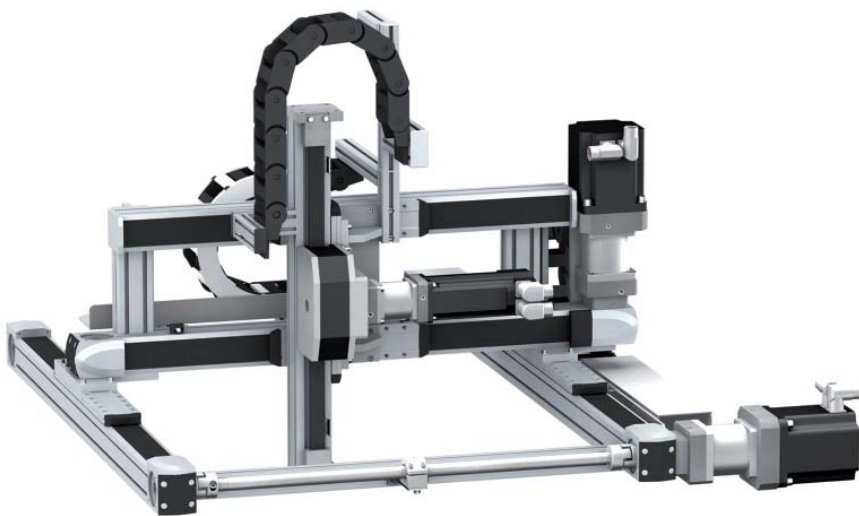


Lexium Linear Motion

Linear axes and multi-axis systems

Catalogue

April 2011



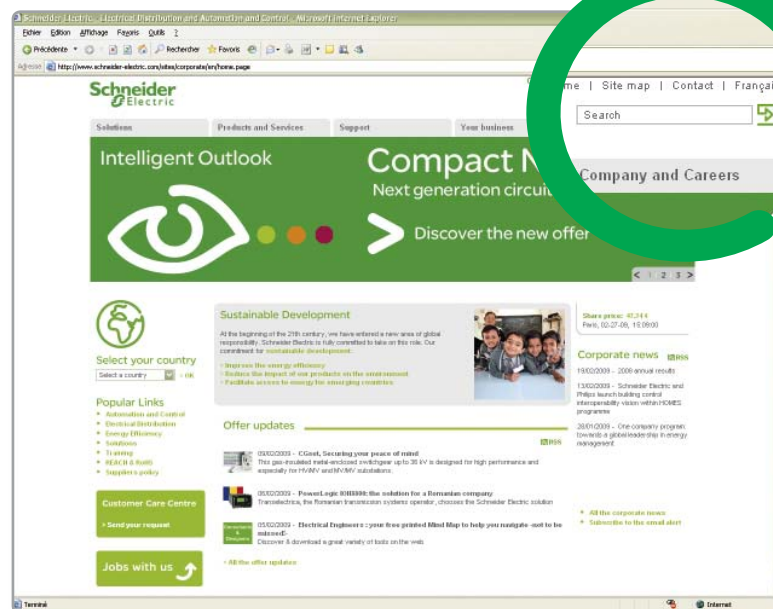


All technical information about products listed in this catalogue are now available on:
www.schneider-electric.com

Browse the “product data sheet” to check out :

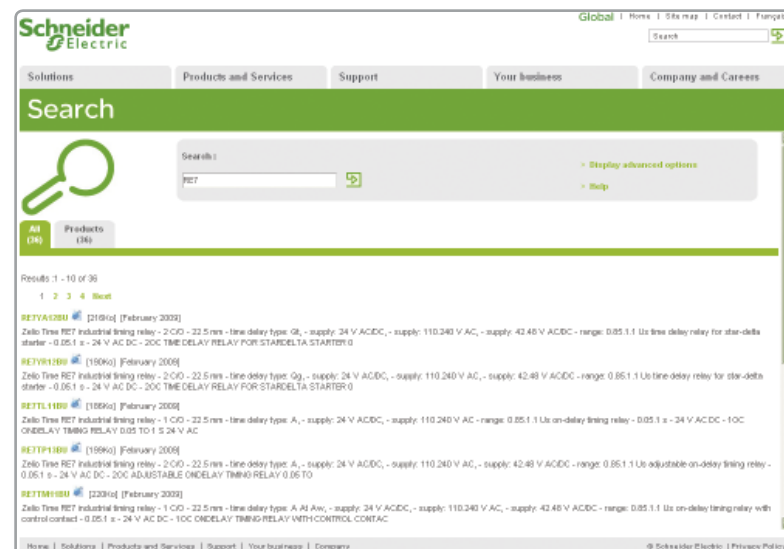
- characteristics,
- dimensions,
- curves, ...
- and also the links to the user guides and the CAD files.

1 From the home page, type the model number* into the “Search” box.



* type the model number without any blank, replace “.” by “*”

2 Under “All” tab, click the model number that interests you.



3 The product data sheet displays.

Example : Zelio Time data sheet

Parameter	Value
range of product	Zelio Time
product or component type	Industrial timing relay
discrete output type	relay
width (pitch dimension)	22.5 mm
contacts type and composition	2 C/O
component name	RE7
contacts material	80/10 silver nickel contacts
line relay type	CR
time delay range	0.05 ... 300 h
UL listed supply voltage	24 V AC/DC 50/60 Hz 110...240 V AC 50/60 Hz 42...48 V AC/DC 50/60 Hz
product weight	0.15 kg
voltage range	0.05...1.1 Us
tightening torque	0.6...1.1 N.m
CAD overall width	22.5 mm
CAD overall height	78 mm
CAD overall depth	80 mm

Discover this product

- Characteristics
- Functions
- Connection
- Dimensions
- Download & Documents

Other products

- Help me to choose
- #### Accessories
- Plug
 - Sockets

Example : Zelio Time data sheet

80

89.5

82

78

22.5

Example : Zelio Time data sheet

☑ You can get this information in one single pdf file.

Lexium Linear Motion

Linear axes and multi-axis systems

■ **Linear axes**

Selection guide **page 4**

- Combinations of drive elements/linear axes *page 6*
- Lexium PAS B portal axes *page 8*
- Lexium PAS S portal axes *page 12*
- Lexium TAS linear tables *page 16*
- Lexium CAS 4 cantilever axes *page 20*
- Lexium CAS 3 cantilever axes *page 24*
- Lexium CAS 2 telescopic axes *page 28*

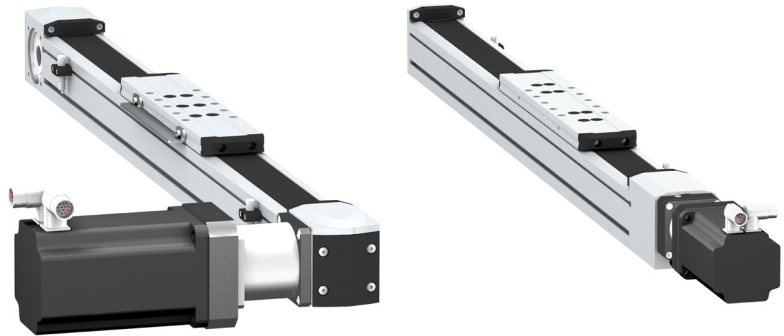
■ **Multi-axis systems**

Selection guide **page 32**

- Lexium MAX H and Lexium MAX S double portal axes *page 34*
- Lexium MAX P linear positioners *page 38*
- Lexium MAX R●2 and Lexium MAX R●3 portal robots *page 40*

■ **Accessories** *page 44*

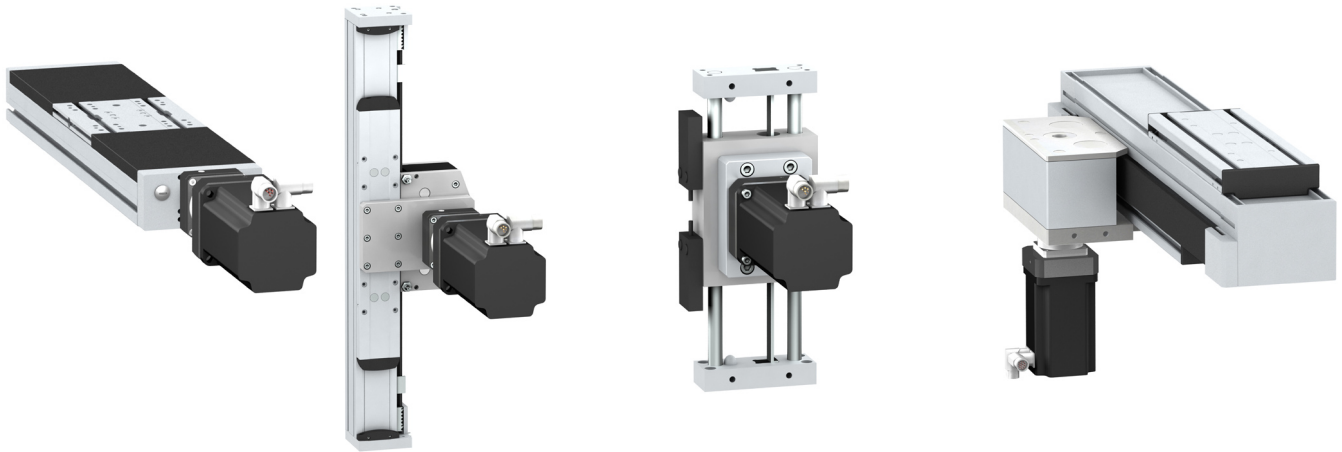
Axis type		Portal axes	
Movement	Number of directions	1	
	Movement type	Generally horizontal	
	Position of the load	On carriage	
Drive		Toothed belt	Ballscrew
Type of guide		Ball or roller	Ball



Main characteristics	<input type="checkbox"/> High dynamic response <input type="checkbox"/> Long stroke length <input type="checkbox"/> High positioning speed	<input type="checkbox"/> High precision movement (positioning, repeatability, guiding) <input type="checkbox"/> High feed forces <input type="checkbox"/> High rigidity
Dynamic response	★★★★★	★★★
Precision	★★★	★★★★★
Maximum payload	100 kg	100 kg
Maximum driving force	2600 N	4520 N
Maximum speed of movement of the load	8 m/s	1.25 m/s
Maximum working stroke	5500 mm	3000 mm
Repeatability	± 0.05 mm	± 0.02 mm
Options	<input type="checkbox"/> Choice of guide type: Ball (for applications requiring high forces and torques) or roller (simple, cost-effective solution) <input type="checkbox"/> Wide range of sensors for the limit switch function <input type="checkbox"/> Choice of carriage type for adapting to the load <input type="checkbox"/> Option to add carriages <input type="checkbox"/> Anti-corrosion version <input type="checkbox"/> Anti-static belt	<input type="checkbox"/> Choice of pitch <input type="checkbox"/> Protective metal strip <input type="checkbox"/> Wide range of sensors for the limit switch function <input type="checkbox"/> Choice of carriage type for adapting to the load <input type="checkbox"/> Option to add carriages <input type="checkbox"/> Option to add ballscrew supports for longer axes
Reference	PAS 4●B	PAS 4●S
Page	10	14



Linear tables	Cantilever axes with mobile structure on profile	Cantilever axes with mobile structure on parallel rods	Telescopic axes
1			
Generally horizontal	Generally vertical		Generally horizontal
On carriage	On the side of the profile or on the 2 end blocks	On the 2 end blocks	On carriage
Ballscrew	Toothed belt	Toothed belt or rack	Toothed belt
Double, ball	Ball or roller	Ball	





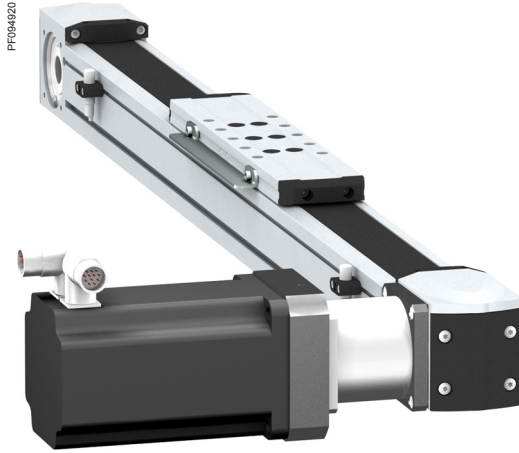
<ul style="list-style-type: none"> <input type="checkbox"/> High precision movement (positioning, repeatability, guiding) <input type="checkbox"/> High feed forces <input type="checkbox"/> High rigidity <input type="checkbox"/> Feed movement without mechanical backlash 	<ul style="list-style-type: none"> <input type="checkbox"/> Long stroke length <input type="checkbox"/> High feed forces <input type="checkbox"/> Option to mount the load on the side of the profile or on the end blocks <input type="checkbox"/> High rigidity 	<ul style="list-style-type: none"> <input type="checkbox"/> Compact <input type="checkbox"/> Mobile structure with light travel weight 	<ul style="list-style-type: none"> <input type="checkbox"/> Long stroke length from a compact unit <input type="checkbox"/> High rigidity <input type="checkbox"/> High dynamic response
★★	★★★★	★★★★	★★★★
★★★★★	★★★	★★★	★★
150 kg	50 kg	18 kg	35 kg
2580 N	2150 N	705 N	1500 N
1 m/s	3 m/s	3 m/s	3 m/s
1500 mm	1200 mm	500 mm	2400 mm
± 0.02 mm	± 0.05 mm	± 0.05 mm	± 0.1 mm
<ul style="list-style-type: none"> <input type="checkbox"/> Choice of pitch <input type="checkbox"/> Several different motor mounting options 	<ul style="list-style-type: none"> <input type="checkbox"/> Choice of guide type: Ball (for applications requiring high forces and torques) or roller (simple, cost-effective solution) <input type="checkbox"/> Protective metal strip <input type="checkbox"/> Anti-corrosion version <input type="checkbox"/> Wide range of sensors for the limit switch function <input type="checkbox"/> Anti-static belt 	<ul style="list-style-type: none"> <input type="checkbox"/> Anti-corrosion version <input type="checkbox"/> Anti-static belt 	<ul style="list-style-type: none"> <input type="checkbox"/> Choice of guide type: Ball (for applications requiring high forces and torques) or roller (simple, cost-effective solution) <input type="checkbox"/> Choice of carriage type for adapting to the load
TAS 4	CAS 4	CAS 3	CAS 2
18	22	26	30



Drive element (1)		Portal axes (1)						
		PAS 41B	PAS 42B	PAS 43B	PAS 44B	PAS 42S	PAS 43S	PAS 44S
BMH servo motors	Type							
	BMH 0701	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
	BMH 0702	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
	BMH 0703	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
	BMH 1001	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
	BMH 1002	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
	BMH 1003	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
	BMH 1401	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
	BMH 1402	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
BMH 1403	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	
BSH servo motors	BSH 0551	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
	BSH 0552	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
	BSH 0553	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
	BSH 0701	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
	BSH 0702	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
	BSH 0703	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
	BSH 1001	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
	BSH 1002	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
	BSH 1003	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
	BSH 1004	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
	BSH 1401	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
	BSH 1402	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
	BSH 1403	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
	BSH 1404	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
Lexium integrated drives	ILS1●571	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
	ILS1●572	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
	ILS1●573	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
	ILS1●851	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
	ILS1●852	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
	ILS1●853	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
	ILA1●571	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
	ILA1●572	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
	ILE1●661●●●●1	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
	ILE1●661●●●●2	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
	ILE1●661●●●●3	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
ILE1●661●●●●4	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	
Lexium stepper motors	BRS 366	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
	BRS 368	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
	BRS 397	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
	BRS 39A	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
	BRS 39B	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
	BRS 3AC	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
	BRS 3AD	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
Gearboxes	PLE 40/WPLE40	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
	PLE 60/WPLE60	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
	PLE 80/WPLE80	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
	PLE 120/WPLE120	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible

(1) Please refer to our website www.schneider-electric.com or the CD-ROM supplied with this catalogue.

 Possible to combine
 Incompatible



Lexium PAS 4-B portal axis with motor and gearbox mounted

Presentation (1)

Lexium PAS B portal axes are linear motion axes with a toothed belt for driving the carriage and roller or ball guides for guidance. The carriage moving the load is mobile and the body of the axis is fixed.

Lexium PAS B portal axes are designed for applications which require positioning of heavy loads over long distances with a high dynamic response.

These axes, with a ball guide, are particularly suitable for applications requiring high forces and significant torque.

Rollers offer a simple and cost-effective guiding solution for other applications.

Lexium PAS B portal axes offer various configuration options. These include axis length, various types of sensor for the limit switch function, adding a protective metal strip, a choice between various carriage types of different sizes, the option of having up to 3 carriages and an anti-static toothed belt, etc. (see page 10).

The axes' design is based on very strong aluminium profiles capable of accepting loads up to 100 kg, depending on the model used.

Schneider Electric offers a number of drive elements which can be used to drive Lexium PAS B axes (2) (see pages 6 and 11).

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

Applications

Applications requiring:

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

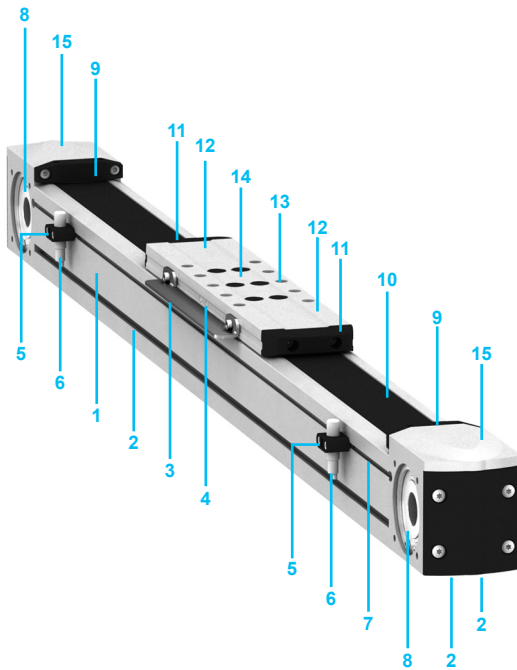
Special product features

- Profile with T-slots on 3 sides
- Carriage with drill holes for easier load mounting
- Grease nipples accessible from each side of the carriage to simplify routine maintenance
- Quick-coupling system for easy motor assembly
- Stroke can be set to the nearest millimeter
- T-slot means sensors can be placed anywhere along the profile
- Payload up to 100 kg, depending on the model :
 - up to 8 kg for Lexium PAS 41BR axes
 - up to 12 kg for Lexium PAS 42BR axes
 - up to 25 kg for Lexium PAS 42BB and PAS 43BR axes
 - up to 60 kg for Lexium PAS 43BB axes
 - up to 100 kg for Lexium PAS 44BB axes

(1) All technical data (characteristics, dimensions, etc.) for Lexium PAS B portal axes is available on our website www.schneider-electric.com and on the documentation CD-ROM supplied with this catalogue.

(2) When selecting the drive element, the maximum permissible driving torque for the axis drive shaft must always be taken into account.

Description (1) (2)



- 1 Lexium PAS 4●B portal axis
- 2 T-slots for fixing the axis: 1 on each side and 2 under profile
- 3 Detection plate for sensors
- 4 Grease nipples on each side of carriage
- 5 Sensor supports
- 6 Sensors for the limit switch function
- 7 T-slot for positioning sensor supports
- 8 Hollow shafts for connecting drive element or journal
- 9 Brackets for protective metal strip
- 10 Protective metal strip
- 11 Buffers
- 12 Protective metal strip deflectors
- 13 Tapped holes for load mounting
- 14 Carriage to support load
- 15 End blocks

Lexium PAS 4●B

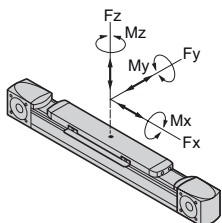
Mechanical characteristics (1)

Type of portal axis	Lexium	PAS 41	PAS 42	PAS 43		PAS 44
		BR	BR	BB	BR	BB
Type of drive		Toothed belt				
Type of guide		Rollers	Rollers	Ball	Rollers	Ball
Typical payload	kg	8	12	25	60	100
Maximum driving force for X axis (Fx) (3)	N	300	800	1100	2600	
Maximum speed	m/s	8	5	8	5	
Maximum acceleration	m/s ²	20				
Maximum driving torque	Nm	4	20	36	110	
Maximum force for Y axis (Fy) (3)	N	660	2810	1760	4410	6270
Maximum force for Z axis (Fz) (3)	N	430	2810	1040	4410	6270
Maximum torque for X axis (Mx) (3)	Nm	5	9	19	29	67
Maximum torque for Y axis (My) (3)	With carriage type 1	Nm	18	74	51	256
	With carriage type 2	Nm	11	31	87	655
	With carriage type 4	Nm	28	56	362	1209
Maximum torque for Z axis (Mz) (3)	With carriage type 1	Nm	28	74	162	256
	With carriage type 2	Nm	17	48	148	655
	With carriage type 4	Nm	43	87	362	1209
Maximum stroke	mm	3000	5500			
Repeatability	mm	± 0.05				
Profile cross-section	Width x height	mm	40 x 40	60 x 60	80 x 80	110 x 110
Service life	km	30,000				

(1) All technical data (characteristics, dimensions, etc.) for Lexium PAS B portal axes is available on our website www.schneider-electric.com and on the documentation CD-ROM supplied with this catalogue.

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

(3) Forces and torques exerted on the Lexium PAS B portal axis:



References (1)

To order a Lexium PAS B portal axis, complete each reference by replacing the “●” (2):

Example: PAS 4 1 B R M 1000 A 2 B A XXX R/... rest of the reference on page 11

		PAS 4	●	●	●	●	●●●	●	●	●	●●●	●	/(2)
Size (profile cross-section)	40 (40 x 40 mm cross-section)	1											/
	60 (60 x 60 mm cross-section)	2											/
	80 (80 x 80 mm cross-section)	3											/
	110 (110 x 110 mm cross-section)	4											/
Type of drive for carriage	Toothed belt		B										/
	Axis with no drive facility (for support only)		H										/
Type of guide for carriage	Roller (for PAS 41BR, 42BR, 43BR)			R									/
	Ball (for PAS 42BB, 43BB, 44BB)			B									/
Feed per revolution	84 mm/revolution (for PAS 41B)				M								/
	155 mm/revolution (for PAS 42B)				M								/
	205 mm/revolution (for PAS 43B)				M								/
	264 mm/revolution (for PAS 44B)				M								/
	Axis with no drive facility (for PAS 4●H)				N								/
Stroke	Maximum 3000 mm (for PAS 41)					●●●●							/
	Maximum 5500 mm (for PAS 42, PAS 43 and PAS 44)					●●●●							/
Limit switches (3)	2 sensors with PNP output, NC contact, not connected							A					/
	2 sensors with PNP output, NO contact, not connected							C					/
	2 sensors with NPN output, NC contact, not connected							E					/
	2 sensors with NPN output, NO contact, not connected							G					/
	Without sensor/without detection plate							N					/
Type of carriage (4)	Type 1 (only for PAS 42B, 43B, 44B)								1				/
	Type 2								2				/
	Type 4								4				/
Options	With protective metal strip									B			/
	Anti-corrosion version/without protective metal strip									C			/
	With anti-static toothed belt/without protective metal strip									A			/
	Anti-corrosion version/with anti-static toothed belt/without protective metal strip									E			/
	With anti-static toothed belt/with protective metal strip									L			/
	Without option									N			/
Number of carriages (5)	1										A		/
	2										B		/
	3										C		/
Distance between two carriages	State the distance in mm										●●●		/
	1 carriage only, state “XXX”										XXX		/
Interface for the drive element (6)	Drive element fixed on right-hand side											R	/
	Drive element fixed on left-hand side											L	/
	Without connection/without adaptor plate											H	/
	Axis with no drive facility (only for PAS 4●H)											N	/

(1) All technical data (characteristics, dimensions, etc.) for Lexium PAS B portal axes is available on our website www.schneider-electric.com and on the documentation CD-ROM supplied with this catalogue.

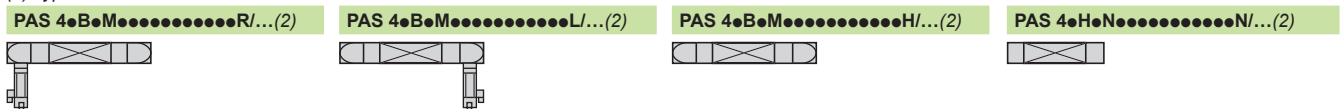
(2) 2nd part of the reference (see page 11).

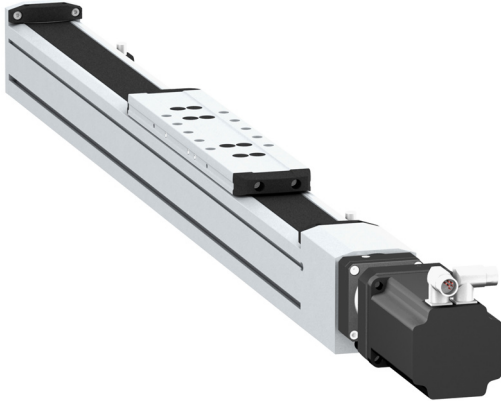
(3) Supplied with a 0.1 m cable equipped with an M8 connector. Other cable lengths are also available (see the accessories on page 46).

(4) See characteristics and dimensions on our website www.schneider-electric.com or refer to the documentation CD-ROM supplied with this catalogue.

(5) Only carriages of the same type (type 1, type 2 or type 4) are permitted.

(6) Types of interface for the drive element:





Lexium PAS 4●S portal axis with motor and gearbox mounted

Presentation (1)

Lexium PAS S portal axes are linear motion axes with a ballscrew for driving the carriage and ball guides for guidance.

The carriage moving the load is mobile and the body of the axis is fixed.

Lexium PAS S portal axes are particularly suited to applications which require precise positioning of heavy loads at low speeds and high feed forces.

To facilitate integration into a large number of applications, there are a range of different configuration options. These include axis length, different pitches for the ballscrew, various types of sensor for the limit switch function, adding a protective metal strip, a choice between 2 carriage types of different sizes and the option of having up to 3 carriages, etc. (see page 14).

The axes' design is based on very strong aluminium profiles capable of accepting loads up to 100 kg, depending on the model used.

Schneider Electric offers a number of drive elements which can be used to drive Lexium PAS S axes (2) (see pages 6 and 15).

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

Applications

Applications requiring:

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

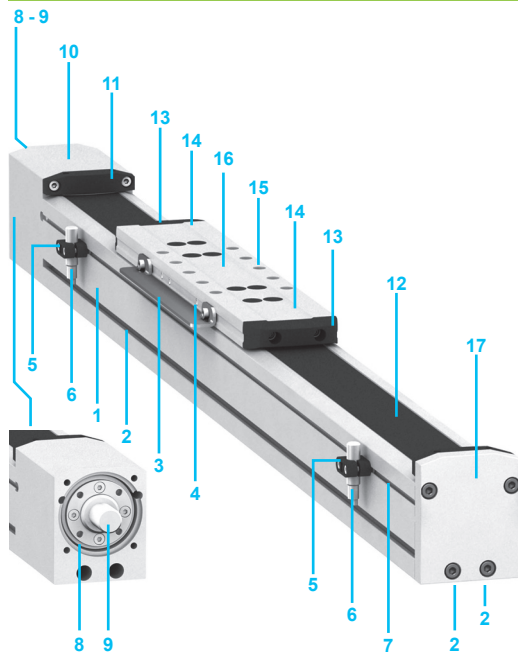
Special product features

- Profile with T-slots on 3 sides
- Carriage with drill holes for easier load mounting
- Grease nipples accessible from each side of the carriage to simplify routine maintenance
- Quick-coupling system for easy motor assembly
- Stroke can be set to the nearest millimeter
- T-slot means sensors can be placed anywhere along the profile
- Payload up to 100 kg, depending on the model :
 - up to 25 kg for Lexium PAS 42 linear axes
 - up to 60 kg for Lexium PAS 43 linear axes
 - up to 100 kg for Lexium PAS 44 axes

(1) All technical data (characteristics, dimensions, etc.) for Lexium PAS S portal axes is available on our website www.schneider-electric.com and on the documentation CD-ROM supplied with this catalogue.

(2) When selecting the drive element, the maximum permissible driving torque for the axis drive shaft must always be taken into account.

Description (1) (2)



- 1 Lexium PAS 4S portal axis
- 2 T-slots for fixing the axis: 1 on each side and 2 under profile
- 3 Detection plate for sensors
- 4 Grease nipples on each side of carriage
- 5 Sensor supports
- 6 Sensors for the limit switch function
- 7 T-slot for positioning sensor supports
- 8 Flange for mounting drive element
- 9 Drive shaft
- 10 Drive block
- 11 Brackets for protective metal strip
- 12 Protective metal strip
- 13 Buffers
- 14 Protective metal strip deflectors
- 15 Tapped holes for load mounting
- 16 Carriage to support load
- 17 End block

Lexium PAS 4S

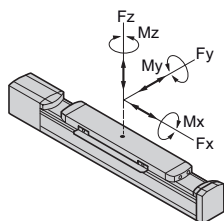
Mechanical characteristics (1)

Type of portal axis	Lexium	PAS 42			PAS 43			PAS 44		
		SBB	SBD	SBF	SBB	SBD	SBG	SBB	SBD	SBH
Type of drive		Ballscrew								
Type of guide		Ball								
Typical payload	kg	25			60			100		
Ballscrew step	mm/rev	5	10	16	5	10	20	5	10	25
Ballscrew diameter	mm	16			20			25		
Axial backlash for ballscrew	mm	0.04								
Maximum driving force (Fx) (3)	N	2980	1560	1540	3400	2600	1720	3700	4520	3000
Maximum speed	m/s	0.25	0.5	0.8	0.25	0.5	1	0.25	0.5	1.25
Maximum acceleration	m/s ²	10								
Maximum driving torque	Nm	3.2	3.3	4.9	3.7	5.3	6.8	4.3	9	14.3
Maximum force for Y axis (Fy) (3)	N	4050			6360			9040		
Maximum force for Z axis (Fz) (3)	N	4050			6360			9040		
Maximum torque for X axis (Mx) (3)	Nm	27			60			98		
Maximum torque for Y axis (My) (3)	With carriage type 1	304			556			935		
	With carriage type 4	668			1224			2155		
Maximum torque for Z axis (Mz) (3)	With carriage type 1	304			556			935		
	With carriage type 4	668			1224			2155		
Maximum stroke	mm	1500			3000					
Repeatability	mm	± 0.02								
Profile cross-section	Width x height	60 x 60			80 x 80			110 x 110		
Service life	km	10,000								

(1) All technical data (characteristics, dimensions, etc.) for Lexium PAS B portal axes is available on our website www.schneider-electric.com and on the documentation CD-ROM supplied with this catalogue.

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

(3) Forces and torques exerted on the Lexium PAS S telescopic axis:



References (1)												
To order a Lexium PAS S portal axis, complete each reference by replacing the “●” (2):												
Example: PAS 4 2 S B F 1000 A 1 B A XXX S/... rest of the reference on page 15												
	PAS	4	●	●	B	●	●●●●	●	●	●●●	●	/(2)
Size (profile cross-section)	60 (60 x 60 mm cross-section)		2									/
	80 (80 x 80 mm cross-section)		3									/
	110 (110 x 110 mm cross-section)		4									/
Type of drive for carriage	Ball screw			S								/
	Axis with no drive facility (for support only)			A								/
Type of guide for carriage	Ball				B							/
Ball screw step	5 mm/revolution (for PAS 4●SBB)					B						/
	10 mm/revolution (for PAS 4●SBD)					D						/
	16 mm/revolution (for PAS 42SBF)					F						/
	20 mm/revolution (for PAS 43SBG)					G						/
	25 mm/revolution (for PAS 44SBH)					H						/
	Axis with no drive facility (for PAS 4●A)					N						/
Stroke	Maximum 1500 mm (for PAS 42)						●●●●					/
	Maximum 3000 mm (for PAS 43 and PAS 44)						●●●●					/
Limit switches (3)	2 sensors with PNP output, NC contact, not connected							A				/
	2 sensors with PNP output, NO contact, not connected							C				/
	2 sensors with NPN output, NC contact, not connected							E				/
	2 sensors with NPN output, NO contact, not connected							G				/
	Without sensors/without detection plate							N				/
Type of carriage (4)	Type 1								1			/
	Type 4								4			/
Options	With protective metal strip/without ballscrew support									B		/
	With protective metal strip/with 1 ballscrew support									C		/
	Without protective metal strip/with 1 ballscrew support									D		/
	With protective metal strip/with 2 ballscrew supports									E		/
	Without protective metal strip/with 2 ballscrew supports									F		/
	Without protective metal strip/without ballscrew support									N		/
Number of carriages (5)	1										A	/
	2										B	/
	3										N	/
Distance between two carriages	State the distance in mm									●●●		/
	1 carriage only, state “XXX”									XXX		/
Interface for the drive element (6)	With motor or adaptor plate										S	/
	With shaft										D	/
	Axis with no drive facility (only for PAS 4●A)										N	/

(1) All technical data (characteristics, dimensions, etc.) for Lexium PAS S portal axes is available on our website www.schneider-electric.com and on the documentation CD-ROM supplied with this catalogue.

(2) 2nd part of the reference (see page 15).

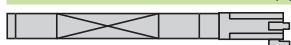
(3) Supplied with a 0.1 m cable equipped with an M8 connector. Other cable lengths are also available (see the accessories on page 46).

(4) See characteristics and dimensions on our website www.schneider-electric.com or refer to the documentation CD-ROM supplied with this catalogue.

(5) Only carriages of the same type (type 1 or type 4) are permitted (only the carriage next to the motor is driven).

(6) Types of interface for the drive element:

PAS 4●SB●●●●●●●●●●S/... (2)



PAS 4●SB●●●●●●●●●●D/... (2)



PAS 4●AN●●●●●●●●●●N/... (2)



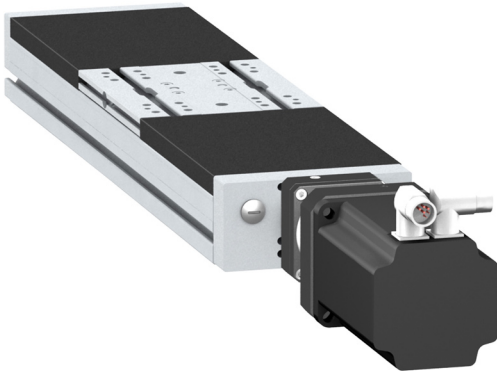
References (continued) (1)									
To order a Lexium PAS S portal axis, complete each reference by replacing the "●" (2):									
Example: PAS 4 2 S B F 1000 A 1 B A XXX S (2) / 1 XX X H7 0		PAS 4 ●● B ●●●●●●●●●● (2) /		●	●●	●	●●	●	+ ...
+ PLE60 3:1 + BMH 0702P01A2A									
Motor drive configuration (3)	Motor only	/	1						
	Motor + gearbox	/	2						
	Gearbox only	/	3						
	Without motor/without gearbox/with adaptor plate for the drive	/	4						
	Without motor/without gearbox	/	X						
Gearbox interface	PLE 40 gearboxes	/		0G					
	PLE 60 gearboxes	/		1G					
	PLE 80 gearboxes	/		3G					
	PLE 120 gearboxes	/		5G					
	WPLE 40 gearboxes	/		0A					
	WPLE 60 gearboxes	/		1A					
	WPLE 80 gearboxes	/		3A					
	WPLE 120 gearboxes	/		5A					
	Other third-party gearboxes not assembled by Schneider Electric (gearbox drawings required)	/		YY					
	Other third-party gearboxes assembled by Schneider Electric (gearbox and drawings required)	/		ZZ					
	Without gearbox	/		XX					
Gearbox orientation (3)	0°	/				3			
	90°	/				0			
	180°	/				9			
	270°	/				6			
	Without gearbox	/				X			
Motor interface	Servo motors BSH 055●	/						H5	
	BSH 0701, 0702/BMH 0701, 0702 servo motors	/						H7	
	BSH 0703/BMH 0703 servo motors	/						H8	
	BSH 1001...1003/BMH 1001...1003 servo motors	/						H1	
	BSH 1004 servo motors	/						H4	
	BSH 1401...1404/BMH 1401...1403 servo motors	/						H2	
	Lexium ILS●●571, 572 integrated drives with 3-phase stepper motor	/						I6	
	Lexium ILS●●573 integrated drives with 3-phase stepper motor	/						I7	
	Lexium ILS●●851, 852 integrated drives with 3-phase stepper motor	/						I9	
	Lexium ILS●●853 integrated drives with 3-phase stepper motor	/						I8	
	Lexium ILA●●57 integrated drives with AC synchronous servo motor	/						A6	
	Lexium ILE●●66 integrated drives with DC brushless motor and gearbox with straight teeth	/						E7	
	BRS 368 stepper motors	/						V8	
	BRS 397, 39A stepper motors	/						V9	
	BRS 39B stepper motors	/						V0	
	BRS 3AC, 3AD stepper motors	/						V1	
	Third-party motors not assembled by Schneider Electric (motor drawings required)	/						YY	
Third-party motors assembled by Schneider Electric (motor and drawings required)	/						ZZ		
Without motor	/						XX		
Motor orientation (3)	0°	/						3	
	90°	/						0	
	180°	/						9	
	270°	/						6	
	Without motor	/						X	
Planetary gearbox gear ratio + motor reference Example: PLE60 3:1 + BMH 0702P01A2A									+ ...

(1) All technical data (characteristics, dimensions, etc.) for Lexium PAS S portal axes is available on our website www.schneider-electric.com and on the documentation CD-ROM supplied with this catalogue.

(2) 1st part of the reference (see page 14).

(3) Possible motor drive configurations and orientation (view from motor/gearbox towards the axis or from motor towards the gearbox):

PAS 4●S...(2)/ 1XX●●●	PAS 4●S...(2)/ 2●G●●●	PAS 4●S...(2)/ 2●A●●●	PAS 4●S...(2)/ 3●G●XXX	PAS 4●S...(2)/ 3●A●XXX	PAS 4●S...(2)/ 4XXX●●●	PAS 4●S...(2)/ XXXXXXX



Lexium TAS 4S linear table with motor and gearbox mounted

Presentation (1)

Lexium TAS linear tables support high-precision linear positioning of heavy loads at high feed forces.

This level of performance is made possible by the drive system, which uses a preloaded ballscrew.

The linear tables' design is based on an aluminium profile capable of supporting substantial pressure without bending. They are able to move loads of up to 150 kg, depending on the model.

To facilitate integration into a large number of applications, there are a range of different configuration options. These include table length, different pitches for the ballscrew, different mounting options for the drive element, etc. (see page 18).

Schneider Electric offers a number of drive elements which can be used to drive Lexium TAS linear tables (2) (see page 19).

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

Applications

Applications requiring:

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

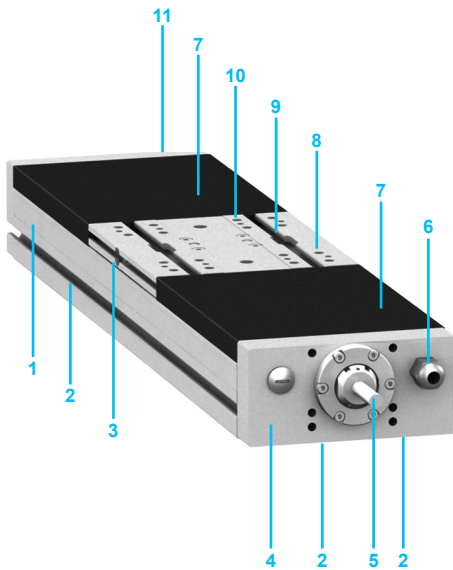
Special product features

- Profile with T-slots on 3 sides
- Carriage with drill holes and T-slots for easier load mounting
- Grease nipples accessible from each side of the carriage to simplify routine maintenance
- Quick-coupling system for easy motor assembly
- Motor positioning right at the shaft end along the table axis, on each side, above or below the linear table
- Stroke can be set to the nearest millimeter
- Preloaded ballscrew for movement without mechanical backlash
- 2 integrated sensors for the limit switch function
- Payload up to 150 kg, depending on the model :
 - up to 20 kg for the Lexium TAS 41 table
 - up to 80 kg for the Lexium TAS 42 table
 - up to 150 kg for the Lexium TAS 43 table

(1) All technical data (characteristics, dimensions, etc.) for Lexium TAS linear tables is available on our website www.schneider-electric.com and on the documentation CD-ROM supplied with this catalogue.

(2) When selecting the drive element, the maximum permissible driving torque for the axis drive shaft must always be taken into account.

Description (1) (2)

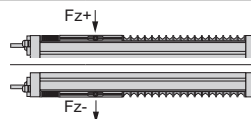


- 1 Lexium TAS 4S linear table
- 2 T-slots for fixing the axis: 1 on each side and 2 under profile
- 3 Grease nipples on each side of carriage
- 4 Drive block
- 5 Drive shaft
- 6 Cable gland for sensors' cable outlet
- 7 Bellows
- 8 Tapped holes for load mounting
- 9 Slots for load mounting
- 10 Carriage to support load
- 11 End block

Lexium TAS 4S

Mechanical characteristics (1)

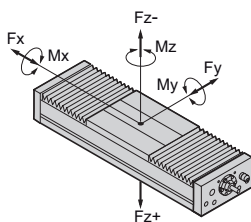
Type of linear table	Lexium	TAS 41			TAS 42			TAS 43		
		SBA	SBB	SBC	SBB	SBC	SBD	SBB	SBC	SBE
Type of drive		Ball screw								
Type of guide		Twin ball guides								
Typical payload	kg	20			80			150		
Ballscrew step	mm/rev	2	5	10	5	10	16	5	10	20
Ballscrew diameter	mm	12			16			20		
Axial backlash for ballscrew	mm	0.04								
Maximum driving force for X axis (Fx) (3)	N	500	800	780	2200	1120	1080	2580	1760	1700
Maximum speed	m/s	0.1	0.25	0.5	0.25	0.5	0.8	0.25	0.5	1
Maximum acceleration	m/s ²	10								
Maximum driving torque	Nm	0.4	0.9	1.6	2.2	2.3	3.4	2.7	3.5	6.4
Maximum force for Y axis (Fy) (3)	N	1720			2660			3550		
Maximum force for Z axis (Fz-, Fz+) (3)	N	2155			6285			8380		
	N	2155			3140			4190		
Maximum torque for X axis (Mx) (3)	Nm	48			110			205		
Maximum torque for Y axis (My) (3)	Nm	90			190			335		
Maximum torque for Z axis (Mz) (3)	Nm	72			160			285		
Maximum stroke	mm	600			1000			1500		
Repeatability	mm	± 0.02								
Profile cross-section	Width x height	mm 100 x 39			mm 150 x 54			mm 200 x 59		
Service life	km	5000			10,000					



(1) All technical data (characteristics, dimensions, etc.) for Lexium TAS linear tables is available on our website www.schneider-electric.com and on the documentation CD-ROM supplied with this catalogue.

(2) Description of a Lexium TAS linear table; the configuration options selected will determine whether or not certain components are included.

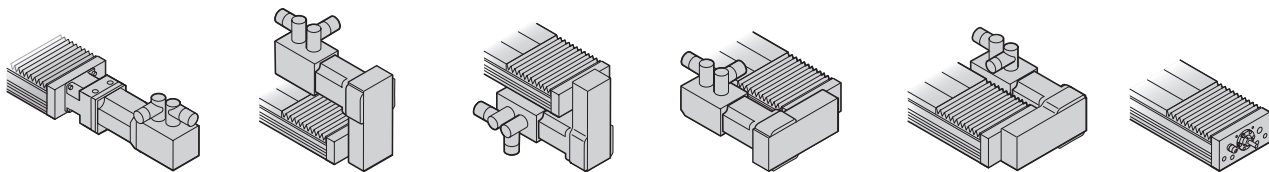
(3) Forces and torques exerted on the Lexium TAS linear table:



References (1)													
To order a Lexium TAS linear table, complete each reference by replacing the "●" (2):													
Example: TAS 4 1 S B A 0600 A 1 B S/... rest of the reference on page 19													
		TAS	4	●	S	B	●	●●●●	●	1	B	●	/(2)
Size (profile cross-section)	100 (100 x 39 mm cross-section)		1										/
	150 (150 x 54 mm cross-section)		2										/
	200 (200 x 59 mm cross-section)		3										/
Type of drive for carriage	Ballscrew				S								/
Type of guide for carriage	Twin ball guides					B							/
Ballscrew step	2 mm/revolution (for TAS 41SBA)						A						/
	5 mm/revolution (for TAS 4●SBB)						B						/
	10 mm/revolution (for TAS 4●SBC)						C						/
	16 mm/revolution (for TAS 42SBD)						D						/
	20 mm/revolution (for TAS 43SBE)						E						/
Stroke	Maximum 600 mm (for TAS 41)							●●●●					/
	Maximum 1000 mm (for TAS 42)							●●●●					/
	Maximum 1500 mm (for TAS 43)							●●●●					/
Limit switches	2 sensors with PNP output, NC contact (3)									A			/
	2 sensors with PNP output, NC contact (4)									B			/
	Without sensors									N			/
Type of carriage	Type 1								1			/	
Options	None/Linear table supplied with bellows										B		/
Interface for the drive element (5)	Motor in the table axis, driven directly											S	/
	Motor above table, driven by belt											O	/
	Motor below table, driven by belt											U	/
	Motor to left of table, driven by belt											L	/
	Motor to right of table, driven by belt											R	/
	With shaft (without connection, without motor)												N

(1) All technical data (characteristics, dimensions, etc.) for Lexium TAS linear tables is available on our website www.schneider-electric.com and on the documentation CD-ROM supplied with this catalogue.
 (2) For the second part of the reference, see page 19.
 (3) Supplied with a 0.2 m cable equipped with an M8 connector.
 (4) Supplied with a 5 m cable with flying leads at one end.
 (5) Types of interface for the drive element:

TAS 4●SB●●●●●●1BS/(2)	TAS 4●SB●●●●●●1BO/(2)	TAS 4●SB●●●●●●1BU/(2)	TAS 4●SB●●●●●●1BL/(2)	TAS 4●SB●●●●●●1BR/(2)	TAS 4●SB●●●●●●1BN/(2)
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References (continued) (1)

To order a Lexium TAS linear table, complete each reference by replacing the “●” (2):

Example: TAS 4 1 S B A 0600 A 1 B S (2) /H5 0
+ BSH 0552P01A2A

TAS 4 ● S B ● ● ● ● ● 1 B ● (2) / ● ● ● + ...

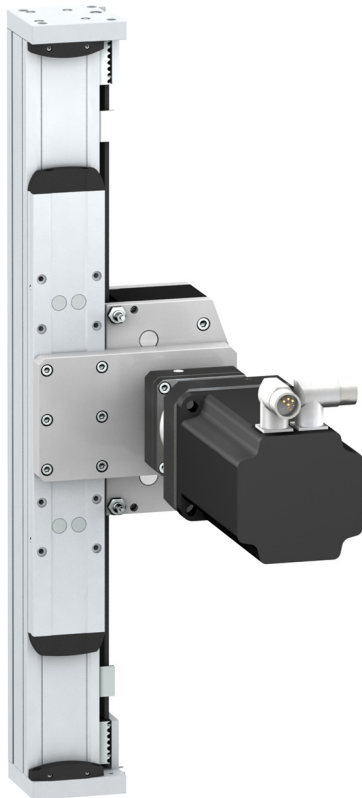
Motor interface	BSH 055● servo motors	/	H5		
	BSH 0701, 0702/BMH 0701, 0702 servo motors	/	H7		
	BSH 0703/BMH 0703 servo motors	/	H8		
	BSH 1001...1003/BMH 1001...1003 servo motors	/	H1		
	BSH 1004 servo motors	/	H4		
	BSH 1401...1404/BMH 1401...1403 servo motors	/	H2		
	Lexium ILS●●571, 572 integrated drives with 3-phase stepper motor	/	I6		
	Lexium ILS●●573 integrated drives with 3-phase stepper motor	/	I7		
	Lexium ILS●●851, 852 integrated drives with 3-phase stepper motor	/	I9		
	Lexium ILS●●853 integrated drives with 3-phase stepper motor	/	I8		
	Lexium ILA●●57 integrated drives with AC synchronous servo motor	/	A6		
	Lexium ILE●●66 integrated drives with DC brushless motor and gearbox with straight teeth	/	E7		
	BRS 368 stepper motors	/	V8		
	BRS 397, 39A stepper motors	/	V9		
	BRS 39B stepper motors	/	V0		
BRS 3AC, 3AD stepper motors	/	V1			
Third-party motors not assembled by Schneider Electric (motor drawings required)	/	YY			
Third-party motors assembled by Schneider Electric (motor and drawings required)	/	ZZ			
Without motor	/	XX			
Motor orientation (3)	0°	/		3	
	90°	/		0	
	180°	/		9	
	270°	/		6	
	Without motor	/		X	
Motor reference	State the complete motor reference at the end of the reference, in plain text. Example: BSH 0552P01A2A				+ ...

(1) All technical data (characteristics, dimensions, etc.) for Lexium TAS linear tables is available on our website www.schneider-electric.com and on the documentation CD-ROM supplied with this catalogue.

(2) For the first part of the reference, see page 18.

(3) Possible motor drive configurations and orientations:

TAS 4●SB●●●●●1BS(2)/ ●●●	TAS 4●SB●●●●●1BO(2)/ ●●●	TAS 4●SB●●●●●1BU(2)/ ●●●	TAS 4●SB●●●●●1BL(2)/ ●●●	TAS 4●SB●●●●●1BR(2)/ ●●●	TAS 4●SB●●●●●1BS(2)/ XXX



Lexium CAS 4●B cantilever axis with motor and gearbox mounted

Presentation (1)

Lexium CAS 4 cantilever axes are linear motion axes. They consist of a mobile axis structure and a fixed drive element.

The mobile axis structure is used to support the load. Its design is based on an anodized aluminium profile. The rail is driven by a toothed belt with roller or ball guides.

The aluminium profile is very strong and can take loads of up to 50 kg, depending on the model.

Lexium CAS 4 cantilever axes are designed for applications which require positioning of heavy loads over long distances with a high dynamic response.

These axes, with a ball guide, are particularly suitable for applications requiring high forces and significant torque.

Rollers offer a simple and cost-effective guiding solution for other applications.

Lexium CAS 4 cantilever axes offer various configuration options. These include axis length, various types of sensor for the limit switch function, adding a protective metal strip, etc. (see page 22).

Schneider Electric offers a number of drive elements which can be used to drive Lexium CAS 4 cantilever axes (2) (see pages 6 and 23).

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

Applications

Applications requiring:

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

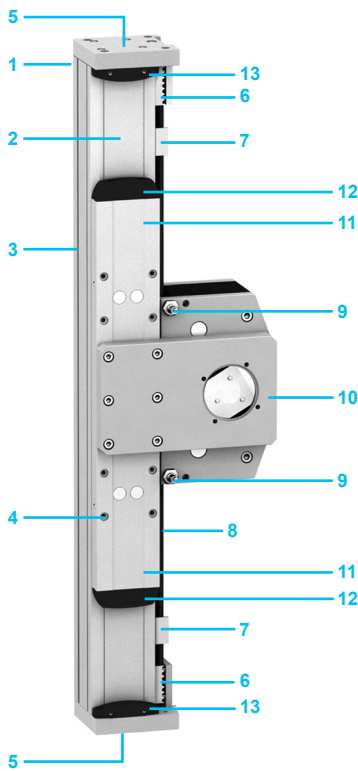
Special product features

- Profile with T-slots on 2 sides
- Load can be fixed to the 2 end blocks and to one of the sides using the T-slots
- Drive block with drill holes for easier axis mounting
- Quick-coupling system for easy motor assembly
- Long strokes can be set to the nearest millimeter
- Payload up to 50 kg, depending on the model:
 - 5 kg for the Lexium CAS 41BR axes
 - 8 kg for the Lexium CAS 42BR axes
 - 15 kg for the Lexium CAS 42BB axes
 - 12 kg for the Lexium CAS 43BR axes
 - 25 kg for the Lexium CAS 43BB axes
 - 50 kg for the Lexium CAS 44BB axes

(1) All technical data (characteristics, dimensions, etc.) for Lexium CAS 4 cantilever axes is available on our website www.schneider-electric.com and on the documentation CD-ROM supplied with this catalogue.

(2) When selecting the drive element, the maximum permissible driving torque for the axis drive shaft must always be taken into account.

Description (1) (2)



- 1 Lexium CAS 4●B cantilever axis
- 2 Protective metal strip
- 3 T-slots for fixing load to side
- 4 Tapped holes for fixing axis
- 5 End blocks for fixing load
- 6 Brackets for toothed belt
- 7 Detection plates for sensors
- 8 Toothed belt
- 9 Sensors for the limit switch function
- 10 Drive block
- 11 Protective metal strip deflectors
- 12 Buffers
- 13 Brackets for protective metal strip

Lexium CAS 4●B

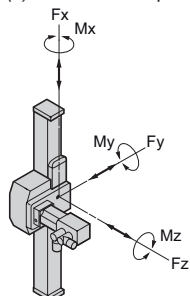
Mechanical characteristics (1)

Type of cantilever axis	Lexium	CAS 41 BR	CAS 42 BR	BB	CAS 43 BR	BB	CAS 44 BB
Type of drive		Toothed belt					
Type of guide		Rollers		Ball	Rollers	Ball	
Typical payload	kg	5	8	15	12	25	50
Maximum driving force for X axis (Fx) (3)	N	250	650		900		2150
Maximum speed	m/s	3					
Maximum acceleration	m/s ²	20					
Maximum driving torque	Nm	3.5	16		30		90
Maximum force for Y axis (Fy) (3)	N	930		3540	2430	5550	7890
Maximum force for Z axis (Fz) (3)	N	600		3540	1430	5550	7890
Maximum torque for X axis (Mx) (3)	Nm	7	13	24	40	53	85
Maximum torque for Y axis (My) (3)	Nm	24	29	250	85	487	1021
Maximum torque for Z axis (Mz) (3)	Nm	37	45	250	144	487	1021
Maximum stroke	mm	400	600		800		1200
Repeatability	mm	± 0.05					
Profile cross-section	Width x height	mm	40 x 40	60 x 60		80 x 80	110 x 110
Service life	km	15,000					

(1) All technical data (characteristics, dimensions, etc.) for Lexium CAS 4 cantilever axes is available on our website www.schneider-electric.com and on the documentation CD-ROM supplied with this catalogue.

(2) Description of a Lexium CAS 4 cantilever axis; the configuration options selected will determine whether or not certain components are included.

(3) Forces and torques exerted on the Lexium CAS 4 cantilever axis:



References (1)

To order a Lexium CAS 4 cantilever axis, complete each reference by replacing the “●” (2):

Example: CAS 4 1 B R M 0300 A 3 B R /... rest of the reference on page 23

	CAS 4	●	B	●	M	●●●●	●	3	●	●	/(2)
Size (profile cross-section)	40 (40 x 40 mm cross-section)	1									/
	60 (60 x 60 mm cross-section)	2									/
	80 (80 x 80 mm cross-section)	3									/
	110 (110 x 110 mm cross-section)	4									/
Type of drive for mobile axis structure	Toothed belt		B								/
Type of guide for mobile axis structure	Roller (for CAS 41BR, 42BR, 43BR)			R							/
	Ball (for CAS 42BB, 43BB, 44BB)			B							/
Feed per revolution	84 mm/revolution (for CAS 41)				M						/
	155 mm/revolution (for CAS 42)				M						/
	205 mm/revolution (for CAS 43)				M						/
	264 mm/revolution (for CAS 44)				M						/
Stroke	Maximum 400 mm (for CAS 41)					●●●●					/
	Maximum 600 mm (for CAS 42)					●●●●					/
	Maximum 800 mm (for CAS 43)					●●●●					/
	Maximum 1200 mm (for CAS 44)					●●●●					/
Limit switches (3)	2 sensors with PNP output, NC contact, not connected							A			/
	2 sensors with PNP output, NO contact, not connected							C			/
	2 sensors with NPN output, NC contact, not connected							E			/
	2 sensors with NPN output, NO contact, not connected							G			/
	Without sensors/without detection plates							N			/
Type of fixing support (4)	Type 3							3			/
Options	With protective metal strip								B		/
	Anti-corrosion version/without protective metal strip								C		/
	With anti-static toothed belt/without protective metal strip								A		/
	Anti-corrosion version/with anti-static toothed belt/without protective metal strip								E		/
	With anti-static toothed belt/with protective metal strip								L		/
	Without option								N		/
Interface for the drive element (5)	Drive element fixed on right-hand side									R	/
	None (hollow shaft)									H	/

(1) All technical data (characteristics, dimensions, etc.) for Lexium CAS 4 cantilever axes is available on our website www.schneider-electric.com and on the documentation CD-ROM supplied with this catalogue.

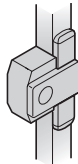
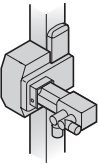
(2) For the second part of the reference, see page 23.

(3) Supplied with a 0.1 m cable equipped with an M8 connector. Other cable lengths are also available (see the accessories on page 46).

(4) Please refer to our website www.schneider-electric.com or the documentation CD-ROM supplied with this catalogue.

(5) Types of interface for the drive element:

CAS 4●B●M●●●●●3●R/...(2) CAS 4●B●M●●●●●3●H/...(2)



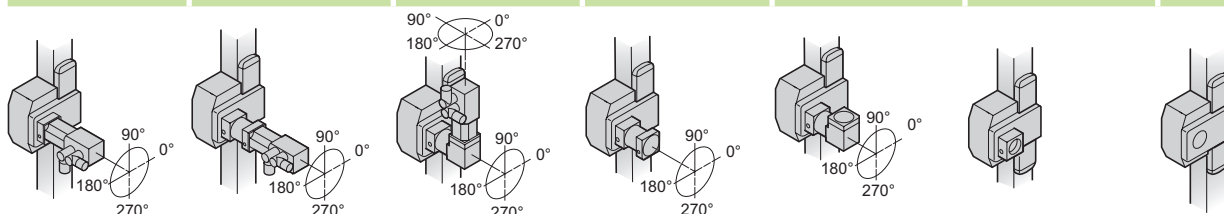
References (continued) (1)								
To order a Lexium CAS 4 cantilever axis, complete each reference by replacing the "●" (2):								
Example: CAS 4 1 B R M 0300 A 3 B R (2) / 2 1G 0 H 7 0 + PLE60 3:1 + BMH 0702P01A2A		CAS 4 ● B ● M ●●●●● 3 ●● (2) /	●	●●	●	●●	●	+ ...
Motor drive configuration (3)	Motor only	/	1					
	Motor + gearbox	/	2					
	Gearbox only	/	3					
	Without motor/without gearbox/with adaptor plate for the drive	/	4					
	Without motor/without gearbox	/	X					
Gearbox interface	PLE 40 gearboxes	/		0G				
	PLE 60 gearboxes	/		1G				
	PLE 80 gearboxes	/		3G				
	PLE 120 gearboxes	/		5G				
	WPLE 40 gearboxes	/		0A				
	WPLE 60 gearboxes	/		1A				
	WPLE 80 gearboxes	/		3A				
	WPLE 120 gearboxes	/		5A				
	Other third-party gearboxes not assembled by Schneider Electric (gearbox drawings required)	/		YY				
	Other third-party gearboxes assembled by Schneider Electric (gearbox and drawings required)	/		ZZ				
Gearbox orientation (3)	Without gearbox	/		XX				
	0°	/			3			
	90°	/			0			
	180°	/			9			
	270°	/			6			
Motor interface	BSH 055● servo motors	/				H5		
	BSH 0701, 0702/BMH 0701, 0702 servo motors	/				H7		
	BSH 0703/BMH 0703 servo motors	/				H8		
	BSH 1001...1003/BMH 1001...1003 servo motors	/				H1		
	BSH 1004 servo motors	/				H4		
	BSH 1401...1404/BMH 1401...1403 servo motors	/				H2		
	Lexium ILS●●571, 572 integrated drives with 3-phase stepper motor	/				I6		
	Lexium ILS●●573 integrated drives with 3-phase stepper motor	/				I7		
	Lexium ILS●●851, 852 integrated drives with 3-phase stepper motor	/				I9		
	Lexium ILS●●853 integrated drives with 3-phase stepper motor	/				I8		
	Lexium ILA●●57 integrated drives with AC synchronous servo motor	/				A6		
	Lexium ILE●●66 integrated drives with DC brushless motor and gearbox with straight teeth	/				E7		
	BRS 368 stepper motors	/				V8		
	BRS 397, 39A stepper motors	/				V9		
	BRS 39B stepper motors	/				V0		
BRS 3AC, 3AD stepper motors	/				V1			
Third-party motors not assembled by Schneider Electric (motor drawings required)	/				YY			
Third-party motors assembled by Schneider Electric (motor and drawings required)	/				ZZ			
Without motor	/				XX			
Motor orientation (3)	0°	/					3	
	90°	/					0	
	180°	/					9	
	270°	/					6	
	Without motor	/						X
Planetary gearbox gear ratio + motor reference	State the planetary gearbox gear ratio and the complete motor reference at the end of the reference, in plain text. Example: PLE60 3:1 + BMH 0702P01A2A							+ ...

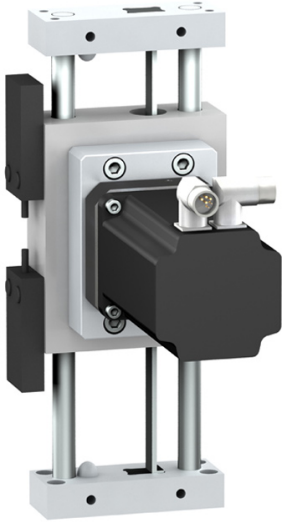
(1) All technical data (characteristics, dimensions, etc.) for Lexium CAS 4 cantilever axes is available on our website www.schneider-electric.com and on the documentation CD-ROM supplied with this catalogue.

(2) For the first part of the reference, see page 22.

(3) Possible motor drive configurations and orientation (view from motor/gearbox towards the axis or from motor towards the gearbox):

CAS 4●B... (2) / 1XX●●●	CAS 4●B... (2) / 2●G●●●●	CAS 4●B... (2) / 2●A●●●●	CAS 4●B... (2) / 3●G●XXX	CAS 4●B... (2) / 3●A●XXX	CAS 4●B... (2) / 4XXX●●●	CAS 4●B... (2) / XXXXXXX
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Lexium CAS 3 cantilever axis with motor and gearbox mounted

Presentation (1)

Lexium CAS 3 cantilever axes are linear motion axes with a rack or a toothed belt for driving the carriage and ball guides for guidance. They consist of a mobile axis structure and a fixed drive element.

The mobile axis structure, designed on the basis of 2 parallel rods, is used to support the load. This structure is driven by a rack or a toothed belt, depending on the size of the axis.

This type of mobile structure supports the use of a light, compact, yet highly rigid axis.

It is able to move loads of up to 18 kg, depending on the model.

Lexium CAS 3 cantilever axes offer various configuration options. These include axis length, various types of sensor for the limit switch function, an anti-corrosion version, anti-static toothed belt, etc. (see page 26).

Schneider Electric offers a number of drive elements which can be used to drive Lexium CAS 3 cantilever axes (2) (see pages 6 and 27).

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

Applications

Applications requiring:

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

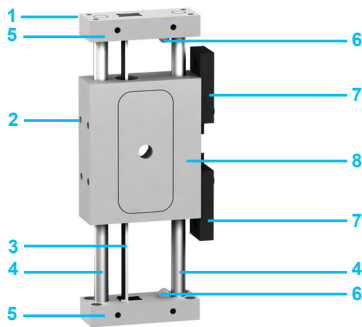
Special product features

- Excellent rigidity
- Mobile structure with light travel weight
- Compact
- Load can be fixed to the 2 end blocks
- Various possible mounting options to assist integration into wider solutions
- Stroke can be set to the nearest millimeter
- Payload up to 18 kg, depending on the model:
 - up to 1 kg for Lexium CAS 30 axes
 - up to 3 kg for Lexium CAS 31 axes
 - up to 5 kg for Lexium CAS 32 axes
 - up to 10 kg for Lexium CAS 33 axes
 - up to 18 kg for Lexium CAS 34 axes

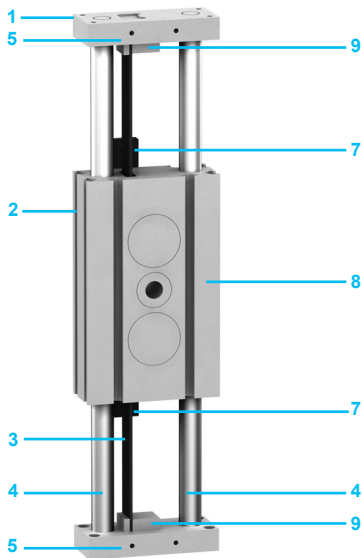
(1) All technical data (characteristics, dimensions, etc.) for Lexium CAS 3 cantilever axes is available on our website www.schneider-electric.com and on the documentation CD-ROM supplied with this catalogue.

(2) When selecting the drive element, the maximum permissible driving torque for the axis drive shaft must always be taken into account.

Description (1) (2)



Lexium CAS 30R, CAS 31B



Lexium CAS 32B, CAS 33B, CAS 34B

- 1 Lexium CAS 3●● cantilever axis
- 2 Tapped holes or T-slots for fixing the axis
- 3 Rack or toothed belt
- 4 Tubes providing mobile structure and guide method
- 5 End blocks for fixing load. These blocks also act as detection plates for sensors
- 6 Buffers
- 7 Sensors
- 8 Drive block
- 9 Brackets for toothed belt

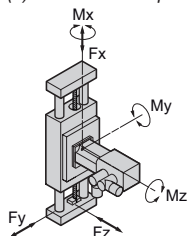
Mechanical characteristics (1)

Type of cantilever axis	Lexium	CAS 30RC	CAS 31BC	CAS 32BC	CAS 33BC	CAS 34BC
Type of drive		Rack	Toothed belt			
Type of guide		Ball				
Typical payload	kg	1	3	5	10	18
Maximum driving force for X axis (Fx) (3)	N	80	125	435	535	705
Maximum speed	m/s	3				
Maximum acceleration	m/s ²	20				
Maximum driving torque	Nm	0.6	1.5	7	8.5	11.5
Maximum force for Y axis (Fy) (3)	N	160	210	290	460	950
Maximum force for Z axis (Fz) (3)	N	130	180	250	400	820
Maximum torque for X axis (Mx) (3)	Nm	1.9	5.1	9	16	45
Maximum torque for Y axis (My) (3)	Nm	2.8	6.7	21	34	85
Maximum torque for Z axis (Mz) (3)	Nm	3.5	7.8	25	39	100
Maximum stroke	mm	150	200	300	400	500
Repeatability	mm	± 0.05				
Service life	km	15,000				

(1) All technical data (characteristics, dimensions, etc.) for Lexium CAS 3 cantilever axes is available on our website www.schneider-electric.com and on the documentation CD-ROM supplied with this catalogue.

(2) Description of Lexium CAS 30R and CAS 3●B cantilever axes; the configuration options selected will determine whether or not certain components are included.

(3) Forces and torques exerted on the Lexium CAS 3 cantilever axis:



References (1)

To order a Lexium CAS 3 cantilever axis, complete each reference by replacing the “●” (2):

Example: CAS 3 1 B C M 0200 A 1 C R/... rest of the reference on page 27

		CAS 3	●	●	C	M	●●●●	●	1	●	R	/ (2)
Size (profile cross-section)	66 x 28 mm	0										/
	80 x 30 mm	1										/
	100 x 40 mm	2										/
	120 x 50 mm	3										/
	160 x 50 mm	4										/
Type of drive for mobile axis structure	Rack (for CAS 30)			R								/
	Toothed belt (for CAS 31, 32, 33, 34)			B								/
Type of guide for mobile axis structure	Ball			C								/
Feed per revolution	50 mm/revolution (for CAS 30)				M							/
	75 mm/revolution (for CAS 31)				M							/
	100 mm/revolution (for CAS 32, 33, 34)				M							/
Stroke	Maximum 150 mm (for CAS 30)					●●●●						/
	Maximum 200 mm (for CAS 31)					●●●●						/
	Maximum 300 mm (for CAS 32)					●●●●						/
	Maximum 400 mm (for CAS 33)					●●●●						/
	Maximum 500 mm (for CAS 34)					●●●●						/
Limit switches	2 sensors with PNP output, NC contact, not connected (3)							A				/
	2 sensors with PNP output, NC contact, not connected (4)							B				/
	Without sensors							N				/
Type of fixing support (5)	Type 1							1				/
Options	Anti-corrosion version (only for CAS 31, 32, 33, 34)									C		/
	With anti-static toothed belt									A		/
	Anti-corrosion version/with anti-static toothed belt (only for CAS 31, 32, 33, 34)									E		/
	Without option									N		/
Interface for the drive element (6)	Drive element fixed on right-hand side										R	/

(1) All technical data (characteristics, dimensions, etc.) for Lexium CAS 3 cantilever axes is available on our website www.schneider-electric.com and on the documentation CD-ROM supplied with this catalogue.

(2) For the second part of the reference, see page 27.

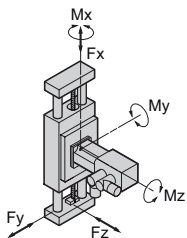
(3) Supplied with a 0.2 m cable equipped with an M8 connector.

(4) Supplied with a 5 m cable with flying leads at one end.

(5) Please refer to our website www.schneider-electric.com or the documentation CD-ROM supplied with this catalogue.

(6) Drive element fixed on right-hand side:

CAS 3●●CM●●●●●1●R/...(2)



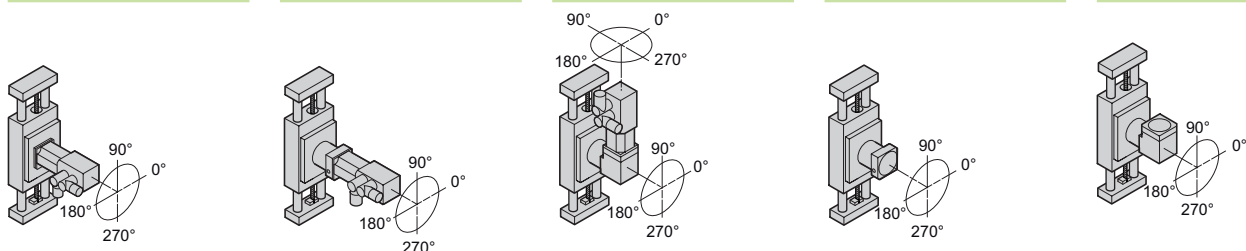
References (continued) (1)													
To order a Lexium CAS 3 cantilever axis, complete each reference by replacing the "●" (2):													
Example: CAS 3 1 B C M 0200 A 1 C R (2) / 2 1G 0 H 7 0		CAS 3 ● ● C M ● ● ● ● 1 ● R (2) / ● ● ● ● ● ● ● ● ● ● + ...											
+ PLE60 3:1 + BMH 0702P01A2A													
Motor drive configuration (3)	Motor only	/	1										
	Motor + gearbox	/	2										
	Gearbox only	/	3										
Gearbox interface	PLE 40 gearboxes	/		0G									
	PLE 60 gearboxes	/		1G									
	PLE 80 gearboxes	/		3G									
	PLE 120 gearboxes	/		5G									
	WPLE 40 gearboxes	/		0A									
	WPLE 60 gearboxes	/		1A									
	WPLE 80 gearboxes	/		3A									
	WPLE 120 gearboxes	/		5A									
	Other third-party gearboxes not assembled by Schneider Electric (gearbox drawings required)	/		YY									
	Other third-party gearboxes assembled by Schneider Electric (gearbox and drawings required)	/		ZZ									
Without gearbox	/		XX										
Gearbox orientation (3)	0°	/				3							
	90°	/				0							
	180°	/				9							
	270°	/				6							
	Without gearbox	/				X							
Motor interface	BSH 055● servo motors	/							H5				
	BSH 0701, 0702/BMH 0701, 0702 servo motors	/							H7				
	BSH 0703/BMH 0703 servo motors	/							H8				
	BSH 1001...1003/BMH 1001...1003 servo motors	/							H1				
	BSH 1004 servo motors	/							H4				
	BSH 1401...1404/BMH 1401...1403 servo motors	/							H2				
	Lexium ILS●●571, 572 integrated drives with 3-phase stepper motor	/							I6				
	Lexium ILS●●573 integrated drives with 3-phase stepper motor	/							I7				
	Lexium ILS●●851, 852 integrated drives with 3-phase stepper motor	/							I9				
	Lexium ILS●●853 integrated drives with 3-phase stepper motor	/							I8				
	Lexium ILA●●57 integrated drives with AC synchronous servo motor	/							A6				
	Lexium ILE●●66 integrated drives with DC brushless motor and gearbox with straight teeth	/							E7				
	BRS 368 stepper motors	/							V8				
	BRS 397, 39A stepper motors	/							V9				
	BRS 39B stepper motors	/							V0				
BRS 3AC, 3AD stepper motors	/							V1					
Third-party motors not assembled by Schneider Electric (motor drawings required)	/							YY					
Third-party motors assembled by Schneider Electric (motor and drawings required)	/							ZZ					
Without motor	/							XX					
Motor orientation (3)	0°	/									3		
	90°	/									0		
	180°	/									9		
	270°	/									6		
	Without motor	/									X		
Planetary gearbox gear ratio + motor reference	State the planetary gearbox gear ratio and the complete motor reference at the end of the reference, in plain text. Example: PLE60 3:1 + BMH 0702P01A2A												+ ...

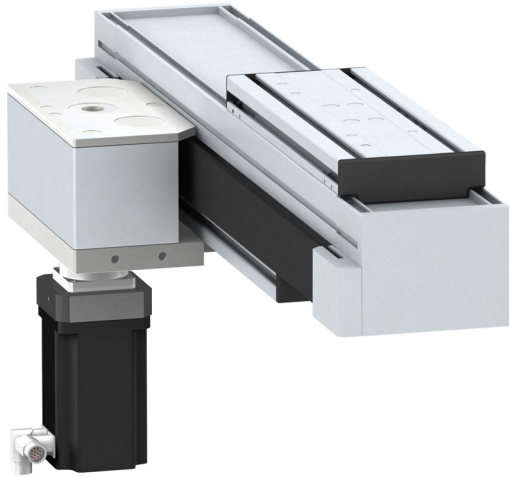
(1) All technical data (characteristics, dimensions, etc.) for Lexium CAS 3 cantilever axes is available on our website www.schneider-electric.com and on the documentation CD-ROM supplied with this catalogue.

(2) For the first part of the reference, see page 26.

(3) Possible motor drive configurations and orientation (view from motor/gearbox towards the axis or from motor towards the gearbox):

CAS 3●●...(2)/1XX●●● CAS 3●●...(2)/2●G●●● CAS 3●●...(2)/2●A●●● CAS 3●●...(2)/3●G●XXX CAS 3●●...(2)/3●A●XXX





Lexium CAS 2 telescopic axis with motor and gearbox mounted

Presentation (1)

Lexium CAS 2 telescopic axes are linear motion axes. They consist of a mobile axis structure, a mobile carriage and a fixed drive element.

This technology combination offers a longer maximum stroke than the actual length of the axis. The axis is able to move within a work area before moving out again completely.

The mobile carriage is used to support the load. It is driven by a toothed belt with roller or ball guides. The mobile structure's design is based on a very strong profile made of anodized aluminium. This profile is able to move loads of up to 35 kg, depending on the model. The mobile structure is driven by a toothed belt.

Lexium CAS 2 telescopic axes are designed for loading and unloading applications in work areas subject to access restrictions imposed, for example, by set working periods or limited space.

Lexium CAS 24BB axes, with a ball guide, are particularly suitable for applications requiring high forces and significant torque.

The rollers on Lexium CAS 24BR axes offer a simple and cost-effective guiding solution for other applications.

Lexium CAS 2 telescopic axes offer various configuration options. These include axis length, various types of sensor for the limit switch function, a choice between 2 carriage types of different sizes, etc. (see page 30).

Schneider Electric offers a number of drive elements which can be used to drive Lexium CAS 2 cantilever axes (2) (see pages 6 and 31).

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

Applications

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

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

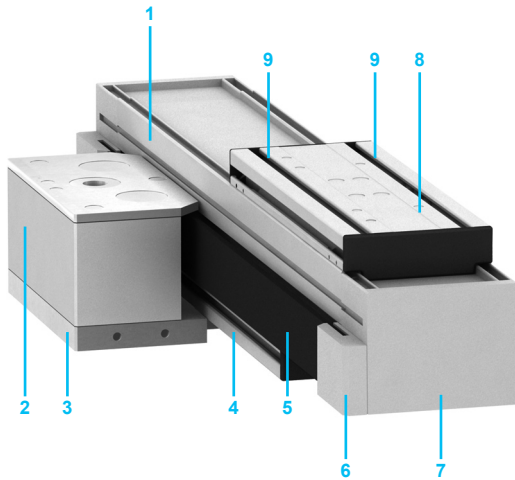
Special product features

- Excellent rigidity with light travel weight
- Carriage with T-slots for easier load mounting
- Compact
- Stroke can be set to the nearest millimeter
- Payload up to 25 kg for the Lexium CAS 24BR axes and up to 35 kg for the Lexium CAS 24BB axes

(1) All technical data (characteristics, dimensions, etc.) for Lexium CAS 2 telescopic axes is available on our website www.schneider-electric.com and on the documentation CD-ROM supplied with this catalogue.

(2) When selecting the drive element, the maximum permissible driving torque for the axis drive shaft must always be taken into account.


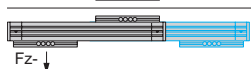
Description (1) (2)



- 1 Lexium CAS 24B telescopic axis
- 2 Drive block
- 3 Adaptor plate for drive element
- 4 Support for fixing axis
- 5 Toothed belt for driving mobile axis structure
- 6 Bracket for toothed belt driving mobile axis structure
- 7 End blocks
- 8 Carriage to support load
- 9 Grooves for load mounting

Lexium CAS 24B

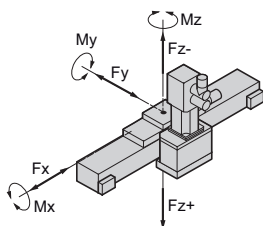
Mechanical characteristics (1)

Telescopic axis type	Lexium	CAS 24BR	CAS 24BB	
Type of drive	For supporting load		Toothed belt	
	For axis structure		Toothed belt	
Type of guide		Rollers	Ball	
Typical payload	kg	25	35	
Maximum driving force for X axis (Fx) (3)	N	1500		
Maximum speed	m/s	3		
Maximum acceleration	m/s ²	20		
Maximum driving torque	Nm	36		
Maximum force for Y axis (FY) (3)	N	1810	2460	
Maximum force for Z axis (Fz-, Fz+) (3)		N	1070	4650
		N	1070	2320
Maximum torque for X axis (Mx) (3)	Nm	52	70	
Maximum torque for Y axis (My) (3)	With carriage type 1	Nm	106	281
	With carriage type 2	Nm	148	374
Maximum torque for Z axis (Mz) (3)	With carriage type 1	Nm	219	298
	With carriage type 2	Nm	308	397
Maximum stroke	mm	2400		
Repeatability	mm	± 0.1		
Profile cross-section	Width x height	mm	120 x 95	
Service life	km	30,000		

(1) All technical data (characteristics, dimensions, etc.) for Lexium CAS 2 telescopic axes is available on our website www.schneider-electric.com and on the documentation CD-ROM supplied with this catalogue.

(2) Description of a Lexium CAS 2 telescopic axis; the configuration options selected will determine whether or not certain components are included.

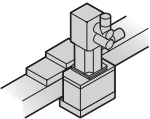
(3) Forces and torques exerted on the Lexium CAS 2 telescopic axis:



References (1)													
To order a Lexium CAS 2 telescopic axis, complete each reference by replacing the “●” (2):													
Example: CAS 2 4 B R M 2000 A 1 N R /... rest of the reference on page 31													
		CAS	2	4	B	●	M	●●●●	●	●	N	R	/ (2)
Size (profile cross-section)	120 (120 x 95 mm cross-section)		4										/
Type of drive for carriage and axis structure	2 toothed belts: 1 for the carriage and 1 for the axis structure			B									/
Type of guide for carriage	Rollers				R								/
	Ball				B								/
Feed per revolution	Axis structure: 150 mm/revolution Carriage: 300 mm/revolution						M						/
Stroke	2400 mm max.							●●●●					/
Limit switches	2 sensors with PNP output, NC contact, not connected (3)									A			/
	2 sensors with PNP output, NC contact, not connected (4)									B			/
	Without sensors/without detection plate									N			/
Type of carriage (5)	Type 1										1		/
	Type 2										2		/
Options	Without option											N	/
Interface for the drive element (6)	Drive element fixed on right-hand side												R /

(1) All technical data (characteristics, dimensions, etc.) for Lexium CAS 2 telescopic axes is available on our website www.schneider-electric.com and on the documentation CD-ROM supplied with this catalogue.
 (2) For the second part of the reference, see page 31.
 (3) Supplied with a 0.2 m cable equipped with an M8 connector.
 (4) Supplied with a 5 m cable with flying leads at one end.
 (5) See characteristics and dimensions on our website www.schneider-electric.com or refer to the documentation CD-ROM supplied with this catalogue.
 (6) Drive element fixed on right-hand side:

CAS 24B●M●●●●●NR/...(2)

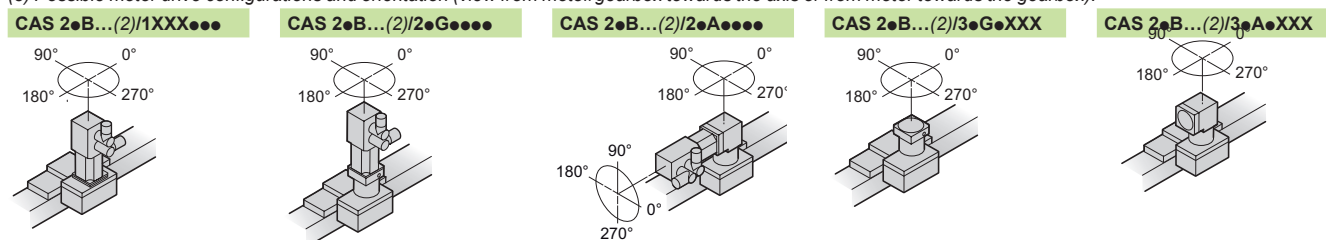


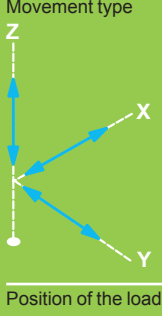
References (continued) (1)									
To order a Lexium CAS 2 telescopic axis, complete each reference by replacing the "●" (2):									
Example: CAS 2 4 B R M 2000 A 1 N R (2) / 2 3G 0 H 7 0		CAS 2 4 B ● M ●●●●●●● N R (2) / ● ●● ● ●● ●							
+ PLE80 3:1 + BMH 0702P01A2A									
Motor drive configuration (3)	Motor only	/	1						
	Motor + gearbox	/	2						
	Gearbox only	/	3						
Gearbox interface	PLE 40 gearboxes	/		0G					
	PLE 60 gearboxes	/		1G					
	PLE 80 gearboxes	/		3G					
	PLE 120 gearboxes	/		5G					
	WPLE 40 gearboxes	/		0A					
	WPLE 60 gearboxes	/		1A					
	WPLE 80 gearboxes	/		3A					
	WPLE 120 gearboxes	/		5A					
	Other third-party gearboxes not assembled by Schneider Electric (gearbox drawings required)	/		YY					
	Other third-party gearboxes assembled by Schneider Electric (gearbox and drawings required)	/		ZZ					
Gearbox orientation (3)	Without gearbox	/		XX					
	0°	/				3			
	90°	/				0			
	180°	/				9			
	270°	/				6			
Motor interface	BSH 055● servo motors	/						H5	
	BSH 0701, 0702/BMH 0701, 0702 servo motors	/						H7	
	BSH 0703/BMH 0703 servo motors	/						H8	
	BSH 1001...1003/BMH 1001...1003 servo motors	/						H1	
	BSH 1004 servo motors	/						H4	
	BSH 1401...1404/BMH 1401...1403 servo motors	/						H2	
	Lexium ILS●●571, 572 integrated drives with 3-phase stepper motor	/						I6	
	Lexium ILS●●573 integrated drives with 3-phase stepper motor	/						I7	
	Lexium ILS●●851, 852 integrated drives with 3-phase stepper motor	/						I9	
	Lexium ILS●●853 integrated drives with 3-phase stepper motor	/						I8	
	Lexium ILA●●57 integrated drives with AC synchronous servo motor	/						A6	
	Lexium ILE●●66 integrated drives with DC brushless motor and gearbox with straight teeth	/						E7	
	BRS 368 stepper motors	/						V8	
	BRS 397, 39A stepper motors	/						V9	
	BRS 39B stepper motors	/						V0	
	BRS 3AC, 3AD stepper motors	/						V1	
	Third-party motors not assembled by Schneider Electric (motor drawings required)	/						YY	
	Third-party motors assembled by Schneider Electric (motor and drawings required)	/						ZZ	
	Without motor	/						XX	
	Motor orientation (3)	0°	/						3
90°		/						0	
180°		/						9	
270°		/						6	
Without motor		/						X	
Planetary gearbox gear ratio + motor reference	State the planetary gearbox gear ratio and the complete motor reference at the end of the reference, in plain text. Example: PLE80 3:1 + BMH 0702P01A2A								+ ...

(1) All technical data (characteristics, dimensions, etc.) for Lexium CAS 2 telescopic axes is available on our website www.schneider-electric.com and on the documentation CD-ROM supplied with this catalogue.

(2) For the first part of the reference, see page 30.

(3) Possible motor drive configurations and orientation (view from motor/gearbox towards the axis or from motor towards the gearbox):

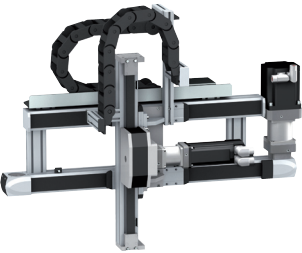
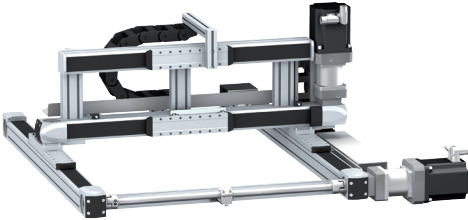


Axis type		Double portal axes	
Movement	Number of directions	1	
	Movement type	Horizontal: Combination of two parallel axes X and X	
			
	Position of the load	On two parallel carriages	
Multi-axis system type		PAS 4●B axes + PAS 4●H support axis (driven by the load)	PAS 4●B + PAS 4●B axes (shaft-driven)
Drive		Toothed belt on one axis	Toothed belt on both axes
Type of guide		Ball or roller	Ball or roller



Main characteristics		<input type="checkbox"/> Long stroke length	<input type="checkbox"/> High precision movement (positioning, guiding)
		<input type="checkbox"/> High dynamic response	<input type="checkbox"/> High feed forces
		<input type="checkbox"/> High precision movement (positioning, guiding)	
Maximum payload		250 kg	300 kg
Maximum working stroke	On the X axis	5500 mm	
	On the Y axis	–	
	On the Z axis	–	
Options		<input type="checkbox"/> Choice of guide type: Ball (for applications requiring high forces and torques) or roller (simple, cost-effective solution) <input type="checkbox"/> Protective metal strip <input type="checkbox"/> Anti-corrosion version <input type="checkbox"/> Anti-static belt <input type="checkbox"/> Wide range of sensors for the limit switch function <input type="checkbox"/> Several different motor mounting options <input type="checkbox"/> Variable distance between the two axes	
Reference		MAX H	MAX S
Page		36	

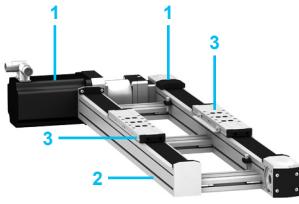


Linear positioners		Portal robots	
2		3	
Horizontal and vertical: Combination of one X axis and one Z axis		Horizontal: Combination of two perpendicular axes X and Y	Horizontal and vertical: Combination of two perpendicular axes X and Y and one Z axis
On the side or on the end blocks of the Z axis profile		On the Y axis carriage	On the side or on the end blocks of the Z axis profile
<input type="checkbox"/> MAX S + CAS 4 axes <input type="checkbox"/> MAX S + CAS 3 axes		<input type="checkbox"/> MAX S + MAX H axes <input type="checkbox"/> MAX S + PAS 4•B axes	<input type="checkbox"/> MAX S + MAX H + CAS 4 axes <input type="checkbox"/> MAX S + MAX H + CAS 3 axes
Toothed belt on each axis			
Ball or roller			
			
<input type="checkbox"/> Dynamic load positioning		<input type="checkbox"/> Long stroke length on both axes	
50 kg		50 kg	
5500 mm		5500 mm	
–		1500 mm	
1200 mm		–	
<input type="checkbox"/> Choice of guide type: Ball (for applications requiring high forces and torques) or roller (simple, cost-effective solution)		<input type="checkbox"/> Long stroke length on three axes	
<input type="checkbox"/> Wide range of sensors for the limit switch function		50 kg	
Supplied as standard:		5500 mm	
<input type="checkbox"/> Protective metal strip		1500 mm	
<input type="checkbox"/> Anti-corrosion version		1200 mm	
<input type="checkbox"/> Anti-static belt			
MAX P	MAX R•2	MAX R•3	
39	42	43	

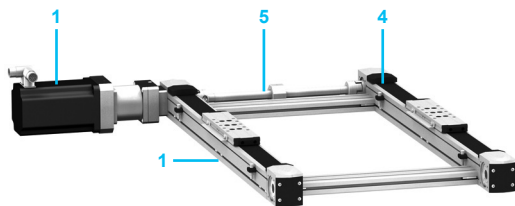


Lexium Linear Motion

Lexium MAX H and Lexium MAX S double portal axes



Lexium MAX H double portal axis with motor and gearbox mounted



Lexium MAX S double portal axis with motor and gearbox mounted

Presentation (1)

Lexium MAX H and Lexium MAX S double portal axes are linear motion axes. They consist of two PAS B portal axes mounted in parallel with:

- 1 axis driven by a drive element **1**
 - 1 support axis **2** (Lexium MAX H) or **4** (Lexium MAX S). The support axis drive differs according to the model:
 - Lexium MAX H axes: the support axis **2** is driven by the load fixed on the two parallel carriages **3**
 - Lexium MAX S axes: the support axis **4** is driven by a transmission shaft **5**
- The carriages are driven by a toothed belt, available with either a roller guide or a ball guide.

MAX ●2BB, MAX ●3BB and MAX ●4BB axes, with a ball guide, are particularly suitable for applications requiring high forces and significant torque. The rollers on MAX ●1BR, MAX●2BR and MAX ●3BR axes offer a simple and cost-effective guiding solution for other applications.

Lexium MAX H and Lexium MAX S double portal axes can provide a solution to applications requiring positioning of heavy loads over a long stroke with a high dynamic response.

Lexium MAX H double portal axes are able to move loads of up to 250 kg and Lexium MAX S double portal axes, loads of up to 300 kg, depending on the model.

Lexium MAX H and Lexium MAX S double portal axes offer different configuration options, including axis length, different types of sensor for the limit switch function, addition of a protective metal strip, the choice between several types and sizes of carriage, the option of having up to 3 carriages, an anti-static toothed belt and an anti-corrosion version, etc. (see page 36).

Schneider Electric offers numerous drive elements for driving Lexium MAX H and Lexium MAX S axes (2) (see pages 6 and 37).

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

Applications

Applications requiring:

- 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 drill holes for easier load mounting
- Grease nipples accessible on each side of the carriages to simplify routine maintenance
- Quick-coupling system for easy motor assembly
- Stroke can be set to the nearest millimeter
- Option to position sensors anywhere along the profile thanks to the T-slots
- Payload for portal axes:
 - Lexium MAX H: 250 kg maximum
 - Lexium MAX S: 300 kg maximum

(1) All technical data (characteristics, dimensions, etc.) for Lexium MAX ● axes is available on our website www.schneider-electric.com and on the documentation CD-ROM supplied with this catalogue. The load, force and torque data indicated in all the documents relates to carriages fixed on a rigid mechanical structure with a centrally fixed load.

(2) When selecting the drive element, the maximum permissible driving torque for the axis drive shaft must always be taken into account.

Lexium Linear Motion

Lexium MAX H and Lexium MAX S double portal axes

Mechanical characteristics (1)									
Type of double portal axis		Lexium	MAX H1 BR	MAX H2 BR	BB	MAX H3 BR	BB	MAX H4 BB	
Type of drive			Toothed belt						
Type of guide			Rollers		Ball	Rollers	Ball		
Typical payload	kg		12	20	65	40	150	250	
Maximum stroke	mm		3000		5500				
Distance between the two axes	minimum...maximum	mm	100...300		110...400		120...500		130...600
Type of double portal axis		Lexium	MAX S1 BR	MAX S2 BR	BB	MAX S3 BR	BB	MAX S4 BB	
Type of drive			Toothed belt						
Type of guide			Rollers		Ball	Rollers	Ball		
Typical payload	kg		15	25	75	50	180	300	
Maximum stroke	mm		3000		5500				
Distance between the two axes	minimum...maximum	mm	100...1400		110...1800		120...2300		130...2800

(1) All technical data (characteristics, dimensions, etc.) for Lexium MAX H and Lexium MAX S axes is available on our website www.schneider-electric.com and on the documentation CD-ROM supplied with this catalogue.

Lexium Linear Motion

Lexium MAX H and Lexium MAX S double portal axes

References (1)

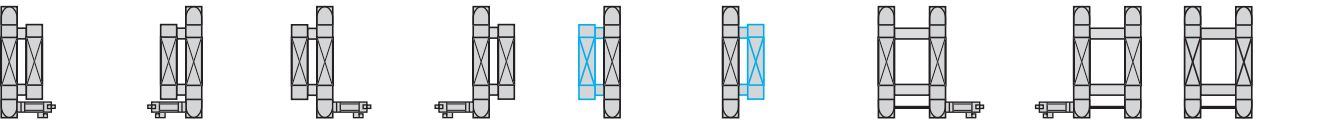
To order a Lexium MAX H or Lexium MAX S double portal axis, complete each reference by replacing the “●” (2):

Example: MAX H 1 B R M 1000 A 2 B A XXX R 0120R/... rest of the reference on page 37

		MAX	●	B	●	●	●●●●	●	●	●	●●●	●●●●	/ (2)
Type of drive for support axis	Support axis driven by the load	H											/
	Support axis driven by a drive shaft	S											/
Size (profile cross-section)	40 (40 x 40 mm cross-section)		1										/
	60 (60 x 60 mm cross-section)		2										/
	80 (80 x 80 mm cross-section)		3										/
	110 (110 x 110 mm cross-section)		4										/
Drive system for carriages	Toothed belt			B									/
Type of guide for carriages	Roller (for MAX ●1B, ●2B, ●3B)				R								/
	Ball (for MAX ●2B, ●3B, ●4B)				B								/
Feed per revolution	84 mm/revolution (for MAX ●1B)					M							/
	155 mm/revolution (for MAX ●2B)					M							/
	205 mm/revolution (for MAX ●3B)					M							/
	264 mm/revolution (for MAX ●4B)					M							/
Stroke	Maximum 3000 mm (for MAX ●1)						●●●●						/
	Maximum 5500 mm (for MAX ●2, MAX ●3 and MAX ●4)						●●●●						/
Limit switches (3)	2 sensors with PNP output, NC contact, not connected							A					/
	2 sensors with PNP output, NO contact, not connected							C					/
	2 sensors with NPN output, NC contact, not connected							E					/
	2 sensors with NPN output, NO contact, not connected							G					/
	Without sensors/without detection plate							N					/
Type of carriage (4)	Type 1 (for MAX ●2B, ●3B, ●4B)								1				/
	Type 2								2				/
	Type 4								4				/
Options	With protective metal strip									B			/
	Anti-corrosion version/without protective metal strip									C			/
	With anti-static toothed belt/without protective metal strip									A			/
	Anti-corrosion version/with anti-static toothed belt/without protective metal strip									E			/
	With anti-static toothed belt/with protective metal strip									L			/
	Without option									N			/
Number of carriages (5)	1										A		/
	2										B		/
	3										C		/
Distance between two carriages	State the distance in mm										●●●		/
	1 carriage only, state “XXX”										XXX		/
Interface for the drive element (6)	Drive element fixed on right-hand side											R	/
	Drive element fixed on left-hand side											L	/
	Drive element fixed externally, right-hand side (for MAX H)											A	/
	Drive element fixed externally, left-hand side (for MAX H)											B	/
	Without drive element/driven axis on the right (for MAX H)											G	/
	Without drive element/driven axis on the left (for MAX H)											H	/
	Without drive element (for MAX S)											N	/
Distance between the two axes	State the distance in mm (3)											●●●●	/

(1) All technical data (characteristics, dimensions, etc.) for Lexium MAX H and Lexium MAX S axes is available on our website www.schneider-electric.com and on the documentation CD-ROM supplied with this catalogue.
 (2) For the second part of the reference, see page 37.
 (3) Supplied with a 0.1 m cable equipped with an M8 connector.
 (4) See characteristics and dimensions on our website www.schneider-electric.com and on the documentation CD-ROM supplied with this catalogue.
 (5) Only carriages of the same type (type 1, type 2 or type 4) are permitted.
 (6) Types of interface for the drive element:

MAX H●B... MAX S●B...
 ...R●●●●/...(2) ...L●●●●/...(2) ...A●●●●/...(2) ...B●●●●/...(2) ...G●●●●/...(2) ...H●●●●/...(2) ...R●●●●/...(2) ...L●●●●/...(2) ...N●●●●/...(2)



References (continued) (1)

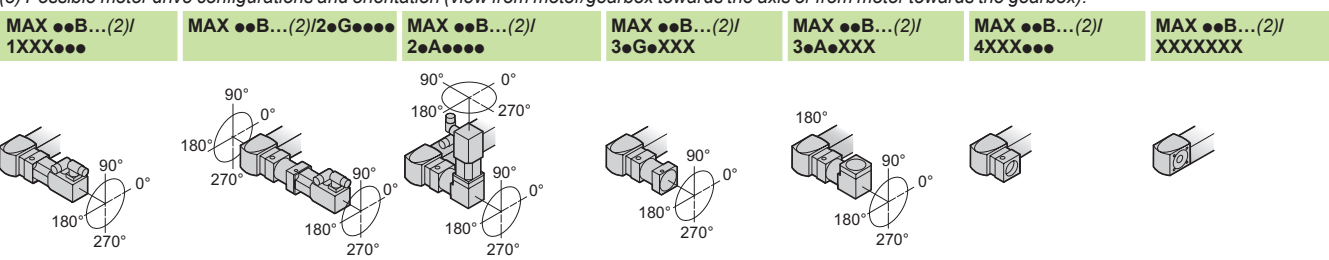
To order a Lexium MAX H or Lexium MAX S double portal axis, complete each reference by replacing the “●” (2):

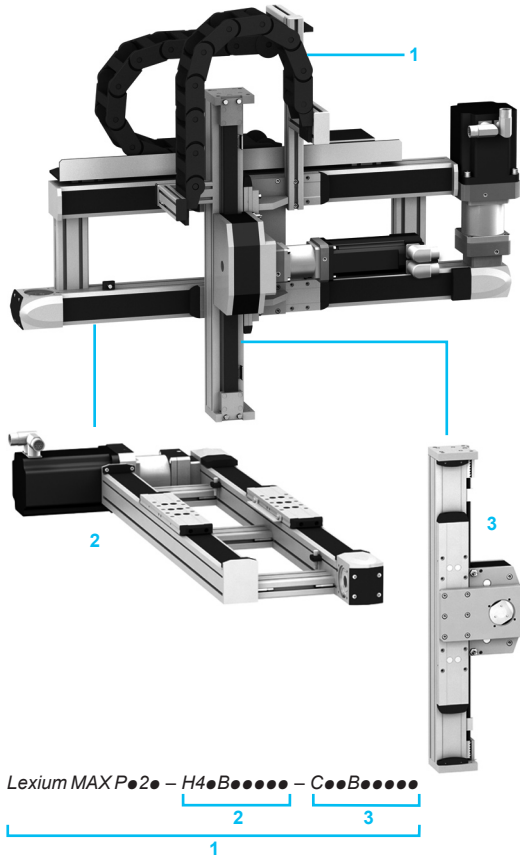
Example: MAX H 1 B R M 1000 A 2 B A XXX R 0120/2 1G 0 H7 0 (2) ●●●●●●●●●● (2)/ ●●●●●●●●●● + ...

Motor drive configuration (3)	Motor only	/	1																
	Motor + gearbox	/	2																
	Gearbox only	/	3																
	Without motor/without gearbox/with adaptor plate for the drive	/	4																
	Without motor/without gearbox	/	X																
Gearbox interface	PLE 40 gearboxes	/		0G															
	PLE 60 gearboxes	/		1G															
	PLE 80 gearboxes	/		3G															
	PLE 120 gearboxes	/		5G															
	WPLE 40 gearboxes	/		0A															
	WPLE 60 gearboxes	/		1A															
	WPLE 80 gearboxes	/		3A															
	WPLE 120 gearboxes	/		5A															
	Other third-party gearboxes not assembled by Schneider Electric (gearbox drawings required)	/		YY															
	Other third-party gearboxes assembled by Schneider Electric (gearbox and drawings required)	/		ZZ															
	Without gearbox	/		XX															
Gearbox orientation (3)	0°	/									3								
	90°	/									0								
	180°	/									9								
	270°	/									6								
	Without gearbox	/									X								
Motor interface	BSH 055● servo motors	/																	H5
	BSH 0701, 0702/BMH 0701, 0702 servo motors	/																	H7
	BSH 0703/BMH 0703 servo motors	/																	H8
	BSH 1001...1003/BMH 1001...1003 servo motors	/																	H1
	BSH 1004 servo motors	/																	H4
	BSH 1401...1404/BMH 1401...1403 servo motors	/																	H2
	Lexium ILS●●571, 572 integrated drives with 3-phase stepper motor	/																	I6
	Lexium ILS●●573 integrated drives with 3-phase stepper motor	/																	I7
	Lexium ILS●●851, 852 integrated drives with 3-phase stepper motor	/																	I9
	Lexium ILS●●853 integrated drives with 3-phase stepper motor	/																	I8
	Lexium ILA●●57 integrated drives with AC synchronous servo motor	/																	A6
	Lexium ILE●●66 integrated drives with DC brushless motor and gearbox with straight teeth	/																	E7
	BRS 368 stepper motors	/																	V8
	BRS 397, 39A stepper motors	/																	V9
	BRS 39B stepper motors	/																	V0
	BRS 3AC, 3AD stepper motors	/																	V1
	Third-party motors not assembled by Schneider Electric (motor drawings required)	/																	YY
	Third-party motors assembled by Schneider Electric (motor and drawings required)	/																	ZZ
	Without motor	/																	XX
Motor orientation (3)	0°	/																	3
	90°	/																	0
	180°	/																	9
	270°	/																	6
	Without motor	/																	X

Planetary gearbox gear ratio + motor reference State the planetary gearbox gear ratio and the complete motor reference at the end of the reference, in plain text. Example: **PLE60 3:1 + BMH 0702P01A2A** + ...

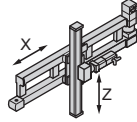
(1) All technical data (characteristics, dimensions, etc.) for Lexium MAX H and Lexium MAX S axes is available on our website www.schneider-electric.com and on the documentation CD-ROM supplied with this catalogue.
 (2) For the first part of the reference, see page 36.
 (3) Possible motor drive configurations and orientation (view from motor/gearbox towards the axis or from motor towards the gearbox):





Presentation (1)

Lexium MAX P linear positioners 1 are multi-axis systems for linear motion in directions X and Z:



They consist of two axes with:

- A Lexium MAX H double portal axis providing motion in direction X 2
 - A Lexium CAS 4 or Lexium CAS 3 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 MAX P linear positioners operate above or below the working area. They offer a reliable solution to dynamic load handling. Depending on the model, loads of up to 50 kg can be moved as far as 5500 mm in direction X and 1200 mm in direction Z.

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

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

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

Applications

Applications requiring dynamic load positioning

- Material handling
- Pick & Place
- Etc.

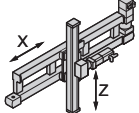
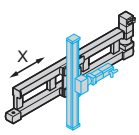
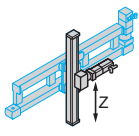
Special product features

- Numerous adaptation possibilities thanks to its modular design
- Maximum payload for Lexium MAX P positioners: 50 kg

Mechanical characteristics (1)

Type of linear positioner		Lexium	MAX P12 – H41BR – C31BC		H41BR – C41BR	MAX P22 – H42BR – C32BC		H42BB – C32BC	H42BR – C42BR	H42BB – C42BB
Type of drive	X and Z axes		Toothed belt							
Type of guide	X axis		Rollers					Ball	Rollers	Ball
	Z axis		Ball	Rollers	Ball		Rollers	Ball		
Typical payload		kg	2	4		5	6	15		
Maximum stroke	X axis	mm	3000	4000						
	Z axis	mm	200	400	300		600			
Type of linear positioner		Lexium	MAX P32 – H43BR – C34BC		H43BB – C34BC	MAX P42 – H44BB – C44BB		H43BR – C43BR	H43BB – C43BB	
Type of drive	X and Z axes		Toothed belt							
Type of guide	X axis		Rollers	Ball	Rollers	Ball				
	Z axis		Ball		Rollers	Ball				
Typical payload		kg	14	18	9	25	50			
Maximum stroke	X axis	mm	5500							
	Z axis	mm	500		800		1200			

(1) All technical data (characteristics, dimensions, etc.) for Lexium MAX P linear positioners is available on our website www.schneider-electric.com and on the documentation CD-ROM supplied with this catalogue.

References (1)										
To order a Lexium MAX P linear positioner, complete each reference by replacing the "●":										
Example: MAX P 1 2 R – H41 B R 4000 – C41 B R 0400		MAX P ● 2 ● – ●●● B ● ●●● – ●●● B ● ●●●								+ ...
+ PLE60 3:1 + BMH 0702P01A2A (for the X axis)										+ ...
+ PLE60 3:1 + BMH 0702P01A2A (for the Z axis)										+ ...
Size of X axis (profile cross-section) 	40 (40 x 40 mm cross-section)	1								
	60 (60 x 60 mm cross-section)	2								
	80 (80 x 80 mm cross-section)	3								
	110 (110 x 110 mm cross-section)	4								
Number of independent axes	2 axes: 1 X axis, 1 Z axis	2								
Interface for the drive element (3)	Drive element fixed on right-hand side		R							
	Drive element fixed on left-hand side		L							
Type of X axis										
	MAX H41 (for MAX P12) (2)		H41							
	MAX H42 (for MAX P22) (2)		H42							
	MAX H43 (for MAX P32) (2)		H43							
	MAX H44 (for MAX P42) (2)		H44							
Type of drive	Toothed belt			B						
Type of guide	Roller (for MAX P●2● – H41/H42/H43)				R					
	Ball (for MAX P●2● – H42/H43/H44)				B					
Stroke	State the length in mm (see the maximum possible length depending on the model on page 38)					●●●●				
Type of Z axis										
	CAS 41 (for MAX P12) (2)							C41		
	CAS 42 (for MAX P22) (2)							C42		
	CAS 43 (for MAX P32) (2)							C43		
	CAS 44 (for MAX P42) (2)							C44		
	CAS 31 (for MAX P12) (2)							C31		
	CAS 32 (for MAX P22) (2)							C32		
	CAS 34 (for MAX P32) (2)							C34		
Type of drive	Toothed belt							B		
Type of guide	Roller (for MAX P●2● – H4●B●●●●● – C41/C42/C43)								R	
	Ball (for MAX P●2● – H4●B●●●●● – C42/C43/C44)								B	
	Ball (for MAX P●2● – H4●B●●●●● – C3●)								C	
Stroke	State the length in mm (see the maximum possible length depending on the model on page 38)								●●●●	
Planetary gearbox gear ratio + motor reference										
State the planetary gearbox gear ratio and the complete motor reference at the end of the reference, in plain text, selected for the X axis and for the Z axis.										+ ...
Example: PLE60 3:1 + BMH 0702P01A2A for each axis										+ ...

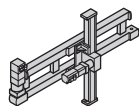
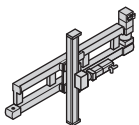
(1) All technical data (characteristics, dimensions, etc.) for Lexium MAX P linear positioners is available on our website www.schneider-electric.com and on the documentation CD-ROM supplied with this catalogue.

(2) Supplied with 2 PNP output sensors, NC contact, with a 0.1 m cable equipped with an M8 connector.

(3) Types of interface for the drive element:

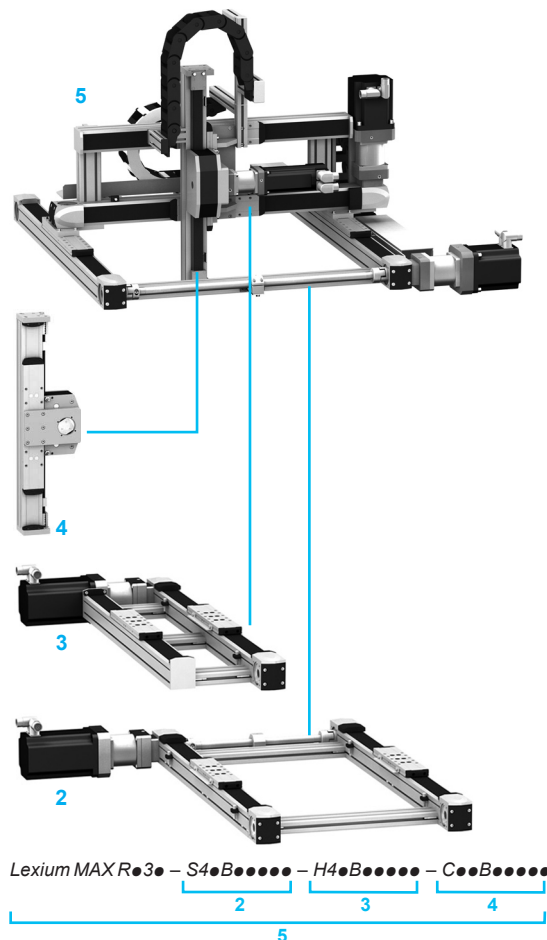
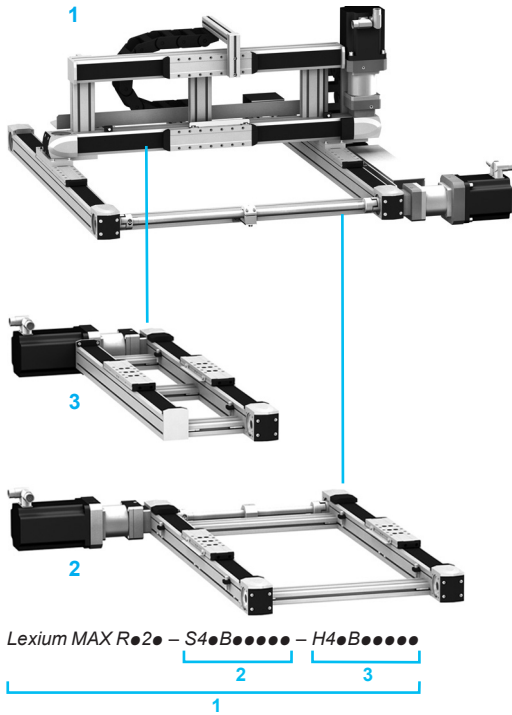
MAX P●2R – ...

MAX P●2L – ...



Lexium Linear Motion

Lexium MAX R●2 and Lexium MAX R●3 portal robots

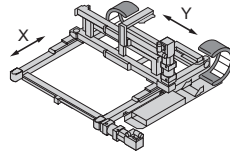


Presentation (1)

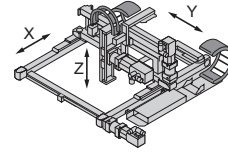
Lexium MAX R●2 **1** and Lexium MAX R●3 **5** portal robots are multi-axis linear motion systems.

Lexium MAX R●2 portal robots allow motion in directions X and Y.
Lexium MAX R●3 portal robots offer additional motion in direction Z.

Lexium MAX R●2 portal robot



Lexium MAX R●3 portal robot



Lexium MAX R●2 portal robots **1** consist of two axes:

- A Lexium MAX S double portal axis providing motion in direction X **2**
- A Lexium MAX H double portal axis or a Lexium PAS B portal axis providing motion in direction Y **3**

Lexium MAX R●3 portal robots **5** consist of three axes:

- A Lexium MAX S double portal axis providing motion in direction X **2**
- A Lexium MAX H double portal axis providing motion in direction Y **3**
- A Lexium CAS 4 or Lexium CAS 3 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 MAX R●2 and Lexium MAX R●3 portal robots operate above the working area. They offer a reliable solution to load handling over long distances:

- Lexium MAX R●2 portal robots: depending on the model, loads of up to 130 kg can be moved as far as 5500 mm in direction X and 1500 mm in direction Y
- Lexium MAX R●3 portal robots: depending on the model, loads of up to 50 kg can be moved as far as 5500 mm in direction X, 1500 mm in direction Y and 1200 mm in direction Z

These portal robots offer different configuration options for each axis, including length, choice of different sizes and types of profile, choice of different types of guide, etc. (see pages 42 and 43).

Schneider Electric offers numerous drive elements for driving Lexium MAX R●2 and Lexium MAX R●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 Centre.

Applications

Applications requiring load handling over long distances:

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

(1) All technical data (characteristics, dimensions, etc.) for Lexium MAX R●2 and Lexium MAX R●3 portal robots is available on our website www.schneider-electric.com and on the documentation CD-ROM supplied with this catalogue.

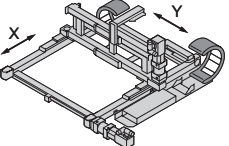
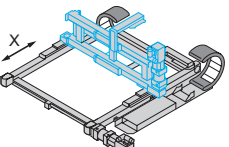
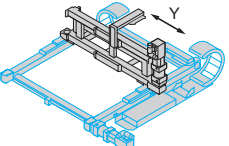
Mechanical characteristics (1)										
Lexium MAX R●2 portal robots										
Type of portal robot	Lexium		MAX R12 – S41BR – P41BR		MAX R22 – S42BR – P42BR		S42BB – H42BB	S42BR – H42BR	S42BB – H42BB	
Type of drive	X and Y axes		Toothed belt							
Type of guide	X axis		Rollers			Ball	Rollers	Ball		
	Y axis		Rollers			Ball	Rollers	Ball		
Typical payload		kg	5	8	5	12	15	30		
Maximum stroke	X axis	mm	3000		5500					
	Y axis	mm	1200		1500					
Type of portal robot	Lexium		MAX R32 – S43BR – P43BR		S43BB – P43BB	S43BR – H43BR	S43BB – H43BB	MAX R42 – S44BB – H44BB		
Type of drive	X and Y axes		Toothed belt							
Type of guide	X axis		Rollers	Ball	Rollers	Ball				
	Y axis		Rollers	Ball	Rollers	Ball				
Typical payload		kg	11	30	40	80	130			
Maximum stroke	X axis	mm	5500							
	Y axis	mm	1500							
Lexium MAX R●3 portal robots										
Type of portal robot	Lexium		MAX R13 – S41BR – H41BR – C31BC		S41BR – H41BR – C41BR	MAX R23 – S42BR – H42BB – C32BC		S42BB – H42BB – C32BC	S42BR – H42BR – C42BR	S42BB – H42BB – C42BB
Type of drive	X, Y and Z axes		Toothed belt							
Type of guide	X axis		Rollers			Ball	Rollers	Ball		
	Y axis		Rollers			Ball	Rollers	Ball		
	Z axis		Ball	Rollers	Ball	Rollers	Ball			
Typical payload		kg	2	4	4	5	6	15		
Maximum stroke	X axis	mm	3000		5500					
	Y axis	mm	1200		1500					
	Z axis	mm	200	400	300	600				
Type of portal robot	Lexium		MAX R33 – S43BR – H43BR – C34BC		S43BB – H43BB – C34BC	S43BR – H43BR – C43BR	S43BB – H43BB – C43BB	MAX R43 – S44BB – H44BB – C44BB		
Type of drive	X, Y and Z axes		Toothed belt							
Type of guide	X axis		Rollers	Ball	Rollers	Ball				
	Y axis		Rollers	Ball	Rollers	Ball				
	Z axis		Ball		Rollers	Ball				
Typical payload		kg	14	18	9	25	50			
Maximum stroke	X axis	mm	5500							
	Y axis	mm	1500							
	Z axis	mm	500		800			1200		

(1) All technical data (characteristics, dimensions, etc.) for Lexium MAX R●2 and Lexium MAX R●3 portal robots is available on our website www.schneider-electric.com and on the documentation CD-ROM supplied with this catalogue.

References (1)

To order a Lexium MAX R●2 portal robot, complete each reference by replacing the "●":

Example: MAX R 1 2 R – S41 B R 3000 – H41 B R 1200
 + PLE60 3:1 + BMH 0702P01A2A
 + PLE60 3:1 + BMH 0702P01A2A
 MAX R ● 2 ● - ●● B ● ●●● - ●●● B ● ●●●
 + ...
 + ...

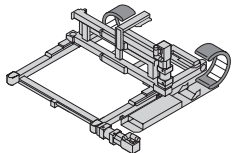
Size of X axis (profile cross-section) 	40 (40 x 40 mm cross-section)	1														
	60 (60 x 60 mm cross-section)	2														
	80 (80 x 80 mm cross-section)	3														
	110 (110 x 110 mm cross-section)	4														
Number of independent axes	2 axes: 1 X axis, 1 Y axis	2														
	Interface for the drive element (3) Drive element fixed on right-hand side Drive element fixed on left-hand side	 R L														
Type of X axis 	MAX S41 (for MAX R12) (2)	S41														
	MAX S42 (for MAX R22) (2)	S42														
	MAX S43 (for MAX R32) (2)	S43														
	MAX S44 (for MAX R42) (2)	S44														
Type of drive	Toothed belt								B							
	Type of guide Roller (for MAX R●2● – S41/S42/S43) Ball (for MAX R●2● – S42/S43/S44)	 R B														
Stroke	State the length in mm (see maximum possible length depending on the model on page 41)										●●●●					
Type of Y axis 	MAX H41 (for MAX R12) (2)												H41			
	MAX H42 (for MAX R22) (2)													H42		
	MAX H43 (for MAX R32) (2)													H43		
	MAX H44 (for MAX R42) (2)													H44		
	PAS 41 (for MAX R12) (2)													P41		
	PAS 42 (for MAX R22) (2)													P42		
	PAS 43 (for MAX R32) (2)													P43		
Type of drive	Toothed belt													B		
	Type of guide Roller guide (for MAX R●2● – S4●B●●●● – H41/H42/H43/P4●) Ball guide (for MAX R●2● – S4●B●●●● – H42/H43/H44/P42/P43/P44)	 R B														
Stroke	State the length in mm (see maximum possible length depending on the model on page 41)															●●●●
Planetary gearbox gear ratio + motor reference	State the planetary gearbox gear ratio and the complete motor reference at the end of the reference, in plain text, selected for the X axis and for the Y axis. Example: PLE60 3:1 + BMH 0702P01A2A for each axis															+ ... + ...

(1) All technical data (characteristics, dimensions, etc.) for Lexium MAX R●2 portal robots is available on our website www.schneider-electric.com and on the documentation CD-ROM supplied with this catalogue.

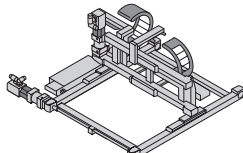
(2) Each axis is supplied with 2 PNP output sensors, NC contact, with a 0.1 m cable equipped with an M8 connector.

(3) Types of interface for the drive element:

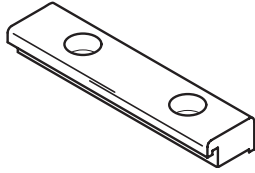
MAX R●2R – ...



MAX R●2L – ...



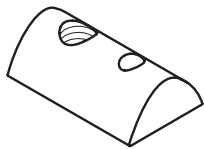
Clamping jaws (1)



VW33MF10●●●

Description	For Lexium linear axes (2)	Reference	Weight kg
Clamping jaws These are used to mount portal axes on a fixed support. (sold in lots of 10)	PAS 41B	VW33MF10511	–
	PAS 41S		
	TAS 41	VW33MF10515	–
	PAS 42B	VW33MF10512	–
	PAS 42S		
	PAS 43B	VW33MF10613	–
	PAS 43S		
	PAS 44B	VW33MF10814	–
	PAS 44S		
	TAS 42		
TAS 43			

T-slot nuts (1)



VW33MF010T●●●

Description	For Lexium linear axes (2)	T-slot width and retaining screw Ø mm	Reference	Weight kg	
T-slot nuts These are inserted in the axis T-slots. They are used to mount the axis on a fixed support. (sold in lots of 10)	PAS 41B	Width: 5 M5 screw	VW33MF010T5N5	–	
	PAS 41S				
	PAS 42B				
	PAS 42S				
	CAS 41				
	CAS 42				
	TAS 41				
	PAS 43B	Width: 6 M6 screw	VW33MF010T6N6	–	
	PAS 43S				
	CAS 43				
PAS 44B	Width: 8 M6 screw	VW33MF010T8N6	–		
PAS 44S					
CAS 44	Width: 8 M8 screw	VW33MF010T8N8	–		
TAS 42					
TAS 43					

(1) All technical data for accessories is available on our website www.schneider-electric.com or on the documentation CD-ROM supplied with this catalogue.

(2) Also available for Lexium MAX H, Lexium MAX S, Lexium MAX P, Lexium MAX R●2 and Lexium MAX R●3 multi-axis systems designed with the Lexium linear axes mentioned, of the same size. Example: An accessory available for a Lexium PAS 41B portal axis is also available for a Lexium MAX H1 double portal axis.

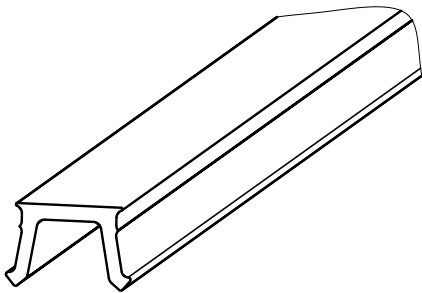
Adaptors (1)



VW33MF020LD0●

Description	For Lexium linear axes (2)	Reference	Weight kg
Adaptors These ensure accurate, reproducible positioning of the load on the carriage. They are inserted in the holes provided on the carriage. (sold in lots of 20)	PAS 41B PAS 41S PAS 42B PAS 42S CAS 41 CAS 42	VW33MF020LD01	–
	PAS 43B PAS 43S CAS 43	VW33MF020LD02	–
	PAS 44B PAS 44S CAS 44	VW33MF020LD03	–

Protective covers for T-slots (1)



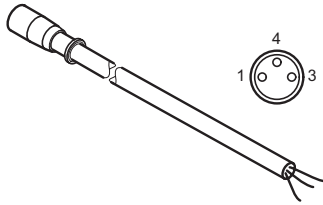
VW33MC05●0●

Description	For Lexium linear axes (2)	Reference	Weight kg
Protective covers for T-slots These protect the profile T-slots. Length 2 m (sold in lots of 5)	PAS 41B PAS 41S CAS 41	VW33MC05A05	–
	PAS 42B PAS 42S CAS 42	VW33MC05B05	–
	PAS 43B PAS 43S CAS 43	VW33MC05A06	–
	PAS 44B PAS 44S CAS 44	VW33MC05A08	–

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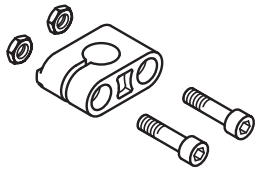
Extension cables for sensor (1)



VW32SBCBGA●●●

Description	For Lexium linear axes (2)	Length	Reference	Weight
		m		
Extension cables for sensor Cables equipped with a 3-way M8 connector on the sensor end and one stripped end. These cables connect directly to the cable supplied with the sensor via the M8 connector.	PAS 4●B PAS 4●S CAS 4●	5	VW32SBCBGA050	–
		10	VW32SBCBGA100	–
		20	VW32SBCBGA200	–

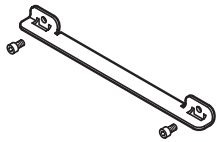
Sensor support (1)



VW33MF010M8

Description	For Lexium linear axes (2)	Reference	Weight
			kg
Sensor support This is used to hold a standard Ø 8 mm sensor for the limit switch function. It is inserted in the axis T-slots. (sold in lots of 10)	PAS 4●B PAS 4●S	VW33MF010M8	–

Detection plate for sensor (1)



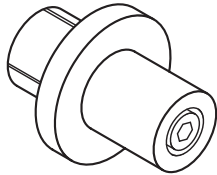
VW33MASP1

Description	For Lexium linear axes (2)	Reference	Weight
			kg
Detection plate for sensor This acts as a physical marker for the sensors acting as limit switches when detecting the presence of the carriage. It is mounted on the axis carriage and is supplied with retaining screws.	PAS 4●B PAS 4●S	VW33MASP1	–

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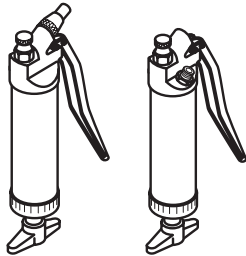
Shaft journals (1)



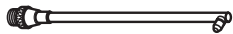
VW33MF1S●●A●●

Description	For Lexium linear axes (2)	Maximum radial force	Moment of inertia	Maximum driving torque	Reference	Weight (3)
		N	kgcm ²	N		kg
Shaft journals Coupled to the axis, these can be used, via a mechanical adaptor (not supplied), to connect: ■ An encoder indicating the axis position ■ A third-party application-specific drive	PAS 41B PAS 41S CAS 41	230	0.002	7.7	VW33MF1S12A12	0.012
	PAS 42B PAS 42S CAS 42	400	0.05	35.7	VW33MF1S27A20	0.073
	PAS 43B PAS 43S CAS 43	700	0.16	82	VW33MF1S32A25	0.148
	PAS 44B PAS 44S CAS 44	1300	0.54	182	VW33MF1S37A32	0.311

Lubrication accessories (1)



VW33MAP01 VW33MAP02



VW33MAT01



VW33MAT02

Description	For Lexium linear axes (2)	Nozzle angle	Reference	Weight (3)
				kg
High-pressure grease pump (4) This is used to lubricate axes with ball guides: ■ Grease capacity: 120 cm ³ ■ Flow rate: 0.5 cm ³ /pressure	PAS 4●BB PAS 4●SB TAS 4● CAS 4●BB	–	VW33MAP01	–
High-pressure oil pump (4) This is used to lubricate axes with roller guides: ■ Oil capacity: 120 cm ³ ■ Flow rate: 0.5 cm ³ /pressure	PAS 4●BR CAS 4●BR	–	VW33MAP02	–
D6 rigid nozzles These are mounted on VW33MAP01 and VW33MAP02 high-pressure pumps to lubricate the Lexium axes.	PAS 4●B● PAS 4●S●	90°	VW33MAT01	–
	TAS 4● CAS 4●B●	20°	VW33MAT02	–
	CAS 2		VW33MAT03	–

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(3) Weight of unpackaged product.

(4) Requires a D type nozzle, to be ordered separately.

Schneider Electric Industries SAS

Head Office
35, rue Joseph Monier
F-92500 Rueil-Malmaison
France

www.schneider-electric.com

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