

胀紧联结套

Keyless Locking Devices



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胀紧联结套简介 Locking device introduce

胀紧联结套（简称胀套）的主要用途是代替单键和花键的联结作用，以实现机件（如齿轮、飞轮、皮带轮）与轴的联结，用以传递负荷。它使用时通过高强度螺栓的作用，使内环与轴之间，外环与轮毂产生巨大的抱紧力；当承载负荷时，靠胀套与机件的结合力及相伴产生的摩擦力传递扭矩、轴向力，或二者的复合载荷。

胀紧联结套是一种新型传动联结方式，它作为一种先进的基础件，八十年代工业发达国家如德国、日本、美国等在重型载荷蒸汽机械联结广泛地采用了这一新技术。这与一般过盈联结，有键联结相比，胀套联结有许多独特的优点：

- 1、使用胀套使主机零件制造和安装简单。安装胀套的轴和孔的加工不像过盈配合那样要求精度的制造公差。
- 2、胀套安装时无须加热，冷却，和加压设备，只须将螺栓按要求的力矩扭紧即可。且调整方便，可以将轮廓在轴上方便地调整到所需位置。胀套也可以用来联结焊接性差的零件。
- 3、胀套的使用寿命长，强度高，胀套依靠摩擦传动，对被联结件没有键槽削弱，也无相对运动，工作中不会产生磨损。
- 4、胀套超载时，将失去联结作用，可以保护设备不受损坏。
- 5、胀套联结可以承受多重负载，其结构可以做成多种样式。根据安装负载大小，还可以多个胀套串联使用。
- 6、胀套拆卸方便，且具有良好的互换性。由于胀套能把较大配合间隙的轴结合起来，拆卸时将螺栓拧松，即可使被联结件容易拆开。胀紧时，接触面紧密贴合不锈蚀，也便于拆卸。

胀套目前广泛用于纺织、包装、机床、冶金等行业的各种机械设备中。我公司生产的胀套以其良好的质量及服务，合理的价格，得到用户的广泛的赞誉。目前我公司生产符合 JB/T7934-1999（旧标准号 JB/T7934-95.GB5867-86）标准的胀套外，还可根据用户需要进行特殊型的设计和生产。

The main use of the locking connection set (abbreviated as locking device) is replace connecting capacity of single keyway and spline. in order to realize the connection between machinery parts (such as gear wheel, flywheel, belt pulley) and axle. so the loading can be transmitted. Through the function of high strength of bolt when locking device is working. enormous strength of tightholding power between hub. inner loop and axle are produced. When bearing the weight and loading depend on connection power between locking device and machinery and additional frictional force to transmission torsion. or power on axial. or the complex loading of the both..

The locking device is a new kind of transmission connection mode. As a kind of advanced basic part. it has been widely adopted to the industrially developed country such as Germany. Japan. USA in the vapour machinery heavy duty load since 1980s. Compared with interference connection and key connection. locking device has a lot of unique advantages.

1. Main machine's manufacturing and installation can be simplified by using locking device. Hub and hole which fix locking device no need high accuracy manufacturing tolerance. which is not like interference connection.

2. It is unnecessary to heat, cool or pressurized the equipment when locking device is being installed. just tighten the bolts as required torque. It is convenient for adjustment, can adjust the hub to the necessary position on the axle easily. Locking device also can be used for connecting the bad-welding part.

3. Locking device has long using life and high strength. locking device transfer torque by attrition, there is no keyway weaken for the machinery parts which connected. and also there is no relative motion. there is no any attrition when locking device is working.

4. Locking device will not work when overloading happened. So it can avoid equipment being damaged while overloading.

5. Locking device can bear compounded loading. its structure can be made into many modes. Upon torque. multilocking devices can be used in series.

6. Locking device can be disassembled conveniently. at the same time. it has well interchange abilities capacity. Because of locking device can connect the hubs with bigger fit space connected parts can be easily disassembled by tightening bolts. can make it easy to open. The connected faces are tight, so it is not easy to be tarnished. at the same time, it is easy to disassemble.

At present, locking device is widely used in various kinds of mechanical equipments. such as the textile, packaging, lathe, metallurgy. etc. Our company is not only produce locking devices according to standard JB/T7934-1999 (old standard number JB/T7934-95.GB5867-86) with high quality and service and well price, but also we are specially manufacture and design to meet client's requirements.



胀紧联结套 Keyless Locking Devices

胀紧联结套的选用说明 Selection explanation of locking devices

一、胀紧联结套的选用说明 Selection explanation of locking devices

1、按照负荷选择胀套 Select locking devices as Rating burthen

1.1 选择胀套应符合式(A1)、式(A2)、式(A3)和式(A4)的规定

select locking devices according prescript of format(A1).(A2).(A3)and(A4)

- | | |
|---------------------------|--|
| a) 传递扭矩 Torque: | $M1 \geq M$(A1) |
| b) 承受轴向力 Power on axle: | $F1 \geq FX$(A2) |
| c) 传递力 Transfer power: | $F1 \geq \sqrt{F_x^2 + (M_d^2 \times 10^3)^2}$(A3) |
| d) 承受径向力 Power on radial: | $P1 \geq \frac{F_r}{d_l} \times 10^3$(A4) |

式中: Note

M---需传递的转矩,KN·m;

Fx---需承受的轴向力,KN;

Ft---需承受的径向力,KN;

Mt---胀套的额定转矩,KN·m;

Ft---胀套的额定轴向力,KN;

d、l---胀套内径和内环的宽度,mm;

Pt---胀套与轴结合面上的压力,N/mm²。

M---The torque need to be transferred.KN·m;

Fx---axle power need to endure,KN;

Ft---radial power need to endure.KN;

Mt---rating torque of the locking devices.KN·m;

Ft---rating axle power of the locking devices,kN;

d,l---inner diameter/ring width of locking devices.mm;

Pt---the pressure between locking devices and connection faces,N/mm²

1.2一个联结采用数个胀套时的额定负荷

More than one locking device used in one joint and the rating burthen should be calculated as belowc

一个胀套的额定负荷小于需传递的负荷时,可用两个以上的胀套串联使用,其总额定负荷按式(A5)

When the rating burthen is less than the burthen needed to transfer. more than 2 locking devices used in series so that get burthen requrement, and its total rating burthen can be calculated as format(A5)h

$$M_{tn} \geq m M_t \text{.....(A5)}$$

式中: Note

M_{tn}-N个胀套总额定负荷;

m-负荷系数

m值见表A1

M_{tn}-total rating burthen of N rating locking devices;

m-rating factor

Find M in sheet A1

表1

联结中胀套数量 Locking devices quantity in series n	m		
	Z1型胀套 Z1 Type Locking device	Z2、Z3、Z4、Z5型胀套 Z2、Z3、Z4、Z5 Type Locking device	Z12、Z15、Z17、Z18 型胀套 Z12、Z15、Z17、Z18 Type Locking device
1	1.00	1	1
2	1.56	1.8	1.8
3	1.86	2.7	--
4	2.03	--	--

2、结合面的公差及表面粗糙度 The joint face tolerance and roughness degree of surface

2.1与胀套结合的轴和孔,其公差带按 GB/1800-79《公差与配合总论标准公差与基本偏差》和GB1801

《公差与配合尺寸500m孔轴公差带与配合》的规定,推荐的孔,轴公差带列于表。

the tolerance range of the axles and holes united with locking devices should be as the prescript of GB/T1800.1.GB/T1800.2 and GB/T1800.3



胀紧联结套 Keyless Locking Devices

胀紧联结套的安装和拆卸要求 Installation and dismantling of Locking devices

表2

胀套型式 Locking Devices		胀套内径 d Inner Diameter d (mm)	与胀套结合的轴的公差带 Tolerance range of the axes which united with locking devices	与胀套结合的孔的公差带 Tolerance range of the radial which united with locking devices
	对应沃孚尔型号			
Z1	R03	≤38	h6	H7
		>38	h7	H8
Z2	R01	所有直径 All diameters	h7或(or)h8	H7或(or)H8
Z3	R04-R05		h8	H8
Z4	R33		h9或(or)k9	N7或(or)N9
Z5-Z6	R37-R15		h8	H8
Z7B	R14			--
Z8-Z9	R07-R12			H8
Z10	R47			--
Z11-Z19	R02-R21			H8

2.2 与胀套结合的轴和孔,其表面粗糙度按GB/T1031 的规定

The surface roughness degree of axes and holes which joint with locking devices should comply with prescript of GB/T1031

表3

胀套型式 Type of locking devices		轮毂算术平均偏差Ra The average arithmetic windage of hub Ra	
	对应沃孚尔型号	与胀套结合的轴 The axes which joint with locking devices	与胀套结合的孔 The holes which joint with locking devices
Z1	R03	≤1.6	≤1.6
Z2-Z6	R01-R15	≤3.2	≤3.2
Z7	R14	≤3.2	--
Z8-Z9	R07-R12	≤3.2	≤3.2
Z10	R47	≤3.2	--
Z11-Z20	R02-R21	≤3.2	≤3.2

二、胀紧联结套安装和拆卸的一般要求

Normal requests of installation and taking-down of locking devices are as below

1、联结前的准备工作Prepare working advanced joint.

1.1结合件的尺寸应按GB/T3177规定的方法进行检验,

The dimensions of joint components inspected and measurements of GB/T3177.

1.2结合表面必须无污物、腐蚀和损伤。

It must no contamination. cauterization and damnification on the joint face.

1.3在清洗干净的胀套表面和结合件的结合表面上,均匀涂一层薄润滑油(不应含二硫化钼添加剂)。

Equably lay thin lubricant without additive molybdenum disulfide on cleared surface of locking devices and joint face.

2、胀套的安装The installation of locking devices

2.1把被联结件推移到轴上,并达设计规定的位置。

Pushing the components needed installation onto axle, and get them to design stipulated situation.

2.2将拧松螺钉的胀套平滑地装入联结孔处,要防止结合件的倾斜,然后用手将螺钉拧紧。

Smoothly pushing the locking devices with released bolts into joint holes

3、拧紧胀套螺钉的方法 The methods of locking device' S bolt screwing down

3.1胀套螺钉应使用力矩扳手按对角,交叉,均匀地拧紧。

locking device' s bolts should be screwed down on the cross. across and smoothly with torque Spanner.

3.2螺钉的拧紧力矩MA值按样本表格的规定,并按下列步骤:

The bolts screw down torque MA should be as the prescript of sheet, and as below Steps:

a)以1/3MA值拧紧;

a)Screw down as MA1/3 value

b)以1/2MA值拧紧;

b)Screw down as MA1/3 value

c)以MA值拧紧;

c)Screw down as MA value

d)以MA检查全部螺钉。

d)Inspecting all bolts with MA value

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胀紧套联结应用举例 Application sample of locking device

4、胀套的拆卸 taking down of locking devices.

4.1 拆卸时先松开全部螺钉，但不要将螺钉全部拧出。

Releasing but not take out all bolts when taking down locking devices.

4.2 取下镀锌的螺钉和垫圈,将拉出螺钉旋入前压环的辅助螺孔中,轻轻敲击螺钉的头部,使胀套松动然后拉动螺钉,即可将胀套拉出。

Disassemble locking device,Unbolting galvanized bolts and washers,then screwing the bolts in assistant holes of fore clamping collar.Gently knock on bolts head.making locking device flexible, then pull out locking device by pulling bolts.

5、防护 Safeguard

5.1 安装完毕后,在胀套外露端面及螺钉头部涂上一层防锈油脂。

Installation finished,please wiping a bed of anti-corrosive grease on bolts head and exerted parts of the locking device.

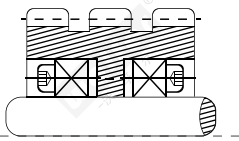
5.2 在露天作业或工作环境较差的机器,应定期在外露端面及螺钉头部涂上一层防锈油脂。

For outdoor working or poor working surrounding machines.wiping anti-corrosive grease on exerted parts periodic.

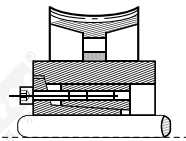
5.3 需在腐蚀介质中工作的胀套,应采用专门的防护(例如加盖板)以防胀套腐蚀。

For these locking devices whice working in corrosive medium,in order to corrosion,please use special safeguard,for example adding cover board.

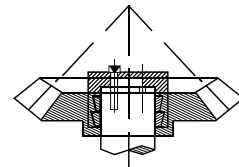
三、胀紧套联结应用举例 Application sample of locking device



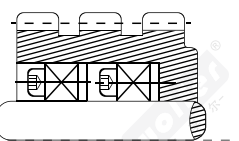
大齿轮的两边用胀套受力均匀
Equally under stress on two sides of large gear by locking device



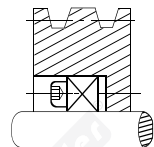
使蜗轮轴向定位灵活(无定位台阶)
Make worm wheel keep a flexible orientation on axial (without orientate step)



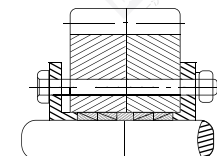
螺旋伞齿轮运转更平稳
Make spiral umbrella tooth function more steady



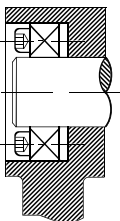
需大扭矩时可以两只胀套同时使用
Two locking devices can be used together when large torque needed



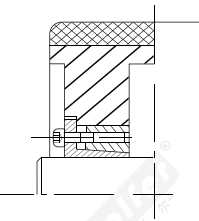
单只Z2型胀套与轴连结
Connection of single Z2 type locking device with axle



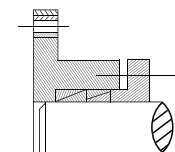
双侧压紧的Z1型胀套在数控机床上消除反向间隙
Two sides compacted Z1 type locking device on numerical lathe can eliminate inverted space



摆杆及凸轮径向或轴向调整更方便
Adjustment of pendulum rod and cam on radial or axial is more convenient



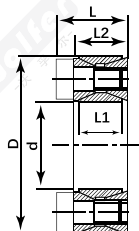
胀套用于皮带输送机传动滚筒中改善焊接性,便于装拆
Locking device applied in transmission cylinder of belt conveyer can improve weldability and easy for disassemble



精密传动正反转无键带来的间隙
The accurate transmission is transferred positive and negatively to the interval that without key to bring

胀紧联结套 Keyless Locking Devices

胀紧联结套-R01型



推荐安装尺寸: The dimension to fix (suggestion):

轴: h8 Shaft: h8

毂: H8 Hub: H8

标记示例:

类似JB/T 7934 Z2型胀套

R01-19-47

外径 Dia

内径 Bore

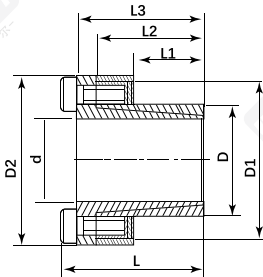
型号 Code

尺寸 Dimensions					传递的 轴向力 Axial Force	传递扭矩 Torque	接触面压强 Contact Pressure		DIN912-12.9级锁紧螺钉 Locking Screws DIN912-12.9			重量 Weight
Φd	ΦD	L1	L2	L			轴 Shaft	毂 Hub	数量	规格	锁紧扭矩 Tightening Torque	
mm	mm	mm	mm	mm	KN	Nm	P N/mm ²	P1 N/mm ²	Qty.	Size	TS Nm	Kgs
19	47	17	20	26	31	298	286	116	8	M6x18	14.9	0.20
20	47	17	20	26	31	313	272	116	8	M6x18	14.9	0.22
22	47	17	20	26	31	345	247	116	8	M6x18	14.9	0.23
24	50	17	20	26	35	424	255	123	9	M6x18	14.9	0.23
25	50	17	20	26	35	441	245	123	9	M6x18	14.9	0.23
28	55	17	20	26	39	549	243	124	10	M6x18	14.9	0.27
30	55	17	20	26	39	588	227	124	10	M6x18	14.9	0.26
32	60	17	20	26	47	752	255	136	12	M6x18	14.9	0.28
35	60	17	20	26	47	822	233	136	12	M6x18	14.9	0.30
38	63	17	20	26	47	830	242	140	14	M6x18	14.9	0.31
38	65	17	20	26	55	1042	250	146	14	M6x18	14.9	0.33
40	65	17	20	26	55	1097	238	146	14	M6x18	14.9	0.32
42	75	20	24	32	83	1740	291	163	12	M8x22	35.0	0.57
45	75	20	24	32	83	1864	271	163	12	M8x22	35.0	0.55
48	80	20	24	32	83	1988	254	153	12	M8x22	35.0	0.60
50	80	20	24	32	83	2071	244	153	12	M8x22	35.0	0.56
55	85	20	24	32	97	2658	259	168	14	M8x22	35.0	0.65
60	90	20	24	32	97	2900	238	158	14	M8x22	35.0	0.66
65	95	20	24	32	110	3587	250	171	16	M8x22	35.0	0.72
70	110	24	28	38	153	5345	268	171	14	M10x25	69.0	1.27
75	115	24	28	38	153	5727	250	163	14	M10x25	69.0	1.33
80	120	24	28	38	153	6108	235	156	14	M10x25	69.0	1.35
85	125	24	28	38	175	7417	252	172	16	M10x25	69.0	1.45
90	130	24	28	38	175	7854	238	165	16	M10x25	69.0	1.55
95	135	24	28	38	196	9326	254	179	18	M10x25	69.0	1.65
100	145	26	33	45	227	11362	258	178	14	M12x30	123.3	2.20
110	155	26	33	45	227	12498	234	166	14	M12x30	123.3	2.40
120	165	26	33	45	260	15578	245	178	16	M12x30	123.3	2.60
130	180	34	38	50	325	21095	217	156	20	M12x35	123.3	3.60
140	190	34	38	50	357	24993	221	163	22	M12x35	123.3	3.80
150	200	34	38	50	390	29217	225	169	24	M12x35	123.3	4.10
160	210	34	38	50	422	33756	229	174	26	M12x35	123.3	4.50
170	225	38	44	58	465	39483	212	160	22	M14x40	187.0	5.90
180	235	38	44	58	507	45606	218	167	24	M14x40	187.0	6.10
190	250	46	52	66	591	56163	199	152	28	M14x45	187.0	8.50
200	260	46	52	66	633	63342	203	156	30	M14x45	187.0	9.00
220	285	50	56	72	745	81960	200	154	26	M16x50	290.0	11.00
240	305	50	56	72	860	103162	211	166	30	M16x50	290.0	12.40
260	325	50	56	72	974	126669	221	177	34	M16x50	290.0	19.30
280	355	60	66	84	1124	157339	197	156	32	M18x60	400.0	21.10
300	375	60	66	84	1264	189653	207	166	36	M18x60	400.0	21.50
320	405	72	78	98	1651	264108	211	167	36	M20x70	580.0	29.80

胀紧联结套 Keyless Locking Devices



胀紧联结套-R02型



推荐安装尺寸: The dimension to fix (suggestion):

轴: h8 Shaft: h8

毂: H8 Hub: H8

标记示例:

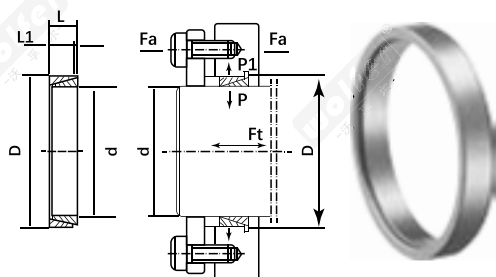
类似JB/T 7934 Z11型胀套

R02-30-41
— 外径 Dia
— 内径 Bore
— 型号 Code

尺寸 Dimensions								传递的 轴向力 Axial Force	传递扭矩 Torque	接触面压强 Contact Pressure		DIN912-12.9级锁紧螺钉 Locking Screws DIN912-12.9			重量 Weight
Φd mm	ΦD mm	L1 mm	L2 mm	L3 mm	L mm	ΦD2	ΦD1			轴 Shaft	毂 Hub	数量 Qty.	规格 Size	锁紧扭矩 Tightening Torque	
6	14	10	19	21	24	25	21	4	12	P N/mm ²	P1 N/mm ²			TS Nm	Kgs
8	15	12	21	24	28	32	28	10	39	299	159	4	M4x10	5.2	0.07
9	16	14	23	27	31	32	28	10	44	227	128	4	M4x12	5.2	0.07
10	16	14	23	27	31	32	28	10	49	205	128	4	M4x12	5.2	0.07
11	18	14	23	27	31	34	30	10	53	186	114	4	M4x12	5.2	0.07
12	18	14	23	27	31	34	30	10	58	171	114	4	M4x12	5.2	0.08
14	23	14	23	27	31	39	35	10	68	146	89	4	M4x12	5.2	0.11
15	24	16	29	36	42	45	40	16	120	196	123	4	M6x18	17.0	0.22
16	24	16	29	36	42	45	40	16	128	184	123	4	M6x18	17.0	0.22
18	26	18	31	38	44	47	42	21	191	194	134	4	M6x18	17.0	0.23
19	27	18	31	38	44	48	43	21	202	183	129	4	M6x18	17.0	0.25
20	28	18	31	38	44	49	44	21	213	174	124	4	M6x18	17.0	0.26
22	32	25	38	45	51	54	48	21	234	114	78	4	M6x18	17.0	0.35
24	34	25	38	45	51	56	50	21	255	105	74	4	M6x18	17.0	0.36
25	34	25	38	45	51	56	50	21	266	100	74	4	M6x18	17.0	0.34
28	39	25	38	45	51	61	55	27	373	112	81	5	M6x18	17.0	0.42
30	41	25	38	45	51	63	57	32	480	126	92	6	M6x18	17.0	0.43
32	43	30	43	50	56	65	59	32	511	98	73	6	M6x18	17.0	0.49
35	47	30	43	50	56	69	63	43	747	120	89	8	M6x18	17.0	0.55
38	50	30	43	50	56	72	66	43	811	110	84	8	M6x18	17.0	0.62
40	53	32	45	52	58	75	69	48	959	110	83	9	M6x18	17.0	0.64
42	55	32	45	52	58	77	71	48	1007	105	80	9	M6x18	17.0	0.85
45	59	40	56	64	72	85	79	79	1781	130	99	8	M8x22	42.0	1.05
48	62	40	56	64	72	88	82	79	1900	122	94	8	M8x22	42.0	1.13
50	65	50	66	74	82	92	85	99	2473	117	90	10	M8x22	42.0	1.26
55	71	50	66	74	82	98	91	99	2721	106	82	10	M8x22	42.0	1.53
60	77	50	66	74	82	104	97	99	2968	97	76	10	M8x22	42.0	1.66
65	84	50	66	74	82	111	104	99	3215	90	69	10	M8x22	42.0	1.90
70	90	60	80	91	101	122	115	127	4430	89	69	8	M10x25	84.0	3.00
75	95	60	80	91	101	126	119	142	5338	93	74	9	M10x25	84.0	3.10
80	100	65	85	96	106	131	124	190	7595	108	86	12	M10x25	84.0	3.30
85	106	65	85	96	106	137	130	190	8069	101	81	12	M10x25	84.0	3.60
90	112	65	85	96	106	143	136	222	9968	112	90	14	M10x25	84.0	4.00
95	120	65	85	96	106	153	144	222	10522	106	84	14	M10x25	84.0	4.70
100	125	65	89	102	114	162	153	273	13651	124	99	12	M12x30	145.0	5.20
110	140	70	94	107	119	177	168	273	15016	105	82	12	M12x30	145.0	8.70
120	155	90	114	127	139	195	185	364	21844	99	77	16	M12x30	145.0	10.6
130	165	90	114	127	139	205	195	364	23664	92	72	16	M12x30	145.0	11.3
140	175	90	114	127	139	215	205	364	25485	85	68	16	M12x30	145.0	12.6
150	185	90	114	127	139	225	215	364	27305	80	64	16	M12x30	145.0	14.8

胀紧联结套 Keyless Locking Devices

胀紧联结套-R03型



推荐安装尺寸:

名义尺寸小于等于38mm:

轴: h6 毂: H7

名义尺寸大于等于40mm:

轴: h8 毂: H8

标记示例:

R03- 8- 11

外径 Dia

内径 Bore

型号 Code

The dimension to fix (suggestion):

Nominal dimension less than 38mm:

shaft: h6 hub: H7

Nominal dimension more than 40mm:

shaft: h8 hub: H8

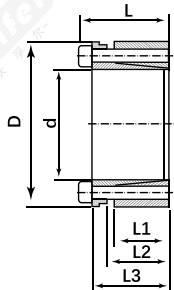
类似JB/T 7934 Z1型胀套

尺寸 Dimensions				加载的轴向压力 Axial Force	传递的轴向力 Axial Force Torque	传递扭矩 Torque	接触面压强 Contact Pressure		重量 Weight
Φd mm	ΦD mm	L mm	L1 mm				轴 Shaft P N/mm ²	毂 Hub P1 N/mm ²	
8	11	4.5	3.7	9.1	1.09	4.3	98	72	0.002
10	13	4.5	3.7	12.1	1.37	6.9	98	75	0.002
12	15	4.5	3.7	12.4	1.64	9.8	98	78	0.002
13	16	4.5	3.7	12.7	1.80	12.0	98	79	0.002
14	18	6.3	5.3	20.4	2.74	19.2	98	76	0.005
15	19	6.3	5.3	23.5	2.94	22.1	98	77	0.005
16	20	6.3	5.3	23.9	3.14	25.1	98	78	0.006
17	21	6.3	5.3	24.2	3.33	28.3	98	79	0.006
18	22	6.3	5.3	24.8	3.53	31.8	98	80	0.007
19	24	6.3	5.3	29.1	3.72	35.3	98	77	0.007
20	25	6.3	5.3	29.5	3.92	39.2	98	78	0.009
22	26	6.3	5.3	28.3	4.31	47.0	98	83	0.007
24	28	6.3	5.3	29.4	4.70	56.8	98	84	0.008
25	30	6.3	5.3	31.8	4.90	60.8	98	81	0.009
28	32	6.3	5.3	31.9	5.49	76.4	98	86	0.010
30	35	6.3	5.3	34.8	5.88	88.2	98	84	0.011
32	36	6.3	5.3	35.9	6.27	100.0	98	87	0.011
35	40	7.0	6.0	44.8	7.74	136.0	98	86	0.016
36	42	7.0	6.0	47.3	7.94	144.0	98	84	0.019
38	44	7.0	6.0	48.8	8.43	160.0	98	84	0.021
40	45	8.0	6.6	57.6	9.75	195.0	98	87	0.021
42	48	8.0	6.6	61.4	10.30	216.0	98	86	0.026
45	52	10.0	8.6	90.3	14.30	321.0	98	85	0.045
48	55	10.0	8.6	92.7	15.30	367.0	98	85	0.043
50	57	10.0	8.6	94.7	15.90	397.0	98	86	0.045
55	62	10.0	8.6	99.7	17.40	480.0	98	87	0.049
56	64	12.0	10.4	125.6	21.60	603.0	98	86	0.070
60	68	12.0	10.4	130.9	23.00	692.0	98	86	0.070
63	71	12.0	10.4	134.6	24.20	764.0	98	87	0.080
65	73	12.0	10.4	134.9	25.00	813.0	98	87	0.090
70	79	14.0	12.2	172.4	31.60	1110.0	98	87	0.115
71	80	14.0	12.2	174.0	32.00	1140.0	98	87	0.110
75	84	14.0	12.2	185.7	33.80	1260.0	98	87	0.120
80	91	17.0	15.0	247.1	44.10	1770.0	98	86	0.210
90	101	17.0	15.0	266.2	50.00	2240.0	98	87	0.220
100	114	21.0	18.7	370.8	69.60	3450.0	98	86	0.390
110	124	21.0	18.7	406.1	76.40	4170.0	98	87	0.420
120	134	21.0	18.7	432.0	83.30	4950.0	98	88	0.460
130	148	28.0	25.3	640.8	122.00	7840.0	98	86	0.860
140	158	28.0	25.3	676.5	131.00	9110.0	98	87	0.960
150	168	28.0	25.3	713.0	140.00	10500.0	98	87	1.000



胀紧联结套 Keyless Locking Devices

胀紧联结套-R04型



推荐安装尺寸: The dimension to fix (suggestion):

轴: h8 Shaft: h8

毂: H8 Hub: H8

标记示例:

类似 JB/T 7934 Z3 加长型胀套

R04-19-47

外径 Dia

内径 Bore

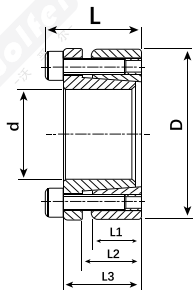
型号 Code

尺寸 Dimensions						传递的轴 向力 Axial Force	传递 扭矩 Torque	接触面压强 Contact Pressure		DIN912-12.9级锁紧螺钉 Locking Screws DIN912-12.9			重量 Weight
								轴 Shaft	毂 Hub	数量	规格	锁紧扭矩 Tightening Torque	
Φd mm	ΦD mm	L1 mm	L2 mm	L3 mm	L mm	Ft KN	Mt Nm	P N/mm ²	P1 N/mm ²	Qty.	Size	TS Nm	Kgs
19	47	26	31	39	45	32	307	193	78	4	M6x25	17	0.37
20	47	26	31	39	45	32	323	183	78	4	M6x25	17	0.37
22	47	26	31	39	45	32	355	166	78	4	M6x25	17	0.35
24	50	26	31	39	45	48	582	229	110	6	M6x25	17	0.40
25	50	26	31	39	45	48	606	220	110	6	M6x25	17	0.38
28	55	26	31	39	45	48	679	196	100	6	M6x25	17	0.45
30	55	26	31	39	45	48	727	183	100	6	M6x25	17	0.43
32	60	26	31	39	45	65	1033	229	122	8	M6x25	17	0.53
35	60	26	31	39	45	65	1130	209	122	8	M6x25	17	0.50
38	65	26	31	39	45	65	1227	193	113	8	M6x25	17	0.60
40	65	26	31	39	45	65	1292	183	113	8	M6x25	17	0.56
42	75	30	36	47	55	87	1835	204	115	6	M8x30	41	0.95
45	75	30	36	47	55	87	1966	191	115	6	M8x30	41	0.92
48	80	30	36	47	55	87	2097	179	107	6	M8x30	41	1.10
50	80	30	36	47	55	87	2184	172	107	6	M8x30	41	1.00
55	85	30	36	47	55	116	3202	208	135	8	M8x30	41	1.10
60	90	30	36	47	55	116	3493	191	127	8	M8x30	41	1.16
65	95	30	36	47	55	116	3784	176	120	8	M8x30	41	1.20
70	110	40	46	57	67	189	6607	199	127	8	M10x35	83	2.30
75	115	40	46	62	72	189	7079	186	121	8	M10x35	83	2.50
80	120	40	46	62	72	189	7551	174	116	8	M10x35	83	2.70
85	125	40	46	62	72	236	10029	205	139	10	M10x35	83	2.90
90	130	40	46	62	72	236	10619	193	134	10	M10x35	83	3.20
95	135	40	46	62	72	236	11209	183	129	10	M10x35	83	3.50
100	145	46	52	77	89	275	13738	176	121	8	M12x45	145	4.00
110	155	46	52	77	89	275	15111	160	114	8	M12x45	145	4.30
120	165	46	52	77	89	343	20606	183	133	10	M12x45	145	4.40
130	180	46	52	77	89	412	26788	203	147	12	M12x45	145	5.70
140	190	51	59	84	98	373	26142	154	114	8	M14x45	230	6.70
150	200	51	59	84	98	467	35016	180	135	10	M14x45	230	7.00
160	210	51	59	84	98	467	37351	169	129	10	M14x45	230	7.00
170	225	51	59	84	98	560	47617	191	144	12	M14x45	230	8.50
180	235	51	59	84	98	560	50418	180	138	12	M14x45	230	9.00



胀紧联结套 Keyless Locking Devices

胀紧联结套-R05型



推荐安装尺寸: The dimension to fix (suggestion):

轴: h8 Shaft: h8

毂: H8 Hub: H8

标记示例: 类似 JB/T 7934 Z3 型胀套

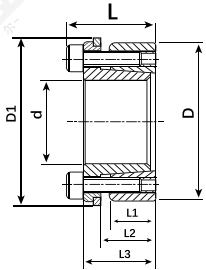
R05-19-47
—— 外径 Dia
—— 内径 Bore
—— 型号 Code

尺寸 Dimensions						传递的 轴向力 Axial Force	传递扭矩 Torque	接触面压强 Contact Pressure		DIN912-12.9级锁紧螺钉 Locking Screws DIN912-12.9			重量 Weight
								轴 Shaft	毂 Hub	数量	规格	锁紧扭矩 Tightening Torque	
Φd mm	ΦD mm	L1 mm	L2 mm	L3 mm	L mm	Ft KN	Mt Nm	P N/mm ²	P1 N/mm ²	Qty.	Size	TS Nm	Kgs
19	47	17	22	28	34	29	273	262	106	5	M6x20	13	0.29
20	47	17	22	28	34	29	287	249	106	5	M6x20	13	0.29
22	47	17	22	28	34	29	316	227	106	5	M6x20	13	0.29
24	50	17	22	28	34	34	413	249	120	6	M6x20	13	0.30
25	50	17	22	28	34	34	431	239	120	6	M6x20	13	0.29
28	55	17	22	28	34	34	482	213	109	6	M6x20	13	0.35
30	55	17	22	28	34	34	517	199	109	6	M6x20	13	0.35
32	60	17	22	28	34	46	734	249	133	8	M6x20	13	0.40
35	60	17	22	28	34	46	803	227	133	8	M6x20	13	0.40
38	65	17	22	28	34	46	872	210	122	8	M6x20	13	0.40
40	65	17	22	28	34	46	918	199	122	8	M6x20	13	0.40
42	75	20	25	33	41	74	1563	261	146	7	M8x25	32	0.70
45	75	20	25	33	41	74	1674	244	146	7	M8x25	32	0.70
50	80	20	25	33	41	74	1860	219	137	7	M8x25	32	0.70
55	85	20	25	33	41	85	2340	228	148	8	M8x25	32	0.77
60	90	20	25	33	41	85	2553	209	139	8	M8x25	32	0.84
65	95	20	25	33	41	96	3110	217	149	9	M8x25	32	0.88
70	110	24	30	40	50	138	4838	243	154	8	M10x30	65	1.58
75	115	24	30	40	50	138	5184	226	148	8	M10x30	65	1.60
80	120	24	30	40	50	138	5530	212	142	8	M10x30	65	1.70
85	125	24	30	40	50	156	6610	225	153	9	M10x30	65	2.00
90	130	24	30	40	50	156	6998	212	147	9	M10x30	65	2.20
95	135	24	30	40	50	173	8208	223	157	10	M10x30	65	1.93
100	145	26	32	44	56	195	9742	221	152	8	M12x35	110	3.00
110	155	26	32	44	56	195	10716	201	143	8	M12x35	110	2.90
120	165	26	32	44	56	219	13154	207	151	9	M12x35	110	3.40
130	180	34	40	52	64	292	18996	195	141	12	M12x35	110	5.20
140	190	34	40	54	68	291	20336	180	133	9	M14x40	170	5.10
150	200	34	40	54	68	323	24211	187	140	10	M14x40	170	5.70
160	210	34	40	54	68	355	28408	192	147	11	M14x40	170	6.00
170	225	44	50	64	78	387	32929	153	115	12	M14x40	170	6.90
180	235	44	50	64	78	387	34866	144	110	12	M14x40	170	8.80



胀紧联结套 Keyless Locking Devices

胀紧联结套-R06型



推荐安装尺寸: The dimension to fix (suggestion):

轴: h8 Shaft: h8

毂: H8 Hub: H8

标记示例:

类似 JB/T 7934 Z13 型胀套

R06-19-47

外径 Dia

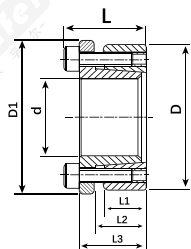
内径 Bore

型号 Code

尺寸 Dimensions							传递的 轴向力 Axial Force	传递扭矩 Torque	接触面压强 Contact Pressure		DIN912-12.9级锁紧螺钉 Locking Screws DIN912-12.9		
									轴 Shaft	毂 Hub	数量	规格	锁紧扭矩 Tightening Torque
Φd mm	ΦD mm	ΦD1 mm	L1 mm	L2 mm	L3 mm	L mm	Ft KN	Mt Nm	P N/mm ²	P1 N/mm ²	Qty.	Size	TS Nm
19	47	53	26	31	39	45	21	202	127	51	4	M6x20	17
20	47	53	26	31	39	45	21	213	121	51	4	M6x20	17
22	47	53	26	31	39	45	21	234	110	51	4	M6x20	17
24	50	56	26	31	39	45	32	384	151	73	6	M6x20	17
25	50	56	26	31	39	45	32	400	145	73	6	M6x20	17
28	55	61	26	31	39	45	32	448	129	66	6	M6x20	17
30	55	61	26	31	39	45	32	480	121	66	6	M6x20	17
32	60	66	26	31	39	45	43	683	151	81	8	M6x20	17
35	60	66	26	31	39	45	43	747	138	81	8	M6x20	17
38	65	71	26	31	39	45	43	811	127	74	8	M6x20	17
40	65	71	26	31	39	45	43	853	121	74	8	M6x20	17
42	75	81	30	36	47	55	58	1216	135	76	6	M8x30	41
45	75	81	30	36	47	55	58	1302	126	76	6	M8x30	41
48	80	86	30	36	47	55	58	1389	119	71	6	M8x30	41
50	80	86	30	36	47	55	58	1447	114	71	6	M8x30	41
55	85	91	30	36	47	55	77	2124	138	89	8	M8x30	41
60	90	96	30	36	47	55	77	2317	127	84	8	M8x30	41
65	95	101	30	36	47	55	77	2510	117	80	8	M8x30	41
70	110	116	40	46	57	67	125	4381	132	84	8	M10x35	83
75	115	121	40	46	62	72	125	4694	123	80	8	M10x35	83
80	120	126	40	46	62	72	125	5007	115	77	8	M10x35	83
85	125	131	40	46	62	72	156	6651	136	92	10	M10x35	83
90	130	136	40	46	62	72	156	7042	128	89	10	M10x35	83
95	135	141	40	46	62	72	156	7433	121	85	10	M10x35	83
100	145	151	46	52	77	89	182	9104	117	81	8	M12x45	145
110	155	161	46	52	77	89	182	10015	106	75	8	M12x45	145
120	165	171	46	52	77	89	228	13653	122	88	10	M12x45	145
130	180	186	46	52	77	89	273	17747	135	97	12	M12x45	145
140	190	196	51	59	84	98	248	17328	102	75	8	M14x45	230
150	200	206	51	59	84	98	309	23207	119	89	10	M14x45	230
160	210	216	51	59	84	98	309	24754	112	85	10	M14x45	230
170	225	231	51	59	84	98	371	31561	126	95	12	M14x45	230
180	235	241	51	59	84	98	371	33417	119	91	12	M14x45	230

胀紧联结套 Keyless Locking Devices

胀紧联结套-R07型



推荐安装尺寸: The dimension to fix (suggestion):

轴: h8

Shaft: h8

毂: H8

Hub: H8

标记示例:

类似 JB/T 7934 Z8型胀套

R07-19-47

外径 Dia

内径 Bore

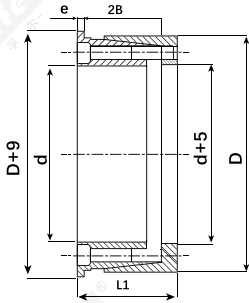
型号 Code

尺寸 Dimensions							传递的 轴向力 Axial Force	传递扭矩 Torque	接触面压强 Contact Pressure		DIN912-12.9级锁紧螺钉 Locking Screws DIN912-12.9		
Φd	ΦD	ΦD1	L1	L2	L3	L			轴 Shaft	毂 Hub	数量 Qty.	规格 Size	锁紧扭矩 Tightening Torque
mm	mm	mm	mm	mm	mm	mm	Ft KN	Mt Nm	P N/mm ²	P1 N/mm ²			TS Nm
19	47	56	17	22	28	34	26	243	234	94	5	M6x20	17
20	47	56	17	22	28	34	26	256	222	94	5	M6x20	17
22	47	56	17	22	28	34	26	282	202	94	5	M6x20	17
24	50	59	17	22	28	34	31	368	222	106	6	M6x20	17
25	50	59	17	22	28	34	31	383	213	106	6	M6x20	17
28	55	64	17	22	28	34	31	429	190	97	6	M6x20	17
30	55	64	17	22	28	34	31	460	177	97	6	M6x20	17
32	60	69	17	22	28	34	41	655	222	118	8	M6x20	17
35	60	69	17	22	28	34	41	716	203	118	8	M6x20	17
38	65	74	17	22	28	34	41	778	187	109	8	M6x20	17
40	65	74	17	22	28	34	41	819	178	109	8	M6x20	17
42	75	84	20	25	33	41	65	1361	227	127	7	M8x25	41
45	75	84	20	25	33	41	65	1458	212	127	7	M8x25	41
50	80	87	20	25	33	41	65	1620	191	119	7	M8x25	41
55	85	94	20	25	33	41	74	2037	199	129	8	M8x25	41
60	90	99	20	25	33	41	74	2223	182	121	8	M8x25	41
65	95	104	20	25	33	41	83	2710	189	126	9	M8x25	41
70	110	119	24	30	40	50	120	4203	211	134	8	M10x30	83
75	115	124	24	30	40	50	120	4754	197	128	8	M10x30	83
80	120	129	24	30	40	50	120	4804	184	123	8	M10x30	83
85	125	134	24	30	40	50	135	5742	195	133	9	M10x30	83
90	130	139	24	30	40	50	135	6080	184	128	9	M10x30	83
95	135	144	24	30	40	50	150	7131	194	137	10	M10x30	83
100	145	154	26	32	44	56	175	8732	198	137	8	M12x35	145
110	155	164	26	32	44	56	175	9605	180	128	8	M12x35	145
120	165	174	26	32	44	56	196	11787	186	135	9	M12x35	145
130	180	189	34	40	52	64	262	17024	175	126	12	M12x35	145
140	190	199	34	40	54	68	267	18703	166	122	9	M14x40	230
150	200	209	34	40	54	68	297	22259	172	129	10	M14x40	230
160	210	219	34	40	54	68	326	26119	177	135	11	M14x40	230
170	225	234	44	50	64	78	356	30276	140	106	12	M14x40	230
180	235	244	44	50	64	78	356	32057	133	102	12	M14x40	230
190	250	259	44	50	64	78	445	42302	157	119	15	M14x40	230
200	260	269	44	50	64	78	445	44528	149	115	15	M14x40	230
220	285	295	50	56	75	91	481	52902	129	100	12	M16x50	355
240	305	315	50	56	75	91	601	72135	148	116	15	M16x50	355
260	325	335	50	56	75	91	641	83370	145	116	16	M16x50	355
280	355	365	60	66	87	105	803	112463	141	111	16	M18x50	500
300	375	385	60	66	87	105	904	135562	148	118	18	M18x50	500

胀紧联结套 Keyless Locking Devices



胀紧联结套-R12型



推荐安装尺寸: The dimension to fix (suggestion):

轴: h8 Shaft: h8

毂: H8 Hub: H8

标记示例:

类似 JB/T 7934 Z9 标准胀套

R12-100-145

外径Dia

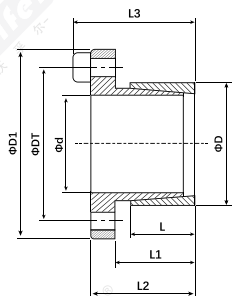
内径 Bore

型号Code

尺寸 Dimensions					传递的轴向力 Transmitted Axial Force	传递扭矩 Transmitted Torque	接触面压强 Contact Pressure		DIN912锁紧螺钉12.9级(1) DIN912 Locking Screw12.9(1)		
							轴 Shaft	毂 Hub	数量	规格	锁紧扭矩 Tightening Torque
Φd mm	ΦD mm	L mm	L1 mm	L2 mm	Ft KN	Mt Nm	P N/mm ²	P1 N/mm ²	Qty.	Size	TS Nm
100	145	75	5	65	192	9.6	102	70	8	M12x60	145
110	155	75	5	65	191	10.5	93	66	8	M12x60	145
120	165	75	5	65	216	13	96	70	9	M12x60	145
130	180	84	6	72	287	17.8	100	78	12	M12x70	145
140	190	84	6	72	287	20.2	94	69	12	M12x70	145
150	200	84	6	72	287	21.6	88	66	12	M12x70	145
160	210	84	6	72	360	28.8	101	77	15	M12x70	145
170	225	84	6	72	383	32.6	101	76	16	M12x70	145
180	235	84	6	72	431	38.8	108	82	18	M12x70	145
190	250	94	6	81	493	46.8	106	80	15	M14x75	230
200	260	94	6	81	526	52.8	100	77	16	M14x75	230
220	285	94	6	81	640	70	119	92	14	M16x75	355
240	305	112	7	98	731	88	96	75	16	M16x90	355
260	325	112	7	98	822	107	103	82	18	M16x90	355
280	355	120	8	106	910	128	96	75	20	M16x100	355
300	375	120	8	106	1000	151	99	79	22	M16x100	355
320	405	142	8	125	1280	206	101	80	18	M20x120	690
340	425	142	8	125	1420	242	106	85	20	M20x120	690
360	455	159	8	140	1770	319	113	89	20	M22x130	930
380	475	159	8	140	1770	337	109	87	20	M22x130	930
400	485	159	8	140	1770	355	101	83	20	M22x130	930
420	515	159	8	140	1980	410	107	87	22	M22x130	930

胀紧联结套 Keyless Locking Devices

胀紧联结套-R13型



推荐安装尺寸: The dimension to fix (suggestion):

轴: h8 Shaft: h8

毂: H8 Hub: H8

标记示例: 类似 JB/T 7934 Z14 胀套

R13-14-25

外径 Dia

内径 Bore

型号 Code

标准胀套不含螺栓,如需要螺栓请特别提出

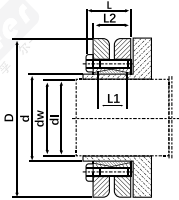
The standard locking device doesn't include bolts. Please contact us if you need

尺寸 Dimensions								传递的轴向力 Transmitted Axial Force	传递扭矩 Transmitted Torque	接触面压强 Contact Pressure		DIN912锁紧螺钉12.9级(1) DIN912 Locking Screw12.9(1)		
										轴 Shaft	毂 Hub	数量	规格	锁紧扭矩 Tightening Torque
Φd mm	ΦD mm	ΦD1 mm	ΦDT mm	L mm	L1 mm	L2 mm	L3 mm	Ft KN	Mt Nm	P N/mm ²	P1 N/mm ²	Qty.	Size	TS Nm
14	25	42	33	16	20	26	30	9	64	109	0	4	M4	2.9
16									73	96				
18									82	85				
19									87	81				
20	30	50	39	16	20	26	31	15	152	127	65	4	M5	6
22									167	116				
24									182	106				
25									190	102				
28	36	55	45	16	20	26	31	15	213	91	57	4	M5	6
30									228	85				
32									243	80				
35	42	62	51	16	20	28	33	5	266	73	50	4	M5	6
36									274	71				
38									400	93				
40	48	70	58	16	20	28	34	21	421	88	61	4	M6	10
42									442	84				
45	55	82	67	20	25	35	43	40	890	118	79	4	M8	25
48									949	110				
50	62	89	74	20	25	35	43	40	989	106	72	4	M8	25
55									1088	96				
60	72	99	84	20	25	35	43	40	1187	88	63	4	M8	25
65									1286	82				



胀紧联结套 Keyless Locking Devices

胀紧联结套-R14型



推荐安装尺寸: The dimension to fix (suggestion):
轴: h8 Shaft: h8

标记示例:

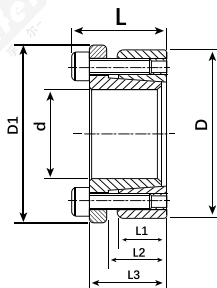
R14-24-50
— 外径 Dia
— 内径 Bore
— 型号 Code

类似 JB/T 7934 Z7B型胀套

尺寸 Dimensions							传递的 轴向力 Axial Force	传递扭矩 Torque	接触面压强 Contact Pressure	DIN912-12.9级锁紧螺钉 Locking Screws DIN931-10.9		
									轴 Shaft	数量 Qty.	规格 Size	锁紧扭矩 Tightening Torque
Φd mm	ΦD mm	Φdw mm	L1 mm	L2 mm	L mm	c(dw-d1) mm	Ft KN	Mt Nm	P N/mm ²			TS Nm
24	50	19 20 21	14	19.5	23.0	0.017	15.0 18.5 21.0	162 200 238	272.0	6	M5x18	4.9
30	60	24 25 26	16	21.5	25.0	0.017	15.7 23.7 26.7	285 323 361	221.0	7	M5x18	4.9
36	72	28 30 31	18	23.5	27.5	0.032	27.0 38.0 43.0	418 542 599	292.0	5	M6x20	11.8
44	80	32 35 36	20	25.5	29.5	0.032	44.0 49.0 54.0	589 741 817	301.0	7	M6x20	11.8
50	90	38 40 42	22	27.5	31.5	0.032	48.8 58.8 69.0	893 1102 1311	275.0	8	M6x25	11.8
55	100	42 45 48	23	30.5	34.5	0.032	48.0 61.7 77.0	1102 1444 1786	239.0	8	M6x25	11.8
62	110	48 50 52	23	30.5	34.5	0.048	69.0 80.9 90.0	1758 2090 2280	265.0	10	M6x25	11.8
68	115	50 55 60	23	30.5	34.5	0.048	71.2 80.9 95.7	1900 2375 2993	242.0	10	M6x25	11.8
75	138	55 60 65	25	32.5	37.8	0.048	94.4 111.0 126.0	2375 3040 3753	259.0	7	M8x30	29.4
80	145	60 65 70	25	32.5	37.8	0.048	99.3 115.0 130.0	3040 3705 4370	243.0	7	M8x30	29.4
90	155	65 70 75	30	39.0	44.3	0.048	141.0 160.0 178.0	4513 5700 6888	257.0	10	M8x35	29.4
100	170	70 75 80	34	44.0	49.3	0.048	163.0 182.0 202.0	6555 7125 8550	245.0	12	M8x35	29.4
110	185	75 80 85	39	50.0	56.4	0.048	185.0 207.0 221.0	6840 8550 10260	232.0	9	M10x40	57.8
125	215	85 90 95	42	54.0	60.4	0.069	240.0 262.0 285.0	10450 12350 14250	253.0	12	M10x40	57.8
140	230	95 100 105	46	60.5	68.0	0.069	308.0 331.0 357.0	14345 16720 19095	251.0	10	M12x45	98.0
155	265	105 110 115	50	64.5	72.0	0.069	366.0 392.0 417.0	20900 23750 26600	250.0	12	M12x50	98.0
165	290	115 120 125	56	71.0	81.0	0.069	513.0 544.0 564.0	29450 33250 37050	263.0	8	M16x55	245.0
175	300	125 130 135	56	71.0	81.0	0.079	576.0 630.0 666.0	34200 38950 45000	248.0	8	M16x55	250.0

胀紧联结套 Keyless Locking Devices

胀紧联结套-R15型



推荐安装尺寸: The dimension to fix (suggestion):

轴: h8 Shaft: h8

毂: H8 Hub: H8

标记示例: 类似 JB/T 7934 Z6型胀套

R15-14-55

外径 Dia

内径 Bore

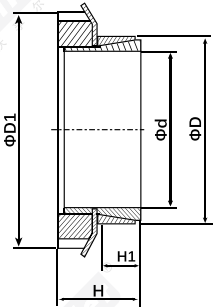
型号 Code

尺寸 Dimensions							传递的 轴向力 Axial Force	传递扭矩 Torque	接触面压强 Contact Pressure		DIN912-12.9级锁紧螺钉 Locking Screws DIN912-12.9		
									轴 Shaft	毂 Hub	数量	规格	锁紧扭矩 Tightening Torque
Φd mm	ΦD mm	ΦD1 mm	L1 mm	L2 mm	L3 mm	L mm	Ft KN	Mt Nm	P N/mm ²	P1 N/mm ²	Qty.	Size	TS Nm
14	55	62	17	22	31	39	33	234	415	106	4	M8x25	37
16	55	62	17	22	31	39	33	268	363	106	4	M8x25	37
18	55	62	17	22	31	39	37	333	357	117	4	M8x25	41
19	55	62	17	22	31	39	37	352	338	117	4	M8x25	41
20	55	62	17	22	31	39	37	370	321	117	4	M8x25	41
22	55	62	17	22	31	39	37	407	292	117	4	M8x25	41
24	55	62	17	22	31	39	37	445	268	117	4	M8x25	41
25	55	62	17	22	31	39	37	463	257	117	4	M8x25	41
28	55	62	17	22	31	39	37	519	229	117	4	M8x25	41
30	55	62	17	22	31	39	37	556	214	117	4	M8x25	41
24	65	72	17	22	31	39	46	556	335	124	5	M8x25	41
25	65	72	17	22	31	39	46	579	321	124	5	M8x25	41
28	65	72	17	22	31	39	46	649	287	124	5	M8x25	41
30	65	72	17	22	31	39	46	695	268	124	5	M8x25	41
32	65	72	17	22	31	39	46	741	251	124	5	M8x25	41
35	65	72	17	22	31	39	46	811	230	124	5	M8x25	41
38	65	72	17	22	31	39	46	880	211	124	5	M8x25	41
40	65	72	17	22	31	39	46	927	201	124	5	M8x25	41
30	80	87	20	25	33	41	65	972	318	119	7	M8x25	41
32	80	87	20	25	33	41	65	1037	299	119	7	M8x25	41
35	80	87	20	25	33	41	65	1134	273	119	7	M8x25	41
38	80	87	20	25	33	41	65	1231	251	119	7	M8x25	41
40	80	87	20	25	33	41	65	1296	239	119	7	M8x25	41
42	80	87	20	25	33	41	65	1361	227	119	7	M8x25	41
45	80	87	20	25	33	41	65	1458	212	119	7	M8x25	41
48	80	87	20	25	33	41	65	1555	199	119	7	M8x25	41
50	80	87	20	25	33	41	65	1620	191	119	7	M8x25	41



胀紧联结套 Keyless Locking Devices

胀紧联结套-R17型



推荐安装尺寸: The dimension to fix (suggestion):

轴: h8 Shaft: h8

毂: H8 Hub: H8

标记示例: 类似 JB/T 7934 Z19A 型胀套

R17-14-25

外径 Dia

内径 Bore

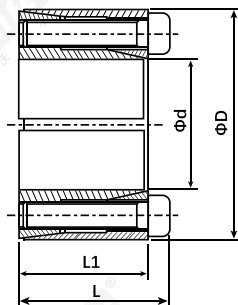
型号 Code

尺寸 Dimensions					传递的 轴向力 Axial Force	传递 扭矩 Torque	接触面压强 Contact Pressure		Slotted out (开槽螺母) Slotted Nut Thread Din1804		
							轴 Shaft	毂 Hub	数量	规格	锁紧扭矩 Tightening Torque
d	D	D1	H	h1	Ft	Mt	P	P1	Qty.	Size	TS
mm	mm	mm	mm	mm	KN	Nm	N/mm ²	N/mm ²			Nm
14	25	32	16.5	6.5	7	52	241	135	1	M20x1	95
15	25	32	16.5	6.5	7	56	225	135	1	M20x1	95
16	25	32	16.5	6.5	7	60	211	135	1	M20x1	95
18	30	38	18.0	6.5	10	91	256	154	1	M25x1.5	160
19	30	38	18.0	6.5	10	96	242	154	1	M25x1.5	160
20	30	38	18.0	6.5	10	102	230	154	1	M25x1.5	160
24	35	45	18.0	6.5	12	139	218	150	1	M30x1.5	220
25	35	45	18.0	6.5	12	144	210	150	1	M30x1.5	220
28	40	52	19.5	7.0	15	215	248	174	1	M35x1.5	340
30	40	52	19.5	7.0	15	230	188	141	1	M35x1.5	340
35	45	58	21.5	8.0	19	331	199	155	1	M40x1.5	480
40	50	65	24.5	10.0	24	477	176	141	1	M45x1.5	680
40	52	65	24.5	10.0	27	480	176	141	1	M45x1.5	680
45	57	70	25.5	10.0	27	617	180	147	1	M50x1.5	870
48	62	75	25.5	10.0	28	669	171	137	1	M55x2	970
50	62	75	25.7	10.0	28	697	164	137	1	M55x2	970
55	68	80	27.5	12.0	29	796	129	109	1	M60x2	1100
60	73	85	28.5	12.0	32	946	129	111	1	M65x2	1300



胀紧联结套 Keyless Locking Devices

胀紧联结套-R18型



推荐安装尺寸: The dimension to fix (suggestion):

轴: h8 Shaft: h8

毂: H8 Hub: H8

标记示例:

类似 JB/T 7934 Za型胀套

R18- 10 - 20

外径 Dia

内径 Bore

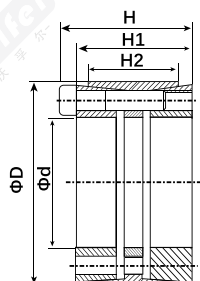
型号 Code

尺寸 Dimensions				传递的 轴向力 Axial Force	传递 扭矩 Torque	接触面压强 Contact Pressure		DIN912-12.9级锁紧螺钉 Locking Screws DIN912-12.9		
						轴 Shaft	毂 Hub	数量	规格	锁紧扭矩 Tightening Torque
d mm	D mm	L1 mm	L mm	Ft KN	Mt Nm	P N/mm ²	P1 N/mm ²	Qty.	Size	TS Nm
10	20	13	15.5	3.8	19	89	45	4	M2.5x12	1.2
11	22	13	15.5	3.8	21	81	41	4	M2.5x12	1.2
12	22	13	15.5	3.8	23	75	41	4	M2.5x12	1.2
14	26	17	20	5.5	39	71	38	4	M3x16	2.1
15	28	17	20	5.5	42	66	35	4	M3x16	2.1
16	32	17	21	9.6	77	107	54	4	M4x16	4.9
17	35	21	25	9.6	82	81	40	4	M4x20	4.9
18	35	21	25	9.6	87	77	40	4	M4x20	4.9
19	35	21	25	9.6	91	73	40	4	M4x20	4.9
20	38	21	26	15.7	157	113	60	4	M5x20	10.0
22	40	21	26	15.7	173	103	57	4	M5x20	10.0
24	47	26	32	22.3	268	110	56	4	M6x24	17.0
25	47	26	32	22.3	279	105	56	4	M6x24	17.0
28	50	26	32	33.5	468	141	79	6	M6x24	17.0
30	55	26	32	33.5	502	132	72	6	M6x24	17.0
32	55	26	32	33.5	535	123	72	6	M6x24	17.0
35	60	31	37	44.6	781	125	73	8	M6x28	17.0
38	65	31	37	44.6	848	115	67	8	M6x28	17.0
40	65	31	37	44.6	892	110	67	8	M6x28	17.0
42	75	36	44	60.6	1272	122	68	6	M8x34	41.0
45	75	36	44	60.6	1363	113	68	6	M8x34	41.0
48	80	36	44	80.8	1938	142	85	8	M8x34	41.0
50	80	36	44	80.8	2019	136	85	8	M8x34	41.0



胀紧联结套 Keyless Locking Devices

胀紧联结套- R19型



推荐安装尺寸: The dimension to fix (suggestion):

轴: h8 Shaft: h8

毂: H8 Hub: H8

标记示例:

R19-25-50

— 外径 Dia

— 内径 Bore

— 型号 Code

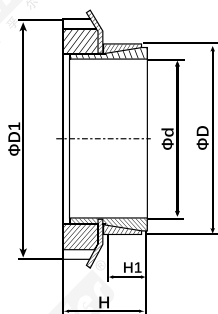
类似 JB/T 7934 Z12A 型胀套

尺寸 Dimensions					传递的 轴向力 Axial Force	传递 扭矩 Torque	接触面压强 Contact Pressure		DIN912-12.9级锁紧螺钉 Locking Screws DIN912-12.9			重量 Weight
							轴 Shaft	毂 Hub	数量	规格	锁紧扭矩 Tightening Torque	
d	D	H	H1	H2	Ft	Mt	P	P1	Qty.	Size	TS	Kgs
mm	mm	mm	mm	mm	KN	Nm	N/mm ²	N/mm ²			Nm	
25	50	46	40	32	64	799	314	107	6	M6x35	17	0.35
28	55	46	40	32	64	895	281	107	6	M6x35	17	0.42
30	55	46	40	32	64	959	262	107	6	M6x35	17	0.40
35	60	60	54	44	75	1306	185	83	7	M6x45	17	0.60
38	65	62	54	44	135	2567	308	121	7	M8x50	41	1.15
40	65	51	45	39	135	2702	293	121	7	M8x50	41	1.10
40	75	62	54	44	135	2780	284	121	7	M8x50	41	1.35
42	75	62	54	44	135	2837	279	121	7	M8x50	41	1.25
45	75	62	54	44	135	3040	260	121	7	M8x50	41	1.15
48	80	72	64	56	154	3707	216	102	8	M8x55	41	1.30
50	80	72	64	56	154	3861	207	102	8	M8x55	41	1.26
55	85	72	64	56	174	4779	212	108	9	M8x55	41	1.36
60	90	72	64	56	193	5793	216	113	10	M8x55	41	1.46
65	95	72	64	56	193	6276	199	107	10	M8x55	41	1.55
70	110	88	78	70	313	10951	235	120	10	M10x60	83	2.90
75	115	88	78	70	313	11733	220	115	10	M10x60	83	3.00
80	120	88	78	70	344	13768	227	121	11	M10x60	83	3.30
85	125	88	78	70	376	15959	233	127	12	M10x60	83	3.40
90	130	88	78	70	376	16898	220	122	12	M10x60	83	3.50
95	135	88	78	70	376	17837	208	117	12	M10x60	83	3.70
100	145	112	100	90	501	25029	211	113	11	M12x80	145	5.50
110	155	112	100	90	546	30039	209	115	12	M12x80	145	6.00
120	165	112	100	90	637	38226	224	127	14	M12x80	145	6.40
130	180	130	116	104	743	48270	201	117	12	M14x90	230	10.00
140	190	130	116	104	866	60654	217	129	14	M14x90	230	10.00
150	200	130	116	104	928	69628	217	132	15	M14x90	230	10.30
160	210	130	116	104	990	79220	217	134	16	M14x90	230	12.40
170	225	164	148	134	1186	100851	206	116	14	M16x110	360	15.70
180	235	164	148	134	1271	114414	208	119	15	M16x110	360	17.60
190	250	164	148	134	1356	128814	210	119	16	M16x110	360	19.60
200	260	164	148	134	1356	135594	200	115	16	M16x110	360	21.50
220	285	164	148	134	1526	167805	204	118	18	M16x110	360	33.00



胀紧联结套 Keyless Locking Devices

胀紧联结套-R21型



推荐安装尺寸: The dimension to fix (suggestion):

轴: h8 Shaft: h8

毂: H8 Hub: H8

标记示例: 类似 JB/T 7934 Z19B 型胀套

R21-15-25

外径 Dia

内径 Bore

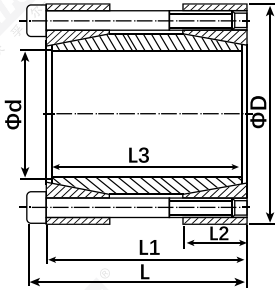
型号 Code

尺寸 Dimensions					传递的 轴向力 Axial Force	传递 扭矩 Torque	接触面压强 Contact Pressure		Slotted out (开槽螺母) Slotted Nut Thread Din1804		
							轴 Shaft	毂 Hub	数量	规格	锁紧扭矩 Tightening Torque
d	D	D1	H	h1	Ft	Mt	P	P1	Qty.	Size	TS
mm	mm	mm	mm	mm	KN	Nm	N/mm ²	N/mm ²			Nm
15	25	32	31	20	9	77	91	55	1	M20x1	95
18	30	38	33	21	13	125	98	59	1	M25x1.5	160
19	30	38	33	21	13	132	93	59	1	M25x1.5	160
20	30	38	33	21	13	139	88	59	1	M25x1.5	160
24	35	45	38	25	15	202	74	51	1	M30x1.5	220
25	35	45	38	25	15	210	71	51	1	M30x1.5	220
28	40	52	44	28	20	312	76	53	1	M35x1.5	340
30	40	52	44	28	20	335	71	53	1	M35x1.5	340
35	45	58	45	28	25	483	75	58	1	M40x1.5	480
40	50	65	46	28	31	696	82	66	1	M45x1.5	680
45	55	70	47	28	36	902	84	69	1	M50x1.5	870
50	60	75	47	28	37	1014	77	64	1	M55x2	970
55	65	80	48	28	38	1158	73	61	1	M60x2	1100
60	70	85	50	28	41	1379	73	62	1	M65x2	1300



胀紧联结套 Keyless Locking Devices

胀紧联结套-R22型



推荐安装尺寸: The dimension to fix (suggestion):

轴: h8 Shaft: h8

标记示例:

R22-15-45

— 外径 Dia

— 内径 Bore

— 型号 Code

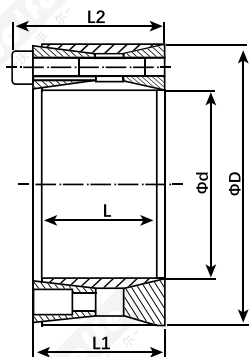
类似 JB/T 7934 Z17 型胀套

尺寸 Dimensions						传递的 轴向力 Axial Force	传递 扭矩 Torque	接触面压强 Contact Pressure	DIN912-12.9级锁紧螺钉 Locking Screws DIN912-12.9		
								轴 Shaft	数量	规格	锁紧扭矩 Tightening Torque
d	D	L	L1	L2	L3	Ft	Mt	P	Qty.	Size	TS
mm	mm	mm	mm	mm	mm	KN	Nm	N/mm ²			Nm
15	45	56	50	16.0	44	21	158	188	4	M6x45	17
16	50	56	50	16.0	44	21	168	176	4	M6x45	17
17	50	56	50	16.0	44	21	179	166	4	M6x45	17
18	50	56	50	16.0	44	21	190	157	4	M6x45	17
19	50	56	50	16.0	44	21	200	149	4	M6x45	17
20	50	56	50	16.0	44	21	211	141	4	M6x45	17
24	55	66	60	18.5	54	32	378	144	6	M6x55	17
25	55	66	60	18.5	54	32	394	138	6	M6x55	17
28	60	66	60	18.5	54	32	442	123	6	M6x55	17
30	60	66	60	18.5	54	32	473	115	6	M6x55	17
32	63	66	60	18.5	54	32	505	108	6	M6x55	17
35	75	83	75	22.0	67	39	682	98	4	M8x70	42
38	75	83	75	22.0	67	39	741	90	4	M8x70	42
40	75	83	75	22.0	67	39	780	86	4	M8x70	42
42	78	83	75	22.0	67	39	819	82	4	M8x70	42
45	85	93	85	24.5	76	59	1317	101	6	M8x80	42
48	90	93	85	24.5	76	59	1405	95	6	M8x80	42
50	90	93	85	24.5	76	59	1463	91	6	M8x80	42
55	94	93	85	24.5	76	78	2147	110	8	M8x80	42
60	100	93	85	24.5	76	78	2343	101	8	M8x80	42
65	105	93	85	24.5	76	78	2538	93	8	M8x80	42
70	115	110	100	29.0	90	123	4321	116	8	M10x95	83



胀紧联结套 Keyless Locking Devices

胀紧联结套 R33型



推荐安装尺寸: The dimension to fix (suggestion):

轴: h8 Shaft: h8

毂: H8 Hub: H8

标记示例:

R33-70-120

外径 Dia

内径 Bore

型号 Code

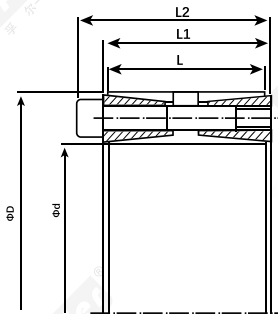
类似 JB/T 7934 Z4 型胀套

尺寸 Dimensions					传递的 轴向力 Axial Force	传递 扭矩 Torque	接触面压强 Contact Pressure		DIN912-12.9级锁紧螺钉 Locking Screws DIN912-12.9		
							轴 Shaft	毂 Hub	数量	规格	锁紧扭矩 Tightening Torque
d	D	L	L1	L2	Ft	Mt	P	P1	Qty.	Size	TS
mm	mm	mm	mm	mm	KN	Nm	N/mm ²	N/mm ²			Nm
70	120	56	62	74	197	6850	201	117	8	M12x55	145
80	130	56	62	74	291	11650	263	162	12	M12x55	145
90	140	56	62	74	290	13000	234	150	12	M12x55	145
100	160	74	80	94	389	19700	213	133	12	M14x70	230
110	170	74	80	94	483	26600	242	157	14	M14x70	230
120	180	74	80	94	483	28900	222	148	15	M14x70	230
130	190	74	80	94	483	31200	205	140	15	M14x70	230
140	200	74	80	94	574	40200	227	159	17	M14x70	230
150	210	74	80	94	574	42900	212	152	18	M14x70	230
160	230	88	94	110	800	64000	227	158	17	M16x80	355
170	240	88	94	110	800	67800	214	152	18	M16x80	355
180	250	88	94	110	923	83000	235	170	20	M16x80	355
190	260	88	94	110	923	88000	223	163	21	M16x80	355
200	270	88	94	110	1050	105000	242	179	23	M16x80	355
220	300	110	116	134	1120	123000	189	138	21	M18x100	485



胀紧联结套 Keyless Locking Devices

胀紧联结套-R37型



推荐安装尺寸: The dimension to fix (suggestion):

轴: h8 Shaft: h8

毂: H8 Hub: H8

标记示例:

类似 JB/T 7934 Z5 型胀套

R37-100-145

外径 Dia

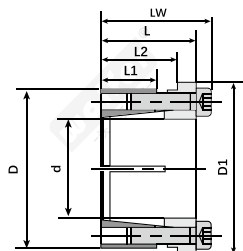
内径 Bore

型号 Code

尺寸 Dimensions					传递的 轴向力 Axial Force	传递 扭矩 Torque	接触面压强 Contact Pressure		DIN912-12.9级锁紧螺钉 Locking Screws DIN912-12.9		
							轴 Shaft	毂 Hub	数量 Qty.	规格 Size	锁紧扭矩 Tightening Torque
d mm	D mm	L mm	L1 mm	L2 mm	Ft KN	Mt Nm	P N/mm ²	P1 N/mm ²			TS Nm
100	145	60	65	77	288	14400	192	132	10	M12x55	145
110	155	60	65	77	288	15850	175	123	10	M12x55	145
120	165	60	65	77	346	20750	192	139	12	M12x55	145
130	180	68	74	86	433	28100	193	139	15	M12x60	145
140	190	68	74	86	519	36300	214	157	18	M12x60	145
150	200	68	74	86	519	39000	200	150	18	M12x60	145
160	210	68	74	86	606	48500	219	167	21	M12x60	145
170	225	75	81	95	712	60600	215	162	18	M14x65	230
180	235	75	81	95	712	64100	203	155	18	M14x65	230
190	250	88	94	108	792	75200	178	135	20	M14x75	230
200	260	88	94	108	950	95000	203	156	24	M14x75	230
220	285	98	104	120	990	109000	183	141	18	M16x90	355

胀紧联结套 Keyless Locking Devices

胀紧联结套-R39型



标记示例:

R39-5x16x13

长度
外径 Dia
内径 Bore
型号 Code

规格 Size (mm)	尺寸 Dimensions (mm)				额定负载 Rated Load		接触压力 Contact Pressure		锁紧螺钉 Locking Screws (G.12.9)	重量(约) Weight (Approx)
dxDxL	D1	L1	L2	LW	轴向 Axial (KN)	扭矩 Torque (N·m)	轴 Shaft (Mpa)	毂 Hub (Mpa)	拧紧力矩 Tightening (N·m)	(kg)
R39 - 5 x 16 x 13	18.5	8.0	11.2	16.0	4.89	10	191	110	2	0.02
R39 - 6 x 19 x 14.5	21.5	9.0	12.5	18.5	9.16	15	181	120	5	0.03
R39 - 6.35 x 20 x 14.5	22.5	9.0	12.5	18.5	9.16	19	165	119	5	0.03
R39 - 8 x 21 x 14.5	23.5	9.5	12.5	18.5	9.16	28	151	112	5	0.04
R39 - 10 x 23 x 15	25.5	9.5	13.0	19.0	9.16	41	145	108	5	0.04
R39 - 11 x 24 x 16	26.5	9.5	14.0	20.0	9.16	46	129	104	5	0.04
R39 - 12 x 26 x 18	28.5	10.5	15.5	22.0	13.8	68	141	106	5	0.06
R39 - 14 x 28 x 18	30.5	10.5	15.5	22.0	13.8	95	161	121	5	0.06
R39 - 15 x 29 x 19	31.5	11.5	16.5	23.0	13.8	98	148	106	5	0.07
R39 - 16 x 30 x 20	33.0	12.0	17.5	23.6	13.8	101	137	99	5	0.07
R39 - 17 x 31 x 20	33.5	12.5	17.5	24.0	18.3	144	131	118	5	0.08
R39 - 18 x 32 x 20	34.5	12.5	17.5	24.0	18.3	153	135	118	5	0.08
R39 - 19 x 33 x 20	35.5	12.5	17.5	24.0	18.3	164	126	102	5	0.08
R39 - 20 x 38 x 24	42.0	15.5	21.0	29.0	29.3	251	141	110	10	0.13
R39 - 22 x 40 x 24	44.0	15.5	21.0	29.0	29.3	308	148	110	10	0.14
R39 - 24 x 42 x 25	46.0	17.5	22.0	30.0	29.3	332	148	111	10	0.16
R39 - 25 x 43 x 26	47.0	17.5	23.0	31.0	29.3	347	136	102	10	0.17
R39 - 28 x 46 x 26.5	50.0	17.5	23.0	31.5	36.7	490	146	119	10	0.19
R39 - 30 x 48 x 26.5	52.0	17.5	23.0	31.5	36.7	525	126	110	10	0.19
R39 - 32 x 50 x 27.5	54.0	18.5	24.0	32.5	36.7	563	118	104	10	0.21
R39 - 35 x 57 x 30	62.0	19.5	26.0	36.0	41.6	702	120	103	17	0.32
R39 - 38 x 60 x 30.5	65.0	20.0	26.0	36.5	51.9	955	125	101	17	0.35
R39 - 40 x 62 x 31	67.0	20.5	27.0	37.0	51.9	1019	118	101	17	0.38
R39 - 42 x 64 x 31	69.0	20.5	27.0	37.0	51.9	1061	120	111	17	0.38
R39 - 45 x 67 x 31.5	72.0	21.0	27.5	37.5	51.9	1138	118	110	17	0.40
R39 - 48 x 70 x 32	75.0	21.0	27.5	38.0	62.3	1446	129	103	17	0.44
R39 - 50 x 72 x 32.5	77.0	21.5	27.5	38.5	72.7	1768	143	114	17	0.46
R39 - 55 x 77 x 32.5	83.0	21.5	27.5	38.5	72.7	1939	133	121	17	0.50
R39 - 60 x 82 x 33.5	87.0	22.0	28.5	39.5	77.9	2287	131	121	17	0.52
R39 - 65 x 87 x 33.5	92.0	22.0	28.5	39.5	77.9	2432	146	124	17	0.55
R39 - 70 x 97 x 36	103.0	24.0	31.0	44.0	132.0	4415	169	141	41	0.87
R39 - 75 x 102 x 36	108.0	24.0	31.0	44.0	141.0	5154	172	150	41	0.87
R39 - 80 x 107 x 37	113.0	25.0	32.0	45.0	141.0	5536	158	141	41	0.93
R39 - 85 x 112 x 37	118.0	25.0	32.0	45.0	141.0	5886	151	144	41	0.97