

## Linear guide rail systems

Steel / Stainless Steel, with Inside Traversal Distance

### SPECIFICATION

#### Types

- Type **A3**: with one cam roller carriage with 3 rollers
- Type **A5**: with one cam roller carriage with 5 rollers
- Type **B3**: with two cam roller carriages with 3 rollers
- Type **B5**: with two cam roller carriages with 5 rollers

Identification no.

- No. **0**: without end stop
- No. **1**: with one end stop
- No. **2**: with two end stops

Guide rail

- Steel **ZB**  
Zinc plated, blue passivated
- Stainless steel AISI 430 **NI**  
Plain

Cam roller carriage

- Base body  
Stainless steel AISI 304
- Roller  
Ball-bearing, 2RS  
Stainless steel AISI 440C
- Roller bearing grease  
FDA compliant, class H1  
Permanent lubrication

End stop

- Stainless steel AISI 304
- Rubber stop (TPU), hardness  $\approx$  80 Shore A

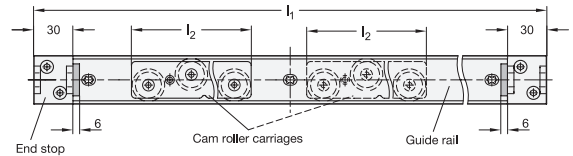
Operating temperature  $-20\text{ }^{\circ}\text{C}$  to  $100\text{ }^{\circ}\text{C}$

### INFORMATION

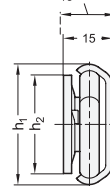
Linear guide rail systems GN 1490 are generally installed in pairs, with a horizontal alignment, either vertically (as shown) or perpendicularly. They are used where simple, linear movements must be executed, such as in automation or in vehicle or machine engineering. Optimal travel properties combined with low maintenance requirements can be achieved in connection with cam roller carriages matched to the guide rails without any play. The system is ready for use immediately after insertion of the cam roller carriages. The linear guide rail systems consist of a guide rail, one or two cam roller carriages and the selected number of end stops. The parts are delivered unassembled. The guide rail can be installed on either the left or right side of the application. During installation of the cam roller carriages, the direction in which the load is received (marking notch) must be taken into account. The lubrication and maintenance instructions must be followed.

### ON REQUEST

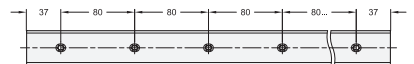
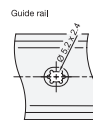
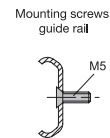
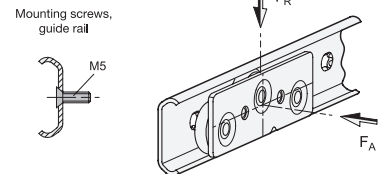
- Other guide rail length (up to 3,994 mm)
- Other hole spacing / finish



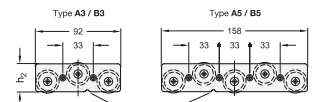
Installation space  
 $15^{+0.2} \pm 0.5$



Load capacity per cam roller carriage

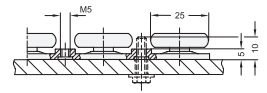
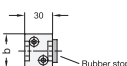


Cam roller carriage



Marking notch for load receiving side


End stop




\* Complete with material of the Linear guide rail systems (ZB or NI)

**ZB** Steel  
**NI** Stainless Steel

## GN 1490

Description	h1	l1 ±1	b	h2	l2 cam roller carriage in N	F <sub>r</sub> per cam roller carriage in N	F <sub>A</sub> per cam roller carriage in N	
GN 1490-29-394-A3-0-*	29	394	29	23	92	425	175	287
GN 1490-29-394-A5-0-*	29	394	29	23	158	650	350	337
GN 1490-29-394-B3-0-*	29	394	29	23	92	425	175	377
GN 1490-29-394-B5-0-*	29	394	29	23	158	650	350	477
GN 1490-29-394-A3-1-*	29	394	29	23	92	425	175	317
GN 1490-29-394-A5-1-*	29	394	29	23	158	650	350	367
GN 1490-29-394-B3-1-*	29	394	29	23	92	425	175	407
GN 1490-29-394-B5-1-*	29	394	29	23	158	650	350	507
GN 1490-29-394-A3-2-*	29	394	29	23	92	425	175	347
GN 1490-29-394-A5-2-*	29	394	29	23	158	650	350	397
GN 1490-29-394-B3-2-*	29	394	29	23	92	425	175	437
GN 1490-29-394-B5-2-*	29	394	29	23	158	650	350	537
GN 1490-29-474-A3-0-*	29	474	29	23	92	425	175	327
GN 1490-29-474-A5-0-*	29	474	29	23	158	650	350	377
GN 1490-29-474-B3-0-*	29	474	29	23	92	425	175	417
GN 1490-29-474-B5-0-*	29	474	29	23	158	650	350	517
GN 1490-29-474-A3-1-*	29	474	29	23	92	425	175	357
GN 1490-29-474-A5-1-*	29	474	29	23	158	650	350	407
GN 1490-29-474-B3-1-*	29	474	29	23	92	425	175	447
GN 1490-29-474-B5-1-*	29	474	29	23	158	650	350	547
GN 1490-29-474-A3-2-*	29	474	29	23	92	425	175	387
GN 1490-29-474-A5-2-*	29	474	29	23	158	650	350	422
GN 1490-29-474-B3-2-*	29	474	29	23	92	425	175	457
GN 1490-29-474-B5-2-*	29	474	29	23	158	650	350	577
GN 1490-29-554-A3-0-*	29	554	29	23	92	425	175	367
GN 1490-29-554-A5-0-*	29	554	29	23	158	650	350	417
GN 1490-29-554-B3-0-*	29	554	29	23	92	425	175	457
GN 1490-29-554-B5-0-*	29	554	29	23	158	650	350	557
GN 1490-29-554-A3-1-*	29	554	29	23	92	425	175	397
GN 1490-29-554-A5-1-*	29	554	29	23	158	650	350	447
GN 1490-29-554-B3-1-*	29	554	29	23	92	425	175	487
GN 1490-29-554-B5-1-*	29	554	29	23	158	650	350	587
GN 1490-29-554-A3-2-*	29	554	29	23	92	425	175	427
GN 1490-29-554-A5-2-*	29	554	29	23	158	650	350	477
GN 1490-29-554-B3-2-*	29	554	29	23	92	425	175	517
GN 1490-29-554-B5-2-*	29	554	29	23	158	650	350	617
GN 1490-29-634-A3-0-*	29	634	29	23	92	425	175	407
GN 1490-29-634-A5-0-*	29	634	29	23	158	650	350	457
GN 1490-29-634-B3-0-*	29	634	29	23	92	425	175	497
GN 1490-29-634-B5-0-*	29	634	29	23	158	650	350	597
GN 1490-29-634-A3-1-*	29	634	29	23	92	425	175	437
GN 1490-29-634-A5-1-*	29	634	29	23	158	650	350	487
GN 1490-29-634-B3-1-*	29	634	29	23	92	425	175	527
GN 1490-29-634-B5-1-*	29	634	29	23	158	650	350	627
GN 1490-29-634-A3-2-*	29	634	29	23	92	425	175	467
GN 1490-29-634-A5-2-*	29	634	29	23	158	650	350	517
GN 1490-29-634-B3-2-*	29	634	29	23	92	425	175	557
GN 1490-29-634-B5-2-*	29	634	29	23	158	650	350	657
GN 1490-29-714-A3-0-*	29	714	29	23	92	425	175	447
GN 1490-29-714-A5-0-*	29	714	29	23	158	650	350	497
GN 1490-29-714-B3-0-*	29	714	29	23	92	425	175	537
GN 1490-29-714-B5-0-*	29	714	29	23	158	650	350	637
GN 1490-29-714-A3-1-*	29	714	29	23	92	425	175	477
GN 1490-29-714-A5-1-*	29	714	29	23	158	650	350	527
GN 1490-29-714-B3-1-*	29	714	29	23	92	425	175	567
GN 1490-29-714-B5-1-*	29	714	29	23	158	650	350	667
GN 1490-29-714-A3-2-*	29	714	29	23	92	425	175	507
GN 1490-29-714-A5-2-*	29	714	29	23	158	650	350	557

Description	h1	l1 ±1	b	h2	l2 cam roller carriage	F <sub>r</sub> per cam roller carriage in N	F <sub>A</sub> per cam roller carriage in N	
GN 1490-29-714-B3-2-*	29	714	29	23	92	425	175	597
GN 1490-29-714-B5-2-*	29	714	29	23	158	650	350	697
GN 1490-29-794-A3-0-*	29	794	29	23	92	425	175	487
GN 1490-29-794-A5-0-*	29	794	29	23	158	650	350	537
GN 1490-29-794-B3-0-*	29	794	29	23	92	425	175	577
GN 1490-29-794-B5-0-*	29	794	29	23	158	650	350	677
GN 1490-29-794-A3-1-*	29	794	29	23	92	425	175	517
GN 1490-29-794-A5-1-*	29	794	29	23	158	650	350	567
GN 1490-29-794-B3-1-*	29	794	29	23	92	425	175	607
GN 1490-29-794-B5-1-*	29	794	29	23	158	650	350	707
GN 1490-29-794-A3-2-*	29	794	29	23	92	425	175	547
GN 1490-29-794-A5-2-*	29	794	29	23	158	650	350	597
GN 1490-29-794-B3-2-*	29	794	29	23	92	425	175	637
GN 1490-29-794-B5-2-*	29	794	29	23	158	650	350	737
GN 1490-29-874-A3-0-*	29	874	29	23	92	425	175	527
GN 1490-29-874-A5-0-*	29	874	29	23	158	650	350	577
GN 1490-29-874-B3-0-*	29	874	29	23	92	425	175	617
GN 1490-29-874-B5-0-*	29	874	29	23	158	650	350	717
GN 1490-29-874-A3-1-*	29	874	29	23	92	425	175	557
GN 1490-29-874-A5-1-*	29	874	29	23	158	650	350	607
GN 1490-29-874-B3-1-*	29	874	29	23	92	425	175	647
GN 1490-29-874-B5-1-*	29	874	29	23	158	650	350	747
GN 1490-29-874-A3-2-*	29	874	29	23	92	425	175	587
GN 1490-29-874-A5-2-*	29	874	29	23	158	650	350	637
GN 1490-29-874-B3-2-*	29	874	29	23	92	425	175	677
GN 1490-29-874-B5-2-*	29	874	29	23	158	650	350	777
GN 1490-29-954-A3-0-*	29	954	29	23	92	425	175	567
GN 1490-29-954-A5-0-*	29	954	29	23	158	650	350	617
GN 1490-29-954-B3-0-*	29	954	29	23	92	425	175	657
GN 1490-29-954-B5-0-*	29	954	29	23	158	650	350	757
GN 1490-29-954-A3-1-*	29	954	29	23	92	425	175	597
GN 1490-29-954-A5-1-*	29	954	29	23	158	650	350	647
GN 1490-29-954-B3-1-*	29	954	29	23	92	425	175	687
GN 1490-29-954-B5-1-*	29	954	29	23	158	650	350	787
GN 1490-29-954-A3-2-*	29	954	29	23	92	425	175	627
GN 1490-29-954-A5-2-*	29	954	29	23	158	650	350	677
GN 1490-29-954-B3-2-*	29	954	29	23	92	425	175	717
GN 1490-29-954-B5-2-*	29	954	29	23	158	650	350	817
GN 1490-29-1034-A3-0-*	29	1034	29	23	92	425	175	607
GN 1490-29-1034-A5-0-*	29	1034	29	23	158	650	350	657
GN 1490-29-1034-B3-0-*	29	1034	29	23	92	425	175	697
GN 1490-29-1034-B5-0-*	29	1034	29	23	158	650	350	797
GN 1490-29-1034-A3-1-*	29	1034	29	23	92	425	175	637
GN 1490-29-1034-A5-1-*	29	1034	29	23	158	650	350	687
GN 1490-29-1034-B3-1-*	29	1034	29	23	92	425	175	727
GN 1490-29-1034-B5-1-*	29	1034	29	23	158	650	350	827
GN 1490-29-1034-A3-2-*	29	1034	29	23	92	425	175	667
GN 1490-29-1034-A5-2-*	29	1034	29	23	158	650	350	717
GN 1490-29-1034-B3-2-*	29	1034	29	23	92	425	175	757
GN 1490-29-1034-B5-2-*	29	1034	29	23	158	650	350	857
GN 1490-29-1194-A3-0-*	29	1194	29	23	92	425	175	687
GN 1490-29-1194-A5-0-*	29	1194	29	23	158	650	350	737
GN 1490-29-1194-B3-0-*	29	1194	29	23	92	425	175	777
GN 1490-29-1194-B5-0-*	29	1194	29	23	158	650	350	877
GN 1490-29-1194-A3-1-*	29	1194	29	23	92	425	175	717
GN 1490-29-1194-A5-1-*	29	1194	29	23	158	650	350	767
GN 1490-29-1194-B3-1-*	29	1194	29	23	92	425	175	807
GN 1490-29-1194-B5-1-*	29	1194	29	23	158	650	350	907
GN 1490-29-1194-A3-2-*	29	1194	29	23	92	425	175	747
GN 1490-29-1194-A5-2-*	29	1194	29	23	158	650	350	797
GN 1490-29-1194-B3-2-*	29	1194	29	23	92	425	175	837
GN 1490-29-1194-B5-2-*	29	1194	29	23	158	650	350	937
GN 1490-29-1434-A3-0-*	29	1434	29	23	92	425	175	807

Weight ZB

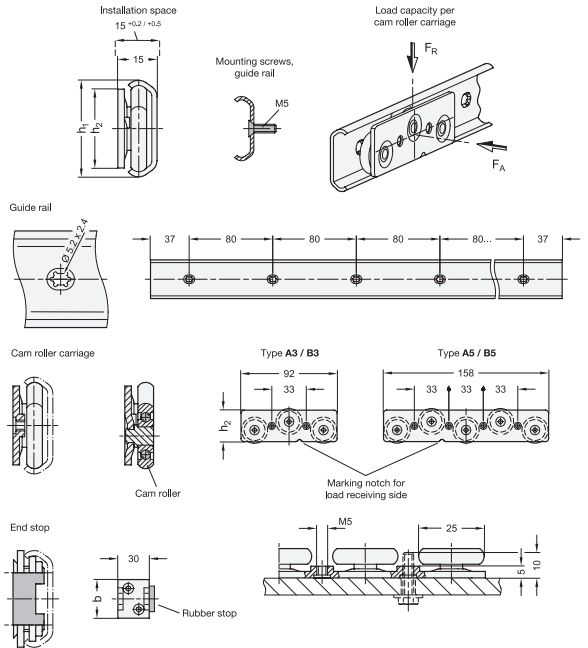
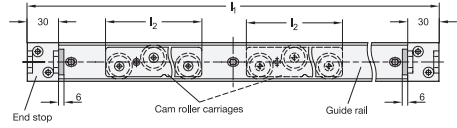


Linear Motion Components 20

\* Complete with material of the Linear guide rail systems (ZB or NI)

ZB Steel  
NI Stainless Steel

Description	h1	l1 ±1	b	h2	l2 cam roller carriage	Ft per cam roller carriage in N	Ft per cam roller carriage in N	Ft per cam roller carriage in N	⚖️
GN 1490-29-1434-A5-0-*	29	1434	29	23	158	650	350	857	
GN 1490-29-1434-B3-0-*	29	1434	29	23	92	425	175	897	
GN 1490-29-1434-B5-0-*	29	1434	29	23	158	650	350	997	
GN 1490-29-1434-A3-1-*	29	1434	29	23	92	425	175	837	
GN 1490-29-1434-A5-1-*	29	1434	29	23	158	650	350	887	
GN 1490-29-1434-B3-1-*	29	1434	29	23	92	425	175	927	
GN 1490-29-1434-B5-1-*	29	1434	29	23	158	650	350	1027	
GN 1490-29-1434-A3-2-*	29	1434	29	23	92	425	175	867	
GN 1490-29-1434-A5-2-*	29	1434	29	23	158	650	350	917	
GN 1490-29-1434-B3-2-*	29	1434	29	23	92	425	175	957	
GN 1490-29-1434-B5-2-*	29	1434	29	23	158	650	350	1057	
GN 1490-37-394-A3-0-*	37	394	37	30	92	425	175	409	
GN 1490-37-394-A5-0-*	37	394	37	30	158	650	350	479	
GN 1490-37-394-B3-0-*	37	394	37	30	92	425	175	519	
GN 1490-37-394-B5-0-*	37	394	37	30	158	650	350	659	
GN 1490-37-394-A3-1-*	37	394	37	30	92	425	175	449	
GN 1490-37-394-A5-1-*	37	394	37	30	158	650	350	519	
GN 1490-37-394-B3-1-*	37	394	37	30	92	425	175	559	
GN 1490-37-394-B5-1-*	37	394	37	30	158	650	350	699	
GN 1490-37-394-A3-2-*	37	394	37	30	92	425	175	489	
GN 1490-37-394-A5-2-*	37	394	37	30	158	650	350	559	
GN 1490-37-394-B3-2-*	37	394	37	30	92	425	175	599	
GN 1490-37-394-B5-2-*	37	394	37	30	158	650	350	739	
GN 1490-37-474-A3-0-*	37	474	37	30	92	425	175	470	
GN 1490-37-474-A5-0-*	37	474	37	30	158	650	350	540	
GN 1490-37-474-B3-0-*	37	474	37	30	92	425	175	580	
GN 1490-37-474-B5-0-*	37	474	37	30	158	650	350	720	
GN 1490-37-474-A3-1-*	37	474	37	30	92	425	175	510	
GN 1490-37-474-A5-1-*	37	474	37	30	158	650	350	580	
GN 1490-37-474-B3-1-*	37	474	37	30	92	425	175	620	
GN 1490-37-474-B5-1-*	37	474	37	30	158	650	350	760	
GN 1490-37-474-A3-2-*	37	474	37	30	92	425	175	550	
GN 1490-37-474-A5-2-*	37	474	37	30	158	650	350	620	
GN 1490-37-474-B3-2-*	37	474	37	30	92	425	175	660	
GN 1490-37-474-B5-2-*	37	474	37	30	158	650	350	800	
GN 1490-37-554-A3-0-*	37	554	37	30	92	425	175	531	
GN 1490-37-554-A5-0-*	37	554	37	30	158	650	350	601	
GN 1490-37-554-B3-0-*	37	554	37	30	92	425	175	641	
GN 1490-37-554-B5-0-*	37	554	37	30	158	650	350	781	
GN 1490-37-554-A3-1-*	37	554	37	30	92	425	175	571	
GN 1490-37-554-A5-1-*	37	554	37	30	158	650	350	641	
GN 1490-37-554-B3-1-*	37	554	37	30	92	425	175	681	
GN 1490-37-554-B5-1-*	37	554	37	30	158	650	350	821	
GN 1490-37-554-A3-2-*	37	554	37	30	92	425	175	611	
GN 1490-37-554-A5-2-*	37	554	37	30	158	650	350	681	
GN 1490-37-554-B3-2-*	37	554	37	30	92	425	175	721	
GN 1490-37-554-B5-2-*	37	554	37	30	158	650	350	861	
GN 1490-37-634-A3-0-*	37	634	37	30	92	425	175	591	
GN 1490-37-634-A5-0-*	37	634	37	30	158	650	350	661	
GN 1490-37-634-B3-0-*	37	634	37	30	92	425	175	701	
GN 1490-37-634-B5-0-*	37	634	37	30	158	650	350	841	
GN 1490-37-634-A3-1-*	37	634	37	30	92	425	175	631	
GN 1490-37-634-A5-1-*	37	634	37	30	158	650	350	701	
GN 1490-37-634-B3-1-*	37	634	37	30	92	425	175	741	
GN 1490-37-634-B5-1-*	37	634	37	30	158	650	350	881	
GN 1490-37-634-A3-2-*	37	634	37	30	92	425	175	671	
GN 1490-37-634-A5-2-*	37	634	37	30	158	650	350	741	
GN 1490-37-634-B3-2-*	37	634	37	30	92	425	175	781	
GN 1490-37-634-B5-2-*	37	634	37	30	158	650	350	921	



Description	h1	l1 ±1	b	h2	l2 cam roller carriage	Ft per cam roller carriage in N	Ft per cam roller carriage in N	⚖️
GN 1490-37-714-A3-0-*	37	714	37	30	92	425	175	652
GN 1490-37-714-A5-0-*	37	714	37	30	158	650	350	722
GN 1490-37-714-B3-0-*	37	714	37	30	92	425	175	762
GN 1490-37-714-B5-0-*	37	714	37	30	158	650	350	902
GN 1490-37-714-A3-1-*	37	714	37	30	92	425	175	692
GN 1490-37-714-A5-1-*	37	714	37	30	158	650	350	762
GN 1490-37-714-B3-1-*	37	714	37	30	92	425	175	802
GN 1490-37-714-B5-1-*	37	714	37	30	158	650	350	942
GN 1490-37-714-A3-2-*	37	714	37	30	92	425	175	732
GN 1490-37-714-A5-2-*	37	714	37	30	158	650	350	802
GN 1490-37-714-B3-2-*	37	714	37	30	92	425	175	842
GN 1490-37-714-B5-2-*	37	714	37	30	158	650	350	982
GN 1490-37-794-A3-0-*	37	794	37	30	92	425	175	713
GN 1490-37-794-A5-0-*	37	794	37	30	158	650	350	783
GN 1490-37-794-B3-0-*	37	794	37	30	92	425	175	823
GN 1490-37-794-B5-0-*	37	794	37	30	158	650	350	963
GN 1490-37-794-A3-1-*	37	794	37	30	92	425	175	753
GN 1490-37-794-A5-1-*	37	794	37	30	158	650	350	823
GN 1490-37-794-B3-1-*	37	794	37	30	92	425	175	863
GN 1490-37-794-B5-1-*	37	794	37	30	158	650	350	1003
GN 1490-37-794-A3-2-*	37	794	37	30	92	425	175	793
GN 1490-37-794-A5-2-*	37	794	37	30	158	650	350	863
GN 1490-37-794-B3-2-*	37	794	37	30	92	425	175	903
GN 1490-37-794-B5-2-*	37	794	37	30	158	650	350	1043
GN 1490-37-634-A5-2-*	37	634	37	30	158	650	350	741
GN 1490-37-634-B3-2-*	37	634	37	30	92	425	175	781
GN 1490-37-634-B5-2-*	37	634	37	30	158	650	350	921

Weight ZB

\* Complete with material of the Linear guide rail systems (ZB or NI)

**ZB** Steel  
**NI** Stainless Steel

Description	h1	l1 ±1	b	h2	l2 cam roller carriage	F <sub>r</sub> per cam roller carriage in N	F <sub>a</sub> per cam roller carriage in N	⚖️
GN 1490-37-874-B5-0-*	37	874	37	30	158	650	350	1024
GN 1490-37-874-A3-1-*	37	874	37	30	92	425	175	814
GN 1490-37-874-A5-1-*	37	874	37	30	158	650	350	884
GN 1490-37-874-B3-1-*	37	874	37	30	92	425	175	924
GN 1490-37-874-B5-1-*	37	874	37	30	158	650	350	1064
GN 1490-37-874-A3-2-*	37	874	37	30	92	425	175	854
GN 1490-37-874-A5-2-*	37	874	37	30	158	650	350	924
GN 1490-37-874-B3-2-*	37	874	37	30	92	425	175	964
GN 1490-37-874-B5-2-*	37	874	37	30	158	650	350	1104
GN 1490-37-954-A3-0-*	37	954	37	30	92	425	175	835
GN 1490-37-954-A5-0-*	37	954	37	30	158	650	350	905
GN 1490-37-954-B3-0-*	37	954	37	30	92	425	175	945
GN 1490-37-954-B5-0-*	37	954	37	30	158	650	350	1085
GN 1490-37-954-A3-1-*	37	954	37	30	92	425	175	875
GN 1490-37-954-A5-1-*	37	954	37	30	158	650	350	945
GN 1490-37-954-B3-1-*	37	954	37	30	92	425	175	985
GN 1490-37-954-B5-1-*	37	954	37	30	158	650	350	1125
GN 1490-37-954-A3-2-*	37	954	37	30	92	425	175	915
GN 1490-37-954-A5-2-*	37	954	37	30	158	650	350	985
GN 1490-37-954-B3-2-*	37	954	37	30	92	425	175	1025
GN 1490-37-954-B5-2-*	37	954	37	30	158	650	350	1165
GN 1490-37-1034-A3-0-*	37	1034	37	30	92	425	175	895
GN 1490-37-1034-A5-0-*	37	1034	37	30	158	650	350	965
GN 1490-37-1034-B3-0-*	37	1034	37	30	92	425	175	1005
GN 1490-37-1034-B5-0-*	37	1034	37	30	158	650	350	1145
GN 1490-37-1034-A3-1-*	37	1034	37	30	92	425	175	935
GN 1490-37-1034-A5-1-*	37	1034	37	30	158	650	350	1005
GN 1490-37-1034-B3-1-*	37	1034	37	30	92	425	175	1045
GN 1490-37-1034-B5-1-*	37	1034	37	30	158	650	350	1185
GN 1490-37-1034-A3-2-*	37	1034	37	30	92	425	175	975
GN 1490-37-1034-A5-2-*	37	1034	37	30	158	650	350	1045
GN 1490-37-1034-B3-2-*	37	1034	37	30	92	425	175	1085
GN 1490-37-1034-B5-2-*	37	1034	37	30	158	650	350	1225
GN 1490-37-1194-A3-0-*	37	1194	37	30	92	425	175	1017
GN 1490-37-1194-A5-0-*	37	1194	37	30	158	650	350	1087
GN 1490-37-1194-B3-0-*	37	1194	37	30	92	425	175	1127
GN 1490-37-1194-B5-0-*	37	1194	37	30	158	650	350	1267
GN 1490-37-1194-A3-1-*	37	1194	37	30	92	425	175	1057
GN 1490-37-1194-A5-1-*	37	1194	37	30	158	650	350	1127
GN 1490-37-1194-B3-1-*	37	1194	37	30	92	425	175	1167
GN 1490-37-1194-B5-1-*	37	1194	37	30	158	650	350	1307
GN 1490-37-1194-A3-2-*	37	1194	37	30	92	425	175	1097
GN 1490-37-1194-A5-2-*	37	1194	37	30	158	650	350	1167
GN 1490-37-1194-B3-2-*	37	1194	37	30	92	425	175	1207
GN 1490-37-1194-B5-2-*	37	1194	37	30	158	650	350	1347
GN 1490-37-1434-A3-0-*	37	1434	37	30	92	425	175	1200
GN 1490-37-1434-A5-0-*	37	1434	37	30	158	650	350	1270
GN 1490-37-1434-B3-0-*	37	1434	37	30	92	425	175	1310
GN 1490-37-1434-B5-0-*	37	1434	37	30	158	650	350	1450
GN 1490-37-1434-A3-1-*	37	1434	37	30	92	425	175	1240
GN 1490-37-1434-A5-1-*	37	1434	37	30	158	650	350	1310
GN 1490-37-1434-B3-1-*	37	1434	37	30	92	425	175	1350
GN 1490-37-1434-B5-1-*	37	1434	37	30	158	650	350	1490
GN 1490-37-1434-A3-2-*	37	1434	37	30	92	425	175	1280
GN 1490-37-1434-A5-2-*	37	1434	37	30	158	650	350	1350
GN 1490-37-1434-B3-2-*	37	1434	37	30	92	425	175	1390
GN 1490-37-1434-B5-2-*	37	1434	37	30	158	650	350	1530

Weight ZB

### MOUNTING HOLES, FASTENING SCREWS

During assembly, all mounting slots in the guide rail and the fastening thread on the cam roller carriage must be used. This ensures that the forces resulting from the maximum load FL / FA are reliably transferred to the surrounding structure. Failure to use fastening screws reduces the load capacity accordingly. Other production-related holes in the guide rails are not shown. Various screws with M5 threads can be used for mounting the cam roller carriages. In contrast, the guide rail must be mounted with the screws listed in the table. It is generally recommended to use screws of strength class 8.8 in accordance with the specified tightening torque. The maximum torque for the accompanying countersunk screws of the end stops is 4-5 Nm, which results in the highest retaining force without deforming the guide rails.

The pre-installed rubber stops are automatically clamped by the countersunk screws and dampen the stops of the roller carriages at the respective end points.

Designation - standard	Inner slide
Hexagon socket countersunk head screw DIN 7991	M 4 / M 5
Countersunk screw, Phillips DIN 965	M 4 / M 5
Countersunk screw, Phillips DIN 7997	Size 4.5 / 5

### LUBRICATION AND MAINTENANCE

The running surfaces of the guide rails must be lubricated with roller bearing grease before the first use. Possible lubricating greases include Cassida Grease GTX 2, Shell Gadus S2 V220 and Alvania EP 1 or Klüberplex BE 31-222. In food or pharmaceutical applications, FDA-compliant lubricating greases of class H1 or higher must be used as necessary. The grease should be distributed evenly over the entire length of the rail using a paintbrush. After 50,000 cycles, the rails should be cleaned with a clean cloth and relubricated. If there is risk of soiling, the maintenance intervals should be shortened. In principle, however, soiling should be prevented with measures such as suitable covers or optimal positioning of the linear guide rail systems.

