

Khodiyar



An ISO certified company



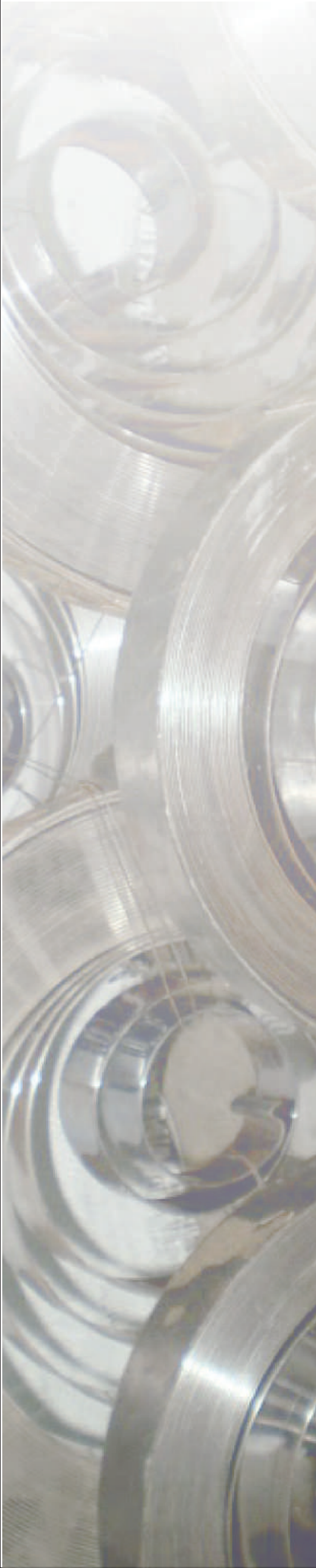
OUR PRODUCTS

- Compression Springs
- Disc Spring
- Volute Springs
- Die Springs
- Torsion Springs
- Spiral Springs
- Wave Spring Washers
- Shaped Wire Springs
- Barrel Springs
- Tension Spring



KHODIYAR SPRING INDUSTRIES

079 - 22870355; 22875755
contact@khodiyarspring.com
www.khodiyarspring.com



Since inception, Khodiyar spring has grown to become industry's superior and self-governing spring industry, which is a testimony to our excellent fabrication, commitment and service to you. We offer a great range of the products to work with your need and budget.

We step ahead under the successful guidance of Mr. Ravindra D. Bambhroliya and Mr. Govind N. Babariya. The company has earned appreciated recognition as one of the trusted compression spring manufacturer, exporter and supplier in India.

Our involvement with the industry and customers goes back a long way. We believe strongly in supporting the industry and doing everything we can build a study base of consistency.

Since our inception we have been instrumental in the completion of many projects from the conception stage through to detail drawings. We have a well-equipped workshop that allows us to fabricate the special purpose springs and prototypes. Our focus is placed on the design and manufacture of springs to meet the requirements of diverse industries. Range of highly sophisticated manufacturing equipments ensures minimal down time.

The professional engineers are effectively monitoring every aspect of the manufacturing process. Our team of talented executives remains up-to-date with the latest market trend.

Best of the organization

- Finely coordinate management
- Well managed infrastructure
- Spacious workshop
- Well equipped warehouse
- Smart and punctual customization
- Efficient Product Range
- Qualified professionals
- Experienced man-power
- Global Clientele
- Advance technology
- High-tech machinery
- Computerized designs

Team

We possess the qualified professional team, which works with dedication and coordination. Due to effective execution of our efficient team, we are able to meet the requirement of our customers.

OUR PRODUCTS



Compression Springs



Torsion Springs



Wire Forms



Tension Springs



Disc Springs



Die Springs



Volute Springs



Barrel Springs



Spiral Springs



Wave Washer Springs

Shape Wire For Spring



KHODIYAR SPRING INDUSTRIES is supplier of shaped wire in India. We offer best quality shaped wire in different size and grade.

Key Parameters :

Delivery state : cold rolling, cold rolling - tempering, low relaxation

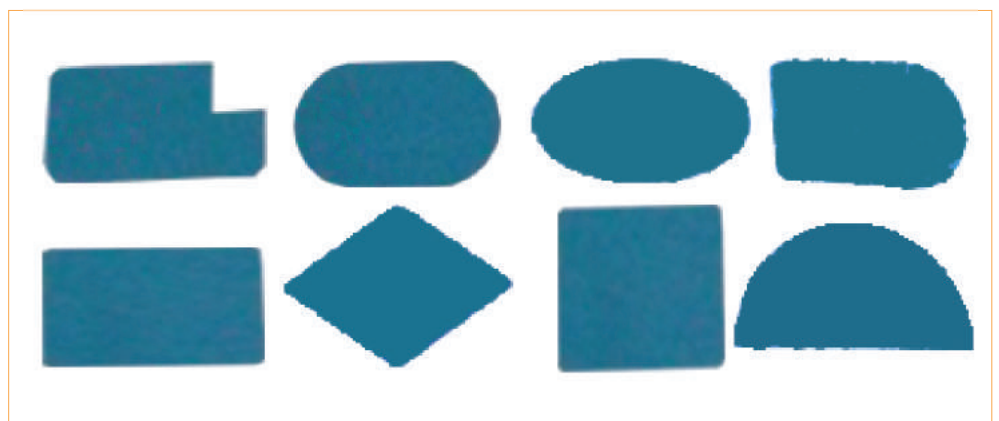
Use : mould and die spring, window regulators, chair handle adjuster, seal ring, piston ring, snap ring, spring washer and mechanical spring

Executive standard : Enterprise Standard, American Standard ASTM A905 - 2004.

Grade : 50CrV, 55CrSi, 8Cr17Mov, 6Cr13Mo, SAE9254V, 60Si2Mn, SWRH72A, SUS304, SUS316, 65Mn, etc.

Size : Thickness (0.2 -8.0mm)

Width : (0.3 -18.0mm)







MATERIAL WE USE

Material	UNS	ASTM	SAE / AISI	AMS	SAE	EN	FED	JIS	DIN	BS	
Stainless T302	S30200	A-313	302	5688	J230	10270-3	QQ-S-763	G4314	17224	2056	
Stainless T304	S30400	A-313	304	5688		10270-3	QQ-S-763	G4314	17224	2056	
Stainless T316	S31600	A-313	316			10270-3	QQ-S-763	G4314	17224	2056	
Stainless T17 - 7 (631)	S17700	A-313	17-7 PH	5678	J217			G4314			
Music Wire	K08500	A-228			J178	10270-1		G3522	2076 17223 Part 1 Grade B	5216 Type M	
Music Wire Valve	K08500	A-313						SWP-A-/ SWP - B G3522-SWP-V			
Hard Drawn MB Class I	K06501	A-227/764			J113	10270-1	QQ-W-428	G3521 SWB	2076 17223	5216	
Hard Drawn MB Class II (Phos / Brite ASTM-A-227; Galv.ASTM-A-	K06501	A-227/764			J113	10270-1	Type -		Part 1 Grades A(I) & B (II)	Types NS / HS Grd.2 & 3	
Hard Drawn MB Class III	K08200	A-679			J271	10270-1			Grade C		
Phosphor Bronze Grade A	C51000	B - 159					QQ-B-750	H3751PBP1		2873	
Oil Tempered MB Class I	K07001	A-229 (I)	1065		J316 Cl.I	10270-2	QQ-W-428B Type 1,Cl.II	G3560 SWO - A	2076 17223 Part 2	2803 095A65	
Oil Tempered MB Class II	K07001	A-229 (II)	1065		J316 Cl.II	10270-2	Type I,Cl.II	G3560 SWO - A	FD	NS	
O.T.Chrome Silicon Comm.	K15590	A-401	9254	6451	J157	10270-2			2076 17223 Part 2 FD Socr	2803 685A55 HS	
O.T.Chrome Silicon Valve.	G92540	A-877	9254			10270-2		G3561 SWOSC - V	2076 17223 Part 2 FD Socr	2803 685A55 HD	
IS4454 - Grade 1, Grade 2, Grade 3											
Inconel - X 750, 718				INCOLOY				Hastell07			





ISO standard

IG LIGHT LOAD GREEN

Code	OD	ID	L	R	 25% 3.000.000		 30% 1.500.000		 40% 200.000		
					mm	N/mm	mm	N	mm	N	
IG 10 x 25	10	5	25	10.5	6.3	66	7.5	79	10.0	105	12.5
IG 10 x 32			32	8.9	8.0	71	9.6	85	12.8	114	17.0
IG 10 x 38			38	7.1	9.5	68	11.4	81	15.2	108	20.0
IG 10 x 44			44	6.3	11.0	69	13.2	83	17.6	111	22.8
IG 10 x 51			51	5.2	12.8	67	15.3	80	20.4	106	26.5
IG 10 x 64			64	4.5	16.0	72	19.2	86	25.6	115	33.3
IG 10 x 76			76	3.4	19.0	65	22.8	76	30.4	103	39.5
IG 10 x 89			89	3.0	22.3	67	26.7	80	35.6	107	46.3
IG 10 x 305			305	1.0	76.3	84	91.5	92	122.0	122	160.0
IG 12.5 x 25			12.5	6.3	25	18.8	6.3	118	7.5	141	10.0
IG 12.5 x 32	32	17.2			8.0	138	9.6	165	12.8	220	16.0
IG 12.5 x 38	38	14.3			9.5	136	11.4	163	15.2	217	19.8
IG 12.5 x 44	44	12.7			11.0	140	13.2	168	17.6	224	23.0
IG 12.5 x 51	51	12.0			12.8	154	15.3	184	20.4	245	27.5
IG 12.5 x 64	64	9.8			16.0	157	19.2	188	25.6	251	34.5
IG 12.5 x 76	76	7.5			19.0	143	22.8	171	30.4	228	41.0
IG 12.5 x 89	89	5.7			22.3	127	26.7	152	35.6	203	48.0
IG 12.5 x 102	102	4.3			25.5	110	30.6	132	40.8	175	55.0
IG 12.5 x 115	115	3.1			28.8	89	34.5	107	46.0	143	62.1
IG 12.5 x 305	305	1.5	76.3	107	91.5	137	122.0	183	165.0		
IG 16 x 25	16	8	25	25.0	6.3	158	7.5	188	10.0	250	11.8
IG 16 x 32			32	23.0	8.0	184	9.6	221	12.8	294	16.0
IG 16 x 38			38	19.4	9.5	185	11.4	222	15.2	296	19.0
IG 16 x 44			44	17.0	11.1	187	13.2	224	17.6	299	22.0
IG 16 x 51			51	15.0	12.8	192	15.3	230	20.4	306	25.5
IG 16 x 64			64	11.0	16.0	176	19.2	211	25.6	282	32.0
IG 16 x 76			76	10.0	19.0	190	22.8	228	30.4	304	38.0
IG 16 x 89			89	8.5	22.3	190	26.7	194	35.6	303	45.0
IG 16 x 102			102	7.6	25.5	194	30.6	233	40.8	299	52.0
IG 16 x 115			115	6.5	28.8	188	34.5	224	46.0	300	58.0
IG 16 x 127	127	5.9	31.8	188	38.1	225	50.8	305	64.0		
IG 16 x 305	305	2.5	76.3	191	91.5	229	122.0	562	158.0		
IG 20 x 25	20	10	25	56.2	6.3	354	7.5	422	10.0	580	12.0
IG 20 x 32			32	45.3	8.0	362	9.6	435	12.8	514	15.3
IG 20 x 38			38	33.8	9.5	321	11.4	385	15.2	546	18.6
IG 20 x 44			44	31.0	11.1	341	13.2	409	17.6	520	21.5
IG 20 x 51			51	25.5	12.8	326	15.3	390	20.4	538	25.0
IG 20 x 64			64	21.0	16.0	336	19.2	403	25.6	517	31.3
IG 20 x 76			79	17.0	19.0	323	22.8	388	30.4	534	37.3
IG 20 x 89			89	15.0	22.3	335	26.7	401	35.6	518	43.6
IG 20 x 102			102	12.7	25.5	324	30.6	389	40.8	529	50.0
IG 20 x 115			115	11.5	28.8	331	34.5	397	46.0	513	57.5
IG 20 x 127	127	10.1	31.8	321	38.1	385	50.8	504	63.5		
IG 20 x 139	139	9.0	35.0	315	42.0	378	56.0	486	71.0		
IG 20 x 152	152	8.1	38.0	308	45.6	369	60.8	520	77.5		
IG 20 x 178	178	7.3	44.5	325	53.4	390	71.2	500	90.7		
IG 20 x 305	305	4.1	76.3	313	91.5	375	122.0	950	158.0		
IG 25 x 25	25	12.5	25	95.0	6.3	599	7.5	712	10.0	960	11.3
IG 25 x 32			32	75.0	8.0	600	9.6	720	12.8	927	15.5
IG 25 x 38			38	61.0	9.5	580	11.4	695	15.2	919	17.8
IG 25 x 44			44	52.2	11.0	574	13.2	689	17.6	898	21.0
IG 25 x 51			51	44.0	12.8	563	15.3	673	20.4	901	24.3
IG 25 x 64			64	35.2	16.3	574	19.2	676	25.6	860	31.0
IG 25 x 76			76	28.3	19.0	538	22.8	645	30.4	901	37.2
IG 25 x 89			89	24.4	22.3	544	26.7	651	35.6	869	43.1
IG 25 x 102			102	21.5	25.5	548	30.6	658	40.8	877	51.0





ISO standard

IG LIGHT LOAD GREEN

Code	OD	ID	L	R	 25%		 30%		 40%		
					3.000.000	N	1.500.000	N	200.000	N	
			mm	N/mm	mm	N	mm	N	mm	N	mm
IG 25 x 115	25	12.5	115	18.9	28.8	544	34.5	652	46.0	869	58.0
IG 25 x 127			127	16.8	31.8	534	38.1	640	50.8	853	63.8
IG 25 x 139			139	15.5	35.0	542	42.0	651	56.0	868	70.0
IG 25 x 152			152	14.1	38.0	536	45.6	643	60.8	857	76.2
IG 25 x 178			178	12.5	44.5	556	53.4	668	71.2	890	92.6
IG 25 x 203			203	10.5	50.8	533	60.9	639	81.2	853	101.5
IG 25 x 305			305	7.1	76.3	541	91.5	650	122.0	866	156.0
IG 32 x 38			32	16	38	92.5	9.5	879	11.4	1055	15.2
IG 32 x 44	44	79.5			11.0	875	13.2	1049	17.6	1399	21.1
IG 32 x 51	51	69.4			12.8	888	15.3	1062	20.4	1416	25.2
IG 32 x 64	64	53.2			16.0	851	19.2	1021	25.6	1362	31.5
IG 32 x 76	76	44.6			19.0	847	22.8	1017	30.4	1356	38.0
IG 32 x 89	89	37.5			22.3	836	26.7	1001	35.6	1335	46.0
IG 32 x 102	102	32.4			25.5	826	30.6	991	40.8	1322	53.0
IG 32 x 115	115	29.2			28.8	841	34.5	1007	46.0	1343	59.5
IG 32 x 127	127	25.3			31.8	805	38.1	964	50.8	1285	66.0
IG 32 x 139	139	23.2			35.0	812	42.0	974	56.0	1299	71.0
IG 32 x 152	152	21.8			38.0	824	45.6	994	60.8	1325	78.0
IG 32 x 178	178	18.5			44.5	823	53.4	988	71.2	1317	94.0
IG 32 x 203	203	16.0			50.8	813	60.9	974	81.2	1299	106.1
IG 32 x 254	254	12.8			63.5	813	76.2	975	101.6	1300	135.0
IG 32 x 305	305	10.5			76.3	801	91.5	961	122.0	1281	159.0
IG 40 x 51	40	20			51	92.5	12.8	1184	15.3	1415	20.4
IG 40 x 64			64	73.5	16.0	1176	19.2	1411	25.6	1882	31.4
IG 40 x 76			76	63.5	19.0	1205	22.8	1446	30.4	1927	38.0
IG 40 x 89			89	51.5	22.3	1148	26.7	1375	35.6	1833	44.5
IG 40 x 102			102	43.6	25.5	1112	30.6	1334	40.8	1779	51.0
IG 40 x 115			115	40.1	28.8	1155	34.5	1383	46.0	1845	57.5
IG 40 x 127			127	37.6	31.8	1196	38.1	1433	50.8	1910	63.5
IG 40 x 139			139	32.5	35.0	1138	42.0	1365	56.0	1820	70.0
IG 40 x 152			152	28.4	38.0	1079	45.6	1295	60.8	1727	76.0
IG 40 x 178			178	25.6	44.5	1139	53.4	1367	71.2	1827	89.0
IG 40 x 203			203	23.1	50.8	1173	60.9	1407	81.2	1876	102.0
IG 40 x 254			254	17.5	63.5	1111	76.2	1334	101.6	1778	127.0
IG 40 x 305			305	15.0	76.3	1145	91.5	1373	122.0	1830	154.0
IG 50 x 64			50	25	64	155.0	16.0	2480	19.2	2976	25.6
IG 50 x 76	76	125.0			19.0	2375	22.8	2850	30.4	3800	37.2
IG 50 x 89	89	110.0			22.3	2453	26.7	2937	35.6	3916	43.6
IG 50 x 102	102	94.5			25.5	2410	30.6	2892	40.8	3837	50.5
IG 50 x 115	115	81.6			28.8	2351	34.5	2815	46.0	3754	57.5
IG 50 x 127	127	71.5			31.8	2274	38.1	2724	50.8	3632	63.5
IG 50 x 139	139	67.0			35.0	2345	42.0	2814	56.0	3752	69.0
IG 50 x 152	152	60.5			38.0	2299	45.6	2759	60.8	3678	76.0
IG 50 x 178	178	52.5			44.5	2336	53.4	2804	71.2	3738	90.0
IG 40 x 203	203	44.5			50.8	2261	60.9	2710	81.2	3613	104.7
IG 50 x 254	254	35.5			63.5	2254	76.2	2705	101.6	3607	130.5
IG 50 x 305	305	29.0			76.3	2213	91.5	2654	122.0	3538	155.0
IG 63 x 76	63	38	76	190.0	19.0	3610	22.8	4332	30.4	5776	36.5
IG 63 x 89			89	161.0	22.3	3590	26.7	4299	35.6	5732	43.5
IG 63 x 102			102	132.0	25.5	3366	30.6	4039	40.8	5386	50.0
IG 63 x 115			115	117.0	28.8	3370	34.5	4037	46.0	5382	56.0
IG 63 x 127			127	104.0	31.8	3307	38.1	3962	50.8	5283	63.0
IG 63 x 152			152	84.6	38.0	3215	45.6	3858	60.8	5144	77.0
IG 63 x 178			178	71.8	44.5	3195	53.4	3834	71.2	5112	91.5
IG 63 x 203			203	62.0	50.8	3150	60.9	3776	81.2	5034	103.5
IG 63 x 254			254	47.5	63.5	3016	76.2	3620	101.6	4826	130.0
IG 63 x 305			305	38.5	76.3	2938	91.5	3253	122.0	4697	156.0





ISO standard

IB MEDIUM LOAD BLUE

Code	OD	ID	L	R	 25% 3.000.000		 30% 1.500.000		 40% 200.000		
					mm	N	mm	N	mm	N	
IB 10 x 25	10	5	25	16.1	6.3	101	7.5	121	9.4	151	10.2
IB 10 x 32			32	13.2	8.0	106	9.6	127	12.0	158	14.0
IB 10 x 38			38	11.9	9.5	113	11.4	136	14.3	170	16.4
IB 10 x 44			44	10.3	11.0	113	13.2	136	16.5	170	19.1
IB 10 x 51			51	8.9	12.8	114	15.3	136	19.1	170	23.0
IB 10 x 64			64	7.4	16.0	118	19.2	142	24.0	178	28.0
IB 10 x 76			76	5.4	19.0	103	22.8	123	28.5	154	34.0
IB 10 x 89			89	4.7	22.3	105	26.7	131	33.4	164	37.1
IB 10 x 305			305	1.6	76.3	122	91.5	146	114.4	183	133.0
IB 12.5 x 25			12.5	6.3	25	30.2	6.3	198	7.5	227	9.4
IB 12.5 x 32	32	24.8			8.0	198	9.6	238	12.0	298	16.0
IB 12.5 x 38	38	21.3			9.5	202	11.4	243	14.3	305	18.5
IB 12.5x 44	44	18.4			11.0	202	13.2	243	16.5	304	21.0
IB 12.5 x 51	51	15.5			12.8	198	15.3	237	19.1	296	25.3
IB 12.5 x 64	64	12.2			16.0	195	19.2	234	24.0	293	32.1
IB 12.5 x 76	76	10.3			19.0	195	22.8	235	28.5	294	38.8
IB 12.5 x 89	89	8.5			22.3	190	26.7	227	33.4	284	45.4
IB 12.5 x 102	102	6.5			25.5	166	30.6	198	38.3	249	52.0
IB 12.5 x 305	305	2.1			76.3	160	91.5	192	114.4	240	150.0
IB 16 x 25	16	8	25	49.5	6.3	312	7.5	371	9.4	465	10.3
IB 16 x 32			32	37.3	8.0	298	9.6	358	12.0	448	13.5
IB 16 x 38			38	34.0	9.5	323	11.4	388	14.3	486	17.1
IB 16 x44			44	30.1	11.0	331	13.2	397	16.5	497	19.8
IB 16 x 51			51	26.5	12.8	339	15.3	411	19.1	506	24.0
IB 16 x 64			64	20.4	16.0	326	19.2	392	24.0	490	30.0
IB 16 x 76			76	17.7	19.0	336	22.8	434	28.5	504	35.7
IB 16 x 89			89	15.1	22.3	337	26.7	403	33.4	504	41.8
IB 16 x 102			102	13.4	25.5	342	30.6	409	38.3	513	48.0
IB 16 x 115			115	11.7	28.8	337	34.5	404	43.1	504	54.0
IB 16 x 305	305	4.7	76.3	359	91.5	430	114.4	537	143.3		
IB 20 x 25	20	10	25	95.0	6.3	598	7.5	712	9.4	893	10.3
IB 20 x 32			32	72.0	8.0	576	9.6	691	12.0	864	13.8
IB 20 x 38			38	59.8	9.5	568	11.4	682	14.3	867	16.4
IB 20 x 44			44	47.6	11.0	524	13.2	628	16.5	785	19.0
IB 20 x 51			51	41.7	12.8	534	15.3	638	19.1	796	22.5
IB 20 x 64			64	32.5	16.0	520	19.2	624	24.0	780	28.0
IB 20 x 76			76	25.3	19.0	481	22.8	577	28.5	721	34.0
IB 20 x 89			89	22.2	22.3	495	26.7	593	33.4	741	40.0
IB 20 x 102			102	20.0	25.5	510	30.6	612	38.3	766	46.0
IB 20 x 115			115	18.2	28.8	524	34.5	628	43.1	784	52.1
IB 20 x 127			127	16.6	31.8	528	38.1	632	47.6	790	57.1
IB 20 x 139			139	15.2	35.0	532	42.0	638	52.5	798	62.1
IB 20 x 152			152	13.3	38.0	505	45.6	606	57.0	758	68.4
IB 20 x 305	305	6.2	76.3	473	91.5	567	114.4	709	140.0		
IB 25 x 25	25	12.5	25	140.0	6.3	882	7.5	1050	9.4	1316	10.2
IB 25 x 32			32	115.0	8.0	920	9.6	1104	12.0	1380	13.4
IB 25 x 38			38	91.0	9.5	865	11.4	1037	14.3	1301	15.8
IB 25 x 44			44	80.0	11.0	880	13.2	1056	16.5	1320	18.5
IB 25 x 51			51	68.1	12.8	872	15.3	1042	19.1	1301	21.4
IB 25 x 64			64	52.5	16.0	840	19.2	1008	24.0	1260	26.8
IB 25 x 76			76	42.8	19.0	813	22.8	976	28.5	1220	32.0
IB 25 x 89			89	37.9	22.3	845	26.7	1012	33.4	1226	37.5
IB 25 x 102			102	32.5	25.5	829	30.6	995	38.3	1245	43.0
IB 25 x 115			115	28.0	28.8	806	34.5	966	43.1	1207	48.3
IB 25 x 127			127	25.7	31.8	817	38.1	979	47.6	1223	53.4
IB 25 x 139	139	23.1	35.0	809	42.0	970	52.5	1213	58.4		





ISO standard

IB MEDIUM LOAD BLUE

Code	OD	ID	L	R	 25% 3.000.000		 30% 1.500.000		 40% 200.000		
					mm	N/mm	mm	N	mm	N	
IB 25 x 152	25	12.5	152	20.9	38.0	794	45.6	953	57.0	1191	64.0
IB 25 x 178			178	17.8	44.5	792	53.4	951	66.8	1189	75.0
IB 25 x 203			203	15.7	50.8	798	60.9	956	76.1	1195	87.3
IB 25 x 305			305	10.3	76.3	786	91.5	942	114.4	1178	134.0
IB 32 x 38			32	16	38	180.0	9.5	1718	11.4	2052	14.3
IB 32 x 44	44	155.0			11.0	1705	13.2	2046	16.5	2573	19.0
IB 32 x 51	51	130.0			12.8	1664	15.3	1989	19.1	2483	22.5
IB 32 x 64	64	98.0			16.0	1568	19.2	1882	24.0	2352	28.8
IB 32 x 76	76	80.0			19.0	1520	22.8	1824	28.5	2280	34.2
IB 32 x 89	89	68.8			22.3	1534	26.7	1837	33.4	2298	40.1
IB 32 x 102	102	58.5			25.5	1492	30.6	1790	38.3	2241	47.0
IB 32 x 115	115	51.2			28.8	1475	34.5	1766	43.1	2207	53.0
IB 32 x 127	127	45.0			31.8	1431	38.1	1715	47.6	2142	58.5
IB 32 x 139	139	42.2			35.0	1477	42.0	1772	52.5	2216	65.0
IB 32 x 152	152	37.9			38.0	1440	45.6	1728	57.0	2160	71.5
IB 32 x 178	178	32.6			44.5	1451	53.4	1741	66.8	2178	83.5
IB 32 x 203	203	28.8			50.8	1463	60.9	1754	76.1	2192	95.4
IB 32 x 254	254	21.5			63.5	1365	76.2	1638	95.3	2049	119.3
IB 32 x 305	305	18.4			76.3	1404	91.5	1684	114.4	2105	143.3
IB 40 x 51	40	20	51	175.5	12.8	2246	15.3	2685	19.1	3352	21.4
IB 40 x 64			64	136.7	16.0	2187	19.2	2625	24.0	3281	26.9
IB 40 x 76			76	107.0	19.0	2033	22.8	2440	28.5	3050	32.7
IB 40 x 89			89	90.5	22.3	2018	26.7	2416	33.4	3023	38.3
IB 40 x 102			102	80.5	25.5	2053	30.6	2463	38.3	3083	44.0
IB 40 x 115			115	71.4	28.8	2056	34.5	2463	43.1	3077	50.6
IB 40 x 127			127	62.5	31.8	1988	38.1	2381	47.6	2975	55.9
IB 40 x 139			139	57.5	35.0	2013	42.0	2415	52.5	3019	61.2
IB 40 x 152			152	51.3	38.0	1949	45.6	2339	57.0	2924	66.9
IB 40 x 178			178	44.0	44.5	1958	53.4	2350	66.8	2953	78.0
IB 40 x 203			203	36.6	50.8	1859	60.9	2229	76.1	2785	89.3
IB 40 x 254	254	30.0	63.5	1905	76.2	2286	95.3	2859	111.7		
IB 40 x 305	305	24.8	76.3	1892	91.5	2269	114.4	2837	134.2		
IB 50 x 64	50	25	64	207.0	16.0	3312	19.2	3974	24.0	4968	28.1
IB 50 x 76			76	167.0	19.0	3173	22.8	3808	28.5	4760	34.2
IB 50 x 89			89	141.0	22.3	3144	26.7	3765	33.4	4709	40.0
IB 50 x 102			102	120.0	25.5	3060	30.6	3672	38.3	4596	46.9
IB 50 x 115			115	107.0	28.8	3082	34.5	3692	43.1	4612	52.9
IB 50 x 127			127	97.5	31.8	3101	38.1	3715	47.6	4641	58.4
IB 50 x 139			139	87.6	35.0	3066	42.0	3679	52.5	4599	63.9
IB 50 x 152			152	81.0	38.0	3078	45.6	3694	57.0	4617	70.0
IB 50 x 178			178	70.0	44.5	3115	53.4	3738	66.8	4606	82.0
IB 50 x 203			203	60.0	50.8	3048	60.9	3654	76.1	4566	93.3
IB 50 x 229			229	51.3	57.3	2939	68.7	3524	85.9	4398	105.4
IB 50 x 254	254	44.2	63.5	2807	76.2	3368	95.3	4212	117.0		
IB 50 x 305	305	38.1	76.3	2907	91.5	3486	114.4	4359	140.3		
IB 63 x 76	63	38	76	305.0	19.0	5795	22.8	6954	28.5	8693	30.5
IB 63 x 89			89	256.0	22.3	5709	26.7	6835	33.4	8550	36.5
IB 63 x 102			102	218.0	25.5	5559	30.6	6671	38.3	8349	43.0
IB 63 x 115			115	185.0	28.8	5328	34.5	3683	43.1	7974	48.5
IB 63 x 127			127	166.0	31.8	5279	38.1	6325	47.6	7902	54.6
IB 63 x 152			152	135.0	38.0	5130	45.6	6156	57.0	7695	66.9
IB 63 x 178			178	113.0	44.5	5029	53.4	6034	66.8	7548	78.0
IB 63 x 203			203	101.0	50.8	5131	60.9	6151	76.1	7686	89.3
IB 63 x 229			229	90.1	57.3	5163	68.7	6190	85.9	7740	100.7
IB 63 x 254			254	78.5	63.5	4985	76.2	5982	95.3	7481	111.8
IB 63 x 305	305	65.0	76.3	4960	91.5	5948	114.4	7436	134.2		





ISO standard

IR HEAVY LOAD RED

Code	OD	ID	L	R	 20% 3.000.000		 25% 1.500.000		 30% 200.000		
					mm	N	mm	N	mm	N	
IR 10 x 25	10	5	25	22.0	5.0	110	6.3	139	7.5	165	9.0
IR 10 x 32			32	19.4	6.4	124	8.0	155	9.6	186	11.5
IR 10 x 38			38	17.0	7.6	129	9.5	162	11.4	194	13.2
IR 10 x 44			44	14.9	8.8	131	11.0	164	13.2	197	15.5
IR 10 x 51			51	12.8	10.2	131	12.8	164	15.3	196	18.4
IR 10 x 64			64	10.6	12.8	136	16.0	170	19.2	204	23.0
IR 10 x 76			76	7.6	15.2	116	19.0	144	22.8	173	27.3
IR 10 x 89			89	6.8	17.8	121	22.3	152	26.7	182	32.0
IR 10 x 305			305	2.1	61.0	128	76.3	160	91.5	193	122.0
IR 12.5 x 25			12.5	6.3	25	42.2	5.0	211	6.3	266	7.5
IR 12.5 x 32	32	33.3			6.4	213	8.0	266	9.6	320	13.2
IR 12.5 x 38	38	29.4			7.6	223	9.5	279	11.4	335	15.5
IR 12.5 x 44	44	24.5			8.8	216	11.0	270	13.2	323	18.3
IR 12.5 x 51	51	19.5			10.2	199	12.8	250	15.3	298	22.0
IR 12.5 x 64	64	15.2			12.8	195	16.0	243	19.2	292	27.0
IR 12.5 x 76	76	13.4			15.2	204	19.0	255	22.8	306	32.6
IR 12.5 x 89	89	11.5			17.8	205	22.3	256	26.7	307	38.2
IR 12.5 x 102	102	8.5			20.4	173	25.5	217	30.6	260	43.8
IR 12.5 x 305	305	2.9			61.0	177	76.3	221	91.5	265	134.2
IR 16 x 25	16	8	25	76.1	5.0	381	6.3	479	7.5	571	8.4
IR 16 x 32			32	53.2	6.4	340	8.0	426	9.6	511	10.5
IR 16 x 38			38	48.9	7.6	372	9.5	465	11.4	557	13.3
IR 16 x 44			44	43.1	8.8	379	11.0	474	13.2	569	15.8
IR 16 x 51			51	37.3	10.2	380	12.8	477	15.3	571	18.4
IR 16 x 64			64	30.5	12.8	390	16.0	480	19.2	586	23.7
IR 16 x 76			76	26.0	15.2	395	19.0	494	22.8	593	28.1
IR 16 x 89			89	21.9	17.8	390	22.3	488	26.7	585	33.0
IR 16 x 102			102	19.3	20.4	394	25.5	492	30.6	591	37.8
IR 16 x 115			115	15.8	23.0	363	28.8	455	34.5	545	42.6
IR 16 x 305	305	7.0	61.0	427	76.3	534	91.5	640	113.0		
IR 20 x 25	20	10	25	205.0	5.0	1025	6.3	1292	7.5	1538	8.1
IR 20 x 32			32	160.0	6.4	1024	8.0	1280	9.6	1536	10.6
IR 20 x 38			38	122.0	7.6	927	9.5	1159	11.4	1391	12.5
IR 20 x 44			44	106.0	8.8	933	11.0	1166	13.2	1399	15.0
IR 20 x 51			51	90.0	10.2	918	12.8	1152	15.3	1377	17.8
IR 20 x 64			64	68.0	12.8	872	16.0	1090	19.2	1307	22.4
IR 20 x 76			76	54.5	15.2	828	19.0	1036	22.8	1243	27.0
IR 20 x 89			89	47.6	17.8	847	22.3	1061	26.7	1271	31.2
IR 20 x 102			102	41.8	20.4	853	25.5	1066	30.6	1279	36.0
IR 20 x 115			115	36.5	23.0	840	28.8	1044	34.5	1259	41.0
IR 20 x 127			127	33.0	25.4	838	31.8	1049	38.1	1257	45.0
IR 20 x 139			139	29.8	28.0	834	35.0	1043	42.0	1252	49.4
IR 20 x 152			152	27.0	30.4	821	38.0	1026	45.6	1231	54.7
IR 20 x 305			305	14.1	61.0	860	76.3	1076	91.5	1290	113.0
IR 25 x 25	25	12.5	25	355.0	5.0	1775	6.3	2237	7.5	2663	8.1
IR 25 x 32			32	280.0	6.4	1792	8.0	2240	9.6	2688	10.6
IR 25 x 38			38	204.0	7.6	1550	9.5	1938	11.4	2326	12.5
IR 25 x 44			44	174.0	8.8	1531	11.0	1914	13.2	2297	14.9
IR 25 x 51			51	145.0	10.2	1479	12.8	1856	15.3	2219	17.8
IR 25 x 64			64	114.0	12.8	1459	16.0	1824	19.2	2189	22.7
IR 25 x 76			76	93.1	15.2	1415	19.0	1769	22.8	2123	26.6
IR 25 x 89			89	80.3	17.8	1429	22.3	1791	26.7	2144	31.1
IR 25 x 102			102	70.9	20.4	1446	25.5	1808	30.6	2170	36.0
IR 25 x 115			115	63.2	23.0	1454	28.8	1820	34.5	2180	41.4
IR 25 x 127			127	56.1	25.4	1425	31.8	1784	38.1	2137	45.7
IR 25 x 139	139	51.5	28.0	1442	35.0	1803	42.0	2163	50.0		





ISO standard

IR HEAVY LOAD RED

Code	OD	ID	L	R	 20% 3.000.000		 25% 1.500.000		 30% 200.000		
					mm	N	mm	N	mm	N	
IR 25 x 152	25	12.5	152	46.2	30.4	1404	38.0	1756	45.6	2107	54.7
IR 25 x 178			178	40.0	35.6	1424	44.5	1780	53.4	2136	64.1
IR 25 x 203			203	34.7	40.6	1409	50.8	1763	60.9	2113	73.0
IR 25 x 305			305	22.1	61.0	1348	76.3	1686	91.5	2022	110.0
IR 32 x 38	32	16	38	368.0	7.6	2796	9.5	3496	11.4	4195	12.5
IR 32 x 44			44	307.0	8.8	2702	11.0	3377	13.2	4052	14.9
IR 32 x 51			51	257.0	10.2	2621	12.8	3290	15.3	3932	17.6
IR 32 x 64			64	200.0	12.8	2560	16.0	3200	19.2	3840	22.4
IR 32 x 76			76	163.0	15.2	2478	19.0	3097	22.8	3716	26.9
IR 32 x 89			89	134.0	17.8	2385	22.3	2988	26.7	3578	30.9
IR 32 x 102			102	117.0	20.4	2387	25.5	2984	30.6	3580	36.7
IR 32 x 115			115	103.0	23.0	2369	28.8	2966	34.5	3555	41.4
IR 32 x 127			127	91.0	25.4	2311	31.8	2814	38.1	3467	45.7
IR 32 x 139			139	84.5	28.0	2366	35.0	2958	42.0	3549	48.8
IR 32 x 152			152	77.1	30.4	2344	38.0	2930	45.6	3516	54.7
IR 32 x 178			178	66.5	35.6	2367	44.5	2959	53.4	3551	64.0
IR 32 x 203			203	58.7	40.6	2383	50.8	2982	60.9	3575	73.0
IR 32 x 254			254	46.0	50.8	2337	63.5	2921	76.2	3505	91.5
IR 32 x 305			305	37.5	61	2288	76.3	2861	91.5	3431	110.0
IR 40 x 51			40	20	51	345.0	10.2	3519	12.8	4416	15.3
IR 40 x 64	64	266.0			12.8	3405	16.0	4256	19.2	5107	21.7
IR 40 x 76	76	217.0			15.2	3298	19.0	4125	22.8	4978	26.6
IR 40 x 89	89	189.0			17.8	3364	22.3	4215	26.7	5046	32.0
IR 40 x 102	102	162.0			20.4	3305	25.5	4131	30.6	4957	36.7
IR 40 x 115	115	141.0			23.0	3243	28.8	4061	34.5	4865	42.0
IR 40 x 127	127	127.5			25.4	3239	31.8	4055	38.1	4858	46.9
IR 40 x 139	139	115.0			28.0	3220	35.0	4025	42.0	4830	51.0
IR 40 x 152	152	104.5			30.4	3177	38.0	3971	45.6	4765	56.2
IR 40 x 178	178	88.5			35.6	3151	44.5	3938	53.4	4726	66.0
IR 40 x 203	203	77.5			40.6	3147	50.8	3937	60.9	4720	75.1
IR 40 x 254	254	61.3			50.8	3114	63.5	3893	76.2	4671	94.0
IR 40 x 305	305	51.4	61.0	3135	76.3	3922	91.5	4703	113.0		
IR 50 x 64	50	25	64	410.0	12.8	5248	16.0	6560	19.2	7882	21.7
IR 50 x 76			76	337.0	15.2	5122	19.0	6403	22.8	78684	27.4
IR 50 x 89			89	287.0	17.8	5109	22.3	6400	26.7	7663	31.1
IR 50 x 102			102	244.0	20.4	4978	25.5	6222	30.6	7466	36.7
IR 50 x 115			115	215.0	23.0	4945	28.8	6192	34.5	7418	41.4
IR 50 x 127			127	193.0	25.4	4902	31.8	6137	38.1	7353	45.7
IR 50 x 139			139	169.0	28.0	4732	35.0	5915	42.0	7098	50.0
IR 50 x 152			152	155.0	30.4	4712	38.0	5890	45.6	7068	55.0
IR 50 x 178			178	134.0	35.6	4770	44.5	5963	53.4	7156	64.1
IR 50 x 203			203	117.0	40.6	4750	50.8	5944	60.9	7125	73.1
IR 50 x 254			254	90.0	50.8	4572	63.5	5715	76.2	6858	92.0
IR 50 x 305			305	74.0	61.0	4514	76.3	5646	91.5	6771	111.0
IR 63 x 76	63	38	76	618.0	15.2	9394	19.0	11742	22.8	14090	26.7
IR 63 x 89			89	515.0	17.8	9167	22.3	11485	26.7	13751	30.0
IR 63 x 102			102	438.0	20.4	8935	25.5	11169	30.6	13403	35.1
IR 63 x 115			115	370.0	23.0	8510	28.8	10656	34.5	12765	37.5
IR 63 x 127			127	333.0	25.4	8458	31.8	10589	38.1	12687	45.9
IR 63 x 152			152	269.0	30.4	8178	38.0	10222	45.6	12266	56.5
IR 63 x 178			178	226.0	35.6	8046	44.5	10057	53.4	12068	66.8
IG 63 x 203			203	198.0	40.6	8039	50.8	10058	60.9	12058	78.8
IG 63 x 254			254	155.0	50.8	7874	63.5	9843	76.2	11811	101.7
IG 63 x 305			305	128.0	61.0	7808	76.3	9766	91.5	11712	122.4





ISO standard

IY EXTRA HEAVY LOAD YELLOW

Code	OD	ID	L	R	 17% 3.000.000		 20% 1.500.000		 25% 200.000				
					mm	N/mm	mm	N	mm	N	mm	N	mm
IY 10 x 25	10	5	25	36.7	4.3	158	5.0	184	6.3	231	7.7		
IY 10 x 32			32	28.0	5.4	151	6.4	179	8.0	224	10.0		
IY 10 x 38			38	23.8	6.5	154	7.6	181	9.5	226	12.1		
IY 10 x 44			44	19.3	7.5	145	8.8	170	11.0	212	14.1		
IY 10 x 51			51	16.6	8.7	144	10.2	169	12.8	212	16.3		
IY 10 x 64			64	13.3	10.9	145	12.8	170	16.0	213	21.0		
IY 10 x 76			76	11.0	12.9	142	15.2	167	19.0	209	25.0		
IY 10 x 305			305	2.7	51.9	140	61.0	165	76.3	206	103.7		
IY 12.5 x 25			12.5	6.3	25	58.2	4.3	250	5.4	291	6.3	367	8.0
IY 12.5 x 32					32	43.7	5.4	236	6.4	280	8.0	349	10.0
IY 12.5 x 38	38	36.1			6.5	235	7.6	274	9.5	343	12.5		
IY 12.5 x 44	44	30.2			7.5	227	8.8	266	11.0	332	14.1		
IY 12.5 x 51	51	26.3			8.7	229	10.2	268	12.8	337	16.8		
IY 12.5 x 64	64	21.4			10.9	233	12.8	274	16.0	342	21.1		
IY 12.5 x 76	76	17.2			12.9	222	15.2	261	19.0	327	25.8		
IY 12.5 x 89	89	14.6			15.1	220	17.8	260	25.5	326	30.3		
IY 12.5 x 102	102	12.6			17.3	218	20.4	257	28.8	321	35.0		
IY 12.5 x 305	305	4.3			51.9	223	61.0	262	76.3	328	104.0		
IY 16 x 25	16	8	25	118.0	4.3	507	5.0	590	6.3	743	8.2		
IY 16 x 32			32	89.1	5.4	481	6.4	570	8.0	713	10.3		
IY 16 x 38			38	72.2	6.5	469	7.6	549	9.5	686	12.6		
IY 16 x 44			44	60.0	7.5	450	8.8	528	11.0	660	14.9		
IY 16 x 51			51	52.4	8.7	456	10.2	534	12.8	671	17.4		
IY 16 x 64			64	41.3	10.9	450	12.8	529	16.0	661	21.7		
IY 16 x 76			76	34.2	12.9	441	15.2	520	19.0	650	26.0		
IY 16 x 89			89	29.6	15.1	447	17.8	527	22.3	660	30.2		
IY 16 x 102			102	25.6	17.3	445	20.4	524	25.5	655	35.0		
IY 16 x 115			115	22.5	19.6	441	23.0	518	28.8	648	39.1		
IY 16 x 305	305	8.4	51.9	436	61.0	512	76.3	641	105.0				
IY 20 x 25	20	10	25	280.0	4.3	1204	5.0	1400	6.3	1764	7.0		
IY 20 x 32			32	211.0	5.4	1139	6.4	1350	8.0	1688	9.6		
IY 20 x 38			38	166.0	6.5	1079	7.6	1262	9.5	1577	11.8		
IY 20 x 44			44	140.0	7.5	1050	8.8	1232	11.0	1540	13.8		
IY 20 x 51			51	123.0	8.7	1070	10.2	1255	12.8	1574	16.3		
IY 20 x 64			64	94.0	10.9	1025	12.8	1203	16.0	1504	21.1		
IY 20 x 76			76	78.7	12.9	1015	15.2	1196	19.0	1495	24.7		
IY 20 x 89			89	68.0	15.1	1027	17.8	1210	22.3	1516	29.0		
IY 20 x 102			102	60.0	17.3	1038	20.4	1224	25.5	1530	34.0		
IY 20 x 115			115	52.8	19.6	1035	23.0	1214	28.8	1521	38.5		
IY 20 x 127	127	47.5	21.6	1026	25.4	1207	31.8	1511	42.5				
IY 20 x 139	139	43.0	23.8	1023	28.0	1207	35.0	1505	46.5				
IY 20 x 152	152	38.7	25.8	998	30.4	1176	38.0	1471	50.9				
IY 20 x 305	305	21.0	51.9	1090	61.0	1281	76.3	1602	103.7				
IY 25 x 32	25	12.5	32	365.0	5.4	1971	6.4	2336	8.0	2920	9.6		
IY 25 x 38			38	340.0	6.5	2210	7.6	2584	9.5	3230	11.4		
IY 25 x 44			44	239.0	7.5	1793	8.8	2103	11.0	2629	13.6		
IY 25 x 51			51	204.0	8.7	1775	10.2	2081	12.8	2611	16.3		
IY 25 x 64			64	159.0	10.9	1733	12.8	2035	16.0	2544	20.5		
IY 25 x 76			76	129.5	12.9	1671	15.2	1968	19.0	2461	24.3		
IY 25 x 89			89	110.0	15.1	1661	17.8	1958	22.3	2453	28.5		
IY 25 x 102			102	95.9	17.3	1660	20.4	1956	25.5	2445	32.6		
IY 25 x 115			115	85.4	19.6	1674	23.0	1964	28.8	2460	36.8		
IY 25 x 127			127	76.3	21.6	1648	25.4	1938	31.8	2426	40.6		
IY 25 x 139	139	69.0	23.8	1642	28.0	1932	35.0	2415	44.5				
IY 25 x 152	152	63.6	25.8	1640	30.4	1933	38.0	2417	48.6				
IY 25 x 178	178	54.0	30.3	1663	35.6	1922	44.5	2403	57.0				

ISO standard

IY EXTRA HEAVY LOAD YELLOW

Code	OD	ID	L	R	 17% 3.000.000		 20% 1.500.000		 25% 200.000				
					mm	N/mm	mm	N	mm	N	mm	N	mm
IY 25 x 203	25	12.5	203	47.1	34.5	1625	40.6	1912	50.8	2393	65.0		
IY 25 x 305			305	31.0	51.9	1609	61.0	1891	76.3	2365	97.6		
IY 32 x 38			32	16	38	508.0	6.5	3302	7.6	3861	9.5	4826	11.4
IY 32 x 44	44	406.0			7.5	3045	8.8	3573	11.0	4466	13.5		
IY 32 x 51	51	339.0			8.7	2949	10.2	3458	12.8	4339	15.8		
IY 32 x 64	64	258.0			10.9	2812	12.8	3302	16.0	4128	20.0		
IY 32 x 76	76	208.0			12.9	2683	15.2	3162	19.0	3952	24.3		
IY 32 x 89	89	171.5			15.1	2590	17.8	3053	22.3	3824	28.5		
IY 32 x 102	102	150.0			17.3	2595	20.4	3060	25.5	3825	32.6		
IY 32 x 115	115	137.2			19.6	2689	23.0	3156	28.8	3951	37.9		
IY 32 x 127	127	122.0			21.6	2635	25.4	3099	31.8	3880	41.9		
IY 32 x 139	139	111.5			23.8	2654	28.0	3122	35.0	3903	46.0		
IY 32 x 152	152	102.1			25.8	2634	30.4	3104	38.0	3880	50.2		
IY 32 x 178	178	88.0			30.3	2666	35.6	3133	44.5	3916	59.0		
IY 32 x 203	203	75.9			34.5	2619	40.6	3082	50.8	3856	67.0		
IY 32 x 254	254	60.5			43.2	2614	50.8	3073	63.5	3842	84.0		
IY 32 x 305	305	49.0			51.9	2543	61.0	2989	76.3	3739	101.0		
IY 40 x 51	40	20			51	607.0	8.7	5281	10.2	6191	12.8	7770	14.5
IY 40 x 64					64	469.0	10.9	5112	12.8	6003	16.0	7504	19.2
IY 40 x 76					76	364.0	12.9	4696	15.2	5533	19.0	6916	22.8
IY 40 x 89			89	309.0	15.1	4666	17.8	5500	22.3	6891	27.0		
IY 40 x 102			102	274.0	17.3	4742	20.4	5590	25.5	6987	32.0		
IY 40 x 115			115	240.0	19.6	4704	23.0	5520	28.8	6912	35.6		
IY 40 x 127			127	219.0	21.6	4730	25.4	5563	31.8	6964	39.4		
IY 40 x 139			139	188.0	23.8	4474	28.0	5264	35.0	6580	43.1		
IY 40 x 152			152	167.0	25.8	4309	30.4	5077	38.0	6346	47.1		
IY 40 x 178			178	145.0	30.3	4394	35.6	5162	44.5	6453	55.2		
IY 40 x 203			203	131.0	34.5	4520	40.6	5319	50.8	6655	64.0		
IY 40 x 254			254	106.0	43.2	4579	50.8	5389	63.5	6731	81.3		
IY 40 x 305	305	87.0	51.9	4515	61.0	5307	76.3	6638	97.6				
IY 50 x 64	50	25	64	694.0	10.9	7565	12.8	8883	16.0	11104	18.6		
IY 50 x 76			76	560.0	12.9	7224	15.2	8512	19.0	10640	22.1		
IY 50 x 89			89	467.0	15.1	7052	17.8	8313	22.3	10414	26.7		
IY 50 x 102			102	401.0	17.3	6937	20.4	8180	25.5	10226	31.6		
IY 50 x 115			115	350.0	19.6	6860	23.0	8050	28.8	10080	35.6		
IY 50 x 127			127	316.0	21.6	6826	25.4	8026	31.8	10049	39.4		
IY 50 x 139			139	274.0	23.8	6521	28.0	7672	35.0	9590	43.1		
IY 50 x 152			152	240.0	25.8	6192	30.4	7296	38.0	9120	48.0		
IY 50 x 178			178	216.0	30.3	6545	35.6	7690	44.5	9612	57.0		
IY 50 x 203			203	188.0	34.5	6486	40.6	7633	50.8	9550	65.0		
IY 50 x 254			254	154.0	43.2	6653	50.8	7823	63.5	9779	81.3		
IY 50 x 305			305	128.0	51.9	6643	61.0	7808	76.3	9766	97.6		
IY 63 x 76	63	38	76	800.0	12.9	10335			19.0	15198			
IY 63 x 89			89	690.0	15.1	10435			22.3	15346			
IY 63 x 102			102	623.0	17.3	10806			25.5	15892			
IY 63 x 115			115	507.0	19.6	9918			28.8	14585			
IY 63 x 127			127	456.0	21.6	9845			31.8	14478			
IY 63 x 152			152	376.0	25.8	9721			38.0	14296			
IY 63 x 178			178	318.0	30.3	9630			44.5	14163			
IY 63 x 203			203	282.0	34.5	9737			50.8	14319			
IY 63 x 254			254	223.0	43.2	9640			63.5	14177			
IY 63 x 305			305	184.0	51.9	9556			76.3	14053			

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