



IMPEX
INDUSTRIAL CORPORATION

EST. 1971 · MUMBAI, INDIA

Product Catalogue

Circlips · Dowel Pins · Washers · Fasteners · Specialty Components

High-precision machine components, engineered for performance. Full dimensional specifications across 500+ sizes, ex-stock Mumbai.

2026 Edition

impexindustrialcorporation.com

500+ sizes · Ex-stock

Five decades of precision components

Since 1971, Impex Industrial Corporation has supplied high-precision retaining rings, pins, washers, keys and fasteners to manufacturers, OEMs and maintenance teams across India. We hold deep, ex-stock ranges to international standards — so the exact size you need ships without the wait.

500+ sizes, ex-stock

Broad, immediately available inventory across every category in this catalogue — from Ø3 circlips to 300 mm rings.

Standards-true

Manufactured and inspected to DIN, IS and ISO specifications, with full dimensional data published for every part.

Material choice

Spring steel, EN-series, HSS and stainless 304/316 options to suit load, corrosion and temperature requirements.

Quote to your need

Pricing is tailored to your size and quantity, with volume discounts. Send an enquiry and we respond within 24 hours.

Standards we work to

- DIN 471
- DIN 472
- DIN 6799
- DIN 1481
- DIN 94
- DIN 137
- DIN 2093
- DIN 6885
- IS 3075
- IS 2048
- IS 6669
- ISO 8734
- ISO 10243

What’s inside

01 Circlips4

5 Ext. Circlips	DIN-471 / IS-3075	8 Int. Circlips	DIN-472 / IS-3075
11 E Clips	DIN-6799	12 SS 304 Grade	Circlips & E-Clips

02 Dowel Pins17

18 Spring Dowel Pins	DIN-1481	19 Dowel & Taper	Metric Sizes
21 Dowel & Taper	Inch Sizes		

03 Washers22

23 Wave Washers	Ball Bearings	24 Disc Springs	DIN-2093 Type A
25 Wave Washers	DIN-137		

04 Fasteners26

27 Parallel Keys	Metric — IS-2048	28 Parallel Keys	Inch Sizes
29 KM Nuts & MB Washers		31 Cotter Pins	MS — DIN 94
32 Cotter Pins	SS 304/316 — DIN 94		

05 Specialty33

34 Ejector Pins		35 HSS Punches	
36 Ball Plungers	Spring Type	37 Ratchet Handles	Zinc Die-Cast
38 Blue Rod	Steel Wire 4½" · ±0.2mm	39 Die Springs	Colour-Coded Load

01

SECTION 01

Circlips

Retaining rings and clips that axially locate bearings, gears and pulleys — external for shafts, internal for bores, plus e-clips and stainless grades.



Ext. Circlips

DIN-471 / IS-3075

External retaining rings for shafts (DIN 471). Seat in a shaft groove to axially locate bearings, gears and pulleys.

78 sizes · pricing on request

Shaft Ø d ₁ (mm)	Thickness s (mm)	Ring I.D. d ₂ (mm)	Groove Ø d ₃ (mm)	Groove width m (mm)	Groove depth t (mm)
4	0.4	3.7	3.8	0.5	0.1
5	0.6	4.7	4.8	0.7	0.1
6	0.7	5.6	5.7	0.8	0.15
7	0.8	6.5	6.7	0.9	0.15
8	0.8	7.4	7.6	0.9	0.2
9	1	8.4	8.6	1.1	0.2
10	1	9.3	9.6	1.1	0.2
11	1	10.2	10.5	1.1	0.25
12	1	11	11.5	1.1	0.25
13	1	11.9	12.4	1.1	0.3
14	1	12.9	13.4	1.1	0.3
15	1	13.8	14.3	1.1	0.35
16	1	14.7	15.2	1.1	0.4
17	1	15.7	16.2	1.1	0.4
18	1.2	16.5	17	1.3	0.5
19	1.2	17.5	18	1.3	0.5
20	1.2	18.5	19	1.3	0.5
21	1.2	19.5	20	1.3	0.5
22	1.2	20.5	21	1.3	0.5
24	1.2	22.2	22.9	1.3	0.55
25	1.2	23.2	23.9	1.3	0.55
26	1.2	24.2	24.9	1.3	0.55
28	1.5	25.9	26.6	1.6	0.7
30	1.5	27.9	28.6	1.6	0.7
32	1.5	29.6	30.3	1.6	0.85
34	1.5	31.4	32.3	1.6	0.85
35	1.5	32.2	33	1.6	1
36	1.75	33.2	34	1.85	1
38	1.75	35.2	36	1.85	1
40	1.75	36.5	37.5	1.85	1.25

Shaft Ø d ₁ (mm)	Thickness s (mm)	Ring I.D. d ₂ (mm)	Groove Ø d ₂ (mm)	Groove width m (mm)	Groove depth t (mm)
42	1.75	38.5	39.5	1.85	1.25
45	1.75	41.5	42.5	1.85	1.25
47	1.75	43.5	44.5	1.85	1.25
48	1.75	44.5	45.5	1.85	1.25
50	2	45.8	47	2.15	1.5
52	2	47.8	49	2.15	1.5
55	2	50.8	52	2.15	1.5
58	2	53.8	55	2.15	1.5
60	2	55.8	57	2.15	1.5
62	2	57.8	59	2.15	1.5
65	2.5	60.8	62	2.65	1.5
68	2.5	63.5	65	2.65	1.5
70	2.5	65.5	67	2.65	1.5
72	2.5	67.5	69	2.65	1.5
75	2.5	70.5	72	2.65	1.5
78	2.5	73.5	75	2.65	1.5
80	2.5	74.5	76.5	2.65	1.75
82	2.5	76.5	78.5	2.65	1.75
85	3	79.5	81.5	3.15	1.75
90	3	84.5	86.5	3.15	1.75
95	3	89.5	91.5	3.15	1.75
100	3	94.5	96.5	3.15	1.75
105	4	98	101	4.15	2
110	4	103	106	4.15	2
115	4	108	111	4.15	2
120	4	113	116	4.15	2
125	4	118	121	4.15	2
130	4	123	126	4.15	2
135	4	128	131	4.15	2
140	4	134	136	4.15	2
145	4	138	141	4.15	2
150	4	142	145	4.15	2.5
160	4	151	155	4.15	2.5
170	4	160	165	4.15	2.5
180	4	170	175	4.15	2.5
190	4	180.5	185	4.15	2.5

Shaft Ø d ₁ (mm)	Thickness s (mm)	Ring I.D. d ₂ (mm)	Groove Ø d ₂ (mm)	Groove width m (mm)	Groove depth t (mm)
200	4	190.5	195	4.15	2.5
205	5	193	199	5.15	3
210	5	198	204	5.15	3
220	5	208	214	5.15	3
230	5	218	224	5.15	3
240	5	228	234	5.15	3
250	5	238	244	5.15	3
260	5	245	252	5.15	4
270	5	255	262	5.15	4
280	5	265	272	5.15	4
290	5	275	282	5.15	4
300	5	285	292	5.15	4



Int. Circlips

DIN-472 / IS-3075

Internal retaining rings for bores (DIN 472). Seat in a housing groove to retain components inside a bore.

73 sizes · pricing on request

Bore Ø d ₁ (mm)	Thickness s (mm)	Ring O.D. d ₂ (mm)	Groove Ø d ₂ (mm)	Groove width m (mm)	Groove depth t (mm)
8	0.8	8.7	8.4	0.9	0.2
9	0.8	9.8	9.4	0.9	0.2
10	1	10.8	10.4	1.1	0.2
11	1	11.8	11.4	1.1	0.2
12	1	13	12.5	1.1	0.25
13	1	14.1	13.6	1.1	0.3
14	1	15.1	14.6	1.1	0.3
15	1	16.2	15.7	1.1	0.35
16	1	17.3	16.8	1.1	0.4
17	1	18.3	17.8	1.1	0.4
18	1	19.5	19	1.1	0.5
19	1	20.5	20	1.1	0.5
20	1	21.5	21	1.1	0.5
21	1	22.5	22	1.1	0.5
22	1	23.5	23	1.1	0.5
24	1.2	25.9	25.2	1.3	0.6
25	1.2	26.9	26.2	1.3	0.6
26	1.2	27.9	27.2	1.3	0.6
28	1.2	30.1	29.4	1.3	0.7
30	1.2	32.1	31.4	1.3	0.7
32	1.2	34.4	33.7	1.3	0.85
34	1.5	36.5	35.7	1.6	0.85
35	1.5	37.8	37	1.6	1
36	1.5	38.8	38	1.6	1
38	1.5	40.8	40	1.6	1
40	1.75	43.5	42.5	1.85	1.25
42	1.75	45.5	44.5	1.85	1.25
45	1.75	48.5	47.5	1.85	1.25
47	1.75	50.5	49.5	1.85	1.25
48	1.75	51.5	50.5	1.85	1.25

Bore Ø d ₁ (mm)	Thickness s (mm)	Ring O.D. d ₂ (mm)	Groove Ø d ₂ (mm)	Groove width m (mm)	Groove depth t (mm)
50	2	54.2	53	2.15	1.5
52	2	56.2	55	2.15	1.5
55	2	59.2	58	2.15	1.5
58	2	62.2	61	2.15	1.5
60	2	64.2	63	2.15	1.5
62	2	66.2	65	2.15	1.5
65	2.5	69.2	68	2.65	1.5
68	2.5	72.5	71	2.65	1.5
70	2.5	74.5	73	2.65	1.5
72	2.5	76.5	75	2.65	1.5
75	2.5	79.5	78	2.65	1.5
78	2.5	82.5	81	2.65	1.5
80	2.5	85.5	83.5	2.65	1.75
82	2.5	87.5	85.5	2.65	1.75
85	3	90.5	88.5	3.15	1.75
90	3	95.5	93.5	3.15	1.75
95	3	100.5	98.5	3.15	1.75
100	3	105.5	103.5	3.15	1.75
105	4	112.5	109	4.15	2
110	4	117	114	4.15	2
115	4	122	119	4.15	2
120	4	127	124	4.15	2
125	4	132	129	4.15	2
130	4	137	134	4.15	2
135	4	142	139	4.15	2
140	4	147	144	4.15	2
145	4	152	149	4.15	2
150	4	158	155	4.15	2.5
160	4	169	165	4.15	2.5
170	4	179	175	4.15	2.5
180	4	189	185	4.15	2.5
190	4	199	195	4.15	2.5
200	4	209.5	205	4.15	2.5
210	5	222	216	5.15	3
220	5	232	226	5.15	3
230	5	242	236	5.15	3

Bore Ø d ₁ (mm)	Thickness s (mm)	Ring O.D. d ₂ (mm)	Groove Ø d ₂ (mm)	Groove width m (mm)	Groove depth t (mm)
240	5	252	246	5.15	3
250	5	262	256	5.15	3
260	5	275	268	5.15	4
270	5	285	278	5.15	4
280	5	295	288	5.15	4
290	5	305	298	5.15	4
300	5	315	308	5.15	4



E Clips

DIN-6799

E-style retaining clips (DIN 6799) that push onto a shaft groove from the side for fast axial location.

17 sizes · pricing on request

Nom Dia	Ext Dia	(H10)	Thickness	Shaft From	Shaft To	Groove Dia
0.8	2	0.58	0.2	1	1.4	0.8
1.2	3	1.01	0.3	1.4	2	1.2
1.5	4	1.28	0.4	2	2.5	1.5
1.9	4.5	1.61	0.5	2.5	3	1.9
2.3	6	1.94	0.6	3	4	2.3
3.2	7	2.7	0.6	4	5	3.2
4	9	3.34	0.7	5	7	4
5	11	4.11	0.7	6	8	5
6	12	5.26	0.7	7	9	6
7	14	5.84	0.9	8	11	7
8	16	6.52	1	9	12	8
9	18.5	7.63	1.1	10	14	9
10	20	8.32	1.2	11	15	10
12	23	10.45	1.3	13	18	12
15	29	12.61	1.5	16	24	15
19	37	15.92	1.75	20	31	19
24	44	21.88	2	25	38	24



SS 304 Grade

Circlips & E-Clips

Stainless-steel 304 circlips and e-clips for corrosion resistance — dimensionally to DIN 471 / 472 / 6799.

SS 304 EXTERNAL CIRCLIP — DIN 471 DIMENSIONS

41 sizes · pricing on request

Shaft Ø d ₁ (mm)	Thickness s (mm)	Ring I.D. d ₂ (mm)	Groove Ø d ₃ (mm)	Groove width m (mm)	Groove depth t (mm)
4	0.4	3.7	3.8	0.5	0.1
5	0.6	4.7	4.8	0.7	0.1
6	0.7	5.6	5.7	0.8	0.15
8	0.8	7.4	7.6	0.9	0.2
9	1	8.4	8.6	1.1	0.2
10	1	9.3	9.6	1.1	0.2
11	1	10.2	10.5	1.1	0.25
12	1	11	11.5	1.1	0.25
13	1	11.9	12.4	1.1	0.3
14	1	12.9	13.4	1.1	0.3
15	1	13.8	14.3	1.1	0.35
16	1	14.7	15.2	1.1	0.4
17	1	15.7	16.2	1.1	0.4
18	1.2	16.5	17	1.3	0.5
19	1.2	17.5	18	1.3	0.5
20	1.2	18.5	19	1.3	0.5
22	1.2	20.5	21	1.3	0.5
24	1.2	22.2	22.9	1.3	0.55
25	1.2	23.2	23.9	1.3	0.55
26	1.2	24.2	24.9	1.3	0.55
28	1.5	25.9	26.6	1.6	0.7
30	1.5	27.9	28.6	1.6	0.7
32	1.5	29.6	30.3	1.6	0.85
35	1.5	32.2	33	1.6	1
36	1.75	33.2	34	1.85	1
38	1.75	35.2	36	1.85	1
40	1.75	36.5	37.5	1.85	1.25
42	1.75	38.5	39.5	1.85	1.25
45	1.75	41.5	42.5	1.85	1.25

Shaft Ø d ₁ (mm)	Thickness s (mm)	Ring I.D. d ₂ (mm)	Groove Ø d ₂ (mm)	Groove width m (mm)	Groove depth t (mm)
47	1.75	43.5	44.5	1.85	1.25
50	2	45.8	47	2.15	1.5
52	2	47.8	49	2.15	1.5
55	2	50.8	52	2.15	1.5
60	2	55.8	57	2.15	1.5
65	2.5	60.8	62	2.65	1.5
70	2.5	65.5	67	2.65	1.5
75	2.5	70.5	72	2.65	1.5
80	2.5	74.5	76.5	2.65	1.75
85	3	79.5	81.5	3.15	1.75
90	3	84.5	86.5	3.15	1.75
100	3	94.5	96.5	3.15	1.75

SS 304 INTERNAL CIRCLIP — DIN 472 DIMENSIONS

39 sizes · pricing on request

Bore Ø d ₁ (mm)	Thickness s (mm)	Ring O.D. d ₂ (mm)	Groove Ø d ₂ (mm)	Groove width m (mm)	Groove depth t (mm)
10	1	10.8	10.4	1.1	0.2
11	1	11.8	11.4	1.1	0.2
12	1	13	12.5	1.1	0.25
14	1	15.1	14.6	1.1	0.3
15	1	16.2	15.7	1.1	0.35
16	1	17.3	16.8	1.1	0.4
17	1	18.3	17.8	1.1	0.4
18	1	19.5	19	1.1	0.5
19	1	20.5	20	1.1	0.5
20	1	21.5	21	1.1	0.5
22	1	23.5	23	1.1	0.5
24	1.2	25.9	25.2	1.3	0.6
25	1.2	26.9	26.2	1.3	0.6
26	1.2	27.9	27.2	1.3	0.6
28	1.2	30.1	29.4	1.3	0.7
30	1.2	32.1	31.4	1.3	0.7
32	1.2	34.4	33.7	1.3	0.85
35	1.5	37.8	37	1.6	1
36	1.5	38.8	38	1.6	1
38	1.5	40.8	40	1.6	1
40	1.75	43.5	42.5	1.85	1.25
42	1.75	45.5	44.5	1.85	1.25
45	1.75	48.5	47.5	1.85	1.25
47	1.75	50.5	49.5	1.85	1.25
50	2	54.2	53	2.15	1.5
52	2	56.2	55	2.15	1.5
55	2	59.2	58	2.15	1.5
60	2	64.2	63	2.15	1.5
62	2	66.2	65	2.15	1.5
65	2.5	69.2	68	2.65	1.5
70	2.5	74.5	73	2.65	1.5
72	2.5	76.5	75	2.65	1.5
75	2.5	79.5	78	2.65	1.5
80	2.5	85.5	83.5	2.65	1.75

Bore Ø d ₁ (mm)	Thickness s (mm)	Ring O.D. d ₂ (mm)	Groove Ø d ₂ (mm)	Groove width m (mm)	Groove depth t (mm)
82	2.5	87.5	85.5	2.65	1.75
85	3	90.5	88.5	3.15	1.75
90	3	95.5	93.5	3.15	1.75
100	3	105.5	103.5	3.15	1.75
110	4	117	114	4.15	2

SS 304 E-CLIP — DIN 6799 DIMENSIONS

14 sizes · pricing on request

Nom Dia	Ext Dia	(H10)	Thickness	Shaft From	Shaft To	Groove Dia
1.5	4	1.28	0.4	2	2.5	1.5
1.9	4.5	1.61	0.5	2.5	3	1.9
2.3	6	1.94	0.6	3	4	2.3
3.2	7	2.7	0.6	4	5	3.2
4	9	3.34	0.7	5	7	4
5	11	4.11	0.7	6	8	5
6	12	5.26	0.7	7	9	6
7	14	5.84	0.9	8	11	7
8	16	6.52	1	9	12	8
9	18.5	7.63	1.1	10	14	9
10	20	8.32	1.2	11	15	10
12	23	10.45	1.3	13	18	12
15	29	12.61	1.5	16	24	15
19	37	15.92	1.75	20	31	19

02

SECTION 02

Dowel Pins

Location and alignment pins — spring, solid and taper — for precise, repeatable assembly and torque-free positioning.



Spring Dowel Pins

DIN-1481

Slotted spring dowel pins (DIN 1481) that compress on insertion for a secure, vibration-resistant press fit.

18 sizes · pricing on request

Length	1.5 mm	2 mm	3 mm	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
12 mm	✓	✓	✓	✓	✓	✓	✓	✓	✓
15 mm	✓	✓	✓	✓	✓	✓	✓	✓	✓
20 mm	✓	✓	✓	✓	✓	✓	✓	✓	✓
25 mm	✓	✓	✓	✓	✓	✓	✓	✓	✓
30 mm	✓	✓	✓	✓	✓	✓	✓	✓	✓
32 mm	✓	✓	✓	✓	✓	✓	✓	✓	✓
35 mm	✓	✓	✓	✓	✓	✓	✓	✓	✓
40 mm	✓	✓	✓	✓	✓	✓	✓	✓	✓
45 mm	✓	✓	✓	✓	✓	✓	✓	✓	✓
50 mm	✓	✓	✓	✓	✓	✓	✓	✓	✓
55 mm	—	—	✓	✓	✓	✓	✓	✓	✓
60 mm	—	—	—	✓	✓	✓	✓	✓	✓
65 mm	—	—	—	—	✓	✓	✓	✓	✓
70 mm	—	—	—	—	✓	✓	✓	✓	✓
75 mm	—	—	—	—	✓	✓	✓	✓	✓
80 mm	—	—	—	—	✓	✓	✓	✓	✓
90 mm	—	—	—	—	✓	✓	✓	✓	✓
100 mm	—	—	—	—	✓	✓	✓	✓	✓



Dowel & Taper

Metric Sizes

Hardened dowel pins (IS 6669) and soft taper pins (DIN 1) for precise location and alignment — metric.

Every size below is offered as both a hardened **dowel pin** (IS 6669) and a soft **taper pin** (DIN 1). Sizes are Ø × length.

METRIC SIZES

130 sizes · pricing on request

Size (mm)	Size (mm)	Size (mm)
2×10	5×45	10×25
2×12	5×50	10×30
2.5×15	5×55	10×35
2.5×20	5×60	10×40
2.5×25	5×65	10×45
2.5×30	5×70	10×50
3×8	5×75	10×55
3×10	5×80	10×60
3×12	6×12	10×65
3×14	6×16	10×70
3×16	6×18	10×75
3×18	6×20	10×80
3×20	6×25	10×90
3×25	6×30	10×100
3×30	6×35	12×25
3×35	6×40	12×30
3×40	6×45	12×35
3×45	6×50	12×40
3×50	6×55	12×45
4×8	6×60	12×50
4×10	6×65	12×55
4×12	6×70	12×60
4×16	6×75	12×65
4×18	6×80	12×70
4×20	6×90	12×75
4×25	6×100	12×80
4×30	8×16	12×90
4×35	8×18	12×100

Size (mm)
4×40
4×45
4×50
4×55
4×60
4×65
4×70
5×12
5×14
5×16
5×18
5×20
5×25
5×30
5×35
5×40

Size (mm)
8×20
8×25
8×30
8×35
8×40
8×45
8×50
8×55
8×60
8×65
8×70
8×75
8×80
8×90
8×100
10×20

Size (mm)
16×25
16×30
16×35
16×40
16×45
16×50
16×55
16×60
16×65
16×70
16×75
16×80
16×90
16×100



Dowel & Taper

Inch Sizes

Hardened dowel pins and soft taper pins for location and alignment — inch / fractional sizes.

Every size below is offered as both a hardened **dowel pin** (IS 6669) and a soft **taper pin** (DIN 1). Sizes are Ø × length.

INCH / FRACTIONAL SIZES

76 sizes · pricing on request

Size	Size	Size
3/32 × 3/8	1/4 × 1/2	3/8 × 2
3/32 × 1/2	1/4 × 3/4	3/8 × 2-1/4
3/32 × 3/4	1/4 × 1	3/8 × 2-1/2
3/32 × 1	1/4 × 1-1/4	3/8 × 3
3/32 × 1-1/2	1/4 × 1-1/2	3/8 × 3-1/2
1/8 × 1/2	1/4 × 1-3/4	3/8 × 4
1/8 × 3/4	1/4 × 2	1/2 × 1
1/8 × 1	1/4 × 2-1/4	1/2 × 1-1/4
1/8 × 1-1/2	1/4 × 2-1/2	1/2 × 1-1/2
1/8 × 2	1/4 × 3	1/2 × 1-3/4
5/32 × 1/2	5/16 × 3/4	1/2 × 2
5/32 × 3/4	5/16 × 1	1/2 × 2-1/4
5/32 × 1	5/16 × 1-1/4	1/2 × 2-1/2
5/32 × 1-1/2	5/16 × 1-1/2	1/2 × 3
5/32 × 2	5/16 × 1-3/4	1/2 × 3-1/2
3/16 × 1/2	5/16 × 2	1/2 × 4
3/16 × 3/4	5/16 × 2-1/4	5/8 × 1-1/2
3/16 × 1	5/16 × 2-1/2	5/8 × 1-3/4
3/16 × 1-1/4	5/16 × 2-3/4	5/8 × 2
3/16 × 1-1/2	5/16 × 3	5/8 × 2-1/4
3/16 × 1-3/4	5/16 × 3-1/2	5/8 × 2-1/2
3/16 × 2	5/16 × 4	5/8 × 3
3/16 × 2-1/4	3/8 × 1	5/8 × 3-1/2
3/16 × 2-1/2	3/8 × 1-1/4	5/8 × 4
3/16 × 2-3/4	3/8 × 1-1/2	
3/16 × 3	3/8 × 1-3/4	

03

SECTION 03

Washers

Wave, disc and spring washers that preload bearings, take up axial play and maintain tension under load.



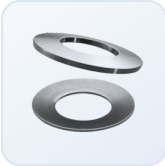
Wave Washers

Ball Bearings

Wave washers matched to standard ball-bearing seats to preload bearings and remove axial play.

15 sizes · pricing on request

Aubar (mm)	Bearing No.	O.D. (mm)	I.D. (mm)	Thickness S
26	6000	25.5	21	0.3
32	6002 / 6201	31.5	25.5	0.3
35	6300 / 6003 / 6202	34	28	0.4
37	6301	35.1	30.1	0.4
40	6203	39.5	34	0.4
42	6302 / 6004	41	34	0.4
47	6303 / 6005 / 6204	46.5	39.5	0.4
52	6304 / 6205	51	41	0.5
55	6006	53.4	44.4	0.5
62	6305 / 6007 / 6206	61	51	0.5
72	6306 / 6207	71	61	0.5
80	6307 / 6010 / 6208	79	71	0.6
85	6209	84.1	73.7	0.6
90	6308 / 6011 / 6210	89	79	0.6
100	6309 / 6013 / 6211	99	89	0.6



Disc Springs

DIN-2093 Type A

Belleville disc springs (DIN 2093 Type A) delivering high spring force in a compact stack.

22 sizes · pricing on request

Nom. Bolt	I.D. (mm)	O.D. (mm)	Thickness (mm)	Height (mm)
4 mm	4.2	8	0.4	0.6
5 mm	5.2	10	0.5	0.75
6 mm	6.2	12.5	0.7	1
7 mm	7.2	14	0.8	1.1
8 mm	8.2	16	0.9	1.25
9 mm	9.2	18	1	1.4
10 mm	10.2	20	1.1	1.55
11 mm	11.2	22.5	1.25	1.75
12 mm	12.2	25	1.5	2.05
14 mm	14.2	28	1.5	2.15
16 mm	16.3	31.5	1.75	2.45
18 mm	18.3	35.5	2	2.8
20 mm	20.4	40	2.25	3.15
22 mm	22.4	45	2.5	3.5
25 mm	25.4	50	3	4.1
28 mm	28.5	56	3	4.3
30 mm	31	63	3.5	4.9
35 mm	36	71	4	5.6
40 mm	41	80	5	6.7
45 mm	46	90	5	7
50 mm	51	100	6	8.2
55 mm	57	112	6	8.5



Wave Washers

DIN-137

Curved / wave spring washers (DIN 137 Type A & B) for light axial preload and rattle-free assembly.

TYPE A

7 sizes · pricing on request

Nom Size (mm)	D H14	D J16	H1 Min	H1 Max	Thickness	S1 Tol
2	2.2	4.5	0.5	1	0.3	0.03
3	3.2	6	0.55	1.3	0.4	—
4	4.3	8	0.6	1.6	—	—
5	5.3	10	1	2	—	—
6	6.4	11	1.1	2.2	—	—
8	8.4	15	1.7	3.4	0.8	0.06
10	10.5	18	2	4	—	—

TYPE B

13 sizes · pricing on request

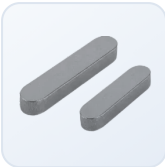
Nom Size (mm)	D H14	D J16	S1 Min	S1 Max	Thickness	S1 Tol
4	4.3	9	0.5	1.6	—	—
5	5.3	11	1.2	2.4	—	—
6	6.4	12	1.3	2.6	—	—
8	8.4	17	1.7	3.4	0.8	0.06
10	10.5	21	2.1	4.2	1	0.07
12	—	24	2.5	5	1.2	—
16	—	30	3.1	6.2	1.5	—
20	—	36	3.7	7.4	1.6	—
24	—	44	4.1	8.2	1.8	0.1
30	—	56	5	10	2.2	—
36	—	68	5.8	11.6	2.5	—
42	—	78	6.8	13.6	3	0.2
48	—	92	7.8	15.6	3.5	—

04

SECTION 04

Fasteners

Keys, locknuts, lockwashers and cotter pins that transmit torque and lock assemblies securely in place.



Parallel Keys

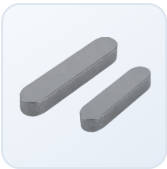
Metric — IS-2048

Parallel keys (IS 2048, EN-8 steel) transmitting torque between shaft and hub — metric.

METRIC SIZES — EN-8 STEEL

82 sizes · pricing on request

Size (mm)	Size (mm)	Size (mm)
3×3×300	16×14×300	28×18×300
4×4×300	16×16×300	28×20×300
5×5×300	18×10×300	28×28×300
6×3×300	18×11×300	30×30×300
6×4×300	18×12×300	32×18×300
6×5×300	18×14×300	32×20×300
6×6×300	18×16×300	32×22×300
8×4×300	18×18×300	32×32×300
8×5×300	20×10×300	36×20×300
8×6×300	20×12×300	36×22×300
8×7×300	20×14×300	36×25×300
8×8×300	20×16×300	36×28×300
10×6×300	20×18×300	36×36×300
10×8×300	20×20×300	40×22×300
10×10×300	22×12×300	40×28×300
12×6×300	22×14×300	40×40×300
12×8×300	22×16×300	45×25×300
12×10×300	22×18×300	45×28×300
12×12×300	22×20×300	45×45×300
14×6×300	22×22×300	50×28×300
14×8×300	24×24×300	50×50×300
14×9×300	25×12×300	56×32×300
14×10×300	25×14×300	63×32×300
14×12×300	25×16×300	70×36×300
14×14×300	25×18×300	80×40×300
16×8×300	25×20×300	100×50×300
16×10×300	25×25×300	
16×12×300	28×16×300	



Parallel Keys

Inch Sizes

Parallel keys transmitting torque between shaft and hub — inch sizes.

INCH SIZES

8 sizes · pricing on request

Size
1/8 × 1/8 × 300
3/16 × 3/16 × 300
1/4 × 1/4 × 300
5/16 × 5/16 × 300
3/8 × 3/8 × 300
1/2 × 1/2 × 300
5/8 × 5/8 × 300
3/4 × 3/4 × 300



KM Nuts & MB Washers

KM locknuts, MB lockwashers and felt seals to locate and lock bearings on shafts.

KM LOCKNUTS

56 sizes · pricing on request

Size	Size	Size
KM 0	KM 19	KM 42
KM 1	KM 20	HM 44
KM 2	KM 21	HM 46
KM 3	KM 22	HM 48
KM 4	KM 23	HM 50
KM 5	KM 24	HM 52
KM 6	KM 25	HM 54
KM 7	KM 26	HM 56
KM 8	KM 27	HM 58
KM 9	KM 28	HM 60
KM 10	KM 29	HM 62
KM 11	KM 30	HM 64
KM 12	KM 31	HM 66
KM 13	KM 32	HM 68
KM 14	KM 33	HM 70
KM 15	KM 34	HM 72
KM 16	KM 36	HM 74
KM 17	KM 38	HM 76
KM 18	KM 40	

MB LOCKWASHERS

48 sizes · pricing on request

Size	Size	Size
MB 0	MB 16	MB 32
MB 1	MB 17	MB 33
MB 2	MB 18	MB 34
MB 3	MB 19	MB 36
MB 4	MB 20	MB 38
MB 5	MB 21	MB 40

Size	Size	Size
MB 6	MB 22	MB 42
MB 7	MB 23	MB 44
MB 8	MB 24	MB 46
MB 9	MB 25	MB 48
MB 10	MB 26	MB 52
MB 11	MB 27	MB 56
MB 12	MB 28	MB 60
MB 13	MB 29	MB 64
MB 14	MB 30	MB 68
MB 15	MB 31	MB 72

FELT SEALS

7 sizes · pricing on request

Size
FS 190
FS 260
FS 330
FS 370
FS 460
FS 510
FS 680



Cotter Pins

MS — DIN 94

Mild-steel split cotter pins (DIN 94) for securing clevis and castle-nut assemblies.

MS COTTER PIN

15 sizes · pricing on request

Length	1/16"	5/64"	3/32"	1/8"	5/32"	3/16"	7/32"	1/4"	5/16"	3/8"	1/2"
1/2"	✓	✓	✓	✓	—	—	—	—	—	—	—
3/4"	✓	✓	✓	✓	✓	—	—	—	—	—	—
1"	✓	✓	✓	✓	✓	✓	—	✓	—	—	—
1¼"	✓	✓	✓	✓	✓	✓	—	✓	—	—	—
1½"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	—
1¾"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	—
2"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2¼" & 2½"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2¾" & 3"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3¼" & 3½"	—	—	—	✓	✓	✓	✓	✓	✓	✓	✓
4"	—	—	—	✓	✓	✓	✓	✓	✓	✓	✓
4½"	—	—	—	✓	✓	✓	✓	✓	✓	✓	✓
5"	—	—	—	✓	✓	✓	✓	✓	✓	✓	✓
5½"	—	—	—	—	—	✓	✓	✓	✓	✓	✓
6"	—	—	—	—	—	✓	✓	✓	✓	✓	✓



Cotter Pins

SS 304/316 — DIN 94

Stainless 304 / 316 split cotter pins (DIN 94) for corrosion-resistant securing.

SS 304/316 COTTER PIN

15 sizes · pricing on request

Length	1/16"	5/64"	3/32"	1/8"	5/32"	3/16"	7/32"	1/4"	5/16"	3/8"	1/2"
1/2"	✓	✓	✓	✓	—	—	—	—	—	—	—
3/4"	✓	✓	✓	✓	✓	—	—	—	—	—	—
1"	✓	✓	✓	✓	✓	✓	—	✓	—	—	—
1¼"	✓	✓	✓	✓	✓	✓	—	✓	—	—	—
1½"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	—
1¾"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	—
2"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2¼" & 2½"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2¾" & 3"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3¼" & 3½"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4½"	—	—	—	—	✓	✓	✓	✓	✓	✓	✓
5"	—	—	—	—	✓	✓	✓	✓	✓	✓	✓
5½"	—	—	—	—	—	✓	—	✓	✓	✓	✓
6"	—	—	—	—	—	✓	—	✓	✓	✓	✓

05

SECTION 05

Specialty

Tooling and specials — ejector pins, HSS punches, ball plungers, ratchet handles, spring wire and colour-coded die springs.



Ejector Pins

Precision ejector pins for injection moulds and press dies — hardened and ground to length.

19 sizes · pricing on request

Dia	H × T	L=100	L=130	L=160	L=200	L=250	L=300	L=350	L=400	L=450	L=500	L=550/600	L=650/700	L=800	L=1000
1	2.5×1.2	✓	✓	✓	✓	✓	✓	—	—	—	—	—	—	—	—
1.5	3×1.5	✓	✓	✓	✓	✓	✓	—	—	—	—	—	—	—	—
2	4×2	✓	✓	✓	✓	✓	✓	✓	✓	—	—	—	—	—	—
2.5	5×2	✓	✓	✓	✓	✓	✓	✓	✓	—	—	—	—	—	—
3	6×3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	—
3.5	7×3	✓	✓	✓	✓	✓	✓	—	—	—	—	—	—	—	—
4	8×3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	—
4.5	8×3	✓	✓	✓	✓	✓	✓	—	—	—	—	—	—	—	—
5	10×3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	—
5.5	10×3	✓	✓	✓	✓	✓	✓	—	—	—	—	—	—	—	—
6	12×5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	—
8	14×5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
10	16×5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
12	18×7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
14	22×7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	—	—	—	—
16	22×7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
18	24×7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	—	—	—	—
20	26×8	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
25	32×10	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	—



HSS Punches

HSS punches (M2 / M35) for press tools, blanking and piercing dies.

27 sizes · pricing on request

Diameter	L=50 mm	L=70 mm	L=80 mm	L=100 mm
0.6	✓	✓	—	—
0.7	✓	✓	—	—
0.8	✓	✓	—	—
0.9	✓	✓	—	—
1.0–2.5	✓	✓	✓	✓
2.6–2.9	✓	✓	✓	✓
3.0–3.4	✓	✓	✓	✓
3.5–3.9	✓	✓	✓	✓
4.0–4.4	✓	✓	✓	✓
4.5–4.9	✓	✓	✓	✓
5.0–5.4	✓	✓	✓	✓
5.5–5.9	✓	✓	✓	✓
6.0–6.4	✓	✓	✓	✓
6.5–7.4	✓	✓	✓	✓
7.5–8.4	✓	✓	✓	✓
8.5–9.4	✓	✓	✓	✓
9.5–10.4	✓	✓	✓	✓
10.5–11.4	✓	✓	✓	✓
11.5–12.4	✓	✓	✓	✓
12.5–13.4	—	✓	✓	✓
13.5–14.1	—	✓	✓	✓
14.5–15.4	—	✓	✓	✓
15.5–16.4	—	✓	✓	✓
16.5–17.4	—	✓	✓	✓
17.5–18.4	—	✓	✓	✓
18.5–19.4	—	✓	✓	✓
19.5–20.4	—	✓	✓	✓



Ball Plungers

Spring Type

Spring-loaded ball plungers for indexing, positioning and light detent applications.

9 sizes · pricing on request

Thread (B)	Length A (mm)	Ball Dia C (mm)	Ball Protrusion D (mm)	Per Load (N)	Max Load (N)
M3	7	1	0.8	4	9
M4	9	1.8	1.5	6	20
M5	12	2.4	2	6	20
M6	14	2.7	2	7	20
M8	16	4	2	15	30
M10	19	4.5	2.5	20	35
M12	22	6	3.5	30	55
M16	24	8.5	4.5	45	100
M20	30	10	6.5	60	200



Ratchet Handles

Zinc Die-Cast

Zinc die-cast ratchet handles and threaded inserts for jigs, fixtures and machine guarding.

47 sizes · pricing on request

Size	Size	Size
M5×50 INSERT	M6×50×40	M10×80×60
M6×50 INSERT	M6×50×45	M10×80×70
M8×63 INSERT	M6×50×50	M10×80×80
M10×80 INSERT	M8×63×20	M10×80×90
M12×95 INSERT	M8×63×25	M12×95×20
M16×114 INSERT	M8×63×30	M12×95×25
M5×50×15	M8×63×40	M12×95×30
M5×50×20	M8×63×50	M12×95×40
M5×50×25	M8×63×60	M12×95×50
M5×50×30	M8×63×70	M12×95×60
M5×50×40	M8×63×80	M12×95×80
M5×50×50	M10×80×20	M16×114×40
M6×50×15	M10×80×25	M16×114×50
M6×50×20	M10×80×30	M16×114×60
M6×50×25	M10×80×40	M16×114×70
M6×50×30	M10×80×50	



Blue Rod

Steel Wire 4½" · ±0.2mm

Blue-tempered spring-steel wire rod (4½" lengths, ±0.2 mm) for springs and forming.

12 sizes · pricing on request

Diameter (mm)
0.6 – 1.5
1.6 – 2.1
2.2 – 2.7
2.8 – 3.3
3.4 – 3.9
4.0 – 4.5

Diameter (mm)
4.6 – 5.0
5.1 – 5.5
5.6 – 6.2
6.3 – 7.0
7.1 – 7.5
7.6 – 8.0



Die Springs

Colour-Coded Load

ISO 10243 colour-coded die springs — load rated by colour (green → yellow) for press tools.

18 sizes · pricing on request

Length (mm)	OD 10	OD 13	OD 16	OD 20	OD 25	OD 32	OD 40	DIA 50	DIA 63
25	✓	✓	✓	✓	✓	—	—	—	—
32	✓	✓	✓	✓	✓	—	—	—	—
38	✓	✓	✓	✓	✓	✓	—	—	—
44	✓	✓	✓	✓	✓	✓	—	—	—
51	✓	✓	✓	✓	✓	✓	✓	—	—
64	✓	✓	✓	✓	✓	✓	✓	✓	—
76	✓	✓	✓	✓	✓	✓	✓	✓	✓
89	✓	✓	✓	✓	✓	✓	✓	✓	✓
102	—	✓	✓	✓	✓	✓	✓	✓	✓
115	—	✓	✓	✓	✓	✓	✓	✓	✓
127	—	—	—	✓	✓	✓	✓	✓	✓
139	—	—	—	✓	✓	✓	✓	✓	—
152	—	—	—	✓	✓	✓	✓	✓	✓
178	—	—	—	✓	✓	✓	✓	✓	✓
203	—	—	—	✓	✓	✓	✓	✓	✓
229	—	—	—	—	—	—	—	✓	✓
254	—	—	—	✓	✓	✓	✓	✓	✓
305	✓	✓	✓	✓	✓	✓	✓	✓	✓

From spec to quote in three steps

This catalogue lists full dimensions so you can specify exactly. Pricing is on request — we quote to your size and quantity, with volume discounts.

1

Find your part & size
Use the dimension tables to pin down the standard, size and material you need.

2

Send us the details
Share product, size and quantity by WhatsApp, phone or email — scan a code below.

3

Get your quote
We respond within 24 hours with pricing and your applicable volume discount.

Request a quotation
WhatsApp / Call +91 98920 10184 · +91 88506 87037
Email sales@impexindustrialcorporation.com
Web impexindustrialcorporation.com
Office 36/38 Bibijan Street, Main Road, Office No. 10, Ground Floor, Mumbai — 400 003


WhatsApp us


View online

IMPEX INDUSTRIAL CORPORATION · impexindustrialcorporation.com

40 / 41



IMPEX

INDUSTRIAL CORPORATION

Let's find your exact size.

Full range, full specifications, quoted to your requirement. Talk to us for pricing with volume discounts.

36/38 Bibijan Street, Main Road, Office No. 10, Ground Floor, Mumbai — 400 003

+91 98920 10184 ·

sales@impexindustrialcorporation.com

impexindustrialcorporation.com

© 2026 · EST. 1971