0.91		
D	6.4	0.25	6.1	0.24														
E	12	0.47													16	0.63		
	90°	90°													90°	90°		
T	28	1.10	10	0.39											17	0.67		
R	10.5	0.41	32	1.26											34	1.34		
Н	5.5	0.22	7	0.28											8	0.31		

- (1) More technical data for accessories is available on product Data sheet. Click on product reference to open it.
- (2) For more information on the cable drag chain types, please refer to the Operating Instructions for the Lexium MAX Series.
- (3) Always contains two dividers per link, except for cable drag chain E02-1400-038-R075, where only one divider per chain link is installed.
- (4) Each order contains a set of 50 pieces of separators.

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DIA7ED2210101EN November 2021 - V1.0