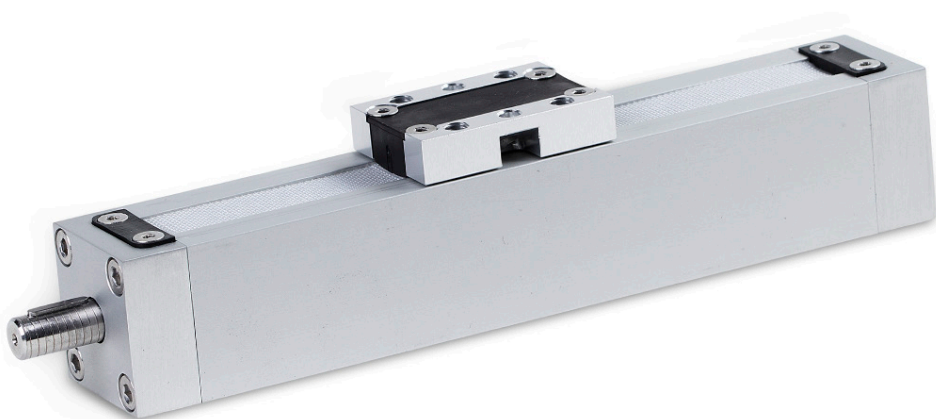




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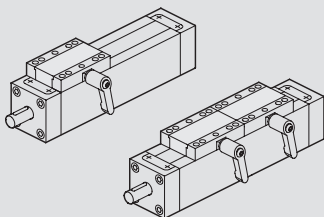
## Highlights

# Configurable Profile Linear Actuators



Standard Parts. **Ganter.**

# Configure your profile linear actuator: Four steps to the right product



GN 8910 / GN 8920

## 1

### Select the linear actuator

In the first step, select the linear actuator you require (one or two carriages) with the required size, the material of the threaded spindle, the stroke, the carriage size, the lead direction and the spindle pitch. Finally, you can select the mounting option.

## 2

### Choose accessories

The stud lengths on the linear actuator vary depending on the chosen accessories. The type overview on page 14 details the range of possible accessories.

## 3

### Ordering the linear actuator

The linear actuator can now be ordered customized for the chosen accessories.

#### How to order

Standard section

Accessory

GN 8910 - 50 - ST - 1100 - B - RH - 2 - H23 - A - U - 100 - 400 - 700 - 100

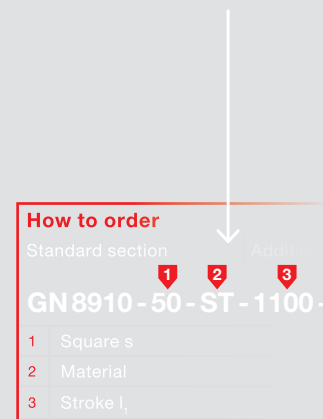
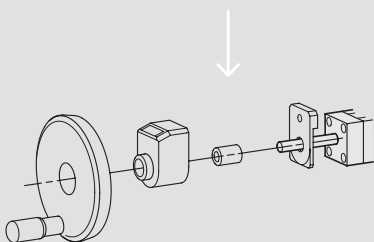
- 1 Square s
- 2 Material
- 3 Stroke L

1 2 3 4 5 6 7 8 9 10

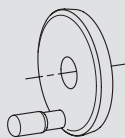
## 4

### Ordering the accessories

The accessories **must be ordered separately** using the corresponding standard.



z.B. GN 9734



z.B. GN 9234

# Contents

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## Introduction

Technical Instructions	2
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## Configurable Profile Linear Actuators

Profile Linear Actuators GN 8910, with One Carriage	6
Profile Linear Actuators GN 8920, with Two Opposing Carriages	10

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## Accessories for Configurable Profile Linear Actuators

Overview of Types	14
Handwheels GN 9234	15
Clamping Plates GN 9734	16
Position Indicators GN 9534 (Mechanical Counter)	17
Position Indicators GN 9034 (Electronic Counter)	18
Torque Supports GN 891.2	19
Carriage Clamping Units GN 891.3	20

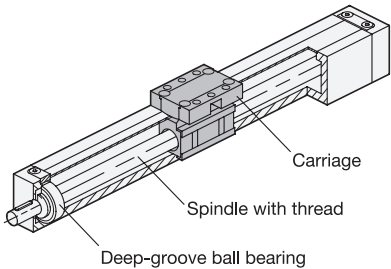
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Otto Ganter GmbH & Co. KG, March 2025

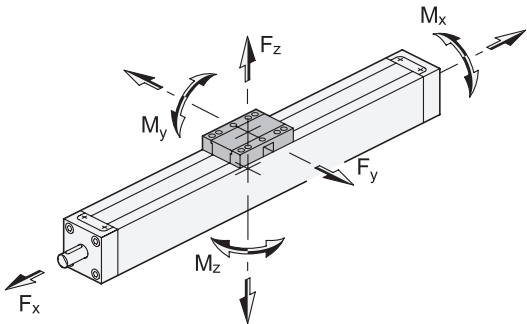
Technical Description

Configurable linear profile actuators move and position one or more carriages linearly via a spindle drive with ball bearings on both sides. Inside the guide profile, the carriage is guided by a 4-fold plain bearing. The end pieces serve to limit the travel path and close off the profile linear actuators at the front.

Profile linear actuators can be individually equipped with up to 4x2 fixing holes. Threaded holes can be selected for fixing from below and through-holes with a flat countersink for fixing from above.



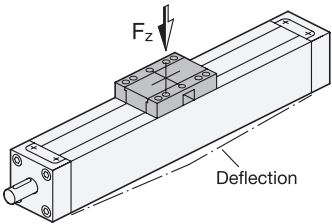
Load Data



Ø Linear actuator	Fx in N	Fy in N						Fz in N						Mx in Nm	My in Nm	Mz in Nm
		l=200	l=500	l=700	l=900	l=1000		l=200	l=500	l=700	l=900	l=1000				
30	150	550	400	140	60	50		550	400	140	60	50		5	45	19
50	300	1660	1660	990	460	340		1660	1660	1660	820	600		25	107	29

Deflection / Elastic Deformation

The maximum permissible forces and torques given in the table result in elastic deformation of the linear actuator. At the indicated values, this amounts to about 0.3 mm. The figure shows this deformation using force  $F_z$  as an example.



Positioning Precision

The positioning precision indicates the amount of deviation with which a specific position can be reached. The table indicates the maximum occurring deviation.

Maximum deviation
Lead screw drive
± 0,1 mm / 300 mm Stroke

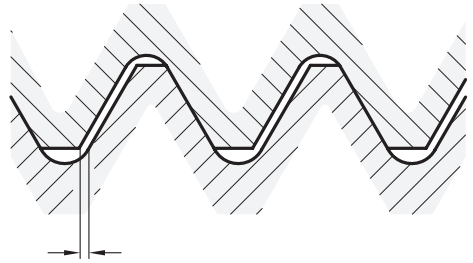
## Repeatability

The repeatability indicates how precisely a position can be reached multiple times under identical conditions. In general, the repeatability is higher than the positioning precision because manufacturing tolerances have no influence on the repeatability. With the metric thread drives used, the repeatability is  $\pm 0.05$  mm.

## Backlash on Reversal

The play between the thread flanks of the spindle and the spindle nut results in backlash when the drive direction is changed. Before the actuator moves in the opposite direction, this play must first be overcome.

This backlash on reversal prevents the spindle nut and spindle from jamming up. For profile linear actuators, the backlash on reversal is 0.2 mm



## Self-Locking

Since the lead angle of trapezoidal and fine thread spindles is smaller than the angle of friction, these spindles are self-locking. It is not possible to push the linear actuator. The spindle can also be additionally secured with an external spindle lock by means of clamping plates. Due to its lower rolling friction, the ball screw drive has no self-locking properties.

## Lifespan

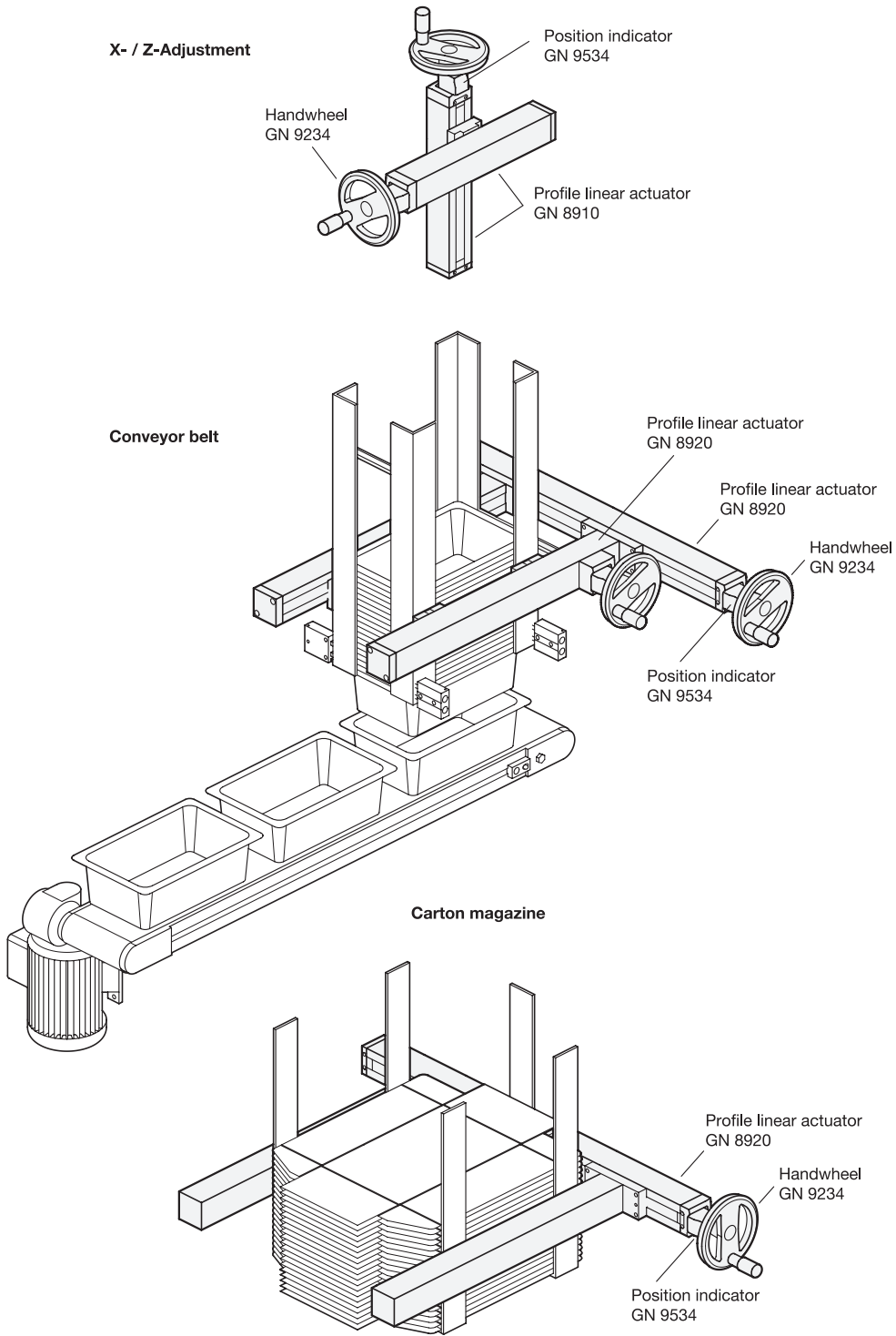
The lifespan of linear actuators in a given application depends on the expected environmental conditions.

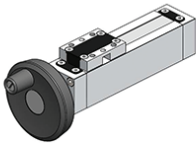
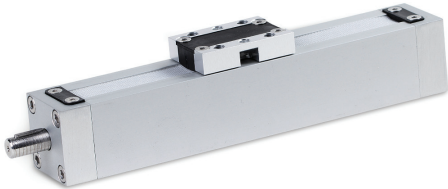
The following factors come into play:

- Installation situation
- Loads to be moved
- Movement speed
- Movement frequency
- Ambient temperature
- Compliance with maintenance intervals

## Environmental Conditions

The linear actuators are designed for ambient temperatures from  $-20$  °C to  $+100$  °C. Great temperature fluctuations and condensing humidity should generally be avoided.





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3D

2D

3D PDF data sheet

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Direct insert (Click2CAD Toolbox required)

CAD system




Linear actuator

**8910-30-ST-100-B-RH-1,5-E-E-W**

Delivery time: 5 weeks

Add to basket

 Go to basket

▼ **8910 Profile Linear Actuators, with One Carriage**



Standard sheet GN8910

Square

30



Material

☒ ST ☐ NI

Guide profile / Carriage /  
End caps

Aluminum  
Anodized, natural color

Strip clamping /  
Carriage cover /  
Carriage friction bearings

Plastic

Lead nut

Plastic, polyacetal (POM)

▼ **Spindle**

Thread type

Fine thread, metric

Spindle pitch [mm]

1,5

Thread direction  
of spindle

☒ Right hand thread  
☐ Left hand thread

Spindle clamping

without



▼ **Lengths and strokes**

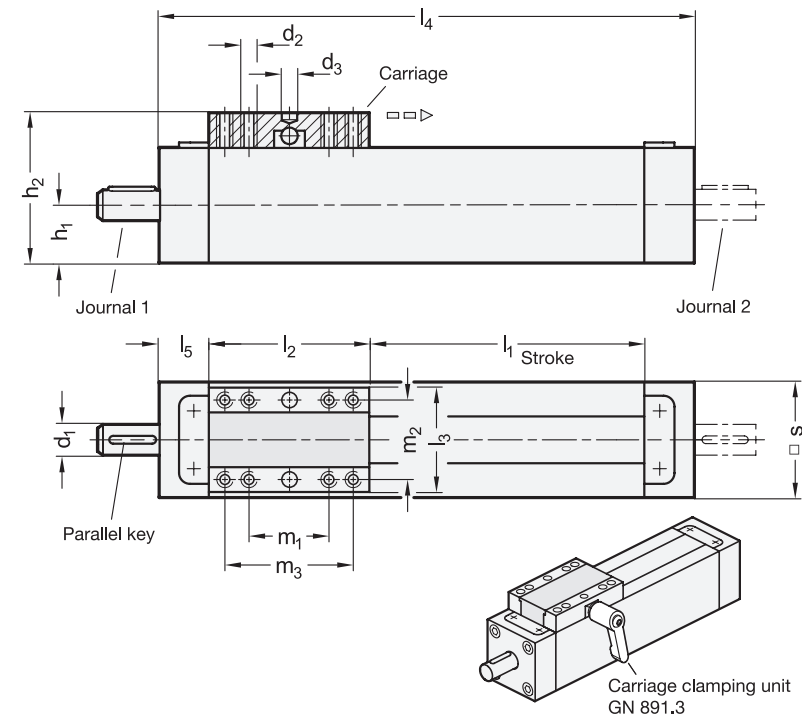


Stroke l1 [mm] [0-450]

100

## Simple online configuration and ordering at **ganternorm.com**

The new online configurator makes configuring your individual linear actuator incredibly easy while providing a complete overview of the various designs and possible accessories. When finished, you can even place an order directly from the configurator.



**4 Type**

- A Short carriage
- B Long carriage

**5 Thread direction of spindle**

- RH Right hand thread
- LH Left hand thread

s ∅ Linear actuator	l <sub>1</sub> Max. stroke	d <sub>1</sub>	d <sub>2</sub>	d <sub>3</sub> H7	h <sub>1</sub>	h <sub>2</sub>	l <sub>2</sub>		l <sub>3</sub>	l <sub>4</sub> max.	l <sub>5</sub>	m <sub>1</sub>	m <sub>2</sub>	m <sub>3</sub>		Parallel key DIN 6885-1
							Type A	Type B						Type A	Type B	
30	1000	8	M 5	4	15	39	40	84	29	1112	14	22	22	-	66	A2x2x12
50	1500	12	M 6	5	25	62	60	120	49	1662	21	36	36	48	108	A4x4x12

**Specification**

**Guide profile / Carriage / End caps**

Aluminum  
Anodized, natural color

**Spindle**

- Steel
- Stainless steel AISI 303
- with ball-bearing

ST  
NI

**Strip clamping / Carriage cover /  
Carriage friction bearings**

Plastic

**Lead nut**

Plastic, polyacetal (POM)

**Screws**

Stainless steel

RoHS

**Technical Information**

Page

Technical Instructions

2

**Technical Information**

Catalogue Page

Keyways DIN 6885-1

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Stainless Steel Characteristics

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**Accessory**

Page

Carriage Clamping Units GN 891.3

16

Profile linear actuators GN 8910 consist of a square guide profile with an internal 4-fold friction bearing that guides the carriage. The carriage is moved linearly and positioned by a spindle drive with ball bearing. The GN 891.3 carriage clamping unit, available as an accessory, can be used to fix the carriage in place if required. A continuous cover strip protects the interior from soiling. The two end caps support the spindle and close off the end faces of the profile linear actuators.

Profile linear actuators can be individually equipped with up to 4x2 fixing holes. Threaded holes can be selected for fixing from below and through-holes with a flat countersink for fixing from above. Depending on the design, either the component to be moved is attached to the carriage or the carriage itself is installed at the point of use, so that the entire linear actuator moves.

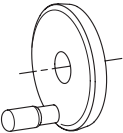


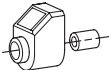
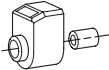
The overview shows a range of possible accessories that can be installed on the profile linear actuator in the various configurations. The design and length of the journal varies depending on the accessories, which must be taken into consideration when selecting the linear actuator. The accessories are not included with the linear actuators and must be ordered separately. For assistance, please refer to the type overview on page 14.



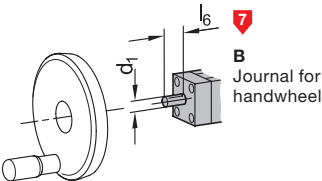
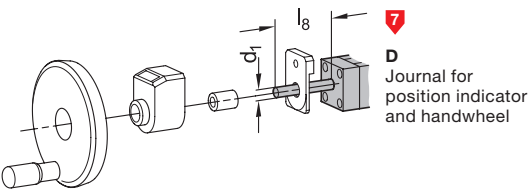
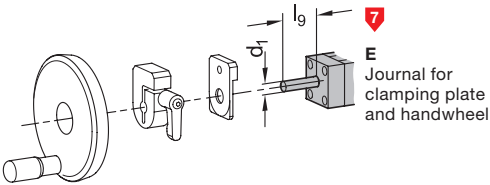
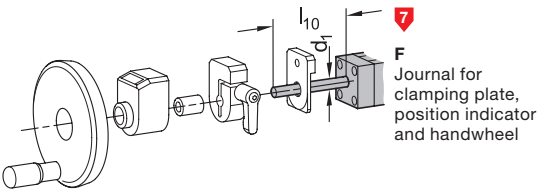
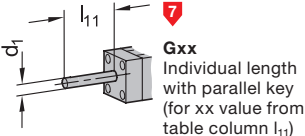
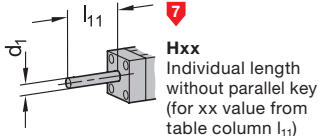
6

s	Spindle pitch	Journal diameter	Journal length					
	Metric	d <sub>1</sub>	l <sub>6</sub>	l <sub>7</sub>	l <sub>8</sub>	l <sub>9</sub>	l <sub>10</sub>	l <sub>11</sub>
30	1,5	8	16	39	55	34	70	16...70
50	2	12	18	49	67	40	82	18...82


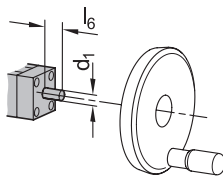
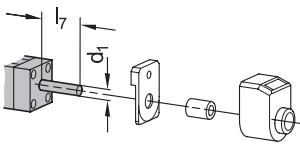
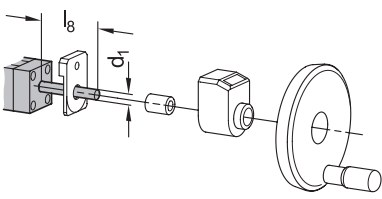
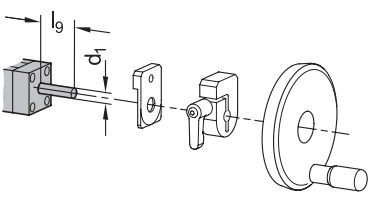
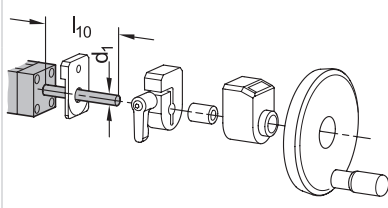
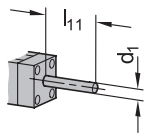
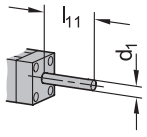
Overview accessories

Handwheels GN 9234 → Page 11	Clamping Plates GN 9734 → Page 12	Torque Supports GN 891.2 → Page 15	Position Indicators GN 9034 Electronic counter → Page 14	Position Indicators GN 9534 Mechanical counter → Page 13
				

Version - Journal 1

 <p><b>B</b> Journal for handwheel</p> <p>Journal length l<sub>6</sub></p>	 <p><b>D</b> Journal for position indicator and handwheel</p> <p>Journal length l<sub>8</sub></p>
 <p><b>E</b> Journal for clamping plate and handwheel</p> <p>Journal length l<sub>9</sub></p>	 <p><b>F</b> Journal for clamping plate, position indicator and handwheel</p> <p>Journal length l<sub>10</sub></p>
 <p><b>Gxx</b> Individual length with parallel key (for xx value from table column l<sub>11</sub>)</p> <p>Journal length l<sub>11</sub></p>	 <p><b>Hxx</b> Individual length without parallel key (for xx value from table column l<sub>11</sub>)</p> <p>Journal length l<sub>11</sub></p>

Version - Journal 2

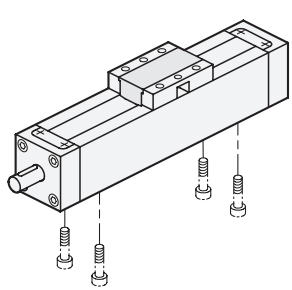
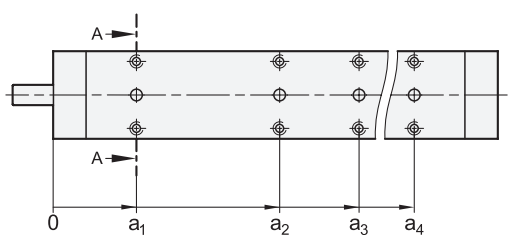
	<div>8</div> <p><b>A</b> Without journal</p>		<div>8</div> <p><b>B</b> Journal for handwheel</p>
Cover cap		Journal length $l_6$	
	<div>8</div> <p><b>C</b> Journal for position indicator</p>		<div>8</div> <p><b>D</b> Journal for position indicator and handwheel</p>
Journal length $l_7$		Journal length $l_8$	
	<div>8</div> <p><b>E</b> Journal for clamping plate and handwheel</p>		<div>8</div> <p><b>F</b> Journal for clamping plate, position indicator and handwheel</p>
Journal length $l_9$		Journal length $l_{10}$	
	<div>8</div> <p><b>Gxx</b> Individual length with parallel key (for xx value from table column <math>l_{11}</math>)</p>		<div>8</div> <p><b>Hxx</b> Individual length without parallel key (for xx value from table column <math>l_{11}</math>)</p>
Journal length $l_{11}$		Journal length $l_{11}$	

**Mounting Options**

9

W Without fixing holes

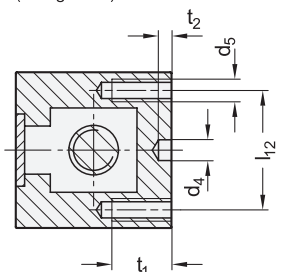
U From below (threaded hole)

10

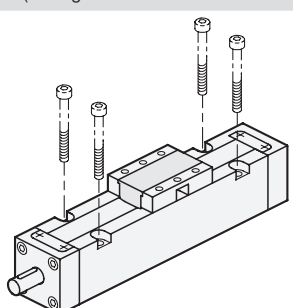
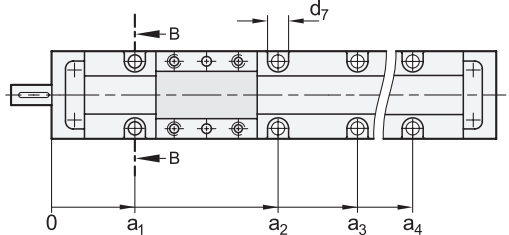
Fixing holes

View A-A  
(Fixing holes)



9

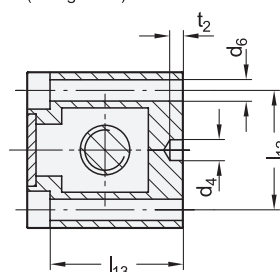
O From above (through-hole with flat countersinking)

10

Fixing holes

View B-B  
(Fixing holes)



s	d <sub>4</sub> H7	d <sub>5</sub>	d <sub>6</sub>	d <sub>7</sub>	l <sub>12</sub>	l <sub>13</sub>	t <sub>1</sub>	t <sub>2</sub>
30	3	M 3	3,4	6,5	24	26,6	10	3
50	5	M 5	5,5	10	40	44,6	12	5

How to order (Without fixing holes)

Standard section

Supplemental section

1

2

3

4

5

6

7

8

9

GN 8910-30-NI-1000-B-RH-1,5-E-E-W

How to order (With fixing holes)

Standard section

Supplemental section

1

2

3

4

5

6

7

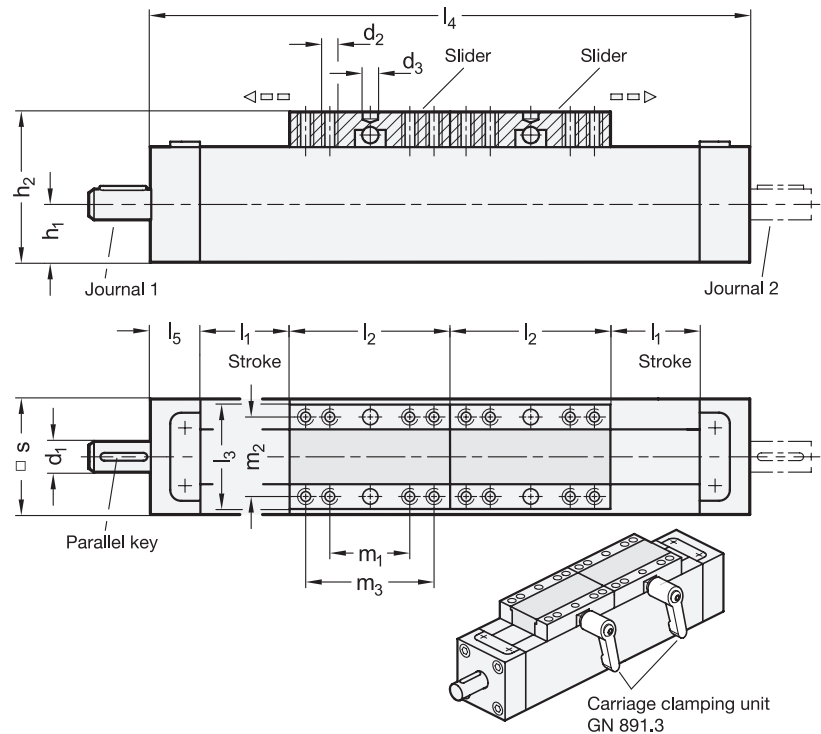
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9

10

GN 8910-50-ST-1100-B-RH-2-H23-A-U-100-400-700-1000

1	Square s	4	Type	7	Version journal 1	10	a <sub>1</sub> , a <sub>2</sub> ... (Fastening holes)
2	Material	5	Thread direction of spindle	8	Version journal 2		
3	Stroke l <sub>1</sub>	6	Spindle pitch	9	Mounting options		



4 Type

- A Short carriage
- B Long carriage

5 Thread direction of spindle

- RH Right hand thread for journal 1, Left hand thread for journal 2
- LH Left hand thread for journal 1, Right hand thread for journal 2

1	3															
s Linear actuator	l <sub>1</sub> Max. stroke	d <sub>1</sub>	d <sub>2</sub>	d <sub>3</sub> H7	h <sub>1</sub>	h <sub>2</sub>	l <sub>2</sub>		l <sub>3</sub>	l <sub>4</sub> max.	l <sub>5</sub>	m <sub>1</sub>	m <sub>2</sub>	m <sub>3</sub>		Parallel key DIN 6885-1
							Type A	Type B						Type A	Type B	
30	450	8	M 5	4	15	39	40	84	29	1096	14	22	22	-	66	A2x2x12
50	700	12	M 6	5	25	62	60	120	49	1682	21	36	36	48	108	A4x4x12

Specification

Guide profile / Carriage / End caps

Aluminum  
Anodized, natural color

Spindle

- Steel
- Stainless steel AISI 303
- with ball-bearing

ST  
NI

Strip clamping / Carriage cover / Carriage friction bearings

Plastic

Lead nut

Plastic, polyacetal (POM)

Screws

Stainless steel

RoHS

Technical Information

Page

Technical Instructions

2

Technical Information

Catalogue Page

Keyways DIN 6885-1

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Stainless Steel Characteristics

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Accessory

Page

Carriage Clamping Units GN 891.3

16

Profile linear actuators GN 8920 consist of a square guide profile with an internal 4-fold friction bearing that guides the carriages. The carriages are moved linearly and positioned by a spindle drive with ball bearing, which consists of a left-hand and a right-hand spindle section. The GN 891.3 carriage clamping unit, available as an accessory, can be used to fix the carriages in place if required. A continuous cover strip protects the interior from soiling. The two end caps support the spindle and close off the end faces of the profile linear actuators.

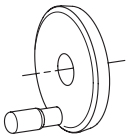


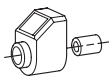
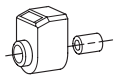
Profile linear actuators can be individually equipped with up to 4x2 fixing holes. Threaded holes can be selected for fixing from below and through-holes with a flat countersink for fixing from above. Depending on the design, either the component to be moved is attached to the carriage or the carriage itself is installed at the point of use, so that the entire linear actuator moves.

The overview shows a range of possible accessories that can be installed on the profile linear actuator in the various configurations. The design and length of the journal varies depending on the accessories, which must be taken into consideration when selecting the linear actuator. The accessories are not included with the linear actuators and must be ordered separately. For assistance, please refer to the type overview on page 10.

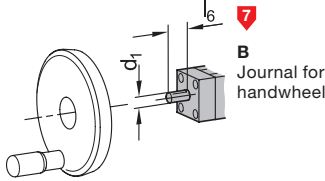
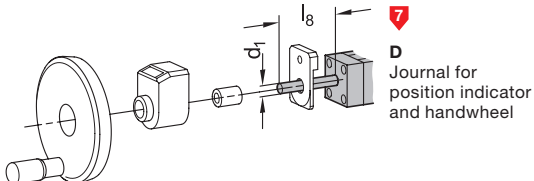
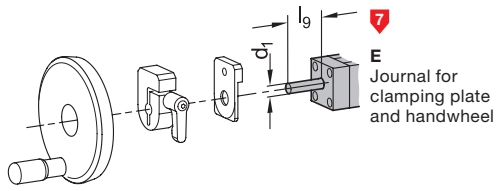
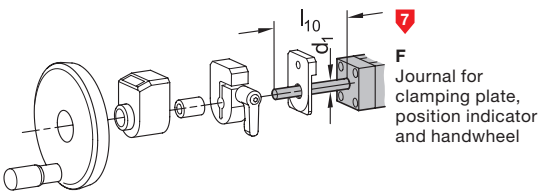
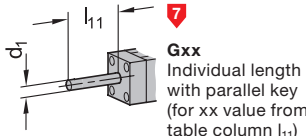
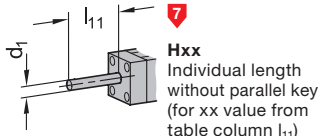
6

s	Spindle pitch	Journal diameter	Journal length					
	Metric	d <sub>1</sub>	l <sub>6</sub>	l <sub>7</sub>	l <sub>8</sub>	l <sub>9</sub>	l <sub>10</sub>	l <sub>11</sub>
30	1,5	8	16	39	55	34	70	16...70
50	2	12	18	49	67	40	82	18...82


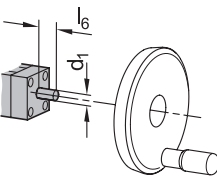
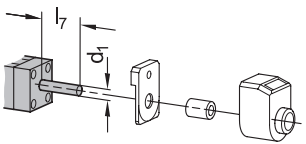
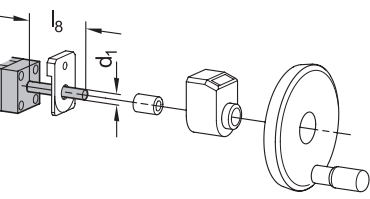
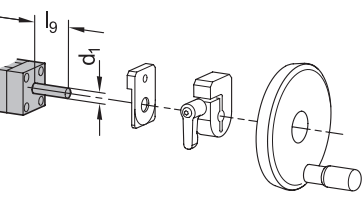
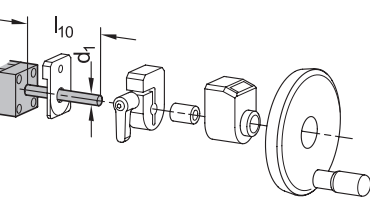
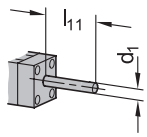
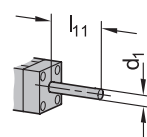
**Overview accessories**

Handwheels GN 9234 → Page 15	Clamping Plates GN 9734 → Page 16	Torque Supports GN 891.2 → Page 19	Position Indicators GN 9034 Electronic counter → Page 18	Position Indicators GN 9534 Mechanical counter → Page 17
				

**Version - Journal 1**

 <p><b>B</b> Journal for handwheel</p> <p>Journal length l<sub>6</sub></p>	 <p><b>D</b> Journal for position indicator and handwheel</p> <p>Journal length l<sub>8</sub></p>
 <p><b>E</b> Journal for clamping plate and handwheel</p> <p>Journal length l<sub>9</sub></p>	 <p><b>F</b> Journal for clamping plate, position indicator and handwheel</p> <p>Journal length l<sub>10</sub></p>
 <p><b>Gxx</b> Individual length with parallel key (for xx value from table column l<sub>11</sub>)</p> <p>Journal length l<sub>11</sub></p>	 <p><b>Hxx</b> Individual length without parallel key (for xx value from table column l<sub>11</sub>)</p> <p>Journal length l<sub>11</sub></p>

**Version - Journal 2**

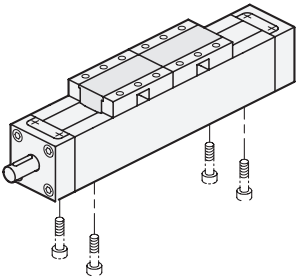
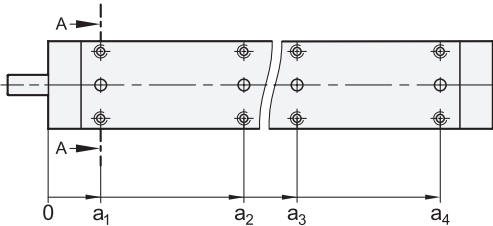
 <p><b>A</b> Without journal</p>	 <p><b>B</b> Journal for handwheel</p>
Cover cap	Journal length $l_6$
 <p><b>C</b> Journal for position indicator</p>	 <p><b>D</b> Journal for position indicator and handwheel</p>
Journal length $l_7$	Journal length $l_8$
 <p><b>E</b> Journal for clamping plate and handwheel</p>	 <p><b>F</b> Journal for clamping plate, position indicator and handwheel</p>
Journal length $l_9$	Journal length $l_{10}$
 <p><b>Gxx</b> Individual length with parallel key (for xx value from table column <math>l_{11}</math>)</p>	 <p><b>Hxx</b> Individual length without parallel key (for xx value from table column <math>l_{11}</math>)</p>
Journal length $l_{11}$	Journal length $l_{11}$

**Mounting Options**

9

W Without fixing holes

U From below (threaded hole)

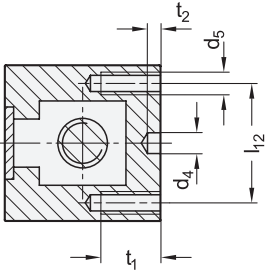



10

Mounting holes

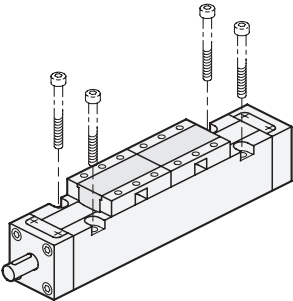
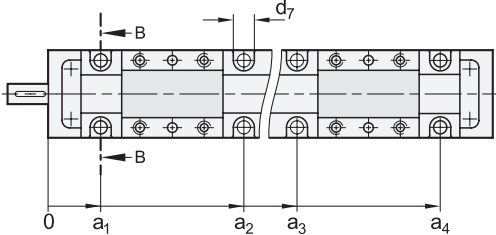
View A-A

(Fixing holes)



9

O From above (through-hole with flat countersinking)

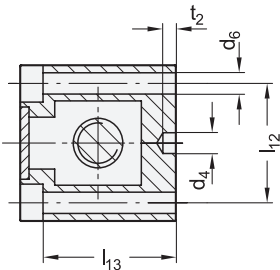



10

Mounting holes

View B-B

(Fixing holes)



s	d <sub>4</sub> H7	d <sub>5</sub>	d <sub>6</sub>	d <sub>7</sub>	l <sub>12</sub>	l <sub>13</sub>	t <sub>1</sub>	t <sub>2</sub>
30	3	M 3	3,4	6,5	24	26,6	10	3
50	5	M 5	5,5	10	40	44,6	12	5

How to order (Without fixing holes)

Standard section

Supplemental section

1

2

3

4

5

6

7

8

9

GN 8920-50-ST-600-B-LH-2-D-C-W

How to order (With fixing holes)

Standard section

Supplemental section

1

2

3

4

5

6

7

8

9







10

GN 8920-30-NI-420-A-RH-1,5-G40-F-O-75-370-520-780

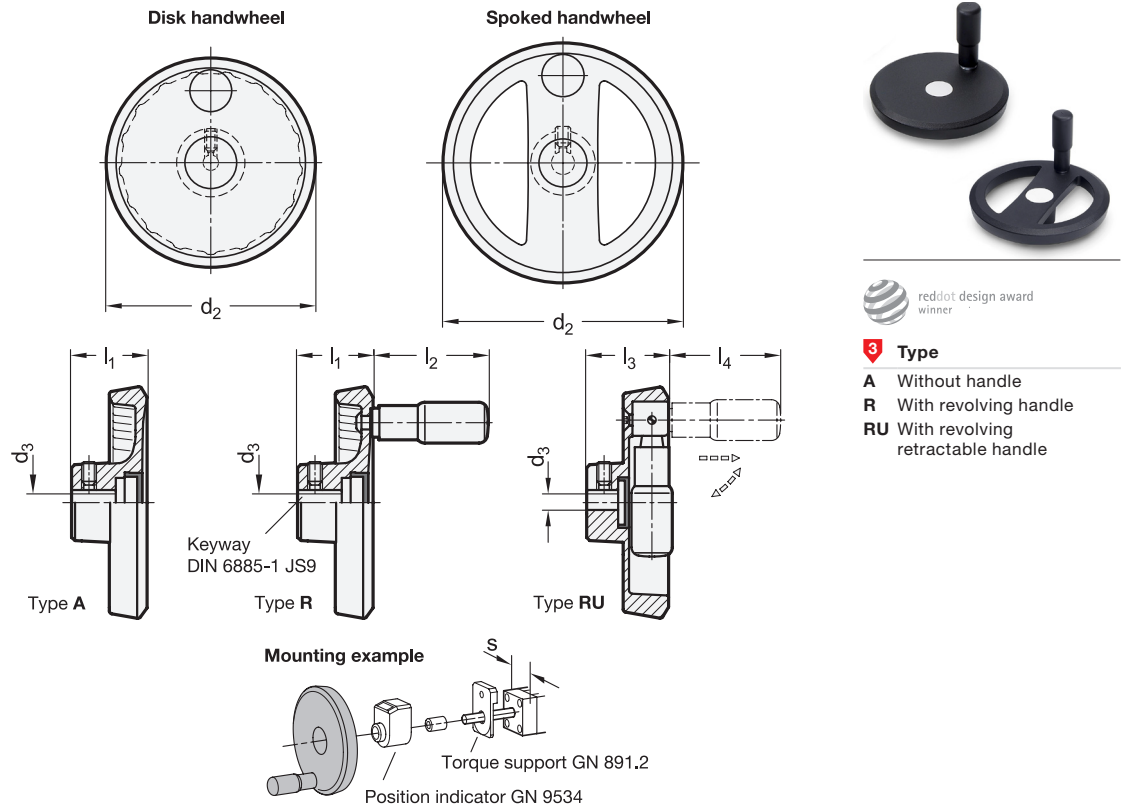
1	Square s	4	Type	7	Version journal 1	10	a <sub>1</sub> , a <sub>2</sub> ... (Fastening holes)
2	Material	5	Thread direction of spindle	8	Version journal 2		
3	Stroke l <sub>1</sub>	6	Spindle pitch	9	Mounting options		

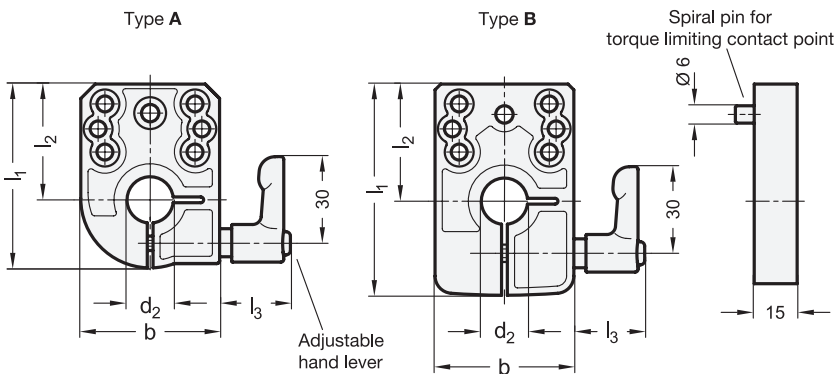
3.8 Adjusting, Moving with Guides, Spindles and Ball Rollers
13

The accessories include parts that supplement the linear actuators or improve their usability. For example, handwheels can be used for operating the linear actuators, position indicators for monitoring the position and clamping plates for locking the spindle in place. The torque supports provide protection against twisting when installing a position indicator and clamping plate. The matching accessories can be selected on the various standard sheets based on the square (Ø s) of the chosen linear actuator. The carriage clamping units can be used as an alternative to the clamping plate as a fixation directly on the carriage.

Code no.	Characteristics
<b>GN 9234</b> Page 15	 <p>Handwheels GN 9234 are used for manually operating linear actuators and are available with a variety of handle designs.</p>
<b>GN 9734</b> Page 16	 <p>Clamping plates GN 9734 are used to lock the threaded spindle to prevent unintended movement out of the current position.</p>
<b>GN 9534</b> Page 17	 <p>Position indicators GN 9534 indicate the current position of the linear actuator connector using a mechanical counter. The supplied adapter bushing serves as the connection between the stud of the linear actuator connector and the hollow shaft of the position indicator.</p>
<b>GN 9034</b> Page 18	 <p>Position indicators GN 9034 indicate the current position of the linear actuator connector using a display. The supplied adapter bushing serves as the connection between the stud of the linear actuator connector and the hollow shaft of the position indicator.</p>
<b>GN 891.2</b> Page 19	 <p>Torque supports GN 491.2 are needed for installing clamping plates and position indicators on linear actuators.</p>
<b>GN 891.3</b> Page 20	 <p>Carriage clamping units GN 891.3 secure carriages of configurable profile linear actuators after positioning has finished without the need for a tool. This prevents undesired movement, such as due to vibrations or accidental operation.</p>







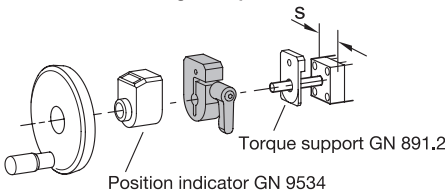
- 2

Type
- A

For mechanical position indicators or without position indicator
- B

For electronic position indicators

Mounting example



d <sub>1</sub> ∅ Linear actuator	b	d <sub>2</sub> F9	l <sub>1</sub>		l <sub>2</sub>		l <sub>3</sub>	Compatible with position indicator	
			Type A	Type B	Type A	Type B		Type A	Type B
30	33	8	47	55	30,5	30,5	24,5	GN 9534	GN 9034
50	48	12	66,5	73	43	40,5	24,5	GN 9534	GN 9034

Specification

Zinc die casting

- Powder coated
- Black, textured finish

Spiral pin ISO 8750

- Stainless steel

Adjustable hand lever GN 302.1

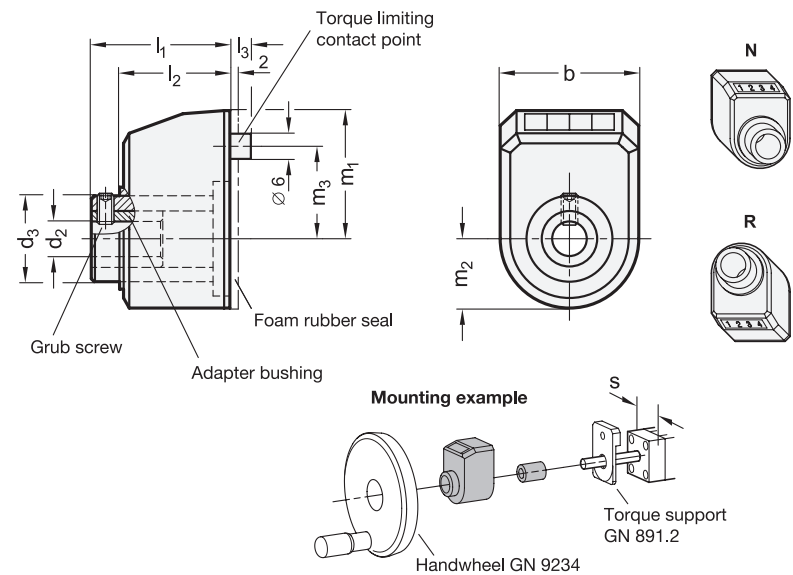
- Zinc die casting
- Powder coated
- Black, RAL 9005, textured finish
- Threaded insert
- Stainless steel AISI 303

RoHS

Clamping plates GN 9734 are used to fix the spindles of configurable linear actuators in place after adjustment. Using a hand lever, the bore diameter of the clamping plate is reduced until the spindle stem of the linear actuator is clamped, preventing unintentional adjustment of the approached position. The enclosed spiral pin connects the clamping plate to the torque support, preventing it from twisting. If no position indicator is mounted to the linear actuator, as shown in the example, type A is recommended.

Technical Information	Catalogue Page
ISO Fundamental Tolerances	2151
Stainless Steel Characteristics	2166

How to order	1 s
GN9734- 50 -A	2 Type



**elesa**  
Original design DD51 / DD52R



**3 Type**

- R** Digits ascending clockwise  
**L** Digits ascending anti-clockwise

**5 Installation (Front view)**

- N** On the chamfer, above  
**R** On the chamfer, below

1		2													
s Linear actuator	p Spindle pitch Linear actuator	Counter	Indication after one spindle revolution	b	d <sub>2</sub> H7	d <sub>3</sub>	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	m <sub>1</sub>	m <sub>2</sub>	m <sub>3</sub>	Grub screw	Max. rpm	
30	1,5	001.5	0015	33	8	20	33	26	5,5	30,5	16,5	22	M 4	1500	
30	3	003.0	0030	33	8	20	33	26	5,5	30,5	16,5	22	M 4	1500	
50	2	0002.0	00020	48	12	29	37	30	6	43,5	23	30	M 5	625	
50	4	0004.0	00040	48	12	29	37	30	6	43,5	23	30	M 5	625	

**Specification**

**Hollow shaft / Adapter bushing**

- Steel, blackened
- Stainless steel AISI 304
- Sealed with an O-ring

**S**  
**N**

**Housing**

- Plastic, polyamide PA
- Orange, RAL 2004
- Gray, RAL 7035
- Operating temperature 0 °C to +80 °C
- Oil and solvent resistant

**O**  
**G**

**Sight glass**

Plastic, polyamide (PA-T), transparent

**Counter**

- Digits white
- Pre-decimal positions highlighted black
- Decimal positions highlighted red with additional scale

**Grub screw DIN 916**

- Steel, blackened for S
- Stainless steel for N

RoHS

Position indicators GN 9534 are designed for attachment to configurable profil linear actuators. They are mounted to the spindle stud of the linear actuator using an adapter bushing and a grub screw. The directly driven counter with digital position display must be matched to the pitch of the threaded spindle.

The housing is welded by ultrasound, making it particularly sturdy, tight and compact. The foam rubber seal prevents the transmission of vibration to the counter and acts as a seal.

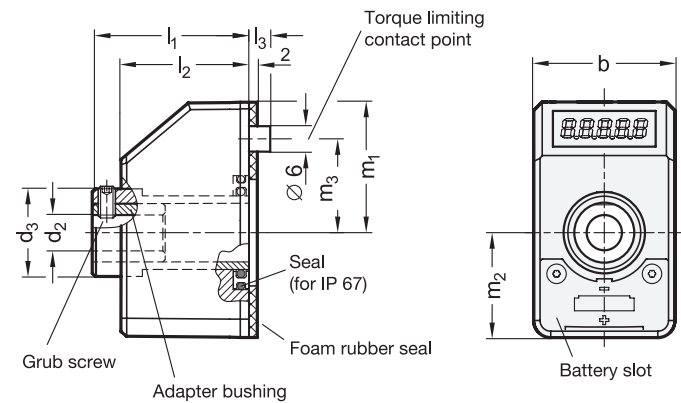
**Technical Information**

	Catalogue Page
ISO Fundamental Tolerances	2151
Plastic Characteristics	2156
Stainless Steel Characteristics	2166

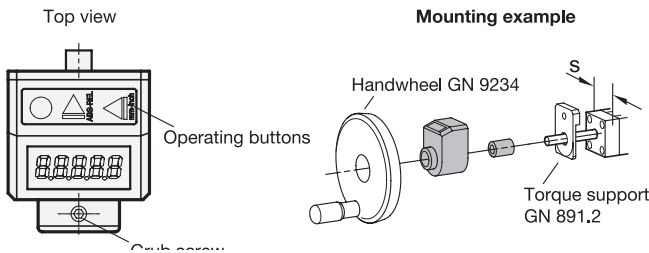
**How to order**

<b>1</b>	s
<b>2</b>	p
<b>3</b>	Type
<b>4</b>	Material
<b>5</b>	Installation (Front view)
<b>6</b>	Color

**GN9534-50-4-R-S-N-O**



- 2 Identification no.**
- 1 Protection class IP 65
  - 2 Protection class IP 67



d <sub>1</sub> Ø Linear actuator	b	d <sub>2</sub> H7	d <sub>3</sub>	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	m <sub>1</sub>	m <sub>2</sub>	m <sub>3</sub>	Grub screw	LCD display Number of positions	Max. rpm
30	33,5	8	19,5	34	28,5	5,5	30,5	25	22	M 4	5	1000
50	48	12	28,5	41	34	6	40	32,5	30	M 5	6	1000

Specification

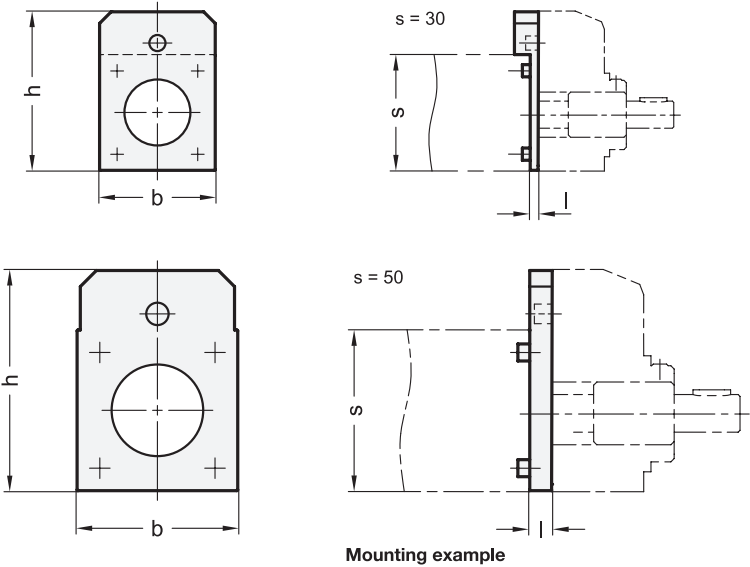
- Housing**  
Plastic, polyamide (PA)  
• Orange, RAL 2004  
• Gray, RAL 7035, shiny finish  
• Operating temperature 0° to 50 °C  
• Oil and solvent resistant
- LCD display**  
5 digits / 6 digits and special characters
- Hollow shaft / Adapter bushing**  
Stainless steel AISI 304
- O-ring for identification no. 2**  
Acrylonitrile butadiene rubber (NBR)
- RoHS

Electronic position indicators GN 9034 are designed for attachment to configurable linear units. They are mounted to the spindle stem of the linear actuator using an adapter bushing and a grub screw. The position indicators must be adjusted for the thread pitch and direction of the linear actuators. Power is supplied by a long-life battery.

The housing is welded by ultrasound, making it particularly sturdy, tight and compact. The foam rubber seal prevents the transmission of vibrations and acts as a seal.

Technical Information	Page
ISO Fundamental Tolerances	2151
IP Protection Classes	2153
Plastic Characteristics	2158
Stainless Steel Characteristics	2166

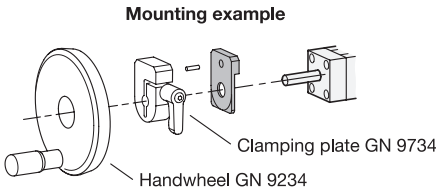
How to order	1 d <sub>1</sub>
GN 9034-50-2-GR	2 Identification no.
	3 Color



2

Type

A Fastening to the end cap



1

s	b	h	Length l
Linear actuator			
30	33	47	3
50	50	68,5	7

Specification

3

Plastic, polyamide (PA 12)

Black, RAL 9005, matte finish

RoHS

● SW

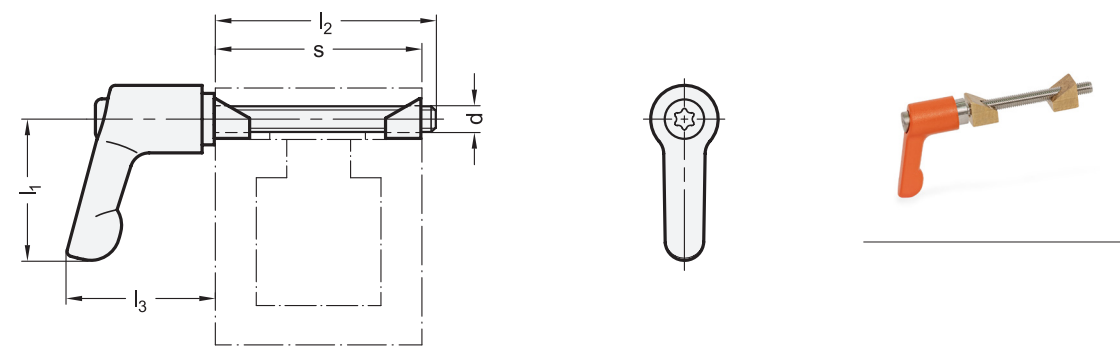
Torque supports GN 891.2 are required for mounting a position indicator or a clamping plate to configurable profile linear actuators. The torque supports are made of plastic and are mounted to the end caps of the profile linear actuators. They feature a bore on the face side, which prevents position indicators or clamping plates from rotating.

How to order

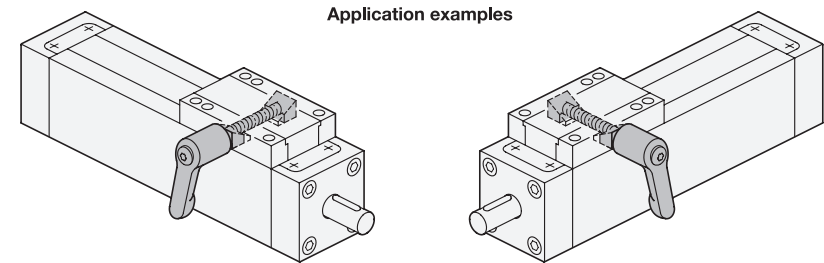
1 2 3

GN891.2-30-A-SW

1	s
2	Type
3	Color



Application examples



<b>1</b> <b>s</b> Ø Linear actuators	<b>2</b> <b>l<sub>1</sub></b>	<b>d</b>	<b>l<sub>2</sub></b>	<b>l<sub>3</sub></b>
30	22	M 4	32	23
50	30	M 5	50	31

Specification

Adjustable hand lever

- Handle
  - Zinc die casting
  - Powder coated
  - Orange, RAL 2004, textured finish
- Insert / Retaining screw
  - Stainless steel AISI 303

OS

Clamping wedges

Brass

RoHS

Carriage clamping units GN 891.3 secure carriages of configurable profile linear actuators after positioning has finished without the need for a tool. This prevents undesired movement, such as due to vibrations or accidental operation.

The thread of the adjustable hand lever tensions the wedge mechanism. This produces friction between the clamping wedges and the carriage guideway, efficiently securing the carriage position with zero backlash.

How to order	<b>1</b> <b>s</b>
<b>GN 891.3-50-30-OS</b>	<b>2</b> <b>l<sub>1</sub></b>
	<b>3</b> <b>Color</b>



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