BALL-CAGE TELESCOPIC SLIDES

The Ball-cage T RACE telescopic slides range are the most advanced ball-cage slides. They offer the best ratio "capacity load / size" available on the market with the Superior smooth performance, thanks to its nitriding hardened raceways, assuring constant preload during full lifetime. The black oxidation guarantees a high corrosion resistance unlike traditional zinc plated slides, which soon loose their preload, once soft zinc is consumed at ball contact points.
All the Series are available in the version "X" with high corrosion resistance. For this version the balls the cages and the screws are made in stainless steel (INOX) and also the intermediate plate (when foreseen) for high corrosion resistance. The rails are standard with T RACE-NOX treatment.
All ball-cage telescopic are supplied with a standard preload that is between a light play to a light preload, obtained by selecting the right ball diameter from a large range of balls, with diameter differences of hundreds of mm. As both the rail and inner rail have minor tolerances also the preload has subsequently a small range of preload setting, i.e. between minor play to minor preload. Typically suitable for all standard applications. For special application could provide the versions:

Version with light play G1
"G1"version with light play over total stroke for minor friction and/or to allow some minor compensation of assembly error.

Version with light preload P1
"P1" version with light preload over total stroke, to provide a complete stable and more rigid movement with some higher friction when slide is without load.

Version with superfinished raceways
It is possible also to have a "F" version with better finished raceways for optimal smooth movement. When combined with a light preload P1 version the telescopic offer an un-comparable smooth and stable movement, for High-Tech application, for which others standard ball-cage linear bearing offer too poor sliding performance. As this version has its raceways honed after T RACE-NOX treatment, the hardened raceways are no longer black, so corrosion resistance at the raceways is comparable with standard hardened linear bearings.

Version with customized stroke
All ball-cage telescopic slides can be requested with stroke customized to meet the applications specific request for stroke. In general additional stroke of 5-30% can be obtained, with some load capacity reduction. Each such request must be verified by T RACE's Tech. Depart. and eventual extra cost will then be communicated along with technical revised data.

Two section-dimensions are available : 28 and 43mm

TLS

The TLS are full telescopic slides, composed of 2 semi-telescopic slides fixed to a robust S-shaped intermediate element, to provide high load capacities with min. flexion.
Double full stroke versions are also available.
The optimized design and hardened raceways provide superior performance at competitive prices, compared to traditional zinc plated slides.

TSQ

TSQ sildes are obtained by rivetting 2 semi-telescopic SR slides together, forming a H-shaped intermediate element, in which the inner rails are fixed to mobile and fixed structure.
The TSQ slides offer very compact dimensions, with good radial and axial load capacities. Full double stroke is possible for all versions.

TSQR

The telescopic slides of the series TSQR are equipped with robust stoppers with rubber shock absorber for dragging of the intermediate element during the extraction stage and in the phase of recovery and re-closing, significantly reducing the shock and noise derived from the impact and allowing a longer life.
These telescopic allow the complete extraction in only one side.

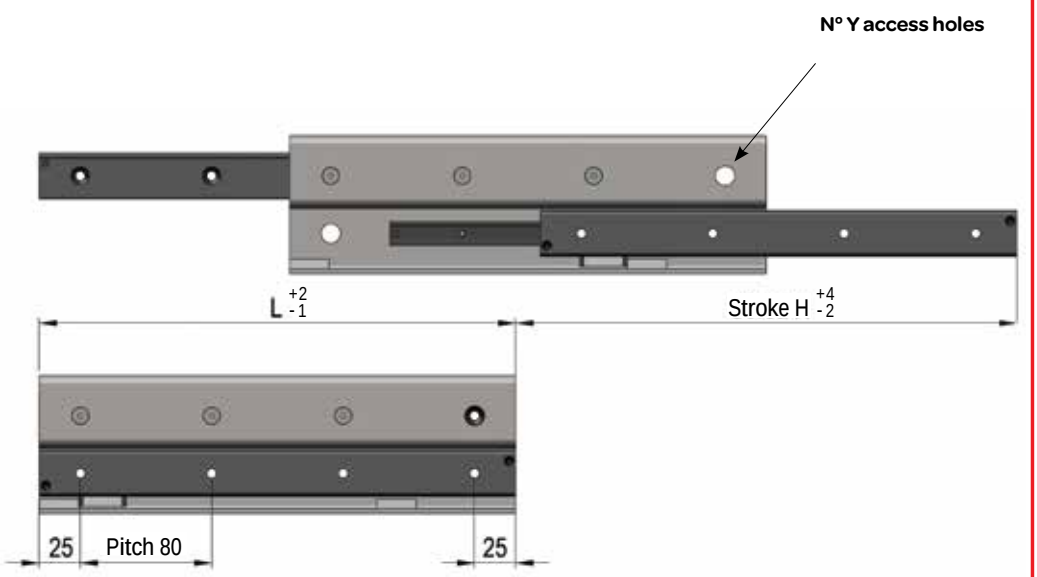
TSH

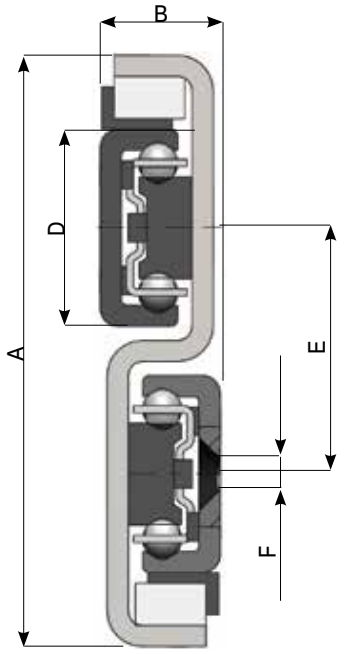
The TSH telescopic slides are composed of two SR semi-telescopic slides fixed to a rectangular rigid element, providing high load capacities both radial and axial, at very compact overall dimensions. Compared to TLS versions, the TSH provide a much more stable assembly and with less oscilations, in extended position.
The TSH also comes with syncronized movement for both single and double stroke. TSH..DSY - i.e. the two semi-telescopic slides SR move together, as connected by a integrated rack & pinion system. Hereby moving the intermediate element 500mm the mobile part extends 1000mm.
System particularly usefull for High-speed telescopic applications and double side telescopic slides movements, as the intermediate element automatically follows smoothly the movement, without any strong impact, as the element is dragged along with the movement all the time

SR

The SR semi-telescopic slides, allows for half stroke on each side.
They are the base component for TLS and TSQ slides.
Unique solution for partial extensions of heavy loads, at economical prices.
With double stroke, space saving linear solutions can be obtained.

TLS..single stroke version



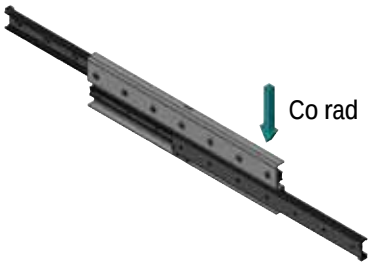


** In closed position most fixing holes are accessible throng the access-holes Y on the intermediate element.*

Code	A (mm)	B (mm)	D (mm)	E (mm)	F (mm)
TLS.28	84	17	28	35	Hole for screw M5 DIN7991
TLS.43	120	28	43	52	Hole for screw M8 DIN7991

The slide TLSX offers high corrosion resistance, with all components and intermediate element in INOX, except the rails. The TLSX have the same dimensions and performance as standard version TLS. Could be provided the versions G1 with light play and the version P1 with light preload.

Order code ex. :
TLS28-610 standard slide with single stroke
TLSX28-610-P1 slide with high corrosion resistance and preload P1
TLSX28-610 slide with high corrosion resistance



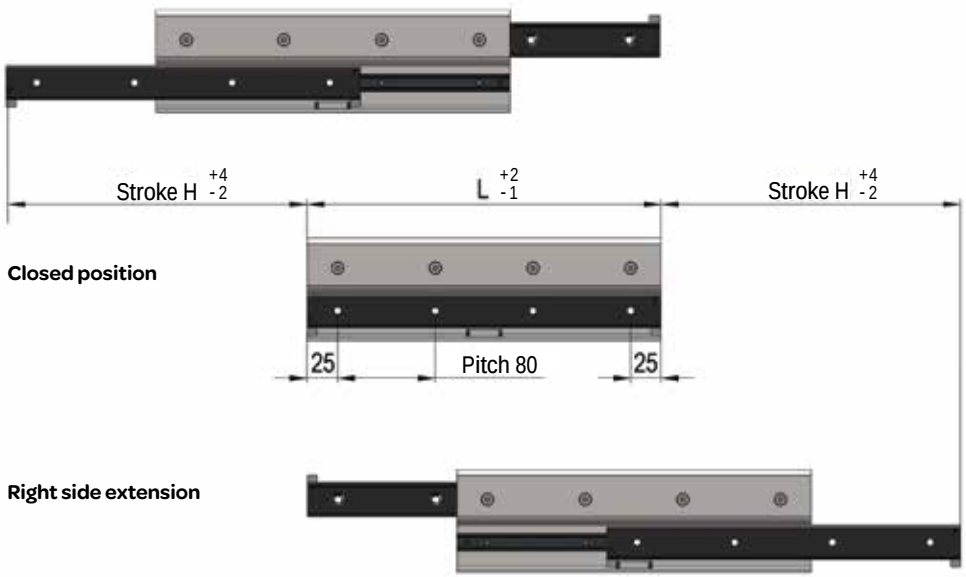
The nominal load capacities **Co rad** are all based for load related to centered load position **P**, in the middle of the single slide. For applications with load in other positions, please refer to page 74.
Load capacities are indicated per single slide.
The TLS slide is installed with upper rail fixed to structure and lower rail fixed to mobile part, having the product code at top.
For flexion f in relation to applied load and its position, please refer to page 76 .

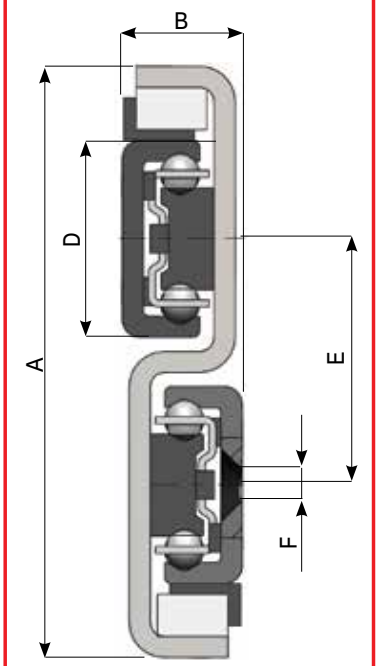
Code	Lenght L (mm)	Stroke H (mm)	n°Y access holes*	Dynamic coefficient C (N)	Load capacity Co rad (N)	Weight (kg)
TLS.28-290	290	295	1	867	577	1,7
TLS.28-370	370	380	1	1143	761	2,2
TLS.28-450	450	460	1	1525	1020	2,6
TLS.28-530	530	540	2	1802	1205	3,1
TLS.28-610	610	620	2	2187	1465	3,6
TLS.28-690	690	700	2	2464	1651	4,1
TLS.28-770	770	780	2	2850	1913	4,5
TLS.28-850	850	860	3	3127	2098	5
TLS.28-930	930	940	3	3514	2222	5,5
TLS.28-1010	1010	1020	3	3791	2053	5,9
TLS.28-1090	1090	1100	3	4068	1907	6,4
TLS.28-1170	1170	1180	4	4455	1781	6,9
TLS.28-1250	1250	1260	4	4732	1671	7,4
TLS.28-1330	1330	1340	4	5120	1573	7,7
TLS.28-1410	1410	1420	4	5397	1486	8,2
TLS.28-1490	1490	1500	5	5785	1409	8,7

Code	Lenght L (mm)	Stroke H (mm)	n°Y access holes*	Dynamic coefficient C (N)	Load capacity Co rad (N)	Weight (kg)
TLS.43-530	530	545	2	3489	2186	7,1
TLS.43-610	610	625	2	3824	2393	8,5
TLS.43-690	690	705	2	4467	2799	9,7
TLS.43-770	770	785	2	5112	3206	10,7
TLS.43-850	850	865	3	5757	3614	11,9
TLS.43-930	930	945	3	6404	4022	13
TLS.43-1010	1010	1025	3	7050	4431	14,1
TLS.43-1090	1090	1105	3	7698	4840	15,2
TLS.43-1170	1170	1185	4	8027	4715	16,4
TLS.43-1250	1250	1265	4	8674	4427	17,5
TLS.43-1330	1330	1345	4	9321	4172	18,6
TLS.43-1410	1410	1425	4	9969	3945	19,7
TLS.43-1490	1490	1505	5	10616	3741	20,9
TLS.43-1570	1570	1585	5	11264	3558	22
TLS.43-1650	1650	1665	5	11912	3391	23,1
TLS.43-1730	1730	1745	5	12240	3240	24,2
TLS.43-1810	1810	1825	6	12887	3101	25,4
TLS.43-1890	1890	1905	6	13535	2974	26,4
TLS.43-1970	1970	1985	6	14183	2857	27,6

TLS..D double stroke version

Left side extension



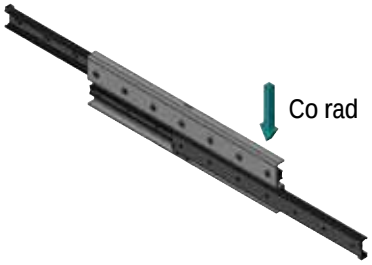


** The rail central fixing hole, with odd fixing holes are not accessible, and therefore not to be used for fixing.*
NB. In closed position the intermediate element might be protruding at one of the sides, as movement not synchronized with the rails.

Code	A (mm)	B (mm)	D (mm)	E (mm)	F (mm)
TLS.28D	84	17	28	35	Holes for screw M5 DIN7991
TLS.43D	120	28	43	52	Holes for screw M8 DIN7991

The slide TLS..D offers high corrosion resistance, with all components and intermediate element in INOX, except the rails. The TLS..D have the same dimensions and performance as standard version TLS..D. Could be provided the versions G1 with light play and the version P1 with light preload.

Order code ex. :
TLS28D-610 standard slide with double stroke
TLSX28D-610-P1 slide with high corrosion resistance and preload P1
TLSX28D-610 slide with high corrosion resistance

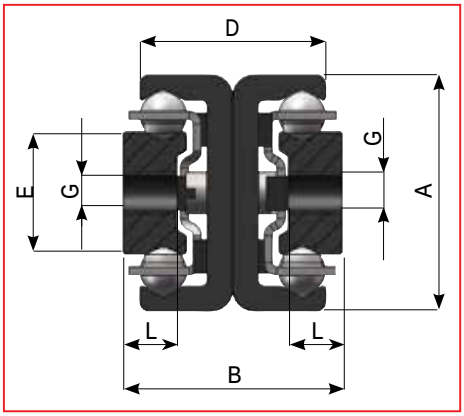


The nominal load capacities **Co rad** are all based for load related to centered load position **P**, in the middle of the single slide. For applications with load in other positions, please refer to page 74.
Load capacities are indicated per single slide.
The TLS slide is installed with upper rail fixed to structure and lower rail fixed to mobile part, having the product code at top.
For flexion f in relation to applied load and its position, please refer to page 76.

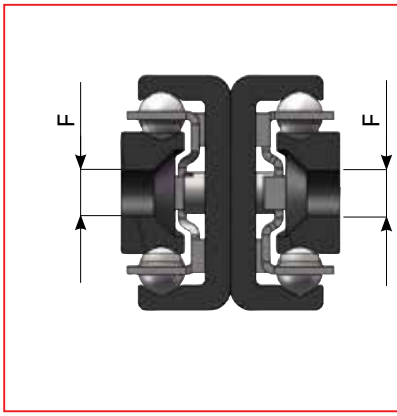
Code	Lenght L (mm)	Stroke H (mm)	Dynamic coefficient C (N)	Load capacity Co rad (N)	Weight (kg)
TLS.28D-290	290	245	1481	1020	1,8
TLS.28D-370	370	325	1866	1280	2,3
TLS.28D-450	450	405	2129	1454	2,8
TLS.28D-530	530	485	2518	1718	3,3
TLS.28D-610	610	565	2787	1897	3,8
TLS.28D-690	690	645	3057	2077	4,3
TLS.28D-770	770	725	3448	2342	4,8
TLS.28D-850	850	805	3720	2523	5,3
TLS.28D-930	930	885	4110	2566	5,8
TLS.28D-1010	1010	965	4383	2343	6,3
TLS.28D-1090	1090	1045	4774	2155	6,8
TLS.28D-1170	1170	1125	5047	1996	7,3
TLS.28D-1250	1250	1205	5438	1858	7,8
TLS.28D-1330	1330	1285	5712	1738	8,2
TLS.28D-1410	1410	1365	5986	1633	8,7
TLS.28D-1490	1490	1445	6376	1539	9,2

Code	Lenght L (mm)	Stroke H (mm)	Dynamic coefficient C (N)	Load capacity Co rad (N)	Weight (kg)
TLS.43D-530	530	480	4726	3022	7,6
TLS.43D-610	610	560	5020	3197	8,7
TLS.43D-690	690	640	5667	3605	9,9
TLS.43D-770	770	720	6314	4015	11
TLS.43D-850	850	800	6962	4424	12,2
TLS.43D-930	930	880	7610	4834	13,3
TLS.43D-1010	1010	960	8258	5244	14,5
TLS.43D-1090	1090	1040	8907	5654	15,6
TLS.43D-1170	1170	1120	9217	5272	16,8
TLS.43D-1250	1250	1200	9867	4915	17,9
TLS.43D-1330	1330	1280	10516	4603	19,1
TLS.43D-1410	1410	1360	11165	4328	20,2
TLS.43D-1490	1490	1440	11814	4084	21,4
TLS.43D-1570	1570	1520	12464	3866	22,5
TLS.43D-1650	1650	1600	13113	3670	23,7
TLS.43D-1730	1730	1680	13428	3493	24,8
TLS.43D-1810	1810	1760	14078	3333	26
TLS.43D-1890	1890	1840	14727	3186	27,1
TLS.43D-1970	1970	1920	15377	3052	28,3

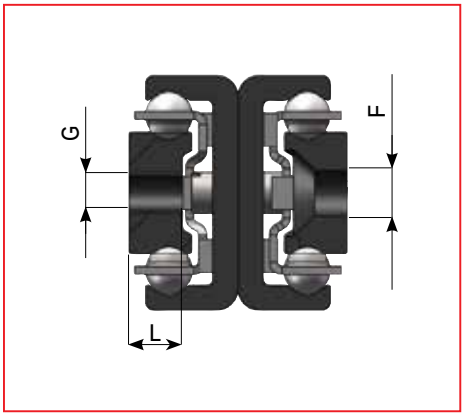
TSQ. standard
Threaded holes both sides.

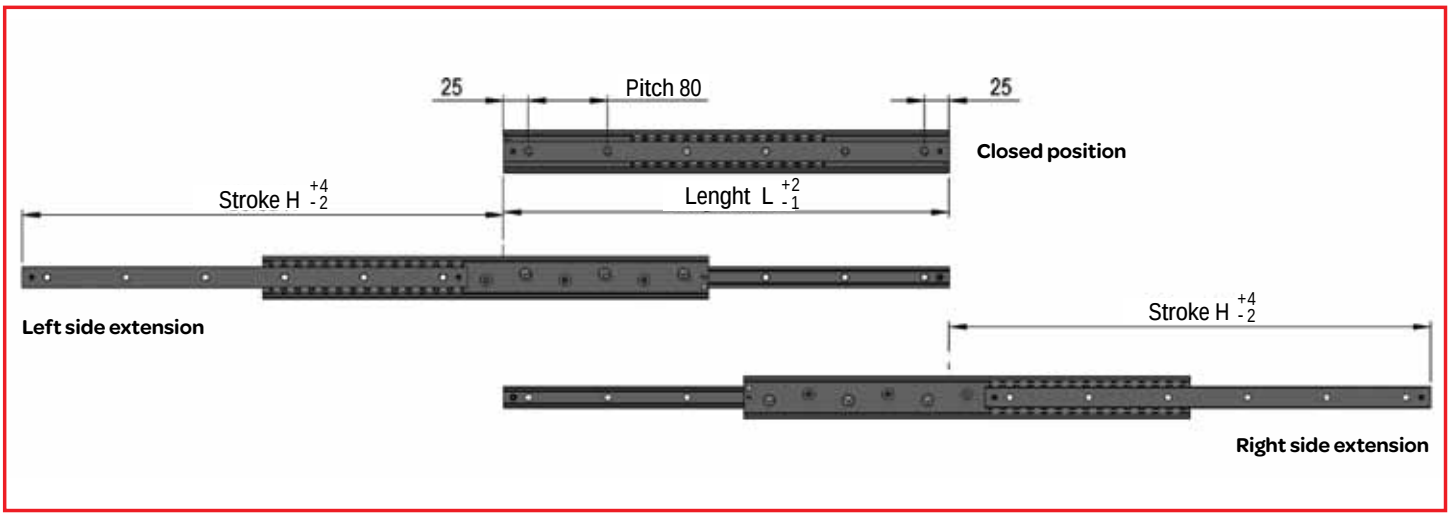


TSQ.S version
C'sunk fixing holes both sides.



TSQ.M version
C'sunk fixing holes and other side with threaded fixing holes.





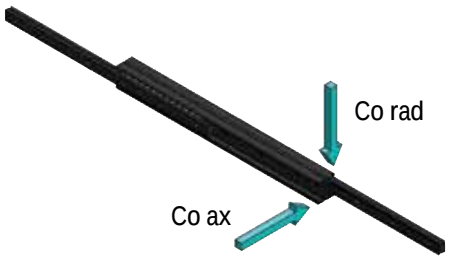
Note: *The slide is provided with a set screw which limits the stroke of the movable sliders in one direction for a stroke equal to H, by removing the screw it is possible to move the sliders in the opposite direction to obtain a double stroke equal to 2H.*

Code	A (mm)	B (mm)	D (mm)	E (mm)	G (mm)	L* (mm)	F (mm)
TSQ.28.	28	26	23	14,5	M5	6	Hole for screw M5 DIN7991
TSQ.43.	43	44	36,6	21	M8	11,5	Hole for screw M8 DIN7991

** Thread not through passing, value equals usable thread*

The slide TSQX offers high corrosion resistance, with all components and intermediate element in INOX, except the rails. The TSQX have the same dimensions and performance as standard version TSQ. Could be provided the versions G1 with light play and the version P1 with light preload.

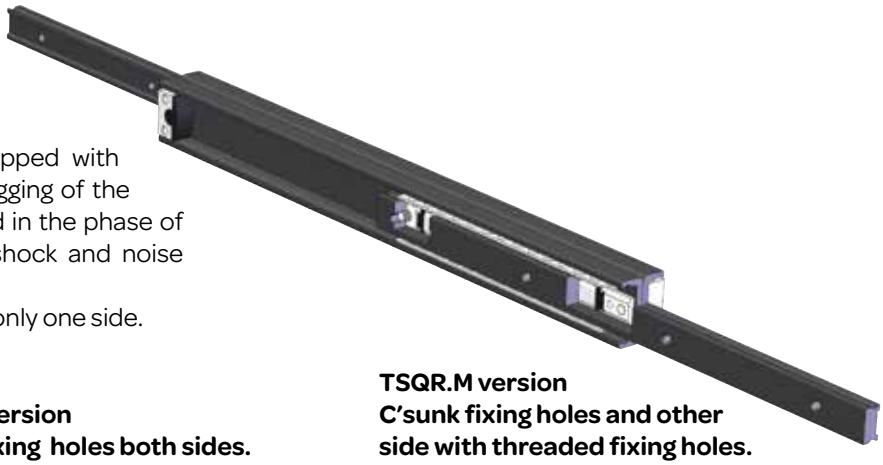
Order code ex. :
TSQ28-610 standard slide
TSQX28-610-P1 slide with high corrosion resistance and preload P1
TSQX28-610 slide with high corrosion resistance



The nominal load capacities **Co rad** are all based for load related to centered load position **P**, in the middle of the single slide. For applications with load in other positions, please refer to page 74.
Load capacities are indicated per single slide.
For flexion f in relation to applied load and its position, please refer to page 76.

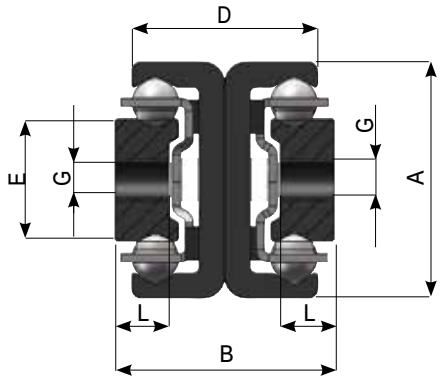
Code	Lenght L (mm)	Stroke H (mm)	Dynamic coefficient C (N)	Load capacity Co rad (N)	Load capacity Co ax (N)	Weight (kg)
TSQ.28.-130	130	136	392	259	151	0,4
TSQ.28.-210	210	224	685	454	265	0,7
TSQ.28.-290	290	312	979	649	379	1,1
TSQ.28.-370	370	400	1273	844	358	1,4
TSQ.28.-450	450	470	1759	1173	316	1,7
TSQ.28.-530	530	558	2051	1037	266	2
TSQ.28.-610	610	628	2547	944	242	2,3
TSQ.28.-690	690	716	2839	825	211	2,6
TSQ.28.-770	770	786	3340	765	196	2,9
TSQ.28.-850	850	874	3630	685	175	3,2
TSQ.28.-930	930	944	4134	643	165	3,5
TSQ.28.-1010	1010	1032	4422	585	150	3,8
TSQ.28.-1090	1090	1120	4712	537	138	4,1
TSQ.28.-1170	1170	1190	5217	511	131	4,4

Code	Lenght L (mm)	Stroke H (mm)	Dynamic coefficient C (N)	Load capacity Co rad (N)	Load capacity Co ax (N)	Weight (kg)
TSQ.43.-210	210	232	968	636	410	1,9
TSQ.43.-290	290	308	1657	1098	709	2,7
TSQ.43.-370	370	412	1891	1246	804	3,4
TSQ.43.-450	450	488	2583	1710	1104	4,2
TSQ.43.-530	530	564	3289	2187	1105	4,9
TSQ.43.-610	610	640	4005	2670	992	5,7
TSQ.43.-690	690	716	4727	3158	901	6,4
TSQ.43.-770	770	820	4924	2733	774	7,2
TSQ.43.-850	850	896	5642	2532	717	7,9
TSQ.43.-930	930	972	6363	2359	668	8,7
TSQ.43.-1010	1010	1048	7088	2208	625	9,4
TSQ.43.-1090	1090	1124	7816	2075	587	10,2
TSQ.43.-1170	1170	1200	8545	1957	554	10,9
TSQ.43.-1250	1250	1276	9277	1852	524	11,7
TSQ.43.-1330	1330	1380	9450	1690	478	12,4
TSQ.43.-1410	1410	1456	10178	1611	456	13,2
TSQ.43.-1490	1490	1532	10908	1539	436	13,9
TSQ.43.-1570	1570	1608	11639	1473	417	14,7
TSQ.43.-1650	1650	1684	12371	1413	400	15,4
TSQ.43.-1730	1730	1760	13104	1357	384	16,2
TSQ.43.-1810	1810	1836	13838	1306	370	16,9
TSQ.43.-1890	1890	1940	14001	1223	346	17,7
TSQ.43.-1970	1970	2016	14733	1181	334	18,4

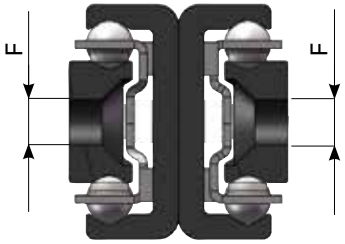


The telescopic slides of the series TSQR are equipped with robust stoppers with rubber shock absorber for dragging of the intermediate element during the extraction stage and in the phase of recovery and re-closing, significantly reducing the shock and noise derived from the impact and allowing a longer life.
This telescopic slide allow the complete extraction in only one side.

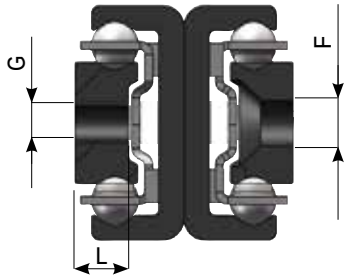
TSQR. standard
Threaded holes both sides.



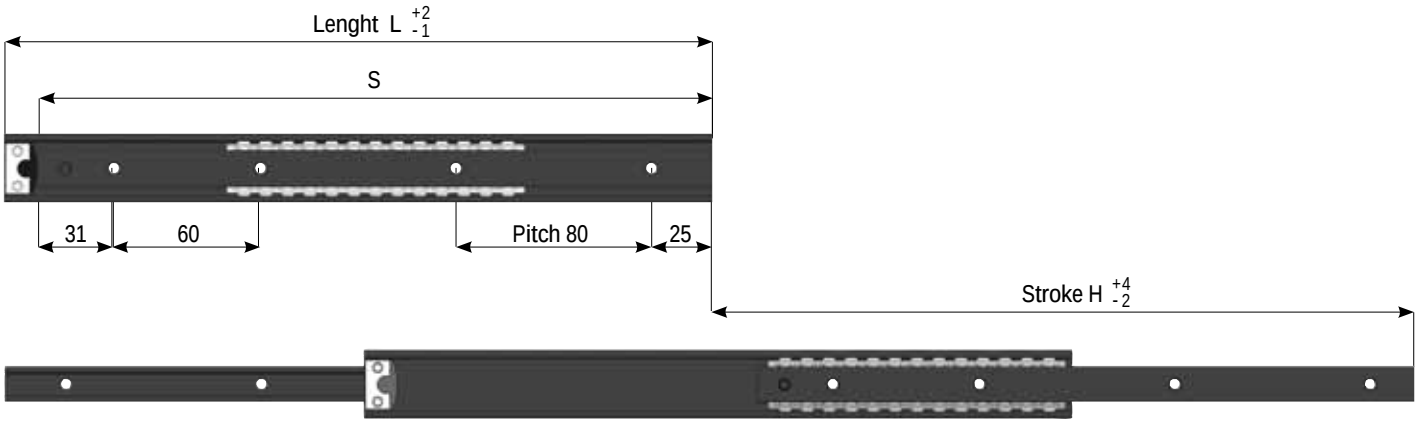
TSQR.S version
C'sunk fixing holes both sides.



TSQR.M version
C'sunk fixing holes and other side with threaded fixing holes.



Note: *The fixed and mobile sliders, are equal to each other and slightly shorter (S) of the length of the closed telescopic slide (L). To gain access to the fixing holes for the version with countersunk holes is necessary to remove the stoppers on both sides and reassemble them again after fixing.*



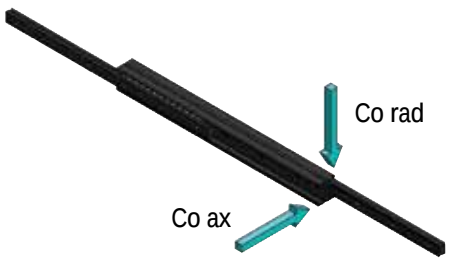
Code	A (mm)	B (mm)	D (mm)	E (mm)	G (mm)	L* (mm)	F (mm)
TSQR.28.	28	26	23	14,5	M5	6	Hole for screw M5 DIN7991
TSQR.43.	43	44	36,6	21	M8	11,5	Hole for screw M8 DIN7991

** Thread not through passing, value equals usable thread*

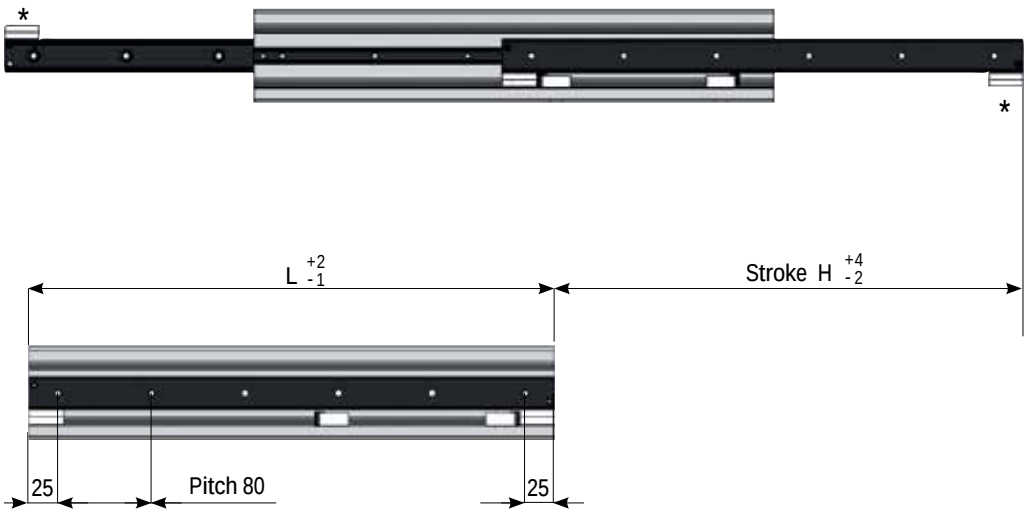
The slide TSQRX offers high corrosion resistance, with all components and intermediate element in INOX, except the rails. The TSQRX have the same dimensions and performance as standard version TSQR. Could be provided the versions G1 with light play and the version P1 with light preload.
Order code ex. :
TSQR28-610 standard slide with single stroke
TSQRX28-610-P1 slide with high corrosion resistance and preload P1
TSQRX28-610 slide with high corrosion resistance
The nominal load capacities **Co rad** are all based for load related to centered load position **P**, in the middle of the single slide. For applications with load in other positions, please refer to page 74. Load capacities are indicated per single slide. For flexion f in relation to applied load and its position, please refer to page 76.

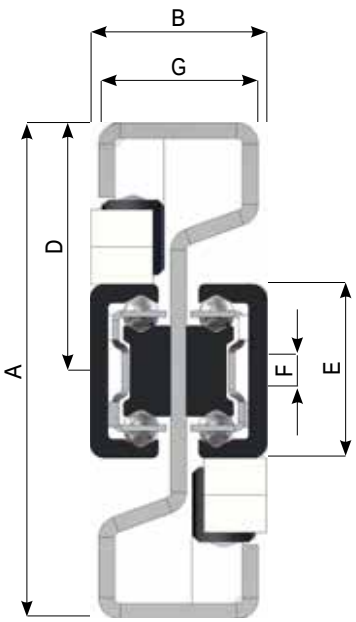
Code	Lenght L (mm)	Lenght S (mm)	Stroke H (mm)	Dynamic coefficient C (N)	Load capacity Co rad (N)	Load capacity Co ax (N)	Weight (kg)
TSQR.28.-130	130	116	130	392	259	151	0,4
TSQR.28.-210	210	196	220	685	454	265	0,7
TSQR.28.-290	290	276	290	979	649	379	1,1
TSQR.28.-370	370	356	380	1273	844	358	1,4
TSQR.28.-450	450	436	450	1759	1173	316	1,7
TSQR.28.-530	530	516	540	2051	1037	266	2
TSQR.28.-610	610	596	610	2547	944	242	2,3
TSQR.28.-690	690	676	700	2839	825	211	2,6
TSQR.28.-770	770	756	770	3340	765	196	2,9
TSQR.28.-850	850	836	860	3630	685	175	3,2
TSQR.28.-930	930	916	930	4134	643	165	3,5
TSQR.28.-1010	1010	996	1020	4422	585	150	3,8
TSQR.28.-1090	1090	1076	1090	4712	537	138	4,1
TSQR.28.-1170	1170	1156	1180	5217	511	131	4,4

Code	Lenght L (mm)	Lenght S (mm)	Stroke H (mm)	Dynamic coefficient C (N)	Load capacity Co rad (N)	Load capacity Co ax (N)	Weight (kg)
TSQR.43.-210	210	196	225	968	636	410	1,9
TSQR.43.-290	290	276	290	1657	1098	709	2,7
TSQR.43.-370	370	356	385	1891	1246	804	3,4
TSQR.43.-450	450	436	450	2583	1710	1104	4,2
TSQR.43.-530	530	516	545	3289	2187	1105	4,9
TSQR.43.-610	610	596	610	4005	2670	992	5,7
TSQR.43.-690	690	676	705	4727	3158	901	6,4
TSQR.43.-770	770	756	770	4924	2733	774	7,2
TSQR.43.-850	850	836	865	5642	2532	717	7,9
TSQR.43.-930	930	916	930	6363	2359	668	8,7
TSQR.43.-1010	1010	996	1025	7088	2208	625	9,4
TSQR.43.-1090	1090	1076	1090	7816	2075	587	10,2
TSQR.43.-1170	1170	1156	1185	8545	1957	554	10,9
TSQR.43.-1250	1250	1236	1250	9277	1852	524	11,7
TSQR.43.-1330	1330	1316	1345	9450	1690	478	12,4
TSQR.43.-1410	1410	1396	1410	10178	1611	456	13,2
TSQR.43.-1490	1490	1476	1505	10908	1539	436	13,9
TSQR.43.-1570	1570	1556	1570	11639	1473	417	14,7
TSQR.43.-1650	1650	1636	1665	12371	1413	400	15,4
TSQR.43.-1730	1730	1716	1730	13104	1357	384	16,2
TSQR.43.-1810	1810	1796	1825	13838	1306	370	16,9
TSQR.43.-1890	1890	1876	1890	14001	1223	346	17,7
TSQR.43.-1970	1970	1956	1985	14733	1181	334	18,4



TSH.X single stroke version





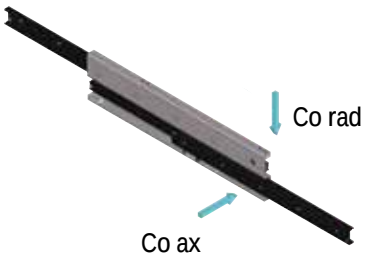
***To fix the slide it is necessary to remove the stoppers at the end of fixed rail and moving rail. The stoppers are 2 in total and identified by NOT having the pins pressed down. Once rails are fixed each of the 2 stoppers are mounted with the 2 screws and 2 pins.

Code	A (mm)	B (mm)	D (mm)	E (mm)	F (mm)	G (mm)
TSH.28	80	28,5	40	28	Hole for screw M5 DIN7991	25,5
TSH.43	100	47	50	43	Hole for screw M8 DIN7991	42

The slide TSHX offers high corrosion resistance, with all components and intermediate element in INOX, except the rails. The TSHX have the same dimensions and performance as standard version TSH. Could be provided the versions G1 with light play and the version P1 with light preload.

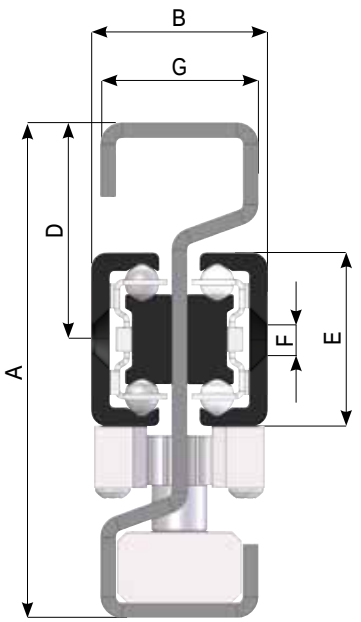
Order code ex. :
TSH28-610 standard slide with single stroke
TSHX28-610-P1 slide with high corrosion resistance and preload P1
TSHX28-610 slide with high corrosion resistance

The nominal load capacities **Co rad** are all based for load related to centered load position **P**, in the middle of the single slide. For applications with load in other positions, please refer to page 74.
Load capacities are indicated per single slide.
For flexion f in relation to applied load and its position, please refer to page 76.



Code	Lenght L (mm)	Stroke H (mm)	Dynamic coefficient C (N)	Load capacity Co rad (N)	Load capacity Co ax (N)	Weight (kg)
TSH.28-290	290	295	868	577	336	1,8
TSH.28-370	370	380	1143	762	443	2,3
TSH.28-450	450	460	1525	1020	593	2,8
TSH.28-530	530	540	1802	1206	701	3,3
TSH.28-610	610	620	2187	1466	853	3,8
TSH.28-690	690	700	2464	1652	961	4,3
TSH.28-770	770	780	2851	1913	1113	4,8
TSH.28-850	850	860	3128	2099	1221	5,3
TSH.28-930	930	940	3515	2361	1374	5,8
TSH.28-1010	1010	1020	3792	2546	1423	6,3
TSH.28-1090	1090	1100	4068	2370	1322	6,8
TSH.28-1170	1170	1180	4456	2213	1235	7,3
TSH.28-1250	1250	1260	4733	2076	1158	7,8
TSH.28-1330	1330	1340	5121	1955	1091	8,2
TSH.28-1410	1410	1420	5397	1847	1031	8,7
TSH.28-1490	1490	1500	5785	1750	977	9,2

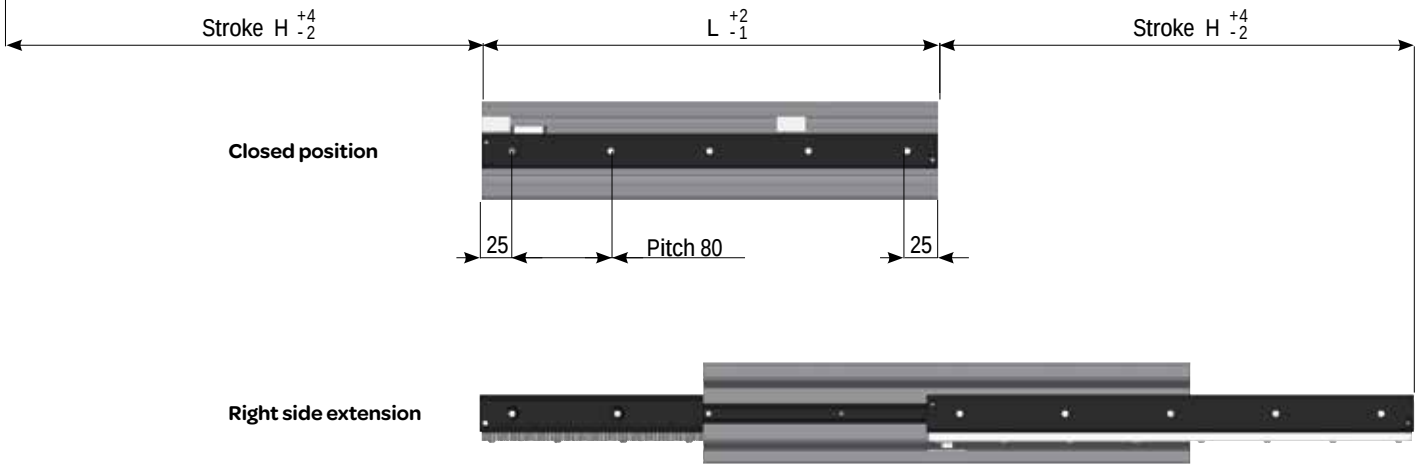
Code	Lenght L (mm)	Stroke H (mm)	Dynamic coefficient C (N)	Load capacity Co rad (N)	Load capacity Co ax (N)	Weight (kg)
TSH.43-530	530	545	3490	2187	1266	7,3
TSH.43-610	610	625	3824	2393	1385	8,3
TSH.43-690	690	705	4468	2799	1621	9,5
TSH.43-770	770	785	5112	3206	1856	10,5
TSH.43-850	850	865	5758	3614	2092	11,7
TSH.43-930	930	945	6404	4022	2329	12,7
TSH.43-1010	1010	1025	7051	4431	2565	13,9
TSH.43-1090	1090	1105	7698	4808	2802	15,0
TSH.43-1170	1170	1185	8028	4495	2919	16,1
TSH.43-1250	1250	1265	8675	4220	2903	17,2
TSH.43-1330	1330	1345	9322	3977	2736	18,3
TSH.43-1410	1410	1425	9969	3761	2587	19,4
TSH.43-1490	1490	1505	10617	3567	2453	20,5
TSH.43-1570	1570	1585	11265	3392	2333	21,6
TSH.43-1650	1650	1665	11913	3233	2224	22,7
TSH.43-1730	1730	1745	12240	3089	2124	23,8
TSH.43-1810	1810	1825	12888	2956	2033	24,9
TSH.43-1890	1890	1905	13536	2835	1950	26,0
TSH.43-1970	1970	1985	14184	2723	1873	27,1



The TSH..DSY with syncronized movement for both single and double stroke, is composed of two semi-telescopic slides SR that move together, as connected by an integrated rack & pinion system. Hereby moving the intermediate element 500mm the mobile part extends 1000mm.
System particularly usefull for High-speed telescopic slide applications and double side telescopic slides movements, as the intermediate element automatically follows smoothly the movement, without any strong impact, as the element is dragged along with the movement all the time.

TSH..DSY double stroke version

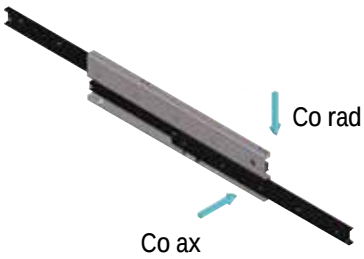
Left side extension



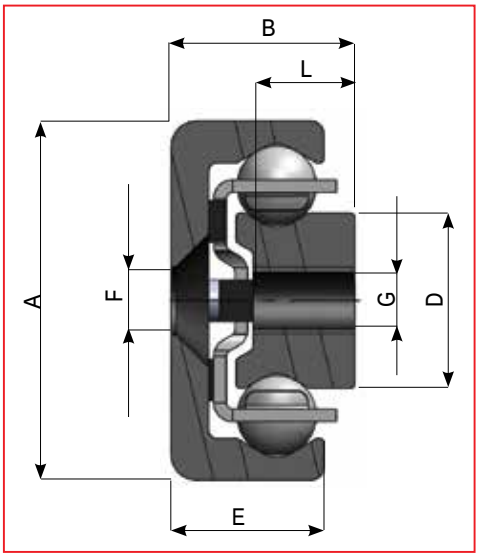
Code	A (mm)	B (mm)	D (mm)	E (mm)	F (mm)	G (mm)
TSH28DSY	80	28,5	35	28	Hole for screw M5 DIN7991	25,5
TSH43DSY	100	47	45	43	Hole for screw M8 DIN7991	42

Code	Lenght L (mm)	Stroke H (mm)	Dynamic coefficient C (N)	Load capacity Co rad (N)	Load capacity Co ax (N)	Weight (kg)
TSH28DSY-290	290	270	982	661	385	1,8
TSH28DSY-370	370	350	1259	846	493	2,3
TSH28DSY-450	450	430	1648	1110	646	2,8
TSH28DSY-530	530	510	1924	1295	753	3,3
TSH28DSY-610	610	590	2313	1559	907	3,8
TSH28DSY-690	690	670	2589	1744	1014	4,3
TSH28DSY-770	770	750	2978	2008	1168	4,8
TSH28DSY-850	850	830	3254	2192	1276	5,3
TSH28DSY-930	930	910	3644	2456	1429	5,8
TSH28DSY-1010	1010	990	3920	2641	1509	6,3
TSH28DSY-1090	1090	1070	4196	2503	1396	6,8
TSH28DSY-1170	1170	1150	4585	2328	1299	7,3
TSH28DSY-1250	1250	1230	4861	2177	1215	7,8
TSH28DSY-1330	1330	1310	5251	2044	1141	8,2
TSH28DSY-1410	1410	1390	5527	1926	1075	8,7
TSH28DSY-1490	1490	1470	5916	1822	1016	9,2

Code	Lenght L (mm)	Stroke H (mm)	Dynamic coefficient C (N)	Load capacity Co rad (N)	Load capacity Co ax (N)	Weight (kg)
TSH43DSY-530	530	500	4181	2.653	1.536	7,5
TSH43DSY-610	610	580	4830	3.063	1.774	8,6
TSH43DSY-690	690	660	5479	3.474	2.011	9,8
TSH43DSY-770	770	740	5794	3.665	2.122	10,8
TSH43DSY-850	850	820	6443	4.075	2.359	12,0
TSH43DSY-930	930	900	7093	4.486	2.597	13,1
TSH43DSY-1010	1010	980	7742	4.897	2.835	14,3
TSH43DSY-1090	1090	1060	8392	5.216	3.073	15,4
TSH43DSY-1170	1170	1140	9041	4.850	3.311	16,5
TSH43DSY-1250	1250	1220	9690	4.532	3.117	17,7
TSH43DSY-1330	1330	1300	10009	4.253	2.925	18,8
TSH43DSY-1410	1410	1380	10658	4.006	2.755	20,0
TSH43DSY-1490	1490	1460	11308	3.787	2.604	21,1
TSH43DSY-1570	1570	1540	11957	3.590	2.469	22,2
TSH43DSY-1650	1650	1620	12607	3.413	2.347	23,4
TSH43DSY-1730	1730	1700	13256	3.252	2.237	24,5
TSH43DSY-1810	1810	1780	13906	3.106	2.136	25,6
TSH43DSY-1890	1890	1860	14226	2.972	2.044	26,8
TSH43DSY-1970	1970	1940	14875	2.850	1.960	27,9



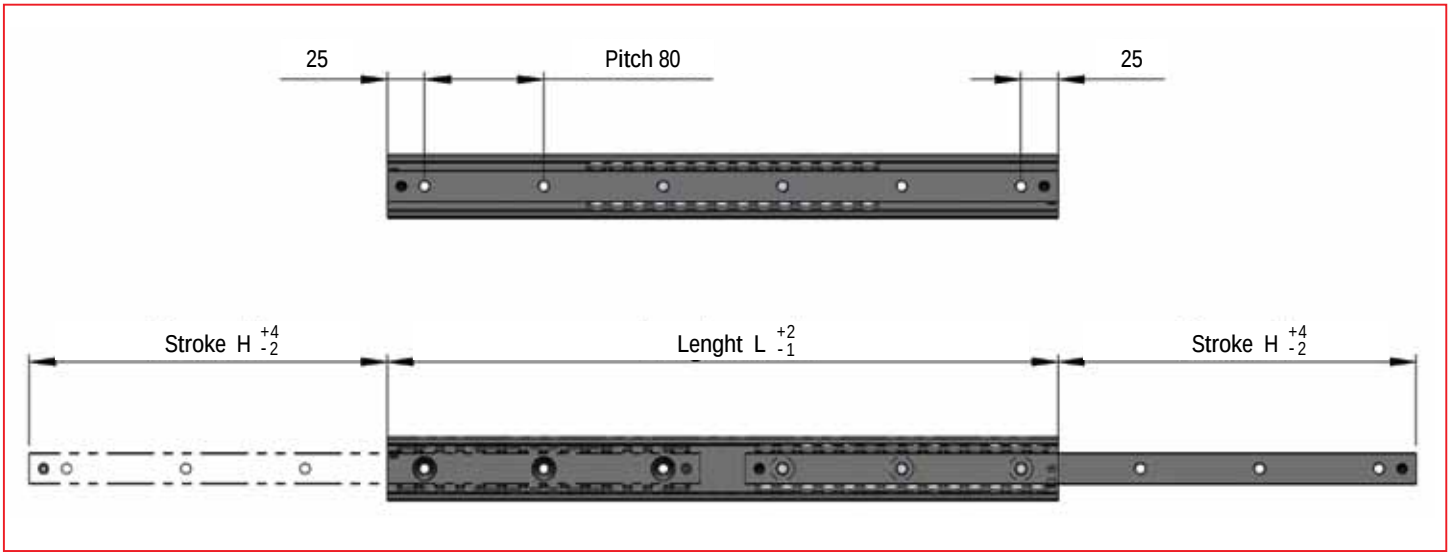
The nominal load capacities **Co rad** are all based for load related to centered load position **P**, in the middle of the single slide. For applications with load in other positions, please refer to page 74.
Load capacities are indicated per single slide.
For flexion f in relation to applied load and its position, please refer to page 76.



The semi-telescopic slides SR allow for a stroke H, equal to half the length of the slide, plus a minor stroke 10-25mm depending on type.
The slides can also perform an equal stroke to the other side, removing the small screw positioned at the left side.

The version SRX for high corrosion resistance, have all components in INOX, except the profiles.
SXR have same dimensions and performance as SR.

The load capacities are all referred to a single slide, with load at the centered position.



***To fix the slide it is necessary to remove the stoppers at the end of fixed rail and moving rail. The stoppers are 2 in total and identified by NOT having the pins pressed down. Once rails are fixed each of the 2 stoppers are mounted with the 2 screws and 2 pins.

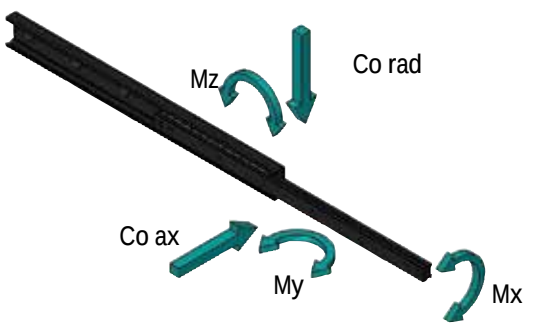
Code	A (mm)	B (mm)	D (mm)	E (mm)	G (mm)	L* (mm)	F (mm)
SR.28	28	13	14,5	11,5	M5	6	Hole for screw M5 DIN7991
SR.43	43	22	21	18,30	M8	11,5	Hole for screw M8 DIN7991

** Thread not through passing, value equals usable thread*

The slide is provided with a screw which limits the stroke of the movable sliders in one direction for a stroke equal to H, by removing the screw it is possible to move the sliders in the opposite direction to obtain a double stroke equal to 2H. The slide may be produced on request with stroke increased or diminished. For example, with an extraction of 75% compared with the standard extraction of 50%, the load capacity is reduced to 20% of the load capacity Co rad indicated in the table. The slide SRX offers high corrosion resistance, with all components and intermediate element in INOX, except the rails. The SRX have the same dimensions and performance as standard version SR. Could be provided the versions G1 with light play and the version P1 with light preload.

Order code ex. :
SR28-610 standard slide with single stroke
SRX28-610-P1 slide with high corrosion resistance and preload P1
SRX28-610 slide with high corrosion resistance

The nominal load capacities **Co rad** are all based for load related to centered load position **P**, in the middle of the single slide. For applications with load in other positions, please refer to page 74. Load capacities are indicated per single slide.



Code	Lenght L (mm)	Stroke H (mm)	Dyn coeff. C (N)	Load-moment capacities					Weight (kg)
				Co rad (N)	Co ax (N)	Mx (Nm)	My (Nm)	Mz (Nm)	
SR.28-130	130	68	872	639	374	13	15	27	0,25
SR.28-210	210	112	1544	1139	665	23	46	80	0,40
SR.28-290	290	156	2217	1639	958	33	94	161	0,55
SR.28-370	370	200	2891	2140	1251	43	158	270	0,70
SR.28-450	450	235	3934	2949	1724	55	260	446	0,86
SR.28-530	530	279	4607	3450	2017	65	361	618	1,01
SR.28-610	610	314	5666	4276	2499	78	510	873	1,16
SR.28-690	690	358	6337	4774	2791	88	648	1109	1,31
SR.28-770	770	393	7403	5608	3278	100	843	1443	1,46
SR.28-850	850	437	8072	6105	3569	110	1018	1742	1,62
SR.28-930	930	472	9142	6943	4059	122	1259	2154	1,77
SR.28-1010	1010	516	9810	7438	4348	132	1471	2516	1,92
SR.28-1090	1090	560	10480	7934	4638	142	1699	2906	2,07
SR.28-1170	1170	595	11550	8774	5129	155	2007	3433	2,22

Code	Lenght L (mm)	Stroke H (mm)	Dyn coeff. C (N)	Load-moment capacities					Weight (kg)
				Co rad (N)	Co ax (N)	Mx (Nm)	My (Nm)	Mz (Nm)	
SR.43-210	210	116	2232	1497	966	99	75	117	1,0
SR.43-290	290	154	3817	2615	1688	152	176	272	1,4
SR.43-370	370	206	4496	3055	1972	187	266	412	1,7
SR.43-450	450	244	6107	4197	2709	239	436	675	2,1
SR.43-530	530	282	7746	5368	3464	292	647	1003	2,5
SR.43-610	610	320	9403	6556	4232	344	901	1396	2,9
SR.43-690	690	358	11072	7757	5006	397	1196	1853	3,2
SR.43-770	770	410	11693	8138	5253	432	1416	2194	3,6
SR.43-850	850	448	13358	9334	6025	484	1781	2759	4,0
SR.43-930	930	486	15030	10538	6802	537	2187	3389	4,4
SR.43-1010	1010	524	16707	11747	7582	589	2636	4084	4,7
SR.43-1090	1090	562	18390	12962	8366	642	3126	4843	5,1
SR.43-1170	1170	600	20076	14180	9152	694	3658	5667	5,5
SR.43-1250	1250	638	21764	15401	9941	747	4231	6556	5,9
SR.43-1330	1330	690	22347	15743	10161	782	4637	7184	6,3
SR.43-1410	1410	728	24032	16960	10947	834	5280	8180	6,6
SR.43-1490	1490	766	25719	18180	11734	887	5965	9241	7,0
SR.43-1570	1570	804	27409	19402	12523	939	6691	10367	7,4
SR.43-1650	1650	842	29100	20626	13313	992	7460	11557	7,8
SR.43-1730	1730	880	30793	21852	14105	1044	8270	12813	8,1
SR.43-1810	1810	918	32488	23080	14897	1097	9122	14132	8,5
SR.43-1890	1890	970	33053	23403	15106	1132	9713	15048	8,9
SR.43-1970	1970	1008	34745	24628	15896	1184	10634	16476	9,3