

> DSC

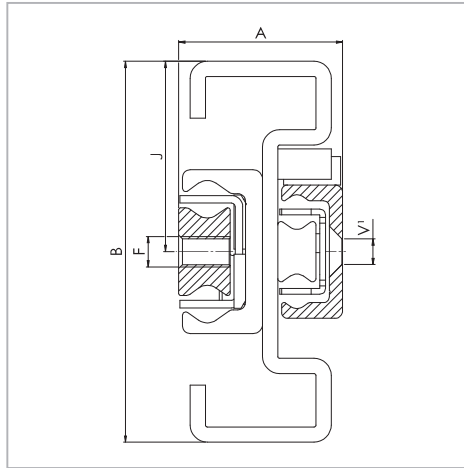


Fig. 47 Fixing holes (V) for countersunk head screws according to DIN 7991

Type	Size	Cross-section					Weight per single guide [kg/m]
		A [mm]	B [mm]	J [mm]	F [mm]	V' [mm]	
DSC	43	43	100	50	M8	M6	13,4

Tab. 24

> DE

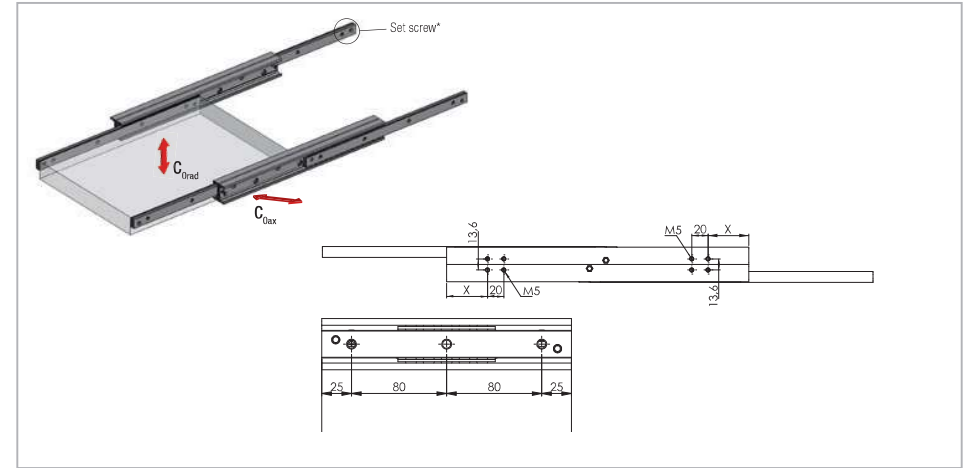


Fig. 48 * Remove the set screw to reach all the fixing holes. See also assembly instructions on page TR-45f.

Type	Size	Length L [mm]	Stroke H [mm]	Load capacity for a pair of rails		No. of holes
				C _{rad} [N]	C _{max} [N]	
DEF DEV DEM	22	130	152	238	166	2
		210	222	562	392	3
		290	308	780	546	4
		370	392	1002	526	5
		450	462	1348	460	6
		530	548	1142	386	7
		610	632	988	334	8
		690	702	906	306	9
		770	788	802	270	10

Tab. 25

Type	Size	Length L [mm]	Stroke H [mm]	Load capacity for a pair of rails		No. of holes
				C _{rad} [N]	C _{max} [N]	
DEF DEV DEM	28	130	148	470	328	2
		210	232	864	604	3
		290	296	1534	1074	4
		370	380	1936	942	5
		450	464	2338	770	6
		530	548	2214	650	7
		610	633	1910	560	8
		690	717	1684	494	9
		770	801	1506	442	10
		850	866	1420	416	11
		930	950	1292	378	12
		1010	1034	1184	348	13
		1090	1118	1094	320	14
		1170	1202	1016	298	15

Tab. 26

Type	Size	Length L [mm]	Stroke H [mm]	Load capacity for a pair of rails		No. of holes
				C _{load} [N]	C _{max} [N]	
DEF DEV DEM	35	210	254	804	562	3
		290	318	1600	1120	4
		370	406	2050	1436	5
		450	494	2500	1586	6
		530	558	3370	1456	7
		610	646	3816	1252	8
		690	734	3378	1096	9
		770	798	3182	1032	10
		850	886	2850	926	11
		930	974	2582	838	12
		1010	1038	2466	800	13
		1090	1126	2262	734	14
		1170	1214	2090	678	15
		1250	1278	2012	654	16
1330	1366	1874	608	17		
1410	1454	1754	570	18		
1490	1518	1700	552	19		

Tab. 27

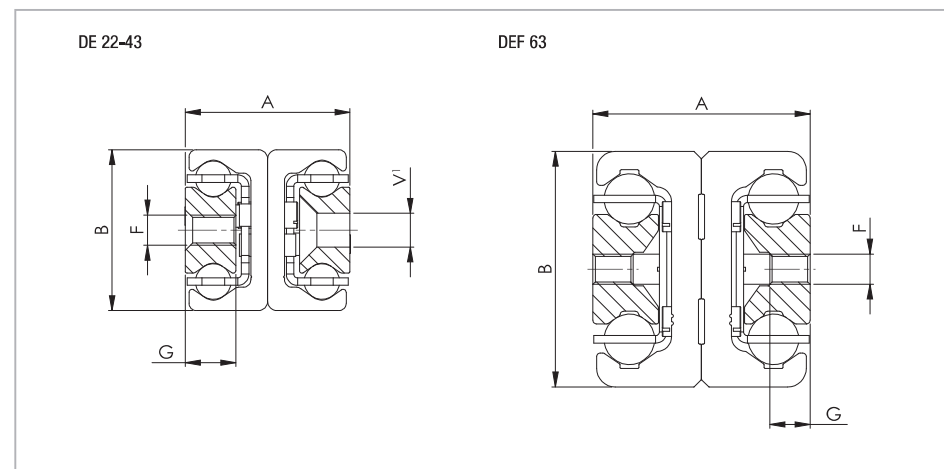
Type	Size	Length L [mm]	Stroke H [mm]	Load capacity for a pair of rails		No. of holes
				C _{load} [N]	C _{max} [N]	
DEF	63	610	666	8180	5726	8
		690	746	9718	6124	9
		770	826	11270	5568	10
		850	906	12830	5106	11
		930	986	14396	4714	12
		1010	1066	13770	4378	13
		1090	1146	12854	4086	14
		1170	1226	12052	3832	15
		1250	1306	11344	3606	16
		1330	1386	10714	3406	17
		1410	1466	10152	3228	18
		1490	1546	9644	3066	19
		1570	1626	9186	2920	20
		1650	1706	8768	2788	21
		1730	1786	8388	2666	22
		1810	1866	8038	2556	23
		1890	1946	7718	2454	24
1970	2026	7420	2360	25		

Tab. 29

Type	Size	Length L [mm]	Stroke H [mm]	Load capacity for a pair of rails		No. of holes
				C _{load} [N]	C _{max} [N]	
DEF DEV DEM	43	210	246	1210	848	3
		290	316	2228	1560	4
		370	416	2600	1820	5
		450	486	3656	2558	6
		530	556	4750	2868	7
		610	626	5868	2600	8
		690	726	6182	2192	9
		770	796	6110	2032	10
		850	866	5694	1892	11
		930	966	5012	1666	12
		1010	1036	4728	1572	13
		1090	1106	4476	1488	14
		1170	1206	4044	1344	15
		1250	1276	3856	1282	16
		1330	1376	3532	1174	17
		1410	1446	3388	1126	18
		1490	1516	3256	1082	19
1570	1586	3134	1042	20		
1650	1686	2916	970	21		
1730	1756	2818	936	22		
1810	1856	2640	878	23		
1890	1926	2560	850	24		
1970	2026	2412	802	25		

Tab. 28

> DE



* Fixing holes (V) for countersunk head screws according to DIN 7991

Fig. 49

Type	Size	Cross-section					Weight per single guide [kg/m]
		A [mm]	B [mm]	G [mm]	F	V	
DEF DEV DEM	22	22	22	6,5	M4	M4	2,64
	28	26	28	7,5	M5	M5	4,04
	35	34	35	10	M6	M6	6,10
	43	44	43	13,5	M8	M8	10,50
	63	58	63	10,5	M8	-	20,60

Tab. 30

Please note the technical information "Double-sided stroke" on page TR-42

There are three options for mounting holes available for the DE series in sizes 22 to 43:

Version DEF with threaded holes,

Version DEV with counter-sunk holes,

Version DEM, both variants (mixed) (see fig. 52).

Size 63 is only available with threaded holes.

> DE...S

...S version with reinforced and damped stainless steel end stops

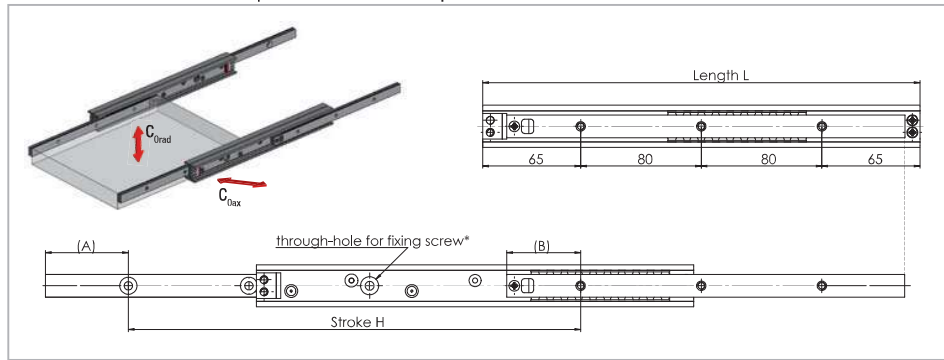


Fig. 50

Type	Size	Length L [mm]	Stroke H [mm]	Load capacity for a pair of rails		Slider [mm]	A [mm]	B [mm]	No of holes
				C _{Orad} [N]	C _{Oax} [N]				
DE...S	28	290	300	704	494	264	55	49	3
		370	384	1084	758	344			4
		450	468	1470	756	424			5
		530	533	2100	686	504			6
		610	636	1892	556	584			7
		690	701	1760	516	664			8
		770	804	1494	438	744			9
		850	850	1474	432	824			10
		930	953	1284	376	904			11
		1010	1018	1222	358	984			12
		1090	1102	1124	330	1064			13
		1170	1186	1042	306	1144			14

Tab. 31

Type	Size	Length L [mm]	Stroke H [mm]	Load capacity for a pair of rails		Slider [mm]	A [mm]	B [mm]	No of holes
				C _{Orad} [N]	C _{Oax} [N]				
DE...S	35	370	370	1430	1000	338	53	45	4
		450	464	1788	1252	418			5
		530	536	2476	1574	498			6
		610	630	2832	1312	578			7
		690	702	3540	1194	658			8
		770	796	3198	1038	738			9
		850	868	2966	962	818			10
		930	962	2644	858	898			11
		1010	1012	2592	842	978			12
		1090	1128	2254	732	1058			13
		1170	1178	2216	720	1138			14
		1250	1272	2030	660	1218			15
		1330	1344	1936	628	1298			16
		1410	1438	1792	582	1378			17
1490	1510	1718	558	1458	18				

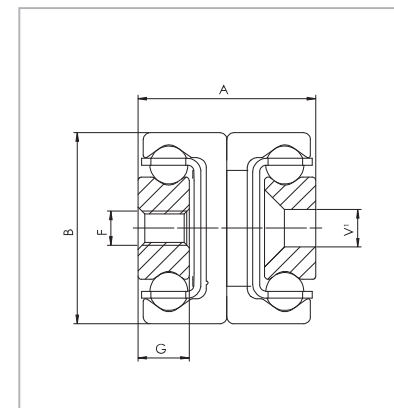
Tab. 32

Type	Size	Length L [mm]	Stroke H [mm]	Load capacity for a pair of rails		Slider [mm]	A [mm]	B [mm]	No of holes
				C _{Orad} [N]	C _{Oax} [N]				
DE...S	43	370	366	2014	1410	338	53	45	4
		450	496	1864	1306	418			5
		530	536	3418	2394	498			6
		610	636	3796	2522	578			7
		690	706	4838	2312	658			8
		770	806	5206	1982	738			9
		850	846	5964	1982	818			10
		930	976	4914	1634	898			11
		1010	1016	4914	1634	978			12
		1090	1116	4398	1462	1058			13
		1170	1186	4178	1390	1138			14
		1250	1286	3798	1262	1218			15
		1330	1326	3798	1262	1298			16
		1410	1456	3344	1112	1378			17
		1490	1496	3344	1112	1458			18
		1570	1596	3096	1030	1538			19
		1650	1666	2986	992	1618			20
		1730	1766	2786	926	1698			21
		1810	1806	2786	926	1778			22
		1890	1936	2534	842	1858			23
		1970	2066	2322	772	1938			24

Tab. 33

> DE...S

...S version with reinforced and damped stainless steel end stops



¹ Fixing holes (V) for countersunk head screws according to DIN 7991 Fig. 51

Type	Size	Cross-section					Weight per single guide [kg/m]
		A [mm]	B [mm]	G [mm]	F	V	
DE...S	28	26	28	7,5	M5	M5	4,04
	35	34	35	10	M6	M6	6,10
	43	44	43	13,5	M8	M8	10,50

Tab. 34

> DE...D

DED with double direction stroke (double stroke)

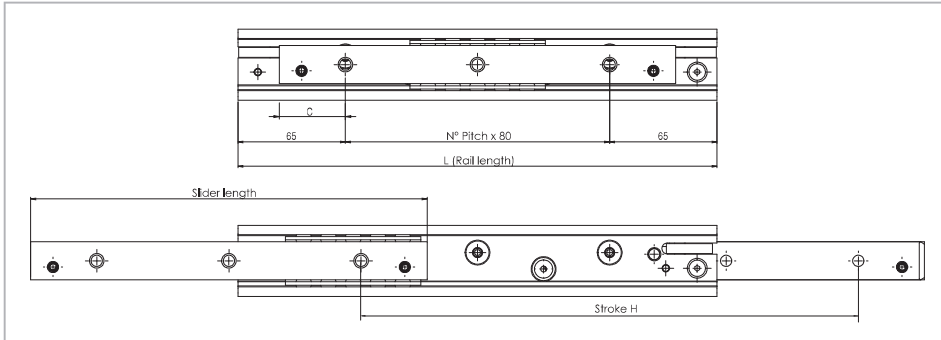


Fig. 52

D version (with a driving disc)

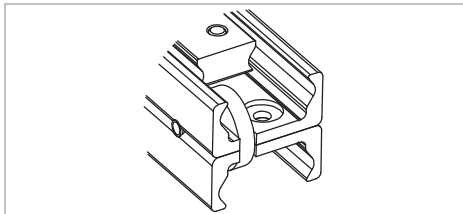


Fig. 53

The driving disc in the intermediate element in the DE...D versions acts to make sure that in bilateral strokes (double strokes) the intermediate element always returns to the correct position and does not remain in an undefined position. This design is available in sizes 28, 35, 43 and 63 with all three versions of the fixing holes. This version is based on the standard DE series version, but differs in the technical characteristics for the construction methods. Please contact our technical service department for more information.

Type	Size	Length L [mm]	Stroke H [mm]	Load capacity for a pair of rails		Slider [mm]	C [mm]	No. of holes
				C _{ind} [N]	C _{fix} [N]			
DEF...D DEV...D DEM...D	28	290	292	836	586	250	45	3
		370	376	1224	856	330	45	4
		450	460	1618	782	410	45	5
		530	544	2014	658	490	45	6
		610	628	1940	570	570	45	7
		690	712	1706	500	650	45	8
		770	796	1524	448	730	45	9
		850	880	1376	404	810	45	10
		930	964	1256	368	890	45	11
		1010	1048	1154	338	970	45	12
		1090	1132	1068	314	1050	45	13
		1170	1216	992	292	1130	45	14

Tab. 35

Type	Size	Length L [mm]	Stroke H [mm]	Load capacity for a pair of rails		Slider [mm]	C [mm]	No. of holes
				C _{ind} [N]	C _{fix} [N]			
DEF...D DEV...D DEM...D	35	290	303	890	624	250	45	3
		370	391	1322	926	330	45	4
		450	479	1760	1232	410	45	5
		530	543	2562	1534	490	45	6
		610	631	3012	1308	570	45	7
		690	719	3460	1140	650	45	8
		770	783	3302	1072	730	45	9
		850	871	2946	956	810	45	10
		930	959	2660	864	890	45	11
		1010	1023	2536	824	970	45	12
		1090	1111	2322	754	1050	45	13
		1170	1199	2140	694	1130	45	14

Tab. 36

Type	Size	Length L [mm]	Stroke H [mm]	Load capacity for a pair of rails		Slider [mm]	C [mm]	No. of holes
				C _{ind} [N]	C _{fix} [N]			
DED...D DEV...D DEN...D	43	290	301	1002	702	240	40	3
		370	401	1400	980	320	40	4
		450	471	2318	1622	400	40	5
		530	541	3312	2318	480	40	6
		610	641	3696	2484	560	40	7
		690	711	4724	2280	640	40	8
		770	781	5784	2108	720	40	9
		850	881	5506	1830	800	40	10
		930	951	5166	1718	880	40	11
		1010	1021	4866	1618	960	40	12
		1090	1121	4360	1450	1040	40	13
		1170	1191	4144	1378	1120	40	14
		1250	1261	3948	1312	1200	40	15
		1330	1361	3608	1200	1280	40	16
		1410	1431	3458	1150	1360	40	17
		1490	1501	3322	1104	1440	40	18
		1570	1601	3076	1024	1520	40	19
		1650	1671	2968	986	1600	40	20
		1730	1741	2866	952	1680	40	21
		1810	1841	2682	892	1760	40	22
		1890	1911	2600	864	1840	40	23
		1970	2011	2448	814	1920	40	24

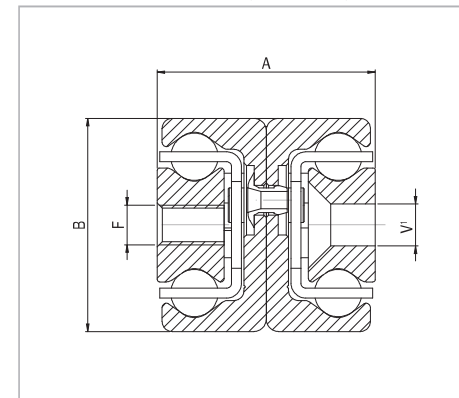
Tab. 37

Type	Size	Length L [mm]	Stroke H [mm]	Load capacity for a pair of rails		Slider [mm]	C [mm]	No. of holes
				C _{ind} [N]	C _{fix} [N]			
DEF...D	63	610	602	7688	5382	558	39	7
		690	682	9236	6466	638	39	8
		770	762	10796	6514	718	39	9
		850	842	12362	5890	798	39	10
		930	922	13934	5374	878	39	11
		1010	1002	15512	4942	958	39	12
		1090	1082	14386	4574	1038	39	13
		1170	1162	13388	4256	1118	39	14
		1250	1242	12520	3980	1198	39	15
		1330	1322	11758	3738	1278	39	16
		1410	1402	11084	3524	1358	39	17
		1490	1482	10482	3332	1438	39	18
		1570	1562	9942	3160	1518	39	19
		1650	1642	9456	3006	1598	39	20
		1730	1722	9014	2866	1678	39	21
		1810	1802	8612	2738	1758	39	22
		1890	1882	8244	2620	1838	39	23
		1970	1962	7906	2514	1918	39	24

Tab. 38

> DED version D

DED with double direction stroke (double stroke)



* Fixing holes (V) for countersunk head screws according to DIN 7991

Fig. 54

Type	Size	Cross-section				Weight per single guide [kg/m]
		A [mm]	B [mm]	F	V ¹	
DE...D	28	26	28	M5	M5	4.04
	35	34	35	M6	M6	6.10
	43	44	43	M8	M8	10.50
	63	58	63	M8	-	20.60

Tab. 39

There are three options for mounting holes available for the DE...D series in sizes 28 to 43:

- Version DEF with threaded holes,
- Version DEV with counter-sunk holes,
- Version DEM, both variants (mixed).

Size 63 is only available with threaded holes.

> DE...Z

Version Z with synchronized full extension

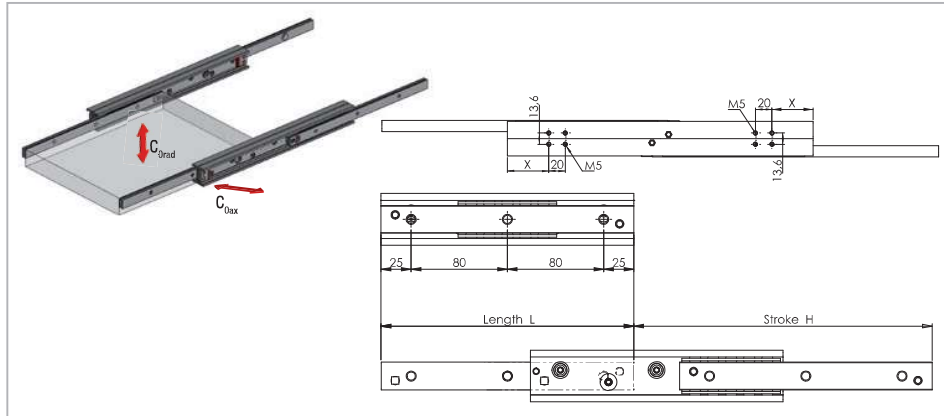


Fig. 55

Type ¹	Size	Length L [mm]	Stroke H [mm]	X	Load capacity for a pair of rails		No. of holes
					C _{grad} [N]	C _{0ax} [N]	
DEF...Z	43	290	243	30	1746	1222	4
		370	323	50	1947	1363	5
		450	403	70	2481	1737	6
		530	483	90	3016	1915	7
		610	563	110	3229	1618	8
		690	643	130	3762	1401	9
		770	723	150	3714	1235	10
		850	803	170	3321	1104	11
		930	883	190	3004	999	12
		1010	963	210	2741	911	13
		1090	1043	230	2521	838	14
		1170	1123	250	2334	776	15
		1250	1203	270	2172	722	16
		1330	1283	290	2032	675	17
		1410	1363	310	1908	634	18
		1490	1443	330	1799	598	19
		1570	1523	350	1701	566	20
1650	1603	370	1614	537	21		
1730	1683	390	1535	510	22		
1810	1763	410	1463	486	23		
1890	1843	430	1398	465	24		
1970	1923	450	1338	445	25		

¹ The synchronized full extension is only available in version F with threaded mounting holes

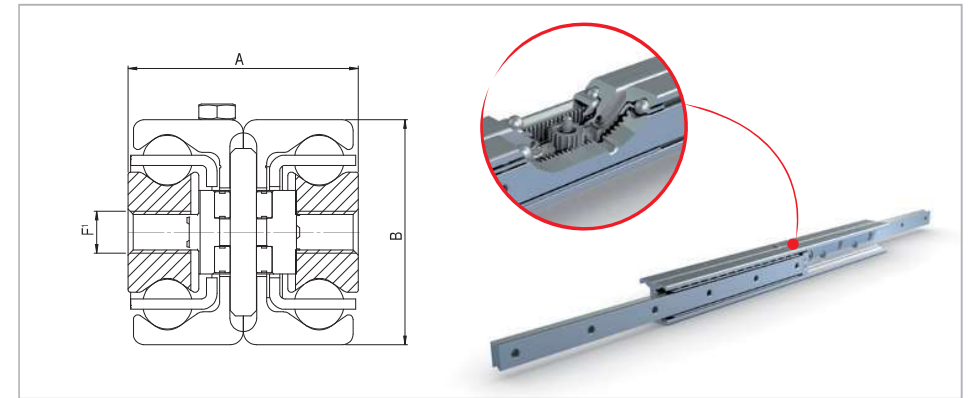
Tab. 40

Z version (with rack and pinion)

The rack and pinion system allows the rail to open starting from the intermediate element, thus permitting a synchronized full extension and guaranteeing a multiplication of the drive (for equal lengths in rail stroke, the drive stroke is cut in half). This version is based on the standard DE series version, but differs in the technical characteristics for the construction methods. Please contact our technical service department for more information.

> DE...Z

DE...Z with double direction stroke (double stroke)



¹ Fixing holes (V) for countersunk head screws according to DIN 7991
* Max shaft length 10mm

Fig. 56

Type	Size	Cross-section			Weight per single guide [kg/m]
		A [mm]	B [mm]	F	
DEF...Z	43	44	43	M8	10,50

Tab. 41

DEF43Z with threaded holes is available in left and right version:

DEF43Z...L

DEF43Z...R