



Catalog of Products

SPRINGS

ACCESSORIES

DIE SETS & COMPONENTS

QUALITY PRODUCTS • SUPERIOR CUSTOMER SERVICE • QUICK SHIPPING

QUALITY PRODUCTS - DIECO has been serving the manufacturing industry since 1964. We offer only the finest quality products. Whether you are looking for custom springs, die springs, accessories, die sets or components, you can be confident that your parts will meet or exceed your expectations.

We couldn't fit everything we carry in the catalog. Additional information can be found on our website: www.dieco.us

SUPERIOR CUSTOMER SERVICE - Can't find what you are looking for? Not sure exactly what you need? Give our Customer Service department a call. They are experts in assisting our customers quickly, professionally and efficiently.

Need a custom spring? **CUSTOM** Springs are our specialty. Simply fill out the Custom Spring Form on the next page, send us a drawing or even a sample. Our Customer Service team will take it from there and get back to you with a quote.

QUICK SHIPPING - Place your order for in-stock parts by noon and your order will ship same day! DIECO stocks the full line of Raymond inch series die springs, an extensive assortment of service parts springs, D-Line springs, die components, DIECO Die Makers grease and most of the Accessories listed in this catalog.

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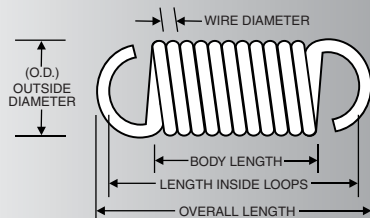
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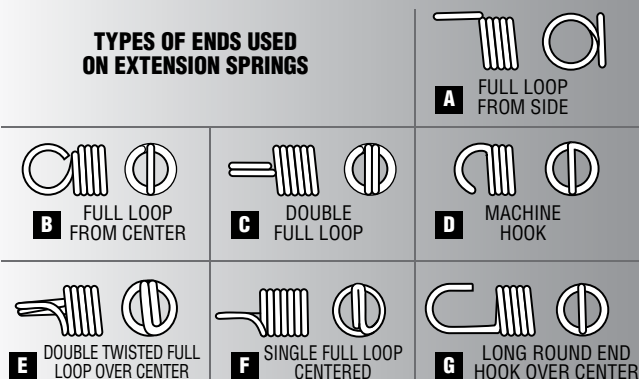


**DIECO® CAN ASSIST YOU IN MAKING ANY SIZE OR TYPE OF SPRING
WE ARE THE SPRING SPECIALISTS!**

EXTENSION SPRINGS



TYPES OF ENDS USED ON EXTENSION SPRINGS



Date: _____

Company Name: _____

Contact: _____

Position: _____

Phone: _____

Fax: _____

E-mail: _____

Quantity: _____ Date Required: _____

Dimensions/Type: ☐ Inch ☐ Metric

☐ Compression ☐ Extension ☐ Torsion ☐ Other

Description: _____

Inside Diameter: _____ Outside Diameter: _____

Fits in Hole Size: _____ Fits over a Rod Size: _____

_____ Lbs. Load at _____ Inches. Free Length: _____

Total # of Coils: _____ Solid Height: _____

Wire Size: _____ Type of Ends: _____

Pitch: _____ R/L Wind: _____

If Extension – Length of Spring Inside of Hooks: _____

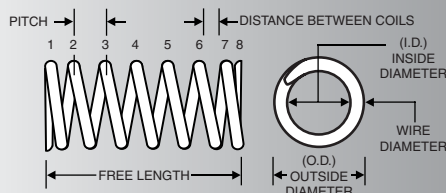
If Extension – Body Length: _____

Finish: _____

Type of Material if Known: _____

Working Environment: _____

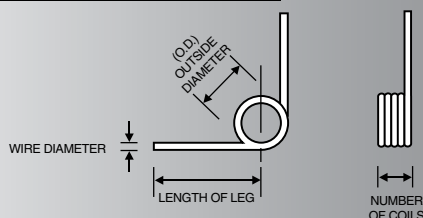
COMPRESSION SPRINGS



STANDARD TYPES OF ENDS USED ON COMPRESSION SPRINGS



TORSION SPRINGS



IMPORTANT
please supply
complete
specifications,
a drawing or a
sample.

Springs

Die Springs BLUE Medium Duty



					Load Deflection Table	
OD x ID x	Length	DIECO Part#	Product Part#	Box Qty	Max. Oper Def 40% of free length	Load at 1/10" (lb.)
3/8 x 3/16 x Wire Size .039 x .070	1	M100	MP02	200	24.0	6.0
	1 1/4	M100A	MP02A	200	27.0	5.4
	1 1/2	M101	MP03	100	24.0	4.0
	1 3/4	M101A	MP03A	100	23.8	3.4
	2	M102	MP04	100	22.4	2.8
	2 1/2	M103	MP05	100	24.0	2.4
	3	M104	MP06	100	25.2	2.1
	12	M105	MP024	50	28.8	0.6
1/2 x 9/32 x Wire Size .052 x .093	1	M110	MP12	100	44.0	11.0
	1 1/4	M110A	MP12A	100	41.0	8.2
	1 1/2	M111	MP13	100	40.8	6.8
	1 3/4	M111A	MP13A	100	42.0	6.0
	2	M112	MP14	100	44.0	5.5
	2 1/2	M113	MP15	50	45.0	4.5
	3	M114	MP16	50	42.0	3.5
	3 1/2	M115	MP17	50	42.0	3.0
	4 1/2	M115A	MP19	50	45.0	2.5
	5 1/2	M115B	MP111	50	46.2	2.1
	6 1/2	M115C	MP113	50	36.4	1.4
	7 1/2	M115D	MP115	50	36.0	1.2
	12	M116	MP124	50	33.6	0.7
5/8 x 11/32 x Wire Size .069 x .109	1	M120	MP22	100	65.6	16.4
	1 1/4	M120A	MP22A	100	64.0	12.8
	1 1/2	M121	MP23	50	64.8	10.8
	1 3/4	M121A	MP23A	50	67.2	9.6
	2	M122	MP24	50	70.4	8.8
	2 1/2	M123	MP25	50	60.0	6.0
	3	M124	MP26	50	67.2	5.6
	3 1/2	M125	MP27	50	67.2	4.8
	4	M126	MP28	50	70.4	4.4
	12	M127	MP224	50	76.8	1.6
3/4 x 3/8 x Wire Size .075 x .165	1	M1	MP32	50	124.8	31.2
	1 1/4	M1A	MP32A	50	128.0	25.6
	1 1/2	M2	MP33	50	120.0	20.0
	1 3/4	M2A	MP33A	50	123.2	17.6
	2	M3	MP34	50	115.2	14.4
	2 1/2	M4	MP35	50	120.0	12.0
	3	M5	MP36	50	115.2	9.6
	3 1/2	M6	MP37	50	112.0	8.0
	4	M7	MP38	50	115.2	7.2
	4 1/2	M8	MP39	50	115.2	6.4
	5	M9	MP310	50	120.0	6.0
	5 1/2	M10	MP311	50	121.0	5.5
	6	M11	MP312	50	120.0	5.0
	6 1/2	M11B	MP313	50	117.0	4.5
	7 1/2	M11C	MP315	50	114.0	3.8
	12	M11A	MP324	50	115.2	2.4
1 x 1/2 x Wire Size .100 x .215	1	M12	MP42	50	220.0	55.0
	1 1/4	M12A	MP42A	50	225.0	45.0
	1 1/2	M13	MP43	50	210.0	35.0
	1 3/4	M13A	MP43A	50	210.0	30.0
	2	M14	MP44	50	208.0	26.0
	2 1/2	M15	MP45	50	200.0	20.0
	3	M16	MP46	25	198.0	16.5

					Load Deflection Table	
OD x ID x	Length	DIECO Part#	Product Part#	Box Qty	Max. Oper Def 40% of free length	Load at 1/10" (lb.)
1 x 1/2 x Wire Size .100 x .215	3 1/2	M17	MP47	25	210.0	15.0
	4	M18	MP48	25	192.0	12.0
	4 1/2	M19	MP49	25	187.2	10.4
	5	M20	MP410	25	192.0	9.6
	5 1/2	M21	MP411	25	193.6	8.8
	6	M22	MP412	25	192.0	8.0
	7	M23	MP414	25	201.6	7.2
	8	M24	MP416	25	192.0	6.0
	12	M24A	MP424	25	192.0	4.0
1 1/4 x 5/8 x Wire Size .115 x .285	1 1/2	M36	MP53	50	297.6	49.6
	1 3/4	M36A	MP53A	50	296.8	42.4
	2	M37	MP54	50	281.6	35.2
	2 1/2	M38	MP55	25	288.0	28.8
	3	M39	MP56	25	288.0	24.0
	3 1/2	M40	MP57	25	280.0	20.0
	4	M41	MP58	25	281.6	17.6
	4 1/2	M42	MP59	25	288.0	16.0
	5	M43	MP510	25	272.0	13.6
	5 1/2	M44	MP511	25	281.6	12.8
	6	M45	MP512	25	288.0	12.0
	7	M46	MP514	25	291.2	10.4
	8	M47	MP516	25	281.6	8.8
	10	M48	MP520	25	288.0	7.2
	12	M48A	MP524	25	288.0	6.0
1 1/2 x 3/4 x Wire Size .135 x .345	2	M49	MP64	25	424.0	53.0
	2 1/2	M50	MP65	25	450.0	45.0
	3	M51	MP66	25	432.0	36.0
	3 1/2	M52	MP67	25	420.0	30.0
	4	M53	MP68	25	432.0	27.0
	4 1/2	M54	MP69	25	414.0	23.0
	5	M55	MP610	25	420.0	21.0
	5 1/2	M55A	MP611	25	407.0	18.5
	6	M56	MP612	25	408.0	17.0
	7	M56A	MP614	25	406.0	14.5
	8	M57	MP616	25	409.6	12.8
	10	M58	MP620	25	400.0	10.0
2 x 1 x Wire Size .195 x .468	12	M58A	MP624	25	384.0	8.0
	2 1/2	M70	MP85	25	1000.0	100.0
	3	M71	MP86	25	996.0	83.0
	3 1/2	M72	MP87	25	907.2	64.8
	4	M73	MP88	25	960.0	60.0
	4 1/2	M74	MP89	25	954.0	53.0
	5	M75	MP810	25	940.0	47.0
	5 1/2	M76	MP811	25	862.4	39.2
	6	M77	MP812	20	936.0	39.0
	7	M79	MP814	20	873.6	31.2
	8	M80	MP816	10	912.0	28.5
	10	M82	MP820	10	832.0	20.8
	12	M83	MP824	10	840.0	17.5

Associated Spring
RAYMOND

A Division of S&B GROUP INC.

OD x ID x	Length	DIECO Part#	Product Part#	Box Qty	Load Deflection Table	
					Max. Oper Def 30% of free length	Load at 1/10" (lb.)
3/8 x 3/16 x Wire Size .046 x .073	1	MHC100	MHP02	200	27.0	9.0
	1 1/4	MHC100A	MHP02A	200	27.4	7.3
	1 1/2	MHC101	MHP03	100	30.2	6.7
	1 3/4	MHC101A	MHP03A	100	30.5	5.8
	2	MHC102	MHP04	100	30.0	5.0
	2 1/2	MHC103	MHP05	100	31.5	4.2
	3	MHC104	MHP06	100	27.0	3.0
	12	MHC105	MHP024	50	32.4	0.9
1/2 x 9/32 x Wire Size .061 x .093	1	MHC110	MHP12	100	50.4	16.8
	1 1/4	MHC110A	MHP12A	100	48.8	13.0
	1 1/2	MHC111	MHP13	100	42.8	9.5
	1 3/4	MHC111A	MHP13A	100	44.6	8.5
	2	MHC112	MHP14	100	45.0	7.5
	2 1/2	MHC113	MHP15	50	45.0	6.0
	3	MHC114	MHP16	50	51.3	5.7
	3 1/2	MHC115	MHP17	50	42.0	4.0
5/8 x 11/32 x Wire Size .081 x .123	12	MHC117	MHP124	50	43.2	1.2
	1	MHC120	MHP22	100	90.0	30.0
	1 1/4	MHC120A	MHP22A	100	80.6	21.5
	1 1/2	MHC121	MHP23	50	85.5	19.0
	1 3/4	MHC121A	MHP23A	50	88.2	16.8
	2	MHC122	MHP24	50	88.8	14.8
	2 1/2	MHC123	MHP25	50	86.3	11.5
	3	MHC124	MHP26	50	90.0	10.0
3/4 x 3/8 x Wire Size .093 x .156	3 1/2	MHC125	MHP27	50	89.3	8.5
	4	MHC126	MHP28	50	91.2	7.6
	12	MHC127	MHP224	50	97.2	2.7
	1	MHC1	MHP32	50	150.0	50.0
	1 1/4	MHC1A	MHP32A	50	142.5	38.0
	1 1/2	MHC2	MHP33	50	144.0	32.0
	1 3/4	MHC2A	MHP33A	50	151.2	28.8
	2	MHC3	MHP34	50	148.8	24.8
1 x 1/2 x Wire Size .115 x .218	2 1/2	MHC4	MHP35	50	144.0	19.2
	3	MHC5	MHP36	50	129.6	14.4
	3 1/2	MHC6	MHP37	50	134.4	12.8
	4	MHC7	MHP38	50	144.0	12.0
	4 1/2	MHC8	MHP39	50	151.2	11.2
	5	MHC9	MHP310	50	135.0	9.0
	5 1/2	MHC10	MHP311	50	132.0	8.0
	6	MHC11	MHP312	50	135.0	7.5
1 x 1/2 x Wire Size .115 x .218	12	MHC11A	MHP324	50	129.6	3.6
	1	MHC12	MHP42	50	228.0	76.0
	1 1/4	MHC12A	MHP42A	50	234.0	62.4
	1 1/2	MHC13	MHP43	50	223.2	49.6
	1 3/4	MHC13A	MHP43A	50	231.0	44.0
	2	MHC14	MHP44	50	240.0	40.0
	2 1/2	MHC15	MHP45	50	232.5	31.0
	3	MHC16	MHP46	25	225.0	25.0
1 x 1/2 x Wire Size .115 x .218	3 1/2	MHC17	MHP47	25	226.8	21.6
	4	MHC18	MHP48	25	220.8	18.4
	4 1/2	MHC19	MHP49	25	229.5	17.0
	5	MHC20	MHP410	25	216.0	14.4
	5 1/2	MHC21	MHP411	25	211.2	12.8
	6	MHC22	MHP412	25	216.0	12.0

OD x ID x	Length	DIECO Part#	Product Part#	Box Qty	Load Deflection Table	
					Max. Oper Def 30% of free length	Load at 1/10" (lb.)
1 x 1/2 x Wire Size .115 x .218	7	MHC23	MHP414	25	210.0	10.0
	8	MHC24	MHP416	25	211.2	8.8
	12	MHC24A	MHP424	25	223.2	6.2
1 1/4 x 5/8 x Wire Size .156 x .281	1 1/2	MHC36	MHP53	50	514.8	114.4
	1 3/4	MHC36A	MHP53A	50	529.2	100.8
	2	MHC37	MHP54	50	518.4	86.4
	2 1/2	MHC38	MHP55	25	468.0	62.4
	3	MHC39	MHP56	25	460.8	51.2
	3 1/2	MHC40	MHP57	25	462.0	44.0
	4	MHC41	MHP58	25	441.6	36.8
	4 1/2	MHC42	MHP59	25	432.0	32.0
	5	MHC43	MHP510	25	435.0	29.0
	5 1/2	MHC44	MHP511	25	435.6	26.4
	6	MHC45	MHP512	25	450.0	25.0
	7	MHC46	MHP514	25	420.0	20.0
	8	MHC47	MHP516	25	441.6	18.4
	10	MHC48	MHP520	25	435.0	14.5
	12	MHC48A	MHP524	25	446.4	12.4
1 1/2 x 3/4 x Wire Size .187 x .312	2	MHC49	MHP64	25	648.0	108.0
	2 1/2	MHC50	MHP65	25	642.0	85.6
	3	MHC51	MHP66	25	561.6	62.4
	3 1/2	MHC52	MHP67	25	554.4	52.8
	4	MHC53	MHP68	25	576.0	48.0
	4 1/2	MHC54	MHP69	25	583.2	43.2
	5	MHC55	MHP610	25	552.0	36.8
	5 1/2	MHC55A	MHP611	25	567.6	34.4
	6	MHC56	MHP612	25	547.2	30.4
	7	MHC56A	MHP614	25	554.4	26.4
	8	MHC57	MHP616	25	528.0	22.0
	10	MHC58	MHP620	25	528.0	17.6
2 x 1 x Wire Size .225 x .437	12	MHC58A	MHP624	20	518.4	14.4
	2 1/2	MHC70	MHP85	25	888.0	118.4
	3	MHC71	MHP86	25	864.0	96.0
	3 1/2	MHC72	MHP87	25	840.0	80.0
	4	MHC73	MHP88	25	796.8	66.4
	4 1/2	MHC74	MHP89	25	810.0	60.0
	5	MHC75	MHP810	25	840.0	56.0
	5 1/2	MHC76	MHP811	25	831.6	50.4
	6	MHC77	MHP812	20	849.6	47.2
	7	MHC79	MHP814	20	840.0	40.0
	8	MHC80	MHP816	10	844.8	35.2
	10	MHC82	MHP820	10	780.8	26.0
	12	MHC83	MHP824	10	806.4	22.4

Springs

Die Springs GOLD Heavy Duty



					Load Deflection Table	
OD x ID x	Length	DIECO Part#	Producto Part#	Box Qty	Max. Oper Def 25% of free length	Load at 1/10" (lb.)
3/8 x 3/16 x Wire Size .054 x .072	1	H100	HP02	200	27.5	11.0
	1 1/4	H100A	HP02A	200	30.6	9.8
	1 1/2	H101	HP03	100	30.0	8.0
	1 3/4	H101A	HP03A	100	36.8	8.4
	2	H102	HP04	100	36.0	7.2
	2 1/2	H103	HP05	100	34.4	5.5
	3	H104	HP06	100	31.5	4.2
	12	H105	HP024	50	36.0	1.2
1/2 x 9/32 x Wire Size .070 x .093	1	H110	HP12	100	59.0	23.6
	1 1/4	H110A	HP12A	100	58.1	18.6
	1 1/2	H111	HP13	100	58.1	15.5
	1 3/4	H111A	HP13A	100	60.4	13.8
	2	H112	HP14	100	55.0	11.0
	2 1/2	H113	HP15	50	52.5	8.4
	3	H114	HP16	50	55.5	7.4
	3 1/2	H115	HP17	50	52.5	6.0
5/8 x 11/32 x Wire Size .093 x .125	12	H117	HP124	50	48.0	1.6
	1	H120	HP22	100	106.0	42.4
	1 1/4	H120A	HP22A	100	92.5	29.6
	1 1/2	H121	HP23	50	102.0	27.2
	1 3/4	H121A	HP23A	50	105.0	24.0
	2	H122	HP24	50	104.0	20.8
	2 1/2	H123	HP25	50	106.3	17.0
	3	H124	HP26	50	108.0	14.4
3/4 x 3/8 x Wire Size .125 x .165	3 1/2	H125	HP27	50	106.8	12.2
	4	H126	HP28	50	108.0	10.8
	12	H127	HP224	50	90.0	3.0
	1	H1	HP32	50	270.0	108.0
	1 1/4	H1A	HP32A	50	275.0	88.0
	1 1/2	H2	HP33	50	246.0	65.6
	1 3/4	H2A	HP33A	50	262.5	60.0
	2	H3	HP34	50	248.0	49.6
1 x 1/2 x Wire Size .158 x .225	2 1/2	H4	HP35	50	250.0	40.0
	3	H5	HP36	50	255.0	34.0
	3 1/2	H6	HP37	50	245.0	28.0
	4	H7	HP38	50	250.0	25.0
	4 1/2	H8	HP39	50	247.5	22.0
	5	H9	HP310	50	243.8	19.5
	5 1/2	H10	HP311	50	233.8	17.0
	6	H11	HP312	50	240.0	16.0
	12	H11A	HP324	50	240.0	8.0
	1	H12	HP42	50	520.0	208.0
	1 1/4	H12A	HP42A	50	535.0	171.2
	1 1/2	H13	HP43	50	444.0	118.4
	1 3/4	H13A	HP43A	50	455.0	104.0
	2	H14	HP44	50	450.0	90.0
	2 1/2	H15	HP45	50	425.0	68.0
	3	H16	HP46	25	408.0	54.4
	3 1/2	H17	HP47	25	399.0	45.6
	4	H18	HP48	25	400.0	40.0
	4 1/2	H19	HP49	25	396.0	35.2
	5	H20	HP410	25	390.0	31.2
	5 1/2	H20A	HP411	25	396.0	28.8
	6	H21	HP412	25	384.0	25.6

					Load Deflection Table	
OD x ID x	Length	DIECO Part#	Producto Part#	Box Qty	Max. Oper Def 25% of free length	Load at 1/10" (lb.)
1 x 1/2 x Wire Size .158 x .225	7	H21A	HP414	25	392.0	22.4
	8	H22	HP416	25	384.0	19.2
	12	H22A	HP424	25	360.0	12.0
1 1/4 x 5/8 x Wire Size .200 x .295	1 1/2	H36	HP53	50	795.0	212.0
	1 3/4	H36A	HP53A	50	794.5	181.6
	2	H37	HP54	50	748.0	149.6
	2 1/2	H38	HP55	25	735.0	117.6
	3	H39	HP56	25	714.0	95.2
	3 1/2	H40	HP57	25	658.0	75.2
	4	H41	HP58	25	664.0	66.4
	4 1/2	H42	HP59	25	657.0	58.4
	5	H43	HP510	25	662.5	53.0
	5 1/2	H44	HP511	25	649.0	47.2
	6	H45	HP512	25	636.0	42.4
	7	H46	HP514	25	644.0	36.8
	8	H47	HP516	25	656.0	32.8
	10	H48	HP520	25	640.0	25.6
	12	H48A	HP524	20	624.0	20.8
1 1/2 x 3/4 x Wire Size .225 x .350	2	H49	HP64	25	952.0	190.4
	2 1/2	H50	HP65	25	968.8	155.0
	3	H51	HP66	25	975.0	130.0
	3 1/2	H52	HP67	25	931.0	106.4
	4	H53	HP68	25	912.0	91.2
	4 1/2	H54	HP69	25	882.0	78.4
	5	H55	HP610	25	890.0	71.2
	5 1/2	H55A	HP611	25	880.0	64.0
	6	H56	HP612	25	876.0	58.4
	7	H56A	HP614	25	868.0	49.6
	8	H57	HP616	25	864.0	43.2
	10	H58	HP620	20	860.0	34.4
2 x 1 x Wire Size .270 x .470	12	H58A	HP624	15	864.0	28.8
	2 1/2	H70	HP85	25	1625.0	260.0
	3	H71	HP86	25	1500.0	200.0
	3 1/2	H72	HP87	25	1487.5	170.0
	4	H73	HP88	25	1500.0	150.0
	4 1/2	H74	HP89	25	1350.0	120.0
	5	H75	HP810	20	1375.0	110.0
	5 1/2	H76	HP811	20	1375.0	100.0
	6	H77	HP812	15	1410.0	94.0
	7	H79	HP814	15	1435.0	82.0
	8	H80	HP816	10	1460.0	73.0
	10	H82	HP820	10	1375.0	55.0
	12	H83	HP824	10	1260.0	42.0

Associated Spring
RAYMOND

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					Load Deflection Table	
OD x ID x	Length	DIECO Part#	Producto Part#	Box Qty	Max. Oper Def 20% of free length	Load at 1/10" (lb.)
3/8 x 3/16 x Wire Size .059 x .080	1	HX100	XHP02	200	44.0	22.0
	1 1/4	HX100A	XHP02A	200	40.0	16.0
	1 1/2	HX101	XHP03	100	37.5	12.5
	1 3/4	HX101A	XHP03A	100	40.3	11.2
	2	HX102	XHP04	100	36.0	9.0
	2 1/2	HX103	XHP05	100	35.0	7.0
	3	HX104	XHP06	100	39.0	6.5
	12	HX105	XHP024	50	36.0	1.5
1/2 x 9/32 x Wire Size .084 x .097	1	HX110	XHP12	100	64.0	32.0
	1 1/4	HX110A	XHP12A	100	60.0	24.0
	1 1/2	HX111	XHP13	100	60.0	20.0
	1 3/4	HX111A	XHP13A	100	59.5	17.0
	2	HX112	XHP14	100	56.0	14.0
	2 1/2	HX113	XHP15	50	57.5	11.5
	3	HX114	XHP16	50	54.0	9.0
	3 1/2	HX115	XHP17	50	56.0	8.0
	12	HX116	XHP124	50	60.0	2.5
5/8 x 11/32 x Wire Size .110 x .126	1	HX120	XHP22	100	126.0	63.0
	1 1/4	HX120A	XHP22A	100	117.5	47.0
	1 1/2	HX121	XHP23	50	114.0	38.0
	1 3/4	HX121A	XHP23A	50	112.0	32.0
	2	HX122	XHP24	50	116.0	29.0
	2 1/2	HX123	XHP25	50	110.0	22.0
	3	HX124	XHP26	50	114.0	19.0
	3 1/2	HX125	XHP27	50	112.0	16.0
	4	HX126	XHP28	50	108.0	13.5
	12	HX127	XHP224	50	108.0	4.5
3/4 x 3/8 x Wire Size .135 x .165	1	HX1	XHP32	50	280.0	140.0
	1 1/4	HX1A	XHP32A	50	275.0	110.0
	1 1/2	HX2	XHP33	50	267.0	89.0
	1 3/4	HX2A	XHP33A	50	262.5	75.0
	2	HX3	XHP34	50	272.0	68.0
	2 1/2	HX4	XHP35	50	250.0	50.0
	3	HX5	XHP36	50	243.0	40.5
	3 1/2	HX6	XHP37	50	241.5	34.5
	4	HX7	XHP38	50	240.0	30.0
	4 1/2	HX8	XHP39	50	238.5	26.5
	5	HX9	XHP310	50	235.0	23.5
	5 1/2	HX10	XHP311	50	236.5	21.5
	6	HX11	XHP312	50	234.0	19.5
	12	HX11A	XHP324	50	228.0	9.5
1 x 1/2 x Wire Size .188 x .225	1 1/2	HX13	XHP43	50	480.0	160.0
	2	HX14	XHP44	50	464.0	116.0
	2 1/2	HX15	XHP45	50	448.0	89.6
	3	HX16	XHP46	25	441.6	73.6
	3 1/2	HX17	XHP47	25	436.8	62.4
	4	HX18	XHP48	25	441.6	55.2
	4 1/2	HX19	XHP49	25	439.2	48.8
	5	HX20	XHP410	25	432.0	43.2
	6	HX21	XHP412	25	432.0	36.0
	12	HX22A	XHP424	25	422.4	17.6

					Load Deflection Table	
OD x ID x	Length	DIECO Part#	Producto Part#	Box Qty	Max. Oper Def 20% of free length	Load at 1/10" (lb.)
1 1/4 x 5/8 x Wire Size .225 x .295	2	HX37	XHP54	50	768.0	192.0
	2 1/2	HX38	XHP55	25	720.0	144.0
	3	HX39	XHP56	25	710.4	118.4
	3 1/2	HX40	XHP57	25	705.6	100.8
	4	HX41	XHP58	25	672.0	84.0
	4 1/2	HX42	XHP59	25	705.6	78.4
	5	HX43	XHP510	25	680.0	68.0
	6	HX45	XHP512	25	672.0	56.0
	8	HX47	XHP516	25	665.6	41.6
	10	HX48	XHP520	25	672.0	33.6
	12	HX48A	XHP524	20	633.6	26.4
1 1/2 x 3/4 x Wire Size .300 x .350	2	HX49	XHP64	25	1504.0	376.0
	2 1/2	HX50	XHP65	25	1472.0	294.4
	3	HX51	XHP66	25	1387.2	231.2
	3 1/2	HX52	XHP67	25	1372.0	196.0
	4	HX53	XHP68	25	1369.6	171.2
	4 1/2	HX54	XHP69	25	1332.0	148.0
	5	HX55	XHP610	25	1360.0	136.0
	6	HX56	XHP612	25	1324.8	110.4
	8	HX57	XHP616	20	1292.8	80.8
	10	HX58	XHP620	15	1344.0	67.2
	12	HX58A	XHP624	10	1305.6	54.4
2 x 1 x Wire Size .365 x .460	2 1/2	HX70	XHP85	25	1908.0	381.6
	3	HX71	XHP86	25	1872.0	312.0
	3 1/2	HX72	XHP87	25	1780.8	254.4
	4	HX73	XHP88	20	1760.0	220.0
	4 1/2	HX74	XHP89	20	1699.2	188.8
	5	HX75	XHP810	15	1728.0	172.8
	6	HX77	XHP812	15	1699.2	141.6
	8	HX80	XHP816	10	1600.0	100.0
	10	HX82	XHP820	10	1680.0	84.0
	12	HX83	XHP824	10	1708.8	71.2

Associated Spring
RAYMOND

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Springs

D-Line GREEN Light Duty



				Load Deflection Table	
OD x ID x	Length	DIECO Part#	Bag Qty	Load @ 40% of free length	Spring Rate per 1/10 inch Def.
3/8 x 3/16 x	1	303104D	50	27.0	7.0
	1 1/4	303105D	50	29.0	5.7
	1 1/2	303106D	50	28.0	4.7
	1 3/4	303107D	50	25.0	3.7
	2	303108D	50	29.0	3.6
	2 1/2	303110D	50	30.0	3.0
	3	303112D	50	29.0	2.4
	12	303148D	10	29.0	0.6
1/2 x 9/32 x	1	303204D	50	42.0	10.6
	1 1/4	303205D	50	43.0	8.5
	1 1/2	303206D	50	44.0	7.3
	1 3/4	303207D	50	44.0	6.4
	2	303208D	50	43.0	5.3
	2 1/2	303210D	50	41.0	4.1
	3	303212D	10	40.0	3.4
	3 1/2	303214D	10	38.0	2.7
	4	303216D	10	38.0	2.3
	12	303248D	10	37.0	0.8
5/8 x 11/32 x	1	303304D	50	71.0	18.1
	1 1/4	303305D	50	67.0	13.3
	1 1/2	303306D	50	70.0	11.7
	1 3/4	303307D	50	71.0	10.2
	2	303308D	50	71.0	8.9
	2 1/2	303310D	50	73.0	7.2
	3	303312D	10	68.0	5.7
	3 1/2	303314D	10	72.0	5.1
	4	303316D	10	70.0	4.3
	4 1/2	303318D	10	68.0	3.8
	12	303348D	10	70.0	1.5
3/4 x 3/8 x	1	303404D	50	125.0	31.6
	1 1/4	303405D	50	125.0	24.8
	1 1/2	303406D	50	117.0	19.6
	1 3/4	303407D	50	110.0	15.8
	2	303408D	50	114.0	14.2
	2 1/2	303410D	50	108.0	10.7
	3	303412D	10	110.0	9.2
	3 1/2	303414D	10	105.0	7.5
	4	303416D	10	109.0	6.8
	4 1/2	303418D	10	112.0	6.3
	5	303420D	10	107.0	5.4
	5 1/2	303422D	10	108.0	4.9
	6	303424D	10	103.0	4.3
	12	303448D	10	105.0	2.2
1 x 1/2 x	1	303504D	50	232	58.9
	1 1/4	303505D	50	232	46.1
	1 1/2	303506D	50	221	36.9
	1 3/4	303507D	50	213	30.7
	2	303508D	50	210	26.2
	2 1/2	303510D	50	205	20.4
	3	303512D	10	195	16.3
	3 1/2	303514D	10	198	14.1
	4	303516D	10	189	11.8
	4 1/2	303518D	10	190	10.6
	5	303520D	10	190	9.5
	5 1/2	303522D	10	183	8.3

				Load Deflection Table	
OD x ID x	Length	DIECO Part#	Bag Qty	Load @ 40% of free length	Spring Rate per 1/10 inch Def.
1 1/4 x 5/8 x	6	303524D	10	186	7.8
	7	303528D	10	189	6.7
	8	303532D	10	193	6.0
	12	303548D	10	185	3.9
	1 1/2	303606D	10	314	52.4
	1 3/4	303607D	10	329	47.5
	2	303608D	10	324	40.3
	2 1/2	303610D	10	317	31.4
	3	303612D	10	312	26.1
	3 1/2	303614D	10	309	22.0
	4	303616D	10	309	19.3
	4 1/2	303618D	10	307	17.1
1 1/2 x 3/4 x	5	303620D	10	295	14.7
	5 1/2	303622D	10	299	13.6
	6	303624D	10	297	12.4
	7	303628D	10	282	10.1
	8	303632D	5	285	8.9
	10	303640D	5	288	7.2
	12	303648D	5	263	5.5
	2	303708D	10	480	59.7
	2 1/2	303710D	10	458	45.4
	3	303712D	10	455	38.0
	3 1/2	303714D	10	458	32.7
	4	303716D	10	446	27.7
2 x 1 x	4 1/2	303718D	10	443	24.7
	5	303720D	10	448	22.4
	5 1/2	303722D	10	440	20.0
	6	303724D	10	434	18.1
	7	303728D	10	437	15.6
	8	303732D	5	428	13.4
	10	303740D	5	431	10.8
	12	303748D	5	424	8.8
	2 1/2	303810D	10	855	84.8
	3	303812D	10	855	71.5
	3 1/2	303814D	10	836	59.7
	4	303816D	10	829	51.6
2 1/2 x 1 1/2 x	4 1/2	303818D	10	806	44.9
	5	303820D	10	804	40.2
	5 1/2	303822D	5	794	36.0
	6	303824D	5	778	32.5
	7	303828D	5	778	27.8
	8	303832D	5	763	23.9
	10	303840D	5	814	20.4
	12	303848D	5	734	15.3
	3	303912D	5	1307	109.2
	3 1/2	303914D	5	1260	89.9
	4	303916D	5	1248	77.7
	4 1/2	303918D	5	1211	67.4

Manufactured to ISO 10243 Standards. Designed to be interchangeable with many manufacturers of the same type, size & color.

OD x ID x	Length	DIECO Part#	Bag Qty	Load Deflection Table	
				Max. Oper Def 40% of free length	Load at 1/10 in Def. (lb.)
3/8 x 3/16 x	1	304104D	50	35.0	8.9
	1 1/4	304105D	50	39.0	7.7
	1 1/2	304106D	50	40.0	6.7
	1 3/4	304107D	50	38.0	5.5
	2	304108D	50	40.0	4.9
	2 1/2	304110D	50	38.0	3.8
	3	304112D	50	38.0	3.1
	12	304148D	10	37.0	0.8
1/2 x 9/32 x	1	304204D	50	66.0	16.8
	1 1/4	304205D	50	65.0	12.8
	1 1/2	304206D	50	64.0	10.7
	1 3/4	304207D	50	63.0	9.1
	2	304208D	50	63.0	7.8
	2 1/2	304210D	50	60.0	6.0
	3	304212D	10	59.0	5.0
	3 1/2	304214D	10	60.0	4.3
	4	304216D	10	58.0	3.6
	12	304248D	10	59.0	1.2
5/8 x 11/32 x	1	304304D	50	125.0	31.8
	1 1/4	304305D	50	115.0	22.8
	1 1/2	304306D	50	118.0	19.8
	1 3/4	304307D	50	121.0	17.5
	2	304308D	50	122.0	15.2
	2 1/2	304310D	50	120.0	11.9
	3	304312D	10	122.0	10.2
	3 1/2	304314D	10	120.0	8.6
	4	304316D	10	122.0	7.6
	4 1/2	304318D	10	121.0	6.7
	12	304348D	10	115.0	2.4
3/4 x 3/8 x	1	304404D	50	205.0	52.0
	1 1/4	304405D	50	195.0	38.8
	1 1/2	304406D	50	188.0	31.5
	1 3/4	304407D	50	185.0	26.6
	2	304408D	50	183.0	22.8
	2 1/2	304410D	50	177.0	17.6
	3	304412D	10	176.0	14.7
	3 1/2	304414D	10	177.0	12.6
	4	304416D	10	178.0	11.1
	4 1/2	304418D	10	176.0	9.7
	5	304420D	10	175.0	8.7
	5 1/2	304422D	10	176.0	8.1
	6	304424D	10	175.0	7.3
	12	304448D	10	176.0	3.7
1 x 1/2 x	1	304504D	50	385.0	97.9
	1 1/4	304505D	50	364.0	72.2
	1 1/2	304506D	50	356.0	59.5
	1 3/4	304507D	50	352.0	50.9
	2	304508D	50	342.0	42.6
	2 1/2	304510D	50	329.0	32.7
	3	304512D	10	335.0	28.0
	3 1/2	304514D	10	327.0	23.3
	4	304516D	10	328.0	20.4
	4 1/2	304518D	10	327.0	18.1
	5	304520D	10	325.0	16.3
	5 1/2	304522D	10	329.0	15.0
	6	304524D	10	325.0	13.6

OD x ID x	Length	DIECO Part#	Bag Qty	Load Deflection Table	
				Max. Oper Def 40% of free length	Load at 1/10 in Def. (lb.)
1 1/4 x 5/8 x	7	304528D	10	322.0	11.5
	8	304532D	10	322.0	10.1
	12	304548D	10	317.0	6.6
	1 1/2	304606D	10	570.0	95.3
	1 3/4	304607D	10	540.0	77.9
	2	304608D	10	533.0	66.4
	2 1/2	304610D	10	504.0	50.0
	3	304612D	10	485.0	40.5
	3 1/2	304614D	10	483.0	34.5
	4	304616D	10	473.0	29.4
	4 1/2	304618D	10	473.0	26.1
	5	304620D	10	476.0	23.8
1 1/2 x 3/4 x	5 1/2	304622D	10	473.0	21.6
	6	304624D	10	461.0	19.3
	7	304628D	10	463.0	16.5
	8	304632D	5	454.0	14.2
	10	304640D	5	456.0	11.4
	12	304648D	5	458.0	9.5
	2	304708D	10	781.0	97.3
	2 1/2	304710D	10	741.0	73.5
	3	304712D	10	733.0	61.2
	3 1/2	304714D	10	713.0	50.9
	4	304716D	10	693.0	43.1
	4 1/2	304718D	10	691.0	38.2
2 x 1 x	5	304720D	10	696.0	34.8
	5 1/2	304722D	10	692.0	31.6
	6	304724D	10	694.0	29.0
	7	304728D	10	688.0	24.6
	8	304732D	5	682.0	21.3
	10	304740D	5	687.0	17.2
	12	304748D	5	679.0	14.1
	2 1/2	304810D	10	1219.0	121.0
	3	304812D	10	1136.0	94.9
	3 1/2	304814D	10	1116.0	79.6
	4	304816D	10	1113.0	69.3
	4 1/2	304818D	10	1106.0	61.1
2 1/2 x 1 1/2 x	5	304820D	10	1082.0	54.1
	5 1/2	304822D	5	1080.0	49.4
	6	304-824D	5	1070.0	44.7
	7	304828D	5	1054.0	37.6
	8	304832D	5	1043.0	32.6
	9	304836D	5	1047.0	29.0
	10	304840D	5	1050.0	26.2
	12	304848D	5	1040.0	21.6
	3	304912D	5	2074.0	173.3
	3 1/2	304914D	5	1980.0	141.3
	4	304916D	5	1933.0	120.4
	4 1/2	304918D	5	1899.0	104.8
2 1/2 x 1 1/2 x	5	304920D	5	1857.0	92.8
	6	304924D	5	1809.0	75.6
	7	304928D	5	1778.0	63.4
	8	304932D	5	1768.0	55.3
	9	304936D	5	1769.0	49.0
	10	304940D	5	1769.0	44.2
	12	304948D	5	1759.0	36.6

Springs

D-Line RED Heavy Duty



				Load Deflection Table	
OD x ID x	Length	DIECO Part#	Bag Qty	Max. Oper Def 30% of free length	Load at 1/10 in Def. (lb.)
3/8 x 3/16 x	1	305104D	50	39.0	13.3
	1 1/4	305105D	50	39.0	10.2
	1 1/2	305106D	50	43.0	9.5
	1 3/4	305107D	50	43.0	8.3
	2	305108D	50	41.0	6.8
	2 1/2	305110D	50	43.0	5.6
	3	305112D	50	40.0	4.5
	12	305148D	10	40.0	1.1
1/2 x 9/32 x	1	305204D	50	71.0	24.2
	1 1/4	305205D	50	69.0	18.2
	1 1/2	305206D	50	69.0	15.4
	1 3/4	305207D	50	71.0	13.6
	2	305208D	50	69.0	11.4
	2 1/2	305210D	50	66.0	8.7
	3	305212D	10	69.0	7.7
	3 1/2	305214D	10	66.0	6.3
	4 1/2	305216D	10	65.0	4.8
	12	305248D	10	65.0	1.8
5/8 x 11/32 x	1	305304D	50	131.0	44.5
	1 1/4	305305D	50	132.0	34.8
	1 1/2	305306D	50	130.0	29.0
	1 3/4	305307D	50	135.0	26.0
	2	305308D	50	127.0	21.1
	2 1/2	305310D	50	127.0	16.8
	3	305312D	10	132.0	14.7
	3 1/2	305314D	10	131.0	12.5
	4	305316D	10	130.0	10.8
	4 1/2	305318D	10	121.0	9.0
	12	305348D	10	127.0	3.5
3/4 x 3/8 x	1	305404D	50	370.0	125.1
	1 1/4	305405D	50	370.0	97.8
	1 1/2	305406D	50	350.0	78.0
	1 3/4	305407D	50	345.0	66.4
	2	305408D	50	332.0	55.2
	2 1/2	305410D	50	320.0	42.4
	3	305412D	10	322.0	35.9
	3 1/2	305414D	10	323.0	30.7
	4	305416D	10	320.0	26.6
	4 1/2	305418D	10	325.0	23.9
	5	305420D	10	320.0	21.3
	5 1/2	305422D	10	318.0	19.3
1 x 1/2 x	1	305504D	50	626	212.1
	1 1/4	305505D	50	606	160.3
	1 1/2	305506D	50	562.0	125.3
	1 3/4	305507D	50	597.0	114.9
	2	305508D	50	561.0	93.1
	2 1/2	305510D	50	548.0	72.6
	3	305512D	10	550.0	61.3
	3 1/2	305514D	10	541.0	51.4
	4	305516D	10	539.0	44.7
	4 1/2	305518D	10	548.0	40.3
	5	305520D	10	541.0	36.1
	5 1/2	305522D	10	539.0	32.8

				Load Deflection Table	
OD x ID x	Length	DIECO Part#	Bag Qty	Max. Oper Def 30% of free length	Load at 1/10 in Def. (lb.)
1 1/4 x 5/8 x	6	305524D	10	544.0	30.3
	7	305528D	10	543.0	25.8
	8	305532D	10	540.0	22.5
	12	305548D	10	550.0	15.3
	1 1/2	305606D	10	992.0	221.1
	1 3/4	305607D	10	929.0	178.7
	2	305608D	10	920.0	152.7
	2 1/2	305610D	10	882.0	116.7
	3	305612D	10	880.0	98.0
	3 1/2	305614D	10	849.0	80.8
	4	305616D	10	850.0	70.6
	4 1/2	305618D	10	851.0	62.7
1 1/2 x 3/4 x	5	305620D	10	846.0	56.4
	5 1/2	305622D	10	836.0	50.9
	6	305624D	10	838.0	46.7
	7	305628D	10	831.0	39.5
	8	305632D	5	831.0	34.6
	10	305640D	5	829.0	27.6
	12	305648D	5	827.0	22.9
	2	305708D	10	1278.0	212.2
	2 1/2	305710D	10	1295.0	171.3
	3	305712D	10	1197.0	133.4
	3 1/2	305714D	10	1183.0	112.5
	4	305716D	10	1172.0	97.3
2 x 1 x	4 1/2	305718D	10	1208.0	88.9
	5	305720D	10	1177.0	78.5
	5 1/2	305722D	10	1157.0	70.5
	6	305724D	10	1172.0	65.3
	7	305728D	10	1162.0	55.2
	8	305732D	5	1160.0	48.4
	10	305740D	5	1158.0	38.6
	12	305748D	5	1156.0	32.1
	2 1/2	305810D	10	1831.0	242.3
	3	305812D	10	1718.0	191.3
	3 1/2	305814D	10	1662.0	158.1
	4	305816D	10	1685.0	139.8
2 1/2 x 1 1/2 x	4 1/2	305818D	10	1665.0	122.5
	5	305820D	10	1620.0	108.0
	5 1/2	305822D	5	1585.0	96.5
	6	305824D	5	1579.0	88.8
	7	305828D	5	1571.0	74.7
	8	305832D	5	1575.0	65.7
	10	305840D	5	1551.0	51.7
	12	305848D	5	1553.0	43.1
	3	305912D	5	--	352.9
	3 1/2	305914D	5	--	294.1
	4	305916D	5	--	250.1
	4 1/2	305918D	5	--	211.3
	5	305920D	5	--	190.1
	6	305924D	5	--	153.6
	7	305928D	5	--	129.0
	8	305932D	5	--	113.1
	9	305936D	5	--	82.0
	10	305940D	5	--	88.5
	12	305948D	5	--	73.1

Manufactured to ISO 10243 Standards. Designed to be interchangeable with many manufacturers of the same type, size & color.

OD x ID x	Length	DIECO Part#	Bag Qty	Load Deflection Table	
				Max. Oper Def 25% of free length	Load at 1/10 in Def. (lb.)
3/8 x 3/16 x	1	306104D	50	51.0	20.8
	1 1/4	306105D	50	49.0	15.7
	1 1/2	306106D	50	50.0	13.3
	1 3/4	306107D	50	49.0	11.2
	2	306108D	50	48.0	9.6
	2 1/2	306110D	50	48.0	7.6
	3	306112D	50	48.0	6.4
	12	306148D	10	47.0	1.6
1/2 x 9/32 x	1	306204D	50	77.0	31.2
	1 1/4	306205D	50	76.0	24.2
	1 1/2	306206D	50	74.0	19.7
	1 3/4	306207D	50	69.0	15.9
	2	306208D	50	72.0	14.4
	2 1/2	306210D	50	72.0	11.4
	3	306212D	10	71.0	9.5
	3 1/2	306214D	10	70.0	8.0
	4	306216D	10	73.0	7.3
	12	306248D	10	66.0	2.2
5/8 x 11/32 x	1	306304D	50	191.0	77.8
	1 1/4	306305D	50	178.0	56.6
	1 1/2	306306D	50	177.0	47.3
	1 3/4	306307D	50	175.0	40.4
	2	306308D	50	174.0	34.6
	2 1/2	306310D	50	173.0	27.4
	3	306312D	10	170.0	22.8
	3 1/2	306314D	10	171.0	19.5
	4	306316D	10	169.0	16.8
	4 1/2	306318D	10	170.0	15.1
	12	306348D	10	168.0	5.6
3/4 x 3/8 x	1	306404D	50	445.0	186.4
	1 1/4	306405D	50	427.0	139.8
	1 1/2	306406D	50	412.0	113.7
	1 3/4	306407D	50	398.0	97.2
	2	306408D	50	397.0	83.9
	2 1/2	306410D	50	389.0	65.5
	3	306412D	10	379.0	53.7
	3 1/2	306414D	10	370.0	44.8
	4	306416D	10	369.0	38.9
	4 1/2	306418D	10	368.0	34.4
	5	306420D	10	364.0	30.9
	5 1/2	306422D	10	357.0	27.7
	6	306424D	10	358.0	25.4
	12	306448D	10	355.0	12.6
1 x 1/2 x	1	306504D	50	655.0	262.1
	1 1/4	306505D	50	626.0	198.8
	1 1/2	306506D	50	592.0	158.3
	1 3/4	306507D	50	584.0	134.9
	2	306508D	50	564.0	112.4
	2 1/2	306510D	50	558.0	88.6
	3	306512D	10	552.0	73.9
	3 1/2	306514D	10	543.0	62.0
	4	306516D	10	546.0	54.4
	4 1/2	306518D	10	549.0	48.5
	5	306520D	10	545.0	43.6
	5 1/2	306522D	10	541.0	39.6

OD x ID x	Length	DIECO Part#	Bag Qty	Load Deflection Table	
				Max. Oper Def 25% of free length	Load at 1/10 in Def. (lb.)
1 1/4 x 5/8 x	6	306524D	10	542.0	36.2
	7	306528D	10	546.0	31.1
	8	306532D	10	544.0	27.2
	12	306548D	10	540.0	18.0
	1 1/2	306606D	10	1022.0	273.1
	1 3/4	306607D	10	1039.0	239.8
	2	306608D	10	1007.0	200.7
	2 1/2	306610D	10	983.0	156.1
	3	306612D	10	968.0	129.4
	3 1/2	306614D	10	968.0	110.5
	4	306616D	10	931.0	92.8
	4 1/2	306618D	10	935.0	82.6
1 1/2 x 3/4 x	5	306620D	10	946.0	75.6
	5 1/2	306622D	10	928.0	67.8
	6	306624D	10	931.0	62.2
	7	306628D	10	919.0	52.4
	8	306632D	5	918.0	45.9
	10	306640D	5	917.0	36.7
	12	306648D	5	915.0	30.5
	2	306708D	10	1687.0	336.1
	2 1/2	306710D	10	1629.0	258.6
	3	306712D	10	1597.0	213.4
	3 1/2	306714D	10	1570.0	179.3
	4	306716D	10	1570.0	156.3
2 x 1 x	4 1/2	306718D	10	1569.0	138.6
	5	306720D	10	1556.0	124.5
	5 1/2	306722D	10	1533.0	112.0
	6	306724D	10	1536.0	102.6
	7	306728D	10	1520.0	86.7
	8	306732D	5	1514.0	75.7
	10	306740D	5	1507.0	60.3
	12	306748D	5	1506.0	50.2
	2 1/2	306810D	10	2415.0	383.4
	3	306812D	10	2294.0	306.7
	3 1/2	306814D	10	2257.0	257.6
	4	306816D	10	2230.0	222.1
2 1/2 x 1 1/2 x	4 1/2	306818D	10	2209.0	195.2
	5	306820D	10	2176.0	174.1
	5 1/2	306822D	5	2149.0	157.1
	6	306824D	5	2141.0	143.1
	7	306828D	5	2090.0	119.3
	8	306832D	5	2110.0	105.6
	10	306840D	5	2091.0	83.6
	12	306848D	5	2057.0	68.5
	3	306912D	5	--	544.0
	3 1/2	306914D	5	--	468.0
	4	306916D	5	--	400.0
	4 1/2	306918D	5	--	354.0
	5	306920D	5	--	323.0
	6	306924D	5	--	262.0
	7	306928D	5	--	219.0
	8	306932D	5	--	192.0
	10	306940D	5	--	150.0
	12	306948D	5	--	124.0

Springs

Compression & Extension Springs



R-40 & 450 Compression Springs

O.D. (in.)	Wire Diameter (in)	Length (in.)	DIECO Part #	Box Qty
1 EACH OF BELOW			R40ASST	1
2 EACH OF BELOW			450ASST	1
3/32	0.010	10	93-010	12
3/32	0.014	10	93-014	12
1/8	0.012	10	2-012	12
1/8	0.016	10	2-016	12
3/16	0.014	10	3-014	12
3/16	0.018	10	3-018	12
3/16	0.026	10	3-026	12
3/16	0.035	10	3-035	12
1/4	0.018	10	4-018	12
1/4	0.026	10	4-026	12
1/4	0.031	10	4-031	12
1/4	0.035	10	4-035	12
1/4	0.041	10	4-041	12
1/4	0.047	10	4-047	12
5/16	0.022	10	5-022	12
5/16	0.031	10	5-031	12
5/16	0.037	10	5-037	12
5/16	0.041	10	5-041	12
5/16	0.047	10	5-047	12
5/16	0.055	10	5-055	12
3/8	0.031	10	6-031	12
3/8	0.035	10	6-035	12
3/8	0.043	10	6-043	12
3/8	0.047	10	6-047	12
3/8	0.055	10	6-055	12
3/8	0.062	10	6-062	12
3/8	0.075	10	6-075	12
7/16	0.035	10	7-035	12
7/16	0.047	10	7-047	12
7/16	0.055	10	7-055	12
7/16	0.062	10	7-062	12
7/16	0.075	10	7-075	12
7/16	0.085	10	7-085	12
1/2	0.035	10	8-035	12
1/2	0.047	10	8-047	12
1/2	0.055	10	8-055	12
1/2	0.062	10	8-062	12
1/2	0.075	10	8-075	12
1/2	0.091	10	8-091	12
1/2	0.115	10	8-115	12

#500 Compression Springs

O.D. (in.)	Wire Diameter (in)	Length (in.)	DIECO Part #	Box Qty
1 EACH OF BELOW			500ASST	1
1/2	0.041	18	DS-221	12
1/2	0.054	18	DS-222	12
9/16	0.062	18	DS-223	12
9/16	0.072	18	DS-224	12
5/8	0.054	18	DS-225	12
11/16	0.062	18	DS-226	12
11/16	0.072	18	DS-227	12
11/16	0.068	18	DS-228	12
13/16	0.062	18	DS-229	12
13/16	0.080	18	DS-230	12
7/8	0.098	18	DS-231	12
15/16	0.125	18	DS-232	12
1 1/8	0.125	18	DS-232A	6
15/16	0.080	18	DS-233	12
1	0.098	18	DS-234	6
1 1/16	0.125	18	DS-235	6
1 1/8	0.135	18	DS-235A	6
1 1/16	0.085	18	DS-236	6
1 3/16	0.125	18	DS-237	6
1 3/16	0.090	18	DS-238	6
1 3/8	0.148	18	DS-239	6
1 5/8	0.148	18	DS-240	6
1 7/8	0.148	18	DS-241	6

#350 / R35 Extension Springs

O.D. (in.)	Wire Diameter (in)	Length (in.)	DIECO Part #	Box Qty
MIN 2 OF BELOW			350ASST	1
23/64	0.054	10.00	020-005	12
11/32	0.048	8.13	020-007	12
11/64	0.029	9.06	020-008	12
7/16	0.048	6.44	020-009	12
21/64	0.035	6.50	020-010	12
5/32	0.026	6.63	020-011	12
35/64	0.080	5.63	020-012	12
3/8	0.054	5.50	020-014	12
19/64	0.048	5.75	020-015	12
1/4	0.028	5.75	020-017	12
1/4	0.041	5.34	020-018	12
31/64	0.063	4.50	020-022	12
11/32	0.048	5.38	020-027	12
7/16	0.063	5.25	020-028	12
11/32	0.048	1.44	020-037	12



#R48 Compression & Extension Springs

O.D. (in.)	Wire Diameter (in)	Length (in.)	DIECO Part #	Box Qty
1 OR 2 OF BELOW			R48ASST	1
Compression Springs				
.656x.938	0.058 PhBr	0.94	020-057	12
.625 x .75	0.08 Br	1.00	020-058	12
0.500	0.072 PhBr	0.97	020-060	12
1.015	0.120	2.56	020-062	12
0.938	0.080	2.03	020-063	12
0.875	0.092	3.06	020-064	12
0.875	0.120	2.00	020-065	12
0.859	0.135	2.59	020-066	12
0.688	0.105	4.02	020-067	12
0.625	0.080	2.84	020-068	12
0.844	0.08 Br	1.10	020-070	12
0.438	0.041	2.56	020-071	12
0.750	0.106	2.63	020-072	12
0.312	0.022	1.97	020-081	12
0.375	0.042 Br	0.78	020-086	12
0.375	0.048	2.03	020-088	12
0.438	0.048	2.63	020-089	12
0.469	0.053	2.50	020-090	12
0.500	0.063	2.50	020-091	12
0.500	0.048	2.06	020-092	12
0.438	0.054	2.00	020-093	12
0.375	0.063	2.21	020-094	12
Extension Springs				
0.562	0.080	5.50	020-013	12
0.266	0.035	6.13	020-016	12
0.375	0.041	3.25	020-019	12
0.734	0.063	4.06	020-023	12
0.719	0.105	4.00	020-024	12

Heavy Duty Extension Springs

(Shear & Brake Springs)

O.D. (in.)	Wire Diameter (in)	Length (in.)	DIECO Part #	Box Qty
11/16	0.105	3.88	020-099	06
7/8	0.120	6.00	020-029	06
1 1/16	0.135	8.00	020-030	06
1 2/16	0.148	10.00	020-100	06
1 1/4	0.162	12.00	020-101	06
1 3/8	0.177	14.00	020-102	06
1 9/16	0.207	16.00	020-103	06

Associated Spring
RAYMOND

A Division of CHASSIS COMPANY

Music Wire Springs

Squared and Ground Ends

O.D. (in.)	Wire Diameter (in)	Length (in.)	DIECO Part #	Box Qty
3/8	0.042	1.0	MW-100	12
3/8	0.042	1.5	MW-101	12
3/8	0.042	2.0	MW-102	12
3/8	0.042	2.5	MW-103	12
3/8	0.042	3.0	MW-104	12
1/2	0.062	1.0	MW-110	12
1/2	0.062	1.5	MW-111	12
1/2	0.062	2.0	MW-112	12
1/2	0.062	2.5	MW-113	12
1/2	0.062	3.0	MW-114	12
1/2	0.062	3.5	MW-115	12
5/8	0.072	1.0	MW-120	12
5/8	0.072	1.5	MW-121	12
5/8	0.072	2.0	MW-122	12
5/8	0.072	2.5	MW-123	12
5/8	0.072	3.0	MW-124	12
5/8	0.072	3.5	MW-125	12
5/8	0.072	4.0	MW-126	12

Misc Springs

Sold In Box Quantities Only

O.D. (in.)	Wire Diameter (in)	Length (in.)	DIECO Part #	Box Qty
Compression Springs				
0.875	0.105	12.00	020-047	3
0.734	0.080	12.00	020-049	3
0.531	0.105	1.03	020-059	12
0.320	Ph Br .025	0.88	020-085	12
0.600	0.070	1.50	020-123	12
0.180	0.022	1.12	020-129	25
Extension Springs				
0.625	0.072	10.00	020-003	6
0.500	0.062	10.00	020-004	12
0.750	0.105	2.59	020-032	12
1.250	0.207	7.63	020-104	6
0.240	0.026	1.75	020-145	25
0.360	0.037	2.00	020-148	25
0.422	0.063	16.00	020-155	12

We carry the complete line of Associated Spring Raymond Service Parts, General Maintenance and MRO Spring Assortments.

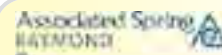
ISO Specification Series (Metric)

Hole Dia. (mm)	Rod Dia. (mm)	Free Length (mm)	GREEN Light Duty Part #	BLUE Medium Duty Part #	RED Heavy Duty Part #	YELLOW Extra Heavy Duty Part #
10	5	25	203-104	204-104	205-104	206-104
		32	203-105	204-105	205-105	206-105
		38	203-106	204-106	205-106	206-106
		44	203-107	204-107	205-107	206-107
		51	203-108	204-108	205-108	206-108
		64	203-110	204-110	205-110	206-110
		76	203-112	204-112	205-112	206-112
		305	203-148	204-148	205-148	206-148
12.5	6.3	25	203-204	204-204	205-204	206-204
		32	203-205	204-205	205-205	206-205
		38	203-206	204-206	205-206	206-206
		44	203-207	204-207	205-207	206-207
		51	203-208	204-208	205-208	206-208
		64	203-210	204-210	205-210	206-210
		76	203-212	204-212	205-212	206-212
		89	203-214	204-214	205-214	206-214
		305	203-248	204-248	205-248	206-248
16	8	25	203-304	204-304	205-304	206-304
		32	203-305	204-305	205-305	206-305
		38	203-306	204-306	205-306	206-306
		44	203-307	204-307	205-307	206-307
		51	203-308	204-308	205-308	206-308
		64	203-310	204-310	205-310	206-310
		76	203-312	204-312	205-312	206-312
		89	203-314	204-314	205-314	206-314
		102	203-316	204-316	205-316	206-316
		305	203-348	204-348	205-348	206-348
20	10	25	203-404	204-404	205-404	206-404
		32	203-405	204-405	205-405	206-405
		38	203-406	204-406	205-406	206-406
		44	203-407	204-407	205-407	206-407
		51	203-408	204-408	205-408	206-408
		64	203-410	204-410	205-410	206-410
		76	203-412	204-412	205-412	206-412
		89	203-414	204-414	205-414	206-414
		102	203-416	204-416	205-416	206-416
		115	203-418	204-418	205-418	206-418
		127	203-420	204-420	205-420	206-420
		139	203-422	204-422	205-422	206-422
		152	203-424	204-424	205-424	206-424
		305	203-448	204-448	205-448	206-448
25	12.5	25	203-504	204-504	205-504	n/a
		32	203-505	204-505	205-505	206-505
		38	203-506	204-506	205-506	206-506
		44	203-507	204-507	205-507	206-507
		51	203-508	204-508	205-508	206-508
		64	203-510	204-510	205-510	206-510
		76	203-512	204-512	205-512	206-512
		89	203-514	204-514	205-514	206-514
		102	203-516	204-516	205-516	206-516
		115	203-518	204-518	205-518	206-518
		127	203-520	204-520	205-520	206-520
		139	203-522	204-522	205-522	n/a
		152	203-524	204-524	205-524	206-524
		178	203-528	204-528	205-528	206-528
		203	203-532	204-532	205-532	206-532
		305	203-548	204-548	205-548	206-548

PLEASE CONTACT US FOR A COMPLETE ISO OR JIS SPRINGS CATALOG.

ISO Springs manufactured in accordance with ISO 10243

Hole Dia. (mm)	Rod Dia. (mm)	Free Length (mm)	GREEN Light Duty Part #	BLUE Medium Duty Part #	RED Heavy Duty Part #	YELLOW Extra Heavy Duty Part #
32	16	38	203-606	204-606	205-606	206-606
		44	203-607	204-607	205-607	206-607
		51	203-608	204-608	205-608	206-608
		64	203-610	204-610	205-610	206-610
		76	203-612	204-612	205-612	206-612
		89	203-614	204-614	205-614	206-614
		102	203-616	204-616	205-616	206-616
		115	203-618	204-618	205-618	206-618
		127	203-620	204-620	205-620	206-620
		139	203-622	204-622	205-622	n/a
		152	203-624	204-624	205-624	206-624
		178	203-628	204-628	205-628	206-628
		203	203-632	204-632	205-632	206-632
		254	203-640	204-640	205-640	206-640
		305	203-648	204-648	205-648	206-648
40	20	51	203-708	204-708	205-708	206-708
		64	203-710	204-710	205-710	206-710
		76	203-712	204-712	205-712	206-712
		89	203-714	204-714	205-714	206-714
		102	203-716	204-716	205-716	206-716
		115	203-718	204-718	205-718	206-718
		127	203-720	204-720	205-720	206-720
		139	203-722	204-722	205-722	n/a
		152	203-724	204-724	205-724	206-724
		178	203-728	204-728	205-728	n/a
		203	203-732	204-732	205-732	206-732
		254	203-740	204-740	205-740	206-740
		305	203-748	204-748	205-748	206-748
50	25	64	203-810	204-810	205-810	206-810
		76	203-812	204-812	205-812	206-812
		89	203-814	204-814	205-814	206-814
		102	203-816	204-816	205-816	206-816
		115	203-818	204-818	205-818	206-818
		127	203-820	204-820	205-820	206-820
		139	203-822	204-822	205-822	n/a
		152	203-824	204-824	205-824	206-824
		178	203-828	204-828	205-828	n/a
		203	203-832	204-832	205-832	206-832
		254	203-840	204-840	205-840	206-840
		305	203-848	204-848	205-848	206-848
63	38	76	203-912	204-912	n/a	n/a
		89	203-914	204-914	n/a	n/a
		102	203-916	204-916	n/a	n/a
		115	203-918	204-918	n/a	n/a
		127	203-920	204-920	n/a	n/a
		152	203-924	204-924	n/a	n/a
		178	203-928	204-928	n/a	n/a
		203	203-932	204-932	n/a	n/a
		254	203-940	204-940	n/a	n/a
		305	203-948	204-948	n/a	n/a



Yellow Extra Light Duty
 Blue Light Duty
 Red Medium Duty
 Green Heavy Duty
 Brown Extra Heavy Duty

JIS DIE SPRINGS:
 DIECO Also offers
 JIS Die Springs
 manufactured in
 accordance with
 JIS B 5012.

Kaller Gas Springs

SERIES	Description	Model	Available Stroke Lengths (mm)	Initial Force at Max Pressure		Total Length (mm)	Cylinder Diameter (mm)
				(daN)	(lbf)		
EP2	Color coded gas Ejector-Pins that are fully interchangeable with mechanical spring plungers.	EP2 16	10, 20, 30, 40, 50, 60, 70, 80, 100, 125	42	94	45 + (2 x Stroke)	M16x1.5/ 16x2
		EP2 24	10, 20, 30, 40, 50, 60, 70, 80, 100, 125	170	380	45 + (2 x Stroke)	M24x1.5
		EPS2 24	10, 16, 20, 25, 30, 38, 40, 50, 60, 70, 80, 100, 125	170	380	45 + (2 x Stroke)	M24x1.5
"R"	Rod Sealed and color coded gas springs that are compact and fully adjustable.	R12	7, 10, 12.7, 15, 19, 25, 38.1, 50, 63.5, 75, 80, 100, 125	50	110	42 or 45+ (2 x Stroke)	Ø 12
		R15	7, 10, 12.7, 15, 19, 25, 38.1, 50, 63.5, 75, 80, 100, 125	70	160	42 or 45 + (2 x Stroke)	Ø 15
		R19	7, 10, 15, 25, 38.1, 50, 63.5, 80, 100, 125	90	200	42 or 45 + (2 x Stroke)	Ø 19
Mini	Repairable, color coded and fully adjustable gas springs. Available with or without threaded cylinders.	M2	10, 12.7, 15, 16, 25, 38.1, 50, 63.5, 80, 100, 125	200	450	42 or 45 + (2 x Stroke)	Ø 25
		MM2	10, 12.7, 15, 16, 25, 38.1, 50, 63.5, 80, 100, 125	200	450	42 + (2 x Stroke)	M28x1.5
		MC3	10, 12.7, 16, 25, 38.1, 50, 63.5, 80, 100, 125	200	450	50 + (2 x Stroke)	Ø 32
CU	Super compact gas springs that provide extreme forces with minimal cylinder diameter.	CU 420	6, 10, 16, 25, 32, 40, 50	425	960	56 - 195	Ø 25
		CU 740	6, 10, 16, 25, 32, 40, 50	740	1660	63 - 195	Ø 32
		CU 1000	6, 10, 16, 25, 32, 40, 50	1060	2380	61 - 230	Ø 38
		CU 1800	6, 10, 16, 25, 32, 40, 50	1800	4050	66 - 220	Ø 50
		CU 2900	10, 16, 25, 32, 40, 50	2950	6630	85 - 205	Ø 63
		CU 4700	10, 16, 25, 32, 40, 50	4700	10570	80 - 240	Ø 75
		CU 7500	10, 16, 25, 32, 40, 50	7500	16860	90 - 255	Ø 95
		CU 11800	10, 16, 25, 32, 40, 50	11800	26530	100 - 260	Ø 120
		CU 18300	10, 16, 25, 32, 40, 50	18300	41140	110 - 270	Ø 150
Power-Line X	The shortest, strongest and most advanced rod sealed gas springs.	X 170	7, 10, 15, 19, 25, 38, 50, 63, 75, 80, 100, 125	170	380	30 or 35 + (2 x Stroke)	Ø 19
		X 320	7, 10, 15, 19, 25, 38, 50, 63, 75, 80, 100, 125	320	720	30 or 35 + (2 x Stroke)	Ø 25
		X 350	10, 13, 16, 19, 25, 32, 38, 50, 63, 75, 80, 100, 125	360	810	30 + (2 x Stroke)	Ø 32
		X 500	10, 13, 16, 19, 25, 32, 38, 50, 63, 75, 80, 100, 125	470	1060	30 + (2 x Stroke)	Ø 38
		X 750	10, 13, 16, 19, 25, 32, 38, 50, 63, 75, 80, 100, 125	740	1660	32 + (2 x Stroke)	Ø 45
		X 1000	13, 16, 19, 25, 32, 38, 50, 63, 75, 80, 100, 125	920	2070	38 + (2 x Stroke)	Ø 50
		X 1500	13, 16, 19, 25, 32, 38, 50, 63, 75, 80, 100, 125	1500	3370	44 + (2 x Stroke)	Ø 63
		X 2400	16, 19, 25, 32, 38, 50, 63, 75, 80, 100, 125	2400	5400	45 + (2 x Stroke)	Ø 75
		X 4200	16, 19, 25, 32, 38, 50, 63, 75, 80, 100, 125	4200	9440	58 + (2 x Stroke)	Ø 95
		X 6600	16, 19, 25, 32, 38, 50, 63, 75, 80, 100, 125	6630	14910	68 + (2 x Stroke)	Ø 120
		X 9500	19, 25, 32, 38, 50, 63, 75, 80, 100, 125	9500	21360	78 + (2 x Stroke)	Ø 150
		X 20 000	19, 25, 32, 38, 50, 63, 75, 80, 100, 125	20000	44960	110 + (2 x Stroke)	Ø 195
TU	Standard series – dimensions correspond to the ISO 11901 standard for gas springs.	TU 250	10, 12.7, 16, 25, 38.1, 50, 63.5, 80, 100, 125	265	600	50 + (2 x Stroke)	Ø 38
		TU 500	10, 12.7, 25, 38.1, 50, 63.5, 80, 100, 125, 160	470	1060	85 + (2 x Stroke)	Ø 45
		TU 750	12.7, 25, 38.1, 50, 63.5, 80, 100, 125, 160, 200, 250, 300	740	1660	95 + (2 x Stroke)	Ø 50
		TU 1500	25, 38.1, 50, 63.5, 80, 100, 125, 160, 200, 250, 300	1500	3370	110 + (2 x Stroke)	Ø 75
		TU 3000	25, 38.1, 50, 63.5, 80, 100, 125, 160, 200, 250, 300	3000	6740	120 + (2 x Stroke)	Ø 95
		TU 5000	25, 38.1, 50, 63.5, 80, 100, 125, 160, 200, 250, 300	5000	11240	140 + (2 x Stroke)	Ø 120
		TU 7500	25, 38.1, 50, 63.5, 80, 100, 125, 160, 200, 250, 300	7500	16860	155 + (2 x Stroke)	Ø 150
		TU 10000	25, 38.1, 50, 63.5, 80, 100, 125, 160, 200, 250, 300	10600	23830	160 + (2 x Stroke)	Ø 195



Other series available:

TX: Power Line - Heavy Duty series a crossover between standard TU series and Power Line X series.

SPC Series: Speed Control has been engineered to reduce or eliminate blank holder bounce commonly associated with increased return stroke, speeds from link drive presses.

LCF Series: These innovative Low Contact Force series of gas spring are 100% interchangeable with ISO gas springs (ie. TU Series) and reduce shock loads, noise levels and pad bounce problems.

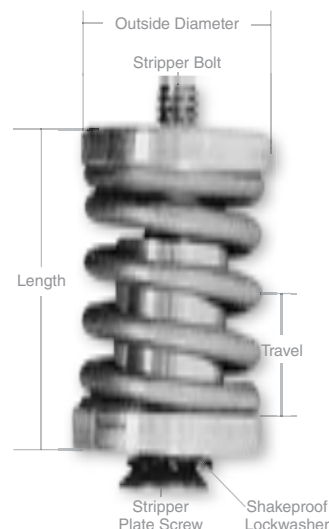
Mould Temp - MT 16 to MT1000 - gas springs are compact and powerful piston rod sealed gas springs, which can be used up to 120°C.

Accessories,
Mounts,
Repair and
Tool Kits
available.

Stripping Spring Units

Stripping Spring Units are self contained units designed to deliver exact standardized stripping pressure for conventional blocking and forming dies. Units allow removal of the stripper plate without dismantling springs.

DIECO Part #	O.D.	Length	Stripper Bolt & Plate Screw Size	Travel	Loads per 1/8" Deflection	Initial Load (pounds)
SSU-15	1	1 1/2	1/4-20	1/4	41	125
SSU-02	1 5/16	2	3/8-24	3/8	85	250
SSU-25	1 5/16	2 1/2	3/8-24	1/2	75	230
SSU-03	1 5/16	3	3/8-24	3/4	60	200
SSU-04	1 5/16	4	3/8-24	1	40	170

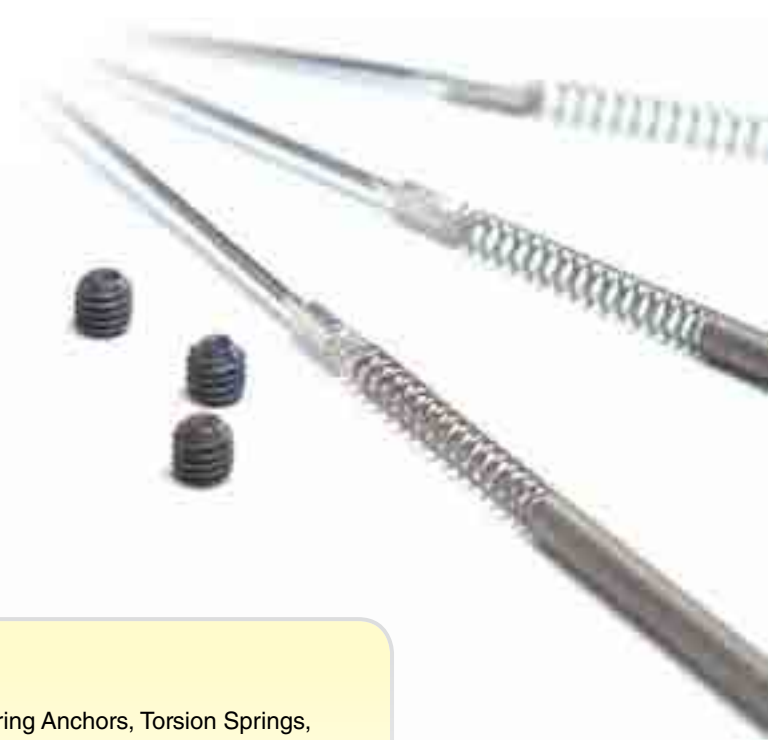


Unikix Spring Pins

UNIKIX Spring Pins consist of a hardened steel rod soldered to a compression spring. They can eject a sheet-metal part after cut-off. This can prevent the sheet metal from being held against the stripper by stamping-fluid surface tension. UNIKIX Spring Pins can prevent slug pulling.

DIECO Part #	Pin			Spring	
	Pin	Hole	Spring	Hole	Screw
GP-20	.020 dia x 3	0.025	.082 dia x 2	0.086	3-48x3/16
GP-26	.026 dia x 3	0.031	.105 dia x 2 1/4	0.109	5-40x3/16
GP-41	.041 dia x 3	0.046	.140 dia x 2 1/2	0.144	8-32x3/16
GP-55	.055 dia x 4	0.062	.162 dia x 2 3/4	0.166	10-32x3/16
GP-86	.086 dia x 4	0.094	.217 dia x 3	0.221	1/4-28x1/4
GP-148	.148 dia x 4	0.156	.308 dia x 3 1/2	0.312	3/8-16x5/16

Unit consists of a spring-pin and set screw.



Other Springs available from DIECO:

CENTURY Spring – Compression Springs, Extension Springs, Spring Anchors, Torsion Springs, Tapered Springs, Disc Springs, Composite Spring Washers, Flange Springs and more.

LEE Spring – Compression Springs, Lee Plastic Springs, REDUX Wave Springs, Extension Springs, Torsion Springs, Belleville Washers and specialty parts.

SCHNORR® - Disc Springs: Standard, "K" Disc Springs, "Z" Disc Springs, Bolting Series Washers

SPEC Stock Precision Engineered Components – Stock springs and spring washers, compression, extension, torsion and constant-force springs, belleville, finger and curved spring washers.



DIECO Die Makers Grease

- Lithium Complex
- Fortified with extreme pressure additives
- Excellent for close tolerance, high unit pressure applications
- Dropping point of 500°F, Freeze point of 10°F
- Rust and oxidation inhibitors added
- Ideal for use with Die Sets on Pins and Bushings

DIECO Part #	Description
40-1001	1/2 lb. Tube
40-1003	14 oz. Cartridge
40-1002	35 lb. Pail



Huskey Hi-Lo ISO 100 (formerly DIECO Linear Lube)

- Same product, new package
- Designed for use on ball bearing assemblies
- Blend of the finest quality pure synthetic oils available
- USDA H-1 rated. Full acceptability for use in all areas where incidental food contact may occur

DIECO Part #	Description
42-1022	Gallon



DIECO Pry Bars & Bronze Tips

- PRY BARS Made of hexagonal high carbon steel stock, hot forged to shape and cadmium plated
- Weighs only 1 3/4 lbs. with an overall length of 18 3/4"
- BRONZE TIPS Available to fit on curved ends of pry bars and are removable

DIECO Part #	Description
41-1025	18" Pry Bar
41-1026	Bronze Cast Tip



Ostalloy

- Fusible Alloys are low melting temperature compositions containing bismuth, lead, tin, cadmium or indium
- Only expands approximately 3.3% of their volume when changing from molten to solid form
- Advantage of fusible alloys is their capacity for recovery
- Can be remelted and used again and again
- Ideal for many industrial applications including casting, tube bending, machining parts for soft metal dies, fixturing, soft metal casting, joggle dies and supporting castings and interrupted cuts
- Sold in 1 pound increments

DIECO Part #	Description
OST117	OSTALLOY 117
OST136	OSTALLOY 136
OST158	OSTALLOY 158
OST160-190	OSTALLOY 160-190

DIECO Part #	Description
OST217-440	OSTALLOY 217-440
OST255	OSTALLOY 255
OST281	OSTALLOY 281
OST281-338	OSTALLOY 281-338



Number indicates melting temperature



DAC Industries innovative selection of “problem solving” injection molding maintenance products will improve your product quality, reduce production cost, and increase profitability! DAC mold release products, cleaners, degreasers, lubricants and rust inhibitors are designed to do away with rejected parts due to “marking and contamination”, which are most commonly caused by “leeching and bleeding”... a direct result of ineffective machine maintenance. Choose from an extensive variety of specialty products that have been designed to extend machine and tool life, improve mold release properties, and increase efficiency.

DIECO Part #	Description	Quantity
DAC-101	Moisture Guard	12 cans/Case
DAC-102	On Line Resin Remover	12 cans/Case
DAC-103	Universal All Purpose Degreaser	12 cans/Case
DAC-104	All Purpose Foam	12 cans/Case
DAC-105	Dry Film With Coverage Indicator	12 cans/Case
DAC-107	703 All Purpose Spray	12 cans/Case
DAC-107-A	Trigger Sprayer	EACH
DAC-108	Does It All	12 cans/Case
DAC-108B	Does It All Bulk 55 gal	55 Gal. Drum
DAC-110	Micro Plate	12 cans/Case
DAC-111	Extreme Resin Remover	12 cans/Case
DAC-112	Armor Plate	12 cans/Case
DAC-113	Super Lube	12 cans/Case
DAC-115	Rhino Plate	12 cans/Case
DAC-119	Hopper & Grinder with Acid Static	12 cans/Case
DAC-200	Die Lube	12 cans/Case
DAC-205	Excel	12 cans/Case
DAC-205	Excel Bulk 55 Gallon	55 Gal. Drum
DAC-206	Wear Guard	12 cans/Case
DAC-208	On Cycle Heavy Duty Resin Remover	12 cans/Case
DAC-220	DAC's Easy Spray Grease	12 cans/Case
DAC-300	Ultra Fine Dry Mold Shield	12 cans/Case
DAC-353	Universal All Purpose Degreaser II	12 cans/Case
DAC-354	Total Mold Cleaner & Degreaser	12 cans/Case

DIECO Part #	Description	Quantity
DAC-405	Contact & Circuit Board Cleaner	12 cans/Case
DAC-15151	All Purpose Mold Release	12 cans/Case
DAC-30612	Heavy Duty Paintable Mold Release	12 cans/Case
DAC-36361	Paintable Mold Release	12 cans/Case
DAC-40512	Heavy Duty Silicone Mold Release	12 cans/Case
DAC-45451	All Temperature Silicone Mold Release	12 cans/Case
DAC-55512	Lecithin Drilling & Tapping Fluid	12 cans/Case
DAC-75751	Penetrating Oil	12 cans/Case
DAC-85851	Biodegradable Paintable Mold Release	12 cans/Case



Cylinder/Tubes

DIECO Part #	O.D. (in)	I.D. (in)	Length (in)
PXC10	1	1/4	12
PXC15	1 1/2	3/8	12
PXC20	2	5/8	12
PXC25	2 1/2	5/8	12
PXC30	3	3/4	12
PXC40	4	1	12
PXC50	5	1 1/4	12
PXC60	6	1 1/2	12

Other sizes and durometers available



Other O.D.s & I.D.s available

Durometers: 80A, 90A, 95A

Closed-End Punch Strippers

DIECO Part #	I.D. (in)	O.D. (in)	Length (in)
PT-018	3/16	11/16	1 1/4, 1 1/2
PT-025	1/4	3/4	1 1/4, 1 1/2, 1 3/4
PT-031	5/16	13/16	1 1/4, 1 1/2, 1 3/4, 2
PT-037	3/8	7/8	1 1/4, 1 1/2, 1 3/4, 2, 2 1/4
PT-050	1/2	1	1 1/4, 1 1/2, 1 3/4, 2, 2 1/4, 2 1/2
PT-062	5/8	1 1/8	1 1/4, 1 1/2, 1 3/4, 2, 2 1/4, 2 1/2
PT-075	3/4	1 1/2	1 3/4, 2, 2 1/4, 2 1/2, 2 3/4
PT-087	7/8	1 3/4	1 3/4, 2, 2 1/4, 2 1/2, 2 3/4
PT-100	1	2	1 3/4, 2, 2 1/4, 2 1/2, 2 3/4
PT-125	1 1/4	2 1/2	2, 2 1/4, 2 1/2, 2 3/4, 3
PT-150	1 1/2	2 3/4	2, 2 1/4, 2 1/2, 2 3/4, 3

Standard Durometer: 95A Red

Urethane Springs

Punch Body Dia (in)	O.D. Lt. Duty (in)	O.D. Med. Duty (in)	O.D. Heavy Duty (in)	Lengths (in)
3/16	11/16	13/16	15/16	1, 1 1/4, 1 1/2, 12 1/2
1/4	3/4	7/8	1	1, 1 1/4, 1 1/2, 1 3/4, 12 1/2
5/16	11/16	15/16	1 1/16	1, 1 1/4, 1 1/2, 1 3/4, 12 1/2
3/8	7/8	1	1 1/8	1, 1 1/4, 1 1/2, 1 3/4, 12 1/2
1/2	1	1 1/8	1 1/4	1, 1 1/4, 1 1/2, 1 3/4, 2, 12 1/2
5/8	1 1/8	1 1/4	1 3/4	1, 1 1/4, 1 1/2, 1 3/4, 2, 12 1/2
3/4	1 3/8	1 3/4	1 3/4	1, 1 1/4, 1 1/2, 1 3/4, 2, 2 1/4, 2 1/2, 2 3/4, 12 1/2
7/8	1 5/8	1 3/4	2	1 1/4, 1 1/2, 1 3/4, 2, 2 1/4, 2 1/2, 2 3/4, 3, 12 1/2
1	1 3/4	2	2 1/2	1 1/4, 1 1/2, 1 3/4, 2, 2 1/4, 2 1/2, 2 3/4, 3, 4, 12 1/2

Standard Durometer: 95A Amber

Rods

Diameters (in)	Standard Lengths (in)
1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1 1/8, 1 1/4, 1 3/8	6, 12, 24, 36, 48

Durometers: 80A, 90A, 95A

Pads

Thickness (in)	Sizes (in)
1/4, 3/8, 7/16, 1/2, 5/8, 3/4, 7/8, 1, 1 1/4, 1 1/2, 1 3/4, 2, 2 1/2, 2 3/4, 3, 4	12x12, 20x24, 24x24 (Other Sizes Available)

Durometers: 80A, 90A, 95A

Poly-Hammers

- Molded polyurethane head is shot-filled, with steel reinforced handle.
- Screw-in hammer faces are available in 6 color-coded durometers.
- When the hammer faces are worn out, just unscrew the face and screw-in a new face.
- 6 hammer sizes ranging from 3/4 lbs. to 7 lbs.
- Standard hammers are ORANGE.

DIECO Part #	Face #	Head Length (in)	Face Dia. (in)
PH-12	F12-*	3.3	1.4
PH-20	F20-*	3.8	1.8
PH-24	F24-*	4.0	1.9
PH-48	F48-*	5.0	2.5
PH-60	F60-*	6.0	2.9
PH-88	F88-*	7.7	2.9

* Durometers: 60A – Clear (Soft), 70A – Blue, 80A – Green, 90A – Red, 95A – Amber, 75D – Black (Hard)





Alignment Pins

- L & T Pins
- Clamping Pins
- Slotted Locator Bushings
- Ball Lock Pins & Mounting Systems
- Detent Pins & Expanding Pins
- Cable

Hoist Rings, Handles, Knobs & Screw Clamps

- Fluted Knobs
- Four-Prong Knobs & Screw Clamps
- Adjustable Handles and Knob Handles
- Knurled Knobs & Screw Clamps
- Socket-Head Screw Clamps
- Bar-Handle Screw Clamps
- Hand Wheels & Latch Screws

Spring-Loaded Devices

- Hand Retractable Plungers
- Ball Plungers & Spring Plungers
- Spring Locating Pins
- Spring Stop Buttons

Supports, Rests & Feet

- Leveling Feet
- Swivel Pads & Grippers
- Rest Buttons & Pads
- Screw Jacks

Locators

- Construction Balls
- Fixture Keys
- Locating Pins

Clamps & Accessories

- Portable Clamps & Hand Tools
- Nuts & Washers
- Studs, Bolts, & Clamping Accessories
- Clamping Kits & Clamp Straps
- Edge Clamps & Swing Clamps

Plug Gages, Threaded Inserts, Jig & Fixture Bases

- Blank Tooling Plates & Blocks
- Angle Brackets
- Cast Sections
- Adjustable Locking Hubs

Chuck Jaws

Modular Fixturing

Toggle Clamps



Press Fit Bushings - Headless Type "P"

DIECO Part #	O.D. (in)	I.D. Range	Lengths (in)
P-10-	5/32	#80 - #70	1/4, 5/16, 3/8, 1/2
P-10-	5/32	#69 - 1/16	1/4, 5/16, 3/8, 1/2, 3/4
P-12-	3/16	#55 - #39	1/4, 5/16, 3/8, 1/2, 5/8, 3/4
P-13-	13/64	#80 - #70	1/4, 5/16, 3/8, 1/2
P-13-	13/64	#69 - 3/64	1/4, 5/16, 3/8, 1/2, 3/4
P-13-	13/64	#55 - 1/16	1/4, 5/16, 3/8, 1/2, 3/4, 1
P-13-	13/64	#52 - #39	1/4, 5/16, 3/8, 1/2, 3/4, 1, 1 3/8
P-16-	1/4	#40 - 9/64	1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1, 1 3/8, 1 1/2, 1 3/4
P-20-	5/16	1/8 - #10	1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1, 1 3/8, 1 1/2, 1 3/4
P-24-	3/8	#10 - #1	1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1
P-26-	13/32	3/16 - "F"	1/4, 5/16, 3/8, 1/2, 3/4, 1, 1 3/8, 1 1/2, 1 3/4
P-28-	7/16	"A" - "L"	1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1
P-32-	1/2	3/16 - "O"	1/4, 5/16, 3/8, 1/2, 3/4, 1, 1 3/8, 1 1/2, 1 3/4, 2 1/8
P-36-	9/16	"M" - 11/32	1/4, 5/16, 3/8, 1/2, 3/4, 1
P-40-	5/8	5/16 - 7/16	1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1, 1 1/4, 1 3/8, 1 1/2, 1 3/4, 2 1/8
P-48-	3/4	5/16 - 17/32	1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1, 1 1/4, 1 3/8, 1 1/2, 1 3/4, 2 1/8, 2 1/2
P-56-	7/8	1/2 - 21/32	5/16, 3/8, 1/2, 5/8, 3/4, 1, 1 1/4, 1 3/8, 1 1/2, 1 3/4, 2 1/8, 2 1/2

DIECO Part #	O.D. (in)	I.D. Range	Lengths (in)
P-64-	1	1/2 - 49/64	1/2, 5/8, 3/4, 1, 1 1/4, 1 3/8, 1 1/2, 1 3/4, 2 1/8, 2 1/2, 3
P-72-	1 1/8	49/64 - 27/32	1/4, 1/2, 5/8, 3/4, 1, 1 1/4, 1 1/2, 1 3/4
P-80-	1 1/4	55/64 - 15/16	5/8, 3/4, 1, 1 1/4, 1 1/2, 1 3/4, 2
P-88-	1 3/8	5/8 - 1 1/32	1/2, 5/8, 3/4, 1, 1 1/4, 1 3/8, 1 1/2, 1 3/4, 2, 2 1/8, 2 1/2, 3
P-96-	1 1/2	1 1/64 - 1 1/8	3/4, 1, 1 1/4, 1 1/2, 1 3/4, 2, 2 1/4
P-112-	1 3/4	1 - 1 25/64	3/4, 1, 1 3/8, 1 1/2, 1 3/4, 2 1/8, 2 1/2, 3
P-144-	2 1/4	1 3/8 - 1 49/64	1, 1 3/8, 1 1/2, 1 3/4, 2 1/8, 2 1/2, 3

- Also available in Metric
- Specify Bushing Type - O.D. - Length, I.D. (P-10-1/4 #80)

Designated as Type P, these bushings are the least expensive and most popular bushings. Generally used in single step drilling. Pressed flush in the fixture plate, they can be spaced closer together than other types of bushings. Available as unground with additional outside diameter stock.



Head Press Fit Bushings - Head Type "H"

DIECO Part #	O.D. (in)	I.D. Range	Lengths (in)
H-10-	5/32	#80 - #70	1/4, 5/16, 3/8, 1/2
H-10-	5/32	#69 - 1/16	1/4, 5/16, 3/8, 1/2, 3/4
H-13-	13/64	#80 - #70	1/4, 5/16, 3/8, 1/2
H-13-	13/64	#69 - 3/64	1/4, 5/16, 3/8, 1/2, 3/4
H-13-	13/64	#55 - #39	1/4, 5/16, 3/8, 1/2, 3/4, 1
H-16-	1/4	#40 - 9/64	1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1, 1 3/8, 1 1/2
H-20-	5/16	1/8 - #10	1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1, 1 3/8, 1 1/2
H-24-	3/8	#10 - #1	1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1
H-26-	13/32	3/16 - "F"	1/4, 5/16, 3/8, 1/2, 3/4, 1, 1 3/8, 1 1/2, 1 3/4
H-28-	7/16	"A" - "L"	1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1
H-32-	1/2	3/16 - "O"	1/4, 5/16, 3/8, 1/2, 3/4, 1, 1 3/8, 1 1/2, 1 3/4
H-36-	9/16	"M" - 11/32	1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1
H-40-	5/8	5/16 - 7/16	1/4, 5/16, 3/8, 1/2, 3/4, 1, 1 3/8, 1 1/2, 1 3/4, 2 1/8
H-48-	3/4	5/16 - 7/16	1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1, 1 1/4, 1 3/8, 1 1/2, 1 3/4, 2 1/8
H-56-	7/8	1/2 - 21/32	1/2, 5/8, 3/4, 1, 1 1/4, 1 3/8, 1 1/2, 1 3/4, 2 1/8, 2 1/2

DIECO Part #	O.D. (in)	I.D. Range	Lengths (in)
H-64-	1	1/2 - 49/64	1/2, 3/4, 1, 1 3/8, 1 1/2, 1 3/4, 2 1/8, 2 1/2, 3
H-80-	1 1/4	55/64 - 15/16	5/8, 3/4, 1, 1 1/4, 1 1/2, 1 3/4, 2
H-88-	1 3/8	5/8 - 1 1/32	1/2, 3/4, 1, 1 3/8, 1 1/2, 1 3/4, 2 1/8, 2 1/2, 3
H-112-	1 3/4	1 - 1 25/64	3/4, 1, 1 3/8, 1 1/2, 1 3/4, 2 1/8, 2 1/2, 3
H-144-	2 1/4	1 3/8 - 1 49/64	1, 1 3/8, 1 1/2, 1 3/4, 2, 2 1/8, 2 1/2, 3

- Also available in Metric
- Specify Bushing Type - O.D. - Length, I.D. (H-10-1/4 #80)

Designated as Type H, these bushings can accept heavier axial loads than type P bushings whether mounted with the head above the fixture or recessed into the fixture. Also available as unground with additional outside diameter stock.



Also available, call for information:

Slip/Fixed Renewable Bushings – Designated as Type SF or SFX, these bushings are mostly used when the number of holes drilled will be greater than expected life of the bushing. Type SF and SFX bushings are also used when a hole is drilled, then a reaming or tapping operation is required. By slipping the bushing out of the liner another size may be installed for the next operation to be performed. Clamps or lock screws are used to secure them in the fixture.

Fixed Renewable Bushings – Designated as Type FM, these bushings are mostly used when the number of holes drilled will be greater than the expected life of the bushing. By slipping the bushing out of the liner another size may be installed for the next operation to be performed. Clamps or lock screws are used to secure them in the fixture.

Metric

Spring Cages

- Cold rolled steel
- Cages are case hardened by carbonitriding

Spring O.D.	3/4"	1"	1 1/4"	1 1/2"	2"
Cage Length (in)	DIECO Part #	DIECO Part #	DIECO Part #	DIECO Part #	DIECO Part #
1.00	SC-0608	SC-0808	SC-1008	--	--
1.25	SC-0610	SC-0810	SC-1010	SC-1210	SC-1610
1.50	SC-0612	SC-0812	SC-1012	SC-1212	SC-1612
1.75	SC-0614	SC-0814	SC-1014	SC-1214	SC-1614
2.00	SC-0616	SC-0816	SC-1016	SC-1216	SC-1616
2.25	SC-0618	SC-0818	SC-1018	SC-1218	SC-1618
2.50	SC-0620	SC-0820	SC-1020	SC-1220	SC-1620
2.75	SC-0622	SC-0822	SC-1022	SC-1222	SC-1622
3.00	SC-0624	SC-0824	SC-1024	SC-1224	SC-1624
3.25	SC-0626	SC-0826	SC-1026	SC-1226	SC-1626
3.50	SC-0628	SC-0828	SC-1028	SC-1228	SC-1628
3.75	SC-0630	SC-0830	SC-1030	SC-1230	SC-1630
4.00	SC-0632	SC-0832	SC-1032	SC-1232	SC-1632
4.25	SC-0634	SC-0834	SC-1034	SC-1234	SC-1634
4.50	SC-0636	SC-0836	SC-1036	SC-1236	SC-1636
4.75	SC-0638	SC-0838	SC-1038	SC-1238	SC-1638
5.00	SC-0640	SC-0840	SC-1040	SC-1240	SC-1640
5.50	SC-0644	SC-0844	SC-1044	SC-1244	SC-1644

Spring O.D.	3/4"	1"	1 1/4"	1 1/2"	2"
Cage Length (in)	DIECO Part #	DIECO Part #	DIECO Part #	DIECO Part #	DIECO Part #
6.00	SC-0648	SC-0848	SC-1048	SC-1248	SC-1648
6.50	SC-0652	SC-0852	SC-1052	SC-1252	SC-1652
7.00	SC-0656	SC-0856	SC-1056	SC-1256	SC-1656
8.00	SC-0664	SC-0864	SC-1064	SC-1264	SC-1664
9.00	SC-0672	SC-0872	SC-1072	SC-1272	SC-1672
10.00	SC-0680	SC-0880	SC-1080	SC-1280	SC-1680
11.00	--	--	--	--	SC-1688
12.00	--	--	--	--	SC-1696



Eagle Screw Caps

- Eagle Screw Caps are easy to use
- Saves time in basic die assembly, disassembly and maintenance operations
- Ideal in long run dies where maintenance is crucial and on-going.



DIECO Part #	Size - Thread X Length (in)	Hex (in)	Tap Drill Size (in)	Decimal (in)	Spring O.D. (in)
ESC-1	7/16 - 20 x 1/4	3/16	25/64	0.386	3/8
ESC-2	1/2 - 20 x 15/16	1/4	29/64	0.453	3/8 - 7/16
ESC-3	9/16 - 18 x 5/16	1/4	33/64	0.515	7/16 - 1/2
ESC-4	5/8 - 18 x 5/16	1/4	37/64	0.578	1/2 - 9/16
ESC-5	11/16 - 18 x 5/16	1/4	5/8	0.625	9/16 - 5/8
ESC-6	3/4 - 16 x 5/16	1/4	11/16	0.687	5/8 - 11/16
ESC-7	7/8 - 14 x 5/16	1/4	13/16	0.812	3/4
ESC-8	7/8 - 14 x 7/16	3/8	13/16	0.812	3/4
ESC-9	1 - 14 x 5/16	1/4	15/16	0.937	3/4 - 13/16
ESC-10	1 - 14 x 7/16	3/8	15/16	0.937	3/4 - 13/16
ESC-11	1 1/8 - 12 x 5/16	1/4	1 3/64	1.046	13/16 - 1
ESC-12	1 1/8 - 12 x 1/2	3/8	1 3/64	1.046	13/16 - 1
ESC-13	1 1/4 - 12 x 5/16	1/4	1 11/64	1.172	1
ESC-14	1 1/4 - 12 x 1/2	3/8	1 11/64	1.172	1
ESC-15	1 3/8 - 12 x 1/2	1/2	1 19/64	1.296	1 1/16 - 1 1/4
ESC-16	1 1/2 - 12 x 1/2	1/2	1 27/64	1.422	1 1/4
ESC-17	1 1/2 - 12 x 5/8	1/2	1 27/64	1.422	1 1/4
ESC-18	1 3/4 - 12 x 7/16	1/2	1 43/64	1.672	1 1/2
ESC-19	1 3/4 - 12 x 3/4	1/2	1 43/64	1.672	1 1/2



- Adjustable Stock Lifters
- Automatic Stops
- Die Stop Pins
- Gripper Buttons
- Pad Retainers & Plunger Pins





Lamina Flat Products

- L-Gibs, V-Gibs, Square Gibs
- Gib Assemblies
- Guide Blocks
- Keeper Blocks
- Wear Plate
- Wear Strips

Lamina Other Products

- Stock Lifters
- Pad Retainers
- Mold Pins & Bushings
- Marsh Mellow Springs
- Hydraulics
- Cam Units
- Ball Bearing Scrub



Drill Rod

- It is used extensively in dies and punches for blanking, forming and trimming, as well as in cams, bushings, guides and gauges.

Typical applications include:

- Blanking dies • Drawing dies • Machine ways
- Cams • Forming dies • Plastic mold dies
- Coining dies • Gages • Shear Blades • Trim dies

Available in:

AISI	O-1	Oil Hardening
AISI	O-1	Metric Oil Hardening
AISI	W-1	Water Hardening
AISI	A-2	Air Hardening
AISI	A-2	Metric Air Hardening
AISI	S-7	Air Hardening
AISI	D-2	Air Hardening High Chrome

D-2 Tool Steel

- Heat treat temperature 1600-1650 F
- Quench Air or Oil
- Hardness Rockwell 60c-62c
- Applications D2 has high wear resistance, good toughness, and low distortion. It is often chosen when long tool life is required

Stocked as Premium DCF plate, flats, and rounds
Other Tool Steel Grades Available

If you can't
find it,
give us a
CALL!



Steel Shim Stock

- Low carbon mild steel cold rolled to a #1 hard temper.
- Stiff and springy, and can be used where hardness is required.
- Can be punched or sheared with minimum burring and distortion.
- Meets the following specifications: AISI 1010 and QQS 698.

Available in .001" to .031" and in standard packages 6" x 100" or 12" x 120". Special slit widths are also available on request. Other sizes available: 6"x100", 12"x120", Assortments: 6"x25" Flat Paks, 6"x18" Flat Paks.

DIECO Part #	Description
SR2	6" x 180" .002
SR3	6" x 180" .003
SR5	6" x 180" .005
SR7	6" x 180" .007
SR10	6" x 180" .010
SR15	6" x 180" .015
SR20	6" x 180" .020
SR25	6" x 180" .025



Mount It • Install It • Punch It

- Rugged, heavy duty units for multiple hole punching and notching
- Offers a wide range of standard holder widths, throat depths, and round and shaped Punches and Dies.
- Punch heads and bodies are separate, which lets you quickly change hole size and shape, simply by changing the inexpensive Punch bodies.
- Reuse the Punch Heads indefinitely. Low-cost Die Buttons complete the Punch system and offer close tolerances for accuracy and interchangeability.

A Series Units

Standard 8 3/8" shut height and 3 1/2" die height

A 1", 1 1/4", 1 1/2", 2", 2 1/2", 3 1/2", 5 1/2", 8"

AJ 1", 1 1/4", 1 1/2", 2", 2 1/2"

Feed Clearance Units

AH 2 1/2", 3, 3 1/2", 6"

OA 6"

AD 4"

FTA 1 1/2", 1 1/2", 2", 2 1/2"

Corner Notch

Edge Notch

Vee Notch

D Series

6300 Flat Stock Cutoff

B Series Units

Standard 5 1/2" shut height and 2 19/32" die height

BX 3/4"

B Series 1", 1 1/4", 1 3/4", 3", 5"

Corner Notch

7180 Corner Notch

Edge Notch

Vee Notch

5300 Flat Stock Cutoff



Other Products,
Accessories &
Replacement
Tooling Available



- Standard Steel Stamps & Holders Used for Automotive & Stamping Industry standard marking devices
- Branding & Stamping Tools



DIECO Part #	Description	Holds Stamps
HOLDERS		
ARG-101	Retainer Set	7 ARG-103, 8 ARG-164
ARG-104	Retainer Set	1 ARG-105
ARG-106	Retainer Set	14 ARG-103, 16 ARG-164
ARG-201	Retainer Set	1 ARG-202
ARG-301	Retainer Set	5 ARG-310
ARG-306	Retainer Set	6 ARG-310
ARG-308	Retainer Set	8 ARG-310
ARG-412	Retainer Set	12 ARG-103
ARG-510	Retainer Set	10 ARG-164, 512 or 518
ARG-520	Retainer Set	20 ARG-164, 512 or 518
MR-3	Retainer Set	3 ARG-180, 6 ARG-090
MR-5	Retainer Set	5 ARG-180, 10 ARG-090
MR-7	Retainer Set	7 ARG-180, 14 ARG-090
MR-9	Retainer Set	9 ARG-180, 18 ARG-090
MR-50	Retainer Set	5 ARG-250
MR-54	Retainer Set	9 ARG-250
RN-1/8-3	Retainer Set	3 RN-1/8
55-506-0442	Retainer Set	10 RN-1/8
55-506-0442-12	Retainer Set	12 RN-1/8
55-506-1442	Retainer Set	10 RN-1/8 & 1 Logo
WDX20-60-0304	Retainer Set	5 ARG-310
92-845-1516	Retainer Set	7 RN-1/8

DIECO Part #	Description	Size
STAMPS		
ARG-090	Steel Stamp	3/32" Character Height
ARG-103	Steel Stamp	5/32" Character Height
ARG-105	Steel Stamp	5/32" Character Height
ARG-125	Steel Stamp	1/8" Character Height
ARG-164	Steel Stamp	5/32" Character Height
ARG-180	Steel Stamp	1/8" Character Height
ARG-202	Steel Stamp	5/32" Character Height
ARG-250	Steel Stamp	7/32" Character Height
ARG-310	Steel Stamp	7/16" Character Height
ARG-512	Steel Stamp	1/8" Character Height
ARG-518	Steel Stamp	3/16" Character Height
G-13	Steel Stamp	1/8" Character Height
RN-1/8	Steel Stamp	1/8" Character Height
ARG-21-750-0018	--	All Automotive Sizes
ARG-21-750-0038	--	All Automotive Sizes



- Custom Specials
- OEM Components
- Injection Mold Components
- Punches, Dies, Guides and Quills



- Ball Lock Mounting Systems
- Locating Components
- Gripper Products
- Workholding Components
- Vises & Accessories
- Kwik Lock Pins
- Power Clamping



Reid Supply
Complete
Product Line
Available

• Tooling Components

Bolts, Studs & T-Nuts, Shim Stock, CMM Fixturing, Jig & Fixture Blocks & Plates, Locating Tools, Mold Components, Nuts, Pallet Fixtures Rest Buttons, Pads & Supports, Spring-Loaded Devices, Washers

• Clamps & Workholding

Clamps, Fixturing Components, Hydraulic Clamps & Workholding, Pneumatic Clamps & Workholding, Vises & Milling Machine Accessories

• Leveling Devices & Vibration Control

Leveling Pads, Machinery Leveling Mounts, Vibration Mounts

• Knobs, Handles & Hand Wheels

Handles, Hand Wheels, Knobs, Levers

• Fasteners & Hardware

Fasteners, Hardware, Quick Release Pins & Accessories, Thread Inserts & Accessories

- Bearings & Power Transmission
- Cable Ties & Accessories
- Material Handling
- Metalworking
- Tools, Maintenance & Shop Supplies
- Pneumatics & Hydraulics
- Structural Systems
- Safety
- Packaging & Shipping Supplies



Plain Bearing Components

Press Fit Guide Pins



Press Fit Guide Pins - Ground

DIECO Part #	D1	L1	L2
TPC750X4*	3/4"	4	1 3/8"
TPC750X4.5		4 1/2	
TPC750X5*		5	
TPC750X5.5		5 1/2	
TPC750X6		6	
TPC750X6.5		6 1/2	
TPC750X7		7	
TPC750X7.5		7 1/2	
TPC750X8		8	
TPC875X4	7/8"	4	1 1/2"
TPC875X4.5		4 1/2	
TPC875X5		5	
TPC875X5.5		5 1/2	
TPC875X6		6	
TPC875X6.5		6 1/2	
TPC875X7		7	
TPC875X7.5		7 1/2	
TPC875X8		8	
TPC100X4	1"	4	1 1/2"
TPC100X4.5*		4 1/2	
TPC100X5*		5	
TPC100X5.5*		5 1/2	
TPC100X6*		6	
TPC100X6.5*		6 1/2	
TPC100X7		7	
TPC100X7.5		7 1/2	
TPC100X8		8	
TPC100X8.5		8 1/2	
TPC100X9		9	
TPC100X10		10	
TPC125X4	1 1/4"	4	1 3/4"
TPC125X4.5		4 1/2	
TPC125X5		5	
TPC125X5 1/2		5 1/2	
TPC125X6		6	
TPC125X6.5*		6 1/2	
TPC125X7		7	
TPC125X7.5		7 1/2	
TPC125X8		8	
TPC125X8.5		8 1/2	
TPC125X9		9	
TPC125X9-1/2		9 1/2	
TPC125X10		10	
TPC125X11		11	
TPC125X12		12	
TPC150X4-1/2	1 1/2"	4 1/2	2"
TPC150X5		5	
TPC150X5.5		5 1/2	
TPC150X6		6	
TPC150X6-1/2		6 1/2	
TPC150X7*		7	
TPC150X7.5		7 1/2	
TPC150X8		8	

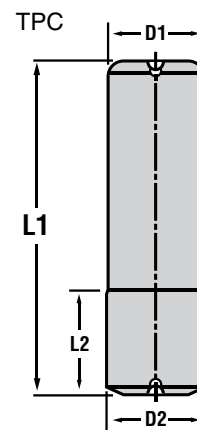
DIECO Part #	D1	L1	L2
TPC150X8*	1 1/2"	8	2"
TPC150X8.5		8 1/2	
TPC150X9		9	
TPC150X9.5		9 1/2	
TPC150X10		10	
TPC150X11		11	
TPC150X12		12	
TPC175X6	1 3/4"	6	2 1/4"
TPC175X6.5		6 1/2	
TPC175X7		7	
TPC175X7.5		7 1/2	
TPC175X8		8	
TPC175X8.5		8 1/2	
TPC175X9		9	
TPC175X9.5		9 1/2	
TPC175X10		10	
TPC175X11		11	
TPC175X12		12	
TPC175X13		13	
TPC175X14		14	
TPC175X15		15	
TPC175X17		17	
TPC200X6	2"	6	2 1/2"
TPC200X6.5		6 1/2	
TPC200X7		7	
TPC-200X7.5		7 1/2	
TPC200X8		8	
TPC200X8.5		8 1/2	
TPC200X9		9	
TPC200X9.5		9 1/2	
TPC200X10		10	
TPC200X11		11	
TPC200X12		12	
TPC200X13		13	
TPC200X14		14	
TPC200X15		15	
TPC200X17		17	
TPC200X19		19	
TPC250X8	2 1/2"	8	3 1/2"
TPC250X8.5		8 1/2	
TPC250X9		9	
TPC250X10		10	
TPC250X11		11	
TPC250X12		12	
TPC250X13		13	
TPC250X14		14	
TPC250X15		15	
TPC250X17		17	
TPC250X19		19	
TPC250X21		21	
TPC300X9	3"	9	4"
TPC300X10		10	
TPC300X11		11	
TPC300X12		12	
TPC300X13		13	

DIECO Part #	D1	L1	L2
TPC300X14	3"	14	4"
TPC300X15		15	
TPC300X17		17	
TPC300X19		19	
TPC300X21		21	

* Quick Fit Style (MQF) available

Press Fit Guide Pins - Straight

DIECO Part #	D1	L1
TN750X4	3/4"	4
TN750X4.5		4 1/2
TN750X5		5
TN750X6		6
TN750X7		7
TN750X8		8
TN100X4	1"	4
TN100X4.5		4 1/2
TN100X5		5
TN100X5.5		5 1/2
TN100X6		6
TN100X6.5		6 1/2
TN100X7		7
TN100X7.5		7 1/2
TN100X8		8
TN100X8.5		8 1/2
TN100X9		9
TN100X10		10
TN125X4.5	1 1/4"	4 1/2
TN125X5		5
TN125X5.5		5 1/2
TN125X6		6
TN125X6-1/2		6 1/2
TN125X7		7
TN125X7.5		7 1/2
TN125X8		8
TN125X8.5		8 1/2
TN125X9		9
TN125X9.5		9 1/2
TN125X10		10
TN125X11		11
TN125X12		12
TN150X5	1 1/2"	5
TN150X5.5		5 1/2
TN150X6		6
TN150X6.5		6 1/2
TN150X7		7
TN150X7.5		7 1/2
TN150X8		8
TN150X8.5		8 1/2
TN150X9		9
TN150X9.5		9 1/2
TN150X10		10
TN150X11		11
TN150X12		12

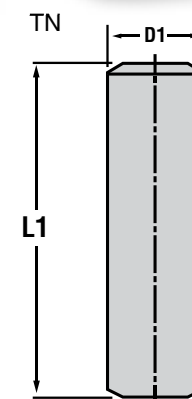


L1 (overall length)
L2 (pressed fit length)

D2 Specifications:

TPC-100 & smaller =
nominal plus .0020 +.0000
TPC-125 - 300 =
nominal plus .0025 +.0000
TPC-375 & 450 =
nominal plus .0025 +.0000
-.0010

Also available in
UNGROUND - TPB
All TPB Guide Pins have
centers & .015 grind stock
on the D2 diameter.
Change part number
to TPB instead
of TPC.



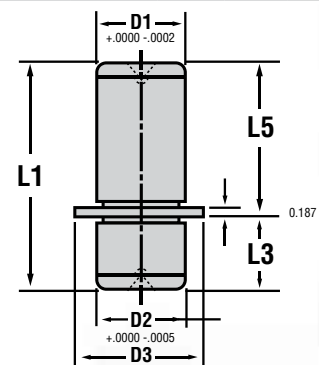
TN Pins are centerless ground

Demountable Guide Pins

DIECO Part #	D1 & D2 Nom Pin Dia	D3 +.010 - .015	L3 ±.010	L5 (Ref)
DGP0810	1	1.313	1.188	2.5
DGP0811				2.75
DGP0812				3
DGP0813				3.25
DGP0814				3.5
DGP0815				3.75
DGP0816				4
DGP0817				4.25
DGP0818				4.5
DGP0819				4.75
DGP0820				5
DGP0822				5.5
DGP0824				6
DGP0826				6.5
DGP0828				7
DGP0830				7.5
DGP0832				8
DGP1011	1 1/4	1.563	1.188	2.75
DGP1012				3
DGP1013				3.25
DGP1014				3.5
DGP1015				3.75
DGP1016				4
DGP1017				4.25
DGP1018				4.5
DGP1019				4.75
DGP1020				5
DGP1021				5.25
DGP1022				5.5
DGP1023				5.75
DGP1024				6
DGP1025				6.25
DGP1026				6.5
DGP1027				6.75
DGP1028				7
DGP1029				7.25
DGP1030				7.5
DGP1032				8
DGP1033				8.25
DGP1036				9
DGP1037				9.25
DGP1040				10
DGP1041				10.25
DGP1211	1 1/2	1.875	1.438	2.75
DGP1212				3
DGP1213				3.25
DGP1214				3.5
DGP1215				3.75
DGP1216				4
DGP1217				4.25
DGP1218				4.5
DGP1219				4.75
DGP1220				5
DGP1221				5.25

DIECO Part #	D1 & D2 Nom Pin Dia	D3 +.010 - .015	L3 ±.010	L5 (Ref)
DGP1222				5.5
DGP1223				5.75
DGP1224				6
DGP1225				6.25
DGP1226				6.5
DGP1227				6.75
DGP1228				7
DGP1229				7.25
DGP1230				7.5
DGP1232				8
DGP1233				8.25
DGP1236				9
DGP1237				9.25
DGP1240				10
DGP1241				10.25
DGP1414	1 3/4	2.250	1.688	3.5
DGP1416				4
DGP1417				4.25
DGP1418				4.5
DGP1419				4.75
DGP1420				5
DGP1422				5.5
DGP1424				6
DGP1426				6.5
DGP1428				7
DGP1430				7.5
DGP1432				8
DGP1434				8.5
DGP1436				9
DGP1438				9.5
DGP1440				10
DGP1446				11.5
DGP1448				12
DGP1614	2	2.500	1.938	3.5
DGP1616				4
DGP1617				4.25
DGP1618				4.5
DGP1619				4.75
DGP1620				5
DGP1622				5.5
DGP1624				6
DGP1626				6.5
DGP1628				7
DGP1630				7.5
DGP1632				8
DGP1634				8.5
DGP1636				9
DGP1638				9.5
DGP1640				10
DGP1642				10.5
DGP1646				11.5
DGP1648				12
DGP1656				14
DGP1658				14.5

DIECO Part #	D1 & D2 Nom Pin Dia	D3 +.010 - .015	L3 ±.010	L5 (Ref)
DGP1670	2	2.500	1.938	17.5
DGP2018				4.5
DGP2020				5
DGP2022				5.5
DGP2024				6
DGP2026				6.5
DGP2028				7
DGP2030				7.5
DGP2032				8
DGP2034				8.5
DGP2036				9
DGP2038				9.5
DGP2040				10
DGP2042				10.5
DGP2048				12
DGP2054				13.5
DGP2056				14
DGP2064				16
DGP2066				16.5
DGP2418	3	3.500	2.438	4.5
DGP2420				5
DGP2422				5.5
DGP2424				6
DGP2426				6.5
DGP2428				7
DGP2430				7.5
DGP2432				8
DGP2434				8.5
DGP2436				9
DGP2438				9.5
DGP2440				10
DGP2442				10.5
DGP2448				12
DGP2454				13.5
DGP2456				14
DGP2464				16
DGP2466				16.5



Demountable guide pins are tap fit and require toe clamps and screws to hold them in place. The clamping flange is ground so that the flange fits squarely against the mounting surface.

- Heavy-duty X-40-Clamps are used to secure the pins to the die shoe.
- Clamps and screws are included.
- DGP Guide Pins with Diameters of 1", 1 1/4" & 1 1/2" have 3 clamps.
- DGP Guide Pins with Diameters of 1 3/4", 2", 2 1/2" and 3" have 4 clamps.

Plain Bearing Components

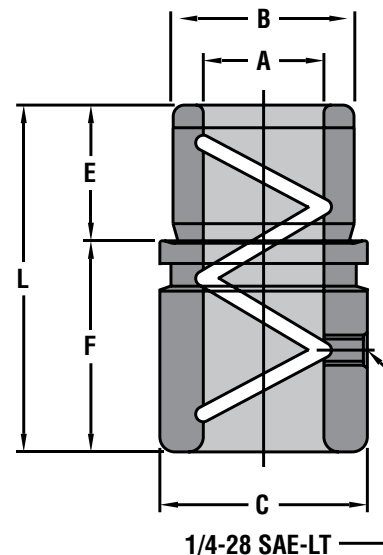
PRODUCTO Steel Bushings



- Bushing shoulder ground square to press fit diameter assists in obtaining correct alignment when properly seated against ground surface of punch holder
- Ground lead on press fit end starts bushing accurately into punch holder
- Lubrication fitting at intersection of double figure-eight grooves allow for simple, effective lubrication
- A nominal allowance is provided on the inside diameter for honing after assembly

PRODUCTO Shoulder Bushing - Press Fit

Nominal I.D.	Press Fit				Regular Shoulder			Long Shoulder		
	I.D. A	O.D. B	C	E	DIECO Part #	F	L	DIECO Part #	F	L
3/4	0.7503	1.1270	1.34	0.8	BSH-MB6	1.00	1.87			
	0.7504	1.1265	1.34	0.62	BSH-MB6A	1.00	1.62			
1	1.0003	1.5020	1.72	1.12	BSH-MB8	1.75	2.87	BSH-MBL8	2.75	3.87
1 1/4	1.2503	1.7525	1.97	1.25	BSH-MB10	2.00	3.25			
1 1/2	1.5004	2.0025	2.22	1.37	BSH-MB12	2.00	2.93			
2	2.0005	2.5030	2.97	1.87	BSH-MB16	2.00	3.87			



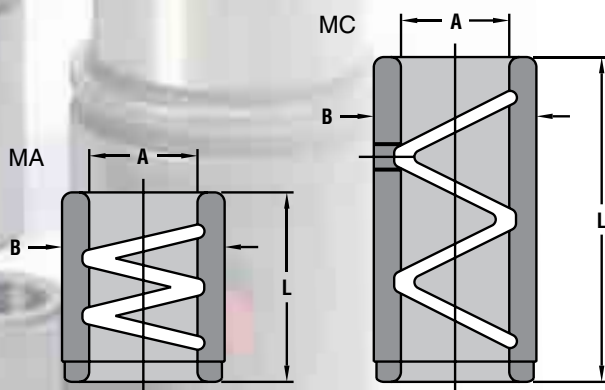
PRODUCTO Shoulder Bushing - Removable

Nominal I.D.	I.D. A	O.D. B	C	E	F	L	DIECO Part #
3/4	0.7503	1.1252	1.34	0.8	1.00	1.87	BSH-MBR6
1	1.0003	1.5002	1.72	1.12	1.75	2.87	BSH-MBR8
1 1/4	1.2503	1.7502	1.97	1.25	2.00	3.25	BSH-MBR10

Furnished with clamps and screws.

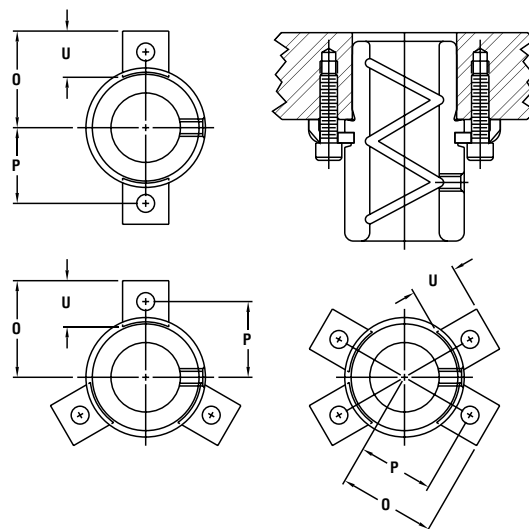
PRODUCTO Straight Bushing - Press Fit

Nominal I.D.	I.D. A	O.D. B	Short		Long	
			DIECO Part #	L	DIECO Part #	L
1/2	0.5003	0.7520	BSH-MA4	1.50		
	0.5004	0.7515				
3/4	0.7503	1.1270	BSH-MA6	1.75	BSH-MC6	3
	0.7504	1.1265				
1	1.0003	1.5020			BSH-MC8	3
	1.0004	1.5015				



PRODUCTO Clamp Arrangement

Nominal I.D.	Clamp Type	No. of Clamps	Cap Screw	P	O	U
0.75	D50	2	1/4 - 20	0.91	1.22	0.62
1.00	D50	2	1/4 - 20	1.09	1.40	0.62
1.25	D50	3	1/4 - 20	1.22	1.53	0.62
1.50	D50	3	1/4 - 20	1.34	1.65	0.62
2.00	LD50	4	5/16 - 18	1.76	2.08	0.75

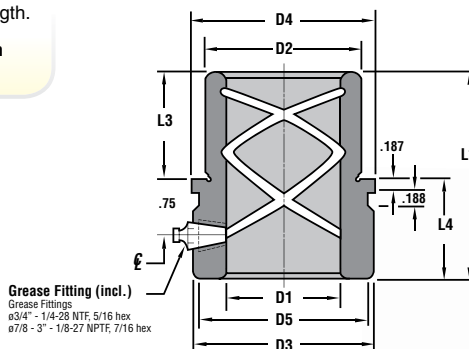


Standard Shoulder Bushings

Bronze Plated	D1	D2	D3	D4	D5	L1	L3	L4	Solid Steel *	Solid Bronze
DIECO Part #	Nominal I.D.	Wring Fit Dia Ground	Head OD	Shoulder OD	Head OD Groove	Overall Length	Wring Fit Length	Head Length	DIECO Part #	DIECO Part #
GAC750S	3/4	1.125	1.219	1.313	1.125	2.063	0.813	1.25	GAC750SS	GAC750SB
GAC875S	7/8	1.375	1.391	1.469	1.375	2.125	0.875	1.25		GAC875SB
GAC100S	1	1.500	1.656	1.75	1.563	2.125	0.875	1.25	GAC100SS	GAC100SB
GAC100L						3.125	1.875			
GAC125S	1 1/4	1.750	2.031	2.125	1.938	2.625	1.125	1.50	GAC125SS	GAC125SB
GAC125L						3.625	2.125			
GAC150S	1 1/2	2.000	2.281	2.375	2.188	2.875	1.375	1.50	GAC150SS	GAC150SB
GAC150L						3.875	2.375			
GAC175S	1 3/4	2.250	2.531	2.625	2.438	3.125	1.625	1.50	GAC175SS	GAC175SB
GAC175L						4.125	2.625			
GAC200S	2	2.500	3.031	3.125	2.938	3.375	1.875	1.50	GAC200SS	GAC200SB
GAC200L						4.375	2.875			
GAC250S	2 1/2	3.000	3.531	3.625	3.438	3.875	1.875	2.00	GAC250SS	GAC250SB
GAC300S	3	3.625	4.281	4.375	4.188	3.875	1.875	2.00		GAC300SB

* Solid steel also available with a 2" head length.

D Clamps and screws are included with Demountable Shoulder Bushings.



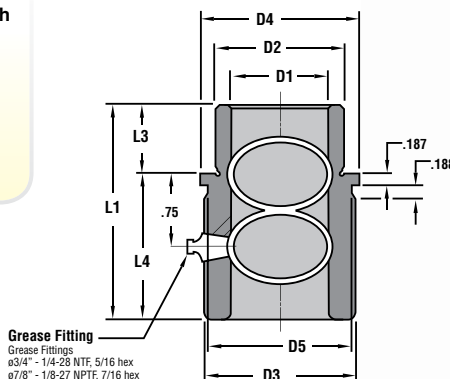
Long & Extra Long Shoulder Bushings - Bronze Plated

Long Shoulder DIECO Part #	D1 Nominal I.D.	D2 Wring Fit Dia.	D3 Head OD	D4 Shoulder OD	D5 Head OD Groove	L1 Overall Length	L3 Wring Fit Length	L4 Head Length	Extra Long Shoulder DIECO Part #	L1 Overall Length	L3 Wring Fit Length	L4 Head Length
GLAC750S	3/4	1.125	1.219	1.313	1.125	2.813	0.813	2.000	GXLAC750S	3.563	0.813	2.750
GLAC875S	7/8	1.375	1.563	1.563	1.375	3.000	0.875	2.125	GXLAC875S	4.375	0.875	3.500
GLAC100S	1	1.500	1.656	1.750	1.563	3.125	0.875	2.250	GXLAC100S	4.375	0.875	3.500
GLAC125S	1 1/4	1.750	2.031	2.125	1.928	3.500	1.125	2.375	GXLAC125S	4.625	1.125	3.500
GLAC150S	1 1/2	2.000	2.281	2.375	2.188	4.125	1.375	2.375	GXLAC150S	4.875	1.375	3.500
GLAC175S	1 3/4	2.250	2.531	2.625	2.438	4.625	1.625	3.000				
GLAC200S	2	2.500	3.031	3.125	2.938	4.625	1.625	3.000				
GLAC250S	2 1/4	3.000	3.531	3.625	3.438	5.375	1.875	3.500				
GLAC300S	3	3.625	4.281	4.375	4.188	5.875	1.875	4.000				

D Clamps and screws are included with Demountable Shoulder Bushings.

Also available in UNGROUND

- Same part number as above without "G" in front.
- All unground bushings have .015 grind stock on the D2 diameter.



Other styles also available:
Solid steel also available in Long and Extra Long Shoulder.
Standard shoulder bushing available in Self Lubricating

Ball Bearing Components

Ball Bearing Pins



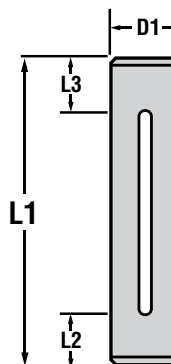
- Made from chrome alloy steel, hardened
- Ground to a high degree of tolerance accuracy
- Complete interchangeability, not only with our own but other manufacturers' also.

Ball Bearing Pins - Straight

DIECO Part #	Nom Pin Dia.	D1	L1	L2	L3
AP1-0612	3/4"	0.7530 0.7527	2.88	0.63	0.81
AP1-0613			3.13	0.63	0.81
AP1-0614			3.38	0.63	0.81
AP1-0615			3.63	0.63	0.81
AP1-0616			3.88	0.63	0.81
AP1-0617			4.13	0.63	0.81
AP1-0618			4.38	0.63	0.81
AP1-0619			4.63	0.88	1
AP1-0620			4.88	0.88	1
AP1-0622			5.38	0.88	1
AP1-0624			5.88	0.88	1
AP1-0815	1"	1.0030 1.0027	3.63	0.88	1
AP1-0816			3.88	0.88	1
AP1-0817			4.13	0.88	1
AP1-0818			4.38	0.88	1
AP1-0819			4.63	0.88	1.25
AP1-0820			4.88	0.88	1.25
AP1-0821			5.13	0.88	1.25
AP1-0822			5.38	0.88	1.25
AP1-0823			5.63	0.88	1.25
AP1-0824			5.88	0.88	1.25
AP1-0826			6.38	0.88	1.5
AP1-0828			6.88	0.88	1.5
AP1-0830	1 1/4"	1.2530 1.2526	7.38	0.88	1.5
AP1-0832			7.88	0.88	1.5
AP1-0834			8.38	0.88	2
AP1-0836			8.88	0.88	2
AP1-1018			4.38	1	1.38
AP1-1019			4.63	1	1.38
AP1-1020			4.88	1	1.38
AP1-1021			5.13	1	1.38
AP1-1022			5.38	1	1.38
AP1-1023			5.63	1	1.38
AP1-1024			5.88	1	1.38
AP1-1026			6.38	1.13	1.75
AP1-1028	1 1/2"	1.5030 1.5026	6.88	1.13	1.75
AP1-1030			7.38	1.13	1.75
AP1-1032			7.88	1.13	1.75
AP1-1034			8.38	1.13	1.75
AP1-1036			8.88	1.13	1.75
AP1-1040			9.88	1.13	2.25
AP1-1044			10.88	1.13	2.25
AP1-1048			11.88	1.88	2.25
AP1-1218			4.38	1.38	1.31
AP1-1219			4.63	1.38	1.31
AP1-1220			4.88	1.38	1.31
AP1-1221			5.13	1.38	1.31
AP1-1222			5.38	1.38	1.31
AP1-1223			5.63	1.25	1.56

DIECO Part #	Nom Pin Dia.	D1	L1	L2	L3
AP1-1224			5.88	1.25	1.56
AP1-1226			6.38	1.25	1.56
AP1-1228			6.88	1.38	2
AP1-1230			7.38	1.38	2
AP1-1232			7.88	1.38	2
AP1-1234			8.38	1.38	2
AP1-1236			8.88	1.63	2.5
AP1-1238			9.38	1.63	2.5
AP1-1240			9.88	1.63	2.5
AP1-1242			10.38	1.63	2.5
AP1-1244			10.88	1.63	2.5
AP1-1246			11.38	1.63	2.5
AP1-1248	1 3/4"	1.7530 1.7525	11.88	1.63	2.5
AP1-1250			12.38	1.63	2.5
AP1-1252			12.88	1.63	2.5
AP1-1256			13.88	1.63	2.5
AP1-1420			4.88	1.31	1.31
AP1-1421			5.13	1.31	1.31
AP1-1422			5.38	1.31	1.31
AP1-1423			5.63	1.5	1.5
AP1-1424			5.88	1.5	1.5
AP1-1425			6.13	1.5	1.5
AP1-1426			6.38	1.63	1.75
AP1-1428	2"	2.0031 2.0026	6.88	1.63	1.75
AP1-1430			7.38	1.63	1.75
AP1-1432			7.88	1.63	1.75
AP1-1434			8.38	1.63	1.75
AP1-1436			8.88	1.63	2.25
AP1-1438			9.38	1.63	2.25
AP1-1440			9.88	1.63	2.25
AP1-1442			10.38	1.63	2.25
AP1-1444			10.88	1.63	2.25
AP1-1446			11.38	1.63	2.25
AP1-1448			11.88	1.63	2.25
AP1-1450			12.38	1.63	2.88
AP1-1452			12.88	1.63	2.88
AP1-1456			13.88	1.63	2.88
AP1-1460			14.88	1.63	2.88
AP1-1468			16.88	1.63	2.88
AP1-1622			5.38	1.38	1.5
AP1-1623			5.63	1.38	1.5
AP1-1624			5.88	1.38	1.5
AP1-1625			6.13	1.38	1.5
AP1-1626			6.38	1.75	1.88
AP1-1627			6.63	1.75	1.88
AP1-1628			6.88	1.75	1.88
AP1-1629			7.13	1.75	1.88
AP1-1630			7.38	1.75	1.88
AP1-1631			7.63	1.75	1.88

DIECO Part #	Nom Pin Dia.	D1	L1	L2	L3
AP1-1632			7.88	1.75	1.88
AP1-1634			8.38	1.88	2.25
AP1-1636			8.88	1.88	2.25
AP1-1638			9.38	1.88	2.25
AP1-1640			9.88	1.88	2.25
AP1-1642			10.38	1.88	2.25
AP1-1644			10.88	1.88	2.25
AP1-1646			11.38	1.88	3
AP1-1648			11.88	1.88	3
AP1-1650			12.38	1.88	3
AP1-1652			12.88	1.88	3
AP1-1656			13.88	2.38	3
AP1-1660	2 1/2"	2.5031 2.5026	14.88	1.88	3
AP1-1664			15.88	1.88	3
AP1-1668			16.88	1.88	3
AP1-1672			17.88	1.88	3
AP1-2032			7.88	1.63	2.5
AP1-2034			8.38	1.63	2.5
AP1-2036			8.88	2.38	2.75
AP1-2040			9.88	2.38	3
AP1-2044			10.88	2.38	3
AP1-2048			11.88	2.38	3
AP1-2052			12.88	2.38	3
AP1-2056	3"	3.0031 3.0025	13.88	2.38	3
AP1-2068			16.88	2.63	4
AP1-2080			19.88	2.63	4
AP1-2432			7.88	2	2.38
AP1-2434			8.38	1.88	2.5
AP1-2436			8.88	1.88	2.5
AP1-2440			9.88	2.88	3
AP1-2444			10.88	2.88	3
AP1-2448			11.88	2.88	3
AP1-2452			12.88	2.88	3
AP1-2456			13.88	2.88	3
AP1-2468			16.88	2.88	4
AP1-2480			19.88	2.88	4



Ball Bearing Guide Pins are also available in Demountable Tap Fit:
Part Number is APG instead of API.

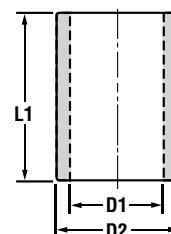
- Made from vacuum degassed chrome alloy steel, hardened.
- Ground and honed to exacting tolerance limits.
- Interchangeable and do not require select fitting.

Ball Bearing Bushings - Press Fit

DIECO Part #	Nom Dia.	D1	D2	L1
AB1-0607	3/4	1.1269 1.1266	1.3772 1.3867	1.63
AB1-0608				1.88
AB1-0609				2.13
AB1-0610				2.38
AB1-0611				2.63
AB1-0612				2.87
AB1-0613				3.13
AB1-0614				3.38
AB1-0615				3.63
AB1-0616				3.88
AB1-0618				4.38
AB1-0620				4.88
AB1-0624				5.88
AB1-0808	1	1.3769 1.3766	1.7172 1.7167	1.88
AB1-0809				2.13
AB1-0810				2.38
AB1-0811				2.63
AB1-0812				2.88
AB1-0813				3.13
AB1-0814				3.38
AB1-0815				3.63
AB1-0816				3.88
AB1-0817				4.13
AB1-0818				4.38
AB1-0819				4.63
AB1-0820				4.88
AB1-0822				5.38
AB1-0824				5.88
AB1-0826				6.38
AB1-0828				6.88
AB1-1010	1 1/4	1.6266 1.6263	2.1072 2.1067	2.38
AB1-1011				2.63
AB1-1012				2.88
AB1-1013				3.13
AB1-1014				3.38
AB1-1015				3.63
AB1-1016				3.88
AB1-1017				4.13
AB1-1018				4.38
AB1-1019				4.63
AB1-1020				4.88
AB1-1022				5.38
AB1-1024				5.88
AB1-1026				6.38
AB1-1028				6.88
AB1-1032				7.88
AB1-1036				8.88
AB1-1212	1 1/2	1.8766 1.8763	2.4372 2.4367	2.88
AB1-1213				3.13
AB1-1214				3.38
AB1-1215				3.63

DIECO Part #	Nom Dia.	D1	D2	L1
AB1-1216				3.88
AB1-1217				4.13
AB1-1218				4.38
AB1-1219				4.63
AB1-1220				4.88
AB1-1221				5.13
AB1-1222				5.38
AB1-1224				5.88
AB1-1226				6.38
AB1-1228				6.88
AB1-1230				7.38
AB1-1232				7.88
AB1-1234				8.38
AB1-1236				8.88
AB1-1240				9.88
AB1-1242				10.38
AB1-1244				10.88
AB1-1248				11.88
AB1-1412	1 3/4	2.1266 2.1263	2.7472 2.7467	2.88
AB1-1414				3.38
AB1-1415				3.63
AB1-1416				3.88
AB1-1417				4.13
AB1-1418				4.38
AB1-1419				4.63
AB1-1420				4.88
AB1-1421				5.13
AB1-1422				5.38
AB1-1424				5.88
AB1-1426				6.38
AB1-1428				6.88
AB1-1430				7.38
AB1-1432				7.88
AB1-1434				8.38
AB1-1436				8.88
AB1-1438				9.38
AB1-1440				9.88
AB1-1442				10.38
AB1-1444				10.88
AB1-1448				11.88
AB1-1452				12.88
AB1-1612	2	2.5016 2.5013	3.1622 3.1617	2.88
AB1-1614				3.38
AB1-1615				3.63
AB1-1616				3.88
AB1-1617				4.13
AB1-1618				4.38
AB1-1619				4.63
AB1-1620				4.88
AB1-1621				5.13
AB1-1622				5.38

DIECO Part #	Nom Dia.	D1	D2	L1
AB1-1624				5.88
AB1-1626				6.38
AB1-1628				6.88
AB1-1630				7.38
AB1-1632				7.88
AB1-1634				8.38
AB1-1636				8.88
AB1-1638				9.38
AB1-1640				9.88
AB1-1642				10.38
AB1-1644				10.88
AB1-1648				11.88
AB1-1652				12.88
AB1-1656				13.88
AB1-2022	2 1/2	3.0016 3.0013	3.6822 3.6817	5.38
AB1-2024				5.88
AB1-2026				6.38
AB1-2028				6.88
AB1-2030				7.38
AB1-2032				7.88
AB1-2034				8.38
AB1-2036				8.88
AB1-2038				9.38
AB1-2040				9.88
AB1-2042				10.38
AB1-2044				10.88
AB1-2048				11.88
AB1-2052				12.88
AB1-2056				13.88
AB1-2424	3	3.5016 3.5013	4.1822 4.1817	5.88
AB1-2426				6.38
AB1-2428				6.88
AB1-2430				7.38
AB1-2432				7.88
AB1-2434				8.38
AB1-2436				8.88
AB1-2438				9.38
AB1-2440				9.88
AB1-2442				10.38
AB1-2444				10.88
AB1-2448				11.88
AB1-2452				12.88
AB1-2456				13.88



Ball Bearing Bushings are also available in Demountable: Part Number is ABG instead of AB1.

Ball Bearing Components & Agathon

Ball Bearing Retainers & Series 500 Assemblies



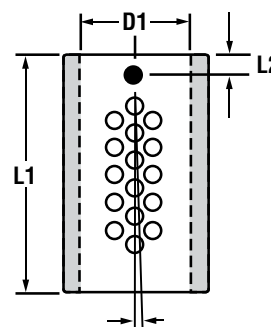
- Made with an optimum number of selected steel ball bearings and a rugged alloy sleeve, these retainers assure accurate die alignment and long life
- The balls are dimensioned for a preload rolling fit and arranged in a helical pattern so each ball has a separate linear path
- A set screw keys the retainer to a slot in the guide pin

Ball Bearing Retainers

DIECO Part #	D1	L1	L2
A13-0606	3/4	1.50	.250
A13-0607		1.75	.250
A13-0608		2.00	.250
A13-0609		2.25	.250
A13-0610		2.50	.250
AR1-0806	1	1.50	.250
AR1-0807		1.75	.250
A13-0808		2.00	.250
A13-0809		2.25	.250
A13-0810		2.50	.250
AR1-1008	1 1/4	2.00	.250
AR1-1009		2.25	.250
A13-1010		2.50	.250
AR1-1011		2.75	.250
A13-1012		3.00	.250
A13-1013		3.25	.250

DIECO Part #	D1	L1	L2
A13-1210	1 1/2	2.50	.250
A13-1211		2.75	.250
A13-1212		3.00	.250
A13-1213		3.25	.250
A13-1214		3.50	.250
A13-1215		3.75	.250
AR1-1411	1 3/4	2.75	.250
AR1-1412		3.00	.250
AR1-1413		3.25	.250
AR1-1414		3.50	.250
AR1-1415		3.75	.250
AR1-1416		4.00	.250
A13-1417		4.25	.250
AR1-1613	2	3.25	.250
AR1-1614		3.50	.250
AR1-1615		3.75	.250
A13-1616		4.00	.250
A13-1617		4.25	.250
A13-1618		4.50	.250
AR1-1622		5.50	.250

DIECO Part #	D1	L1	L2
AR1-2018	2 1/2	4.50	.313
AR1-2020		5.00	.313
AR1-2022		5.50	.313
AR1-2024		6.00	.313
AR1-2025		6.25	.313
AR1-2026		6.50	.313
A13-2028		7.00	.313
AR1-2420	3	5.00	.313
AR1-2424		6.00	.313
A13-2428		7.00	.313



- Series 500 Ball Bearing Assemblies are designed for the pin to be installed in the die shoe
- All components are manufactured to the highest levels of quality and precision
- Bushings are precision ground on both ID and OD to close tolerances
- All assemblies use plain bearing press fit guide pins

PRODUCTO Series 500 Assemblies

DIECO Part #	Nominal Pin Dia.	O.D.	Max Stroke	Bushing #	Bushing Length	Max Stroke	Retainer #	Retainer Length
PD100.1875	1	1.875	2.25	BSH61-00600	3.437	2.25	60-08613	3.25
PD125.2125	1 1/4	2.125	2.75	BSH61-00601	3.937	2.75	60-08612	3.75
PD150.2625	1 1/2	2.625	2.75	BSH61-00602	4.187	2.75	60-08611	4.00



Swiss made precision guide components Metric / Inch

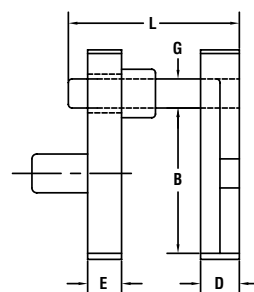
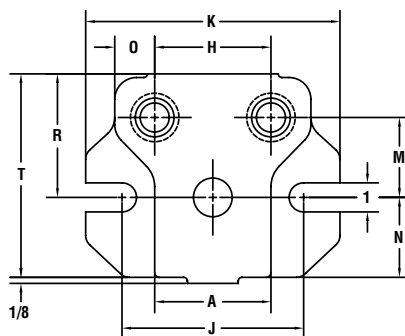
- Bushings
- Pillars
- Ball Cages
- Roller Cages

Full Line Available

ORDERING INFORMATION:

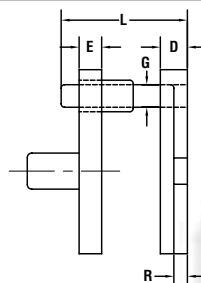
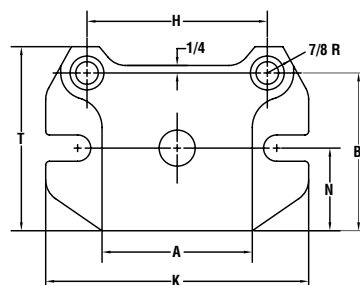
To order specify:

- 1) Catalog Number
- 2) Quantity
- 3) Type of bushings
- 4) Guide pin length
- 5) Shank size or no shank



Rear 2 Pin Die Sets

DIECO Part #	DIE SPACE		THICKNESS		Approx ship weight (lbs.)	GENERAL DIMENSIONS									
	LEFT TO RIGHT	FRONT TO BACK	DIE HOLDER	PUNCH HOLDER											
						A	B	D	E	G	H	J	K	M	N
33-C-11	3.00	3.00	1.12	1.00	23	0.75	3.00	5.50	7.25	1.75	1.62	0.87	2.75	4.37	
43-C-11	4.00	3.00	1.25	1.00	27	1.00	3.00	6.25	8.75	1.75	1.75	1.31	3.19	4.94	
44-C-11	4.00	4.00	1.37	1.25	33	1.00	3.00	6.25	8.75	2.25	2.25	1.37	3.75	6.00	
45-C-11	4.00	5.00	1.37	1.25	35	1.00	4.00	6.25	8.75	2.75	2.25	1.37	4.25	7.00	
46-C-11	4.50	6.00	1.50	1.25	47	1.00	5.50	6.25	9.25	3.25	3.25	1.37	4.75	8.00	
54-C-11	5.00	4.00	1.37	1.25	35	1.00	4.00	7.25	9.75	2.25	2.25	1.37	3.75	6.00	
55-C-11	5.00	5.00	1.50	1.25	43	1.00	4.00	7.25	8.75	2.75	2.75	1.37	4.25	7.00	
64-C-11	6.50	4.50	1.50	1.25	47	1.00	5.50	8.75	11.25	2.37	2.62	1.37	3.87	6.50	
65-C-11	6.50	5.00	1.50	1.25	38	1.00	5.50	8.75	11.25	2.75	2.75	1.37	4.25	7.00	
66-C-11	6.50	6.00	1.50	1.25	59	1.00	5.50	8.75	11.25	3.25	3.25	1.50	4.87	8.12	
75-C-11	7.50	5.00	1.50	1.25	65	1.00	6.50	9.87	12.37	2.75	2.75	1.37	4.25	7.00	
77-C-11	7.50	7.00	1.50	1.25	67	1.00	6.50	9.75	12.25	3.62	3.87	1.37	5.12	9.00	
84-C-11	8.50	4.00	1.50	1.25	58	1.00	7.62	10.75	13.25	2.25	2.25	1.37	3.75	6.00	
88-C-11	8.50	8.00	1.50	1.25	85	1.00	7.62	10.75	13.25	4.25	4.25	1.37	5.75	10.00	
95-C-11	9.50	5.00	1.50	1.25	67	1.00	7.62	11.75	14.25	2.75	2.75	1.37	4.25	7.00	
105-C-11	10.00	5.50	1.50	1.25	75	1.25	8.75	12.25	14.75	3.12	3.00	1.50	4.75	7.75	
1010-C-11	10.00	10.00	1.62	1.37	130	1.25	11.00	12.25	14.75	5.31	5.31	1.62	7.06	12.37	



Foot Press Die Sets

DIECO Part #	DIE SPACE		THICKNESS		Approx ship weight (lbs.)	GENERAL DIMENSIONS									
	LEFT TO RIGHT	FRONT TO BACK	DIE HOLDER	PUNCH HOLDER											
						A	B	D	E	G	H	J	K	M	N
A-33	3.00	3.25	1.00	1.00	18	0.75	4.00		6.75		1.75		0.62	4.12	
A-43	4.00	3.25	1.00	1.00	20	0.75	5.00		7.75		1.75		0.62	4.12	
A-53	5.00	3.25	1.00	1.00	22	0.75	6.00		8.75		1.75		0.62	4.12	
A-44	4.00	4.25	1.00	1.00	22	0.75	5.00		7.75		2.25		0.62	5.12	
A-54	5.00	4.25	1.00	1.00	26	0.75	6.00		8.75		2.25		0.62	5.12	
A-64	6.00	4.25	1.00	1.00	30	0.75	7.00		9.75		2.25		0.62	5.12	
A-65	6.00	5.25	1.00	1.00	34	0.75	7.00		9.75		2.75		0.62	6.12	

- Furnished complete with short straight bushings unless shoulder bushings are specified
- Designed for light stamping work on small power presses

Die Sets

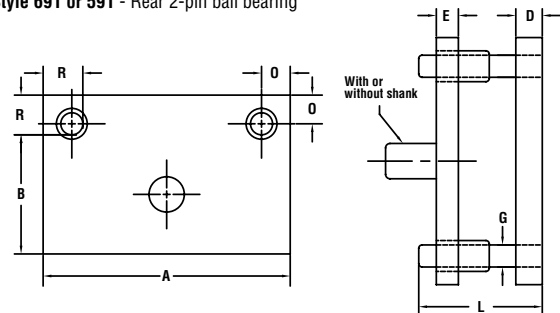
Special Die Sets



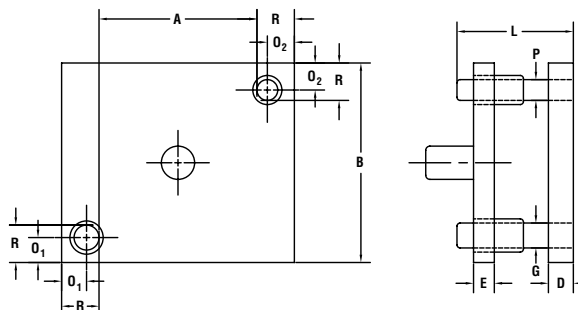
- Many styles and sizes available to meet your die set needs
- Manufactured from A-36 hot rolled steel or aluminum plates
- All plates are stress relieved up to 23" with flame cut edges and ground to clean up unless otherwise specified
- Available with your choice of plain bearing or ball bearing components
- We have the capability to add bolt holes, milled pockets, torch cut burn outs and handling holes, or other machining your application requires (Prints are required for additional machining and must be specified when ordering.)

ORDERING INFORMATION: To order specify: 1) Style of Die Set 2) Quantity 3) Dimensions for A, B, D & E
4) Guide pin diameter and length 5) Type of bushing 6) Shank size or no shank

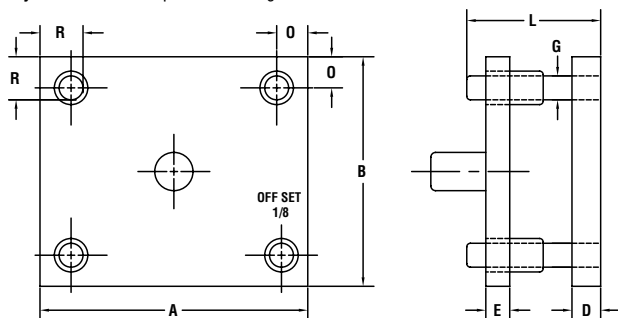
Style 391 - Rear 2-pin plain bearing
Style 691 or 591 - Rear 2-pin ball bearing



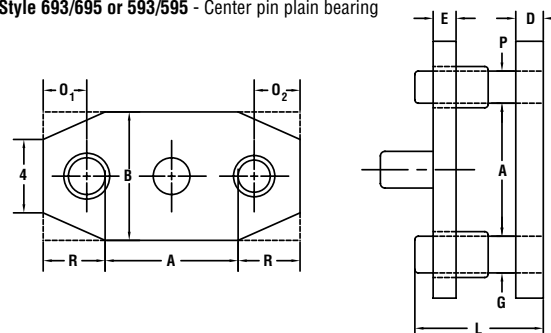
Style 392 - Diagonal plain bearing
Style 692 or 592 - Diagonal pin ball bearing



Style 396 - 4-pin plain bearing
Style 696 or 596 - 4-pin ball bearing



Style 393/395 - Center pin plain bearing
Style 693/695 or 593/595 - Center pin plain bearing



Pin Locations

When G is:	1	1 1/4	1 1/2	1 3/4	2	2 1/2	3
R is:	2	2 1/4	2 1/2	2 3/4	3	3 3/4	4 1/4
O is:	1 1/2	1 5/8	1 3/4	1 7/8	2	2 1/2	2 3/4

Style 391 - Rear 2-pin plain bearing
Style 396 - 4-pin plain bearing

Pin Locations

When G is:	1 1/4	1 1/2	1 3/4	2	2 1/2	3
O1 is:	1 5/8	1 3/4	1 7/8	2	2 1/2	2 3/4
P is:	1	1 1/4	1 1/2	1 3/4	2	2 1/2
O2 is:	1 3/4	1 7/8	2	2 1/8	2 3/4	3
R is:	2 1/4	2 1/2	2 3/4	3	3 3/4	4 1/4

Style 392 - Diagonal plain bearing
Style 393/395 - Center pin plain bearing

Ball Bearing Pin Locations

Style 696 or 596 - 4-pin ball bearing
Style 691 or 591 - Rear 2-pin ball bearing
Style 692 or 592 - Diagonal pin ball bearing
Style 693/695 or 593/595 - Center pin ball bearing

Custom Plates
Available per your specifications in steel or aluminum

Ball Bearing Series 500

When G is:	1	1 1/4	1 1/2	1 3/4	2	2 1/2
O is	1 11/16	1 13/16	2 1/6	2 3/16	2 9/16	2 15/16
R* is	2 5/8	2 7/8	3 3/8	3 5/8	4 1/8	4 13/16

Ball Bearing Series 600

When G is:	1	1 1/4	1 1/2	1 3/4	2	2 1/2
O is	1 1/2	1 13/16	2	2 1/8	2 7/16	2 5/8
R* is	2 3/8	2 7/8	3 1/4	3 1/2	4	4 1/2

* R Dimension is to the outside edge of the bushing diameter

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