

# ISO 10243 Extra Heavy load Die springs



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Material	Colour	Code									
Special alloy	Yellow	SIMB	DD: Comply with H15 standards DH: Comply with H15 standard The tolerance standard is similar to DIN2095 S1: Long service life compression S2: Average life compression SN: Maximum working stroke Smax: Compaction stroke								
L	T										
25~89	±1mm										
102~305	±1%										
Order NO. (DHxLo)	DH	Do	Lo	R (N/mm)	17%		20%		25%		Travel stroke
					S1	F1	S2	F2	Sn	Fn	
SIMB10x25	10	5	25	36.8	4.3	158	5.0	184	6.3	232	7.7
SIMB10x32			32	27.9	5.4	151	6.4	179	8.0	223	10.6
SIMB10x38			38	23.7	6.5	154	7.6	180	9.5	225	12.6
SIMB10x44			44	19.2	7.5	144	8.8	169	11.0	211	13.8
SIMB10x51			51	16.5	8.7	144	10.2	168	12.8	211	16.2
SIMB10x64			64	13.2	10.9	144	12.8	169	16.0	211	20.4
SIMB10x76			76	10.9	12.9	141	15.2	166	19.0	207	25.2
SIMB10x305			305	2.6	51.9	135	61.0	159	76.3	198	110.8
SIMB12.5x25	12.5	6.3	25	58.5	4.3	252	5.0	293	6.3	369	8.1
SIMB12.5x32			32	43.9	5.4	237	6.4	281	8.0	351	9.9
SIMB12.5x38			38	36.0	6.5	234	7.6	274	9.5	342	12.9
SIMB12.5x44			44	30.3	7.5	227	8.8	267	11.0	333	14.1
SIMB12.5x51			51	26.2	8.7	228	10.2	267	12.8	335	17.4
SIMB12.5x64			64	21.2	10.9	231	12.8	271	16.0	339	21.0
SIMB12.5x76			76	17.1	12.9	221	15.2	260	19.0	325	26.4
SIMB12.5x89			89	14.5	15.1	219	17.8	258	22.3	323	31.5
SIMB12.5x305			305	4.3	51.9	223	61.0	262	76.3	328	111.3

Order NO. (DHxLo)	DH	Do	Lo	R (N/mm)	17%		20%		25%		Travel stroke
					S1	F1	S2	F2	Sn	Fn	
SIMB16x25	16	8	25	118.0	4.3	507	5.0	590	6.3	743	8.5
SIMB16x32			32	89.0	5.4	481	6.4	570	8.0	712	11.0
SIMB16x38			38	72.1	6.5	469	7.6	548	9.5	685	13.2
SIMB16x44			44	60.9	7.5	457	8.8	536	11.0	670	14.7
SIMB16x51			51	52.3	8.7	455	10.2	533	12.8	669	17.7
SIMB16x64			64	41.2	10.9	449	12.8	527	16.0	659	21.9
SIMB16x76			76	34.1	12.9	440	15.2	518	19.0	648	27.8
SIMB16x89			89	29.5	15.1	445	17.8	525	22.3	658	31.2
SIMB16x102			102	25.6	17.3	443	20.4	522	25.5	653	37.9
SIMB16x305			305	8.4	51.9	436	61.0	512	76.3	641	113.5
SIMB20x25			20	10	25	293.0	4.3	1260	5.0	1465	6.3
SIMB20x32	32	224.0			5.4	1210	6.4	1434	8.0	1792	9.4
SIMB20x38	38	177.0			6.5	1151	7.6	1345	9.5	1682	12.0
SIMB20x44	44	149.0			7.5	1118	8.8	1311	11.0	1639	13.5
SIMB20x51	51	128.0			8.7	1114	10.2	1306	12.8	1638	16.2
SIMB20x64	64	99.0			10.9	1079	12.8	1267	16.0	1584	21.2
SIMB20x76	76	81.7			12.9	1054	15.2	1242	19.0	1552	24.7
SIMB20x89	89	69.5			15.1	1049	17.8	1237	22.3	1550	28.8
SIMB20x102	102	60.6			17.3	1048	20.4	1236	25.5	1545	34.8
SIMB20x115	115	53.0			19.6	1039	23.0	1219	28.8	1526	39.0
SIMB20x127	127	47.5			21.6	1026	25.4	1207	31.8	1511	43.0
SIMB20x139	139	43.0			23.8	1023	28.0	1204	35.0	1505	45.3
SIMB20x152	152	39.0			25.8	1006	30.4	1186	38.0	1482	50.4
SIMB20x305	305	21.2			51.9	1100	61.0	1293	76.3	1618	103.5
SIMB25x25	25	12.5	25	459.0	4.3	1974	5.0	2295	6.3	2892	7.3
SIMB25x32			32	374.4	5.4	2022	6.4	2396	8.0	2995	10.7
SIMB25x38			38	346.0	6.5	2249	7.6	2630	9.5	3287	12.0
SIMB25x44			44	244.0	7.5	1830	8.8	2147	11.0	2684	14.4
SIMB25x51			51	207.5	8.7	1805	10.2	2117	12.8	2656	17.4
SIMB25x64			64	161.0	10.9	1755	12.8	2061	16.0	2576	21.4
SIMB25x76			76	130.8	12.9	1687	15.2	1988	19.0	2485	26.9
SIMB25x89			89	110.5	15.1	1669	17.8	1967	22.3	2464	30.9
SIMB25x102			102	96.3	17.3	1666	20.4	1965	25.5	2456	36.7
SIMB25x115			115	85.7	19.6	1680	23.0	1971	28.8	2468	40.3
SIMB25x127			127	76.3	21.6	1648	25.4	1938	31.8	2426	45.1

SIMB25x139			139	68.9	23.8	1640	28.0	1929	35.0	2412	47.6		
SIMB25x152			152	63.5	25.8	1638	30.4	1930	38.0	2413	53.5		
SIMB25x178			178	53.9	30.3	1633	35.6	1919	44.5	2399	63.9		
SIMB25x203			203	47.0	34.5	1622	40.6	1908	50.8	2388	70.2		
SIMB25x305			305	30.9	51.9	1604	61.0	1885	76.3	2358	110.1		
Order NO. (DHxLo)	DH	Do	Lo	R (N/mm)	17%		20%		25%		Travel stroke		
					S1	F1	S2	F2	Sn	Fn			
SIMB32x38	32	16	38	528.2	6.5	3433	7.6	4014	9.5	5018	11.4		
SIMB32x44					44	424.4	7.5	3183	8.8	3735	11.0	4668	13.7
SIMB32x51					51	353.0	8.7	3071	10.2	3601	12.8	4518	15.6
SIMB32x64					64	269.2	10.9	2934	12.8	3446	16.0	4307	20.0
SIMB32x76					76	218.5	12.9	2819	15.2	3321	19.0	4152	24.4
SIMB32x89					89	180.3	15.1	2723	17.8	3209	22.3	4021	29.7
SIMB32x102					102	155.0	17.3	2682	20.4	3162	25.5	3953	35.1
SIMB32x115					115	140.0	19.6	2744	23.0	3220	28.8	4032	39.0
SIMB32x127					127	124.0	21.6	2678	25.4	3150	31.8	3943	42.8
SIMB32x139					139	112.3	23.8	2673	28.0	3144	35.0	3931	48.6
SIMB32x152					152	102.0	25.8	2632	30.4	3101	38.0	3876	52.4
SIMB32x178					178	88.2	30.3	2672	35.6	3140	44.5	3925	60.9
SIMB32x203					203	76.0	34.5	2622	40.6	3086	50.8	3861	69.2
SIMB32x254					254	60.8	43.2	2627	50.8	3089	63.5	3861	88.1
SIMB32x305					305	49.0	51.9	2543	61.0	2989	76.3	3739	104.2
SIMB40x51			40	20	51	628.0	8.7	5464	10.2	6406	12.8	8038	15.0
SIMB40x64					64	487.0	10.9	5308	12.8	6234	16.0	7792	19.5
SIMB40x76					76	379.0	12.9	4889	15.2	5761	19.0	7201	23.3
SIMB40x89					89	321.0	15.1	4847	17.8	5714	22.3	7158	26.7
SIMB40x102					102	281.0	17.3	4861	20.4	5732	25.5	7166	33.8
SIMB40x115					115	245.0	19.6	4802	23.0	5635	28.8	7056	36.2
SIMB40x127					127	221.0	21.6	4774	25.4	5613	31.8	7028	40.7
SIMB40x139					139	190.0	23.8	4522	28.0	5320	35.0	6650	44.5
SIMB40x152					152	168.0	25.8	4334	30.4	5107	38.0	6384	49.6
SIMB40x178					178	146.0	30.3	4424	35.6	5198	44.5	6497	59.9
SIMB40x203					203	132.0	34.5	4554	40.6	5359	50.8	6706	67.1
SIMB40x254					254	107.0	43.2	4622	50.8	5436	63.5	6795	86.3
SIMB40x305					305	87.8	51.9	4557	61.0	5356	76.3	6699	103.6

Order NO. (DHxLo)	DH	Do	Lo	R (N/mm)	17%		20%		25%		Travel stroke
					S1	F1	S2	F2	Sn	Fn	
SIMB50x64	50	25	64	709.0	10.9	7728	12.8	9075	16.0	11344	19.3
SIMB50x76			76	572.0	12.9	7379	15.2	8694	19.0	10868	24.2
SIMB50x89			89	475.0	15.1	7173	17.8	8455	22.3	10593	28.0
SIMB50x102			102	405.0	17.3	7007	20.4	8262	25.5	10328	33.5
SIMB50x115			115	352.0	19.6	6899	23.0	8096	28.8	10138	38.6
SIMB50x127			127	316.0	21.6	6826	25.4	8026	31.8	10049	41.4
SIMB50x139			139	274.0	23.8	6521	28.0	7672	35.0	9590	47.3
SIMB50x152			152	239.0	25.8	6166	30.4	7266	38.0	9082	50.2
SIMB50x178			178	215.0	30.3	6515	35.6	7654	44.5	9568	61.1
SIMB50x203			203	187.0	34.5	6452	40.6	7592	50.8	9500	67.7
SIMB50x254			254	153.0	43.2	6610	50.8	7772	63.5	9716	87.0
SIMB50x305			305	127.0	51.9	6591	61.0	7747	76.3	9690	103.4
SIMB63x76			63	38	76	952.0	12.9	12280	15.2	14470	-
SIMB63x89	89	819.0			15.1	12360	17.8	14580	-	-	20.0
SIMB63x102	102	700.0			17.3	12110	20.4	14280	25.5	17850	30.7
SIMB63x115	115	620.0			19.6	12152	23.0	14260	28.8	17860	34.9
SIMB63x127	127	656.0			21.6	12204	25.4	14351	31.8	17967	38.0
SIMB63x152	152	458.0			25.8	11816	30.4	13923	38.0	17404	47.2
SIMB63x178	178	384.0			30.3	11635	35.6	13670	44.5	17088	55.8
SIMB63x203	203	337.0			34.5	11627	40.6	13682	50.8	17120	64.8
SIMB63x254	254	263.0			43.2	11362	50.8	13360	63.5	16701	86.7
SIMB63x305	305	218.0			51.9	11314	61.0	13298	76.3	16633	105.7