

GROUP 649/650 CIRCLIPS/DOWEL PINS

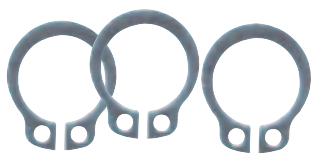
QUALFAST Circlips

Circlips simplify designs and linked with lower installation costs are the ideal item for replacing more traditional fasteners.

Manufactured from carbon steel with a phosphate finish.

External

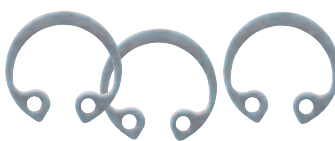
External DIN 471



Metric			
Dia. (mm)	Pack Quantity	Order Code QFT-649	Price/Pack TB
3	100	-2003C	165.00
4	100	-2004D	165.00
5	100	-2005E	165.00
6	100	-2006F	175.00
7	100	-2007G	175.00
8	50	-2008H	175.00
9	50	-2009J	185.00
10	50	-2010K	185.00
11	50	-2011L	185.00
12	50	-2012M	195.00
13	50	-2013N	195.00
14	50	-2014P	195.00
15	50	-2015Q	215.00
16	40	-2016R	215.00
17	40	-2017S	215.00
18	25	-2018T	225.00
19	25	-2019V	225.00
20	25	-2020W	225.00
24	25	-2024Y	250.00
25	25	-2025A	250.00
26	25	-2026B	250.00
27	25	-2027C	250.00
28	25	-2028D	300.00
29	25	-2029E	300.00
30	25	-2030F	300.00

Internal

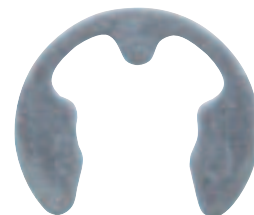
Internal DIN 472



Metric			
Dia. (mm)	Pack Quantity	Order Code QFT-649	Price/Pack TB
8	50	-2208H	110.00
9	50	-2209J	110.00
10	50	-2210K	110.00
11	50	-2211L	120.00
12	50	-2212M	120.00
13	50	-2213N	130.00
14	50	-2214P	130.00
15	50	-2215Q	130.00
16	40	-2216R	140.00
17	40	-2217S	140.00
18	25	-2218T	140.00
19	25	-2219V	150.00
20	25	-2220W	165.00
21	25	-2221X	170.00
22	25	-2222Y	180.00
23	25	-2223Z	180.00
24	25	-2224A	190.00
25	25	-2225B	190.00
26	25	-2226C	190.00
27	25	-2227D	190.00
28	25	-2228E	200.00
29	25	-2229F	200.00
30	25	-2230C	200.00

E-Clips

E-clips simplify designs and linked with lower installation costs are the ideal item for replacing more traditional fasteners. All are manufactured from carbon steel with a phosphate finish. Conform to DIN 6799.



Metric			
Dia. (mm)	Pack Quantity	Order Code QFT-649	Price/Pack TB
1.2	200	-3992P	156.00
1.5	200	-3995S	242.00
1.9	200	-3998W	325.00
2.3	200	-4001A	125.00
3.2	200	-4003C	247.00
4.0	100	-4004D	159.00
5.0	100	-4005E	176.00
6.0	100	-4006F	184.00
7.0	100	-4007G	218.00
8.0	50	-4008H	218.00
9.0	25	-4009J	138.00
10.0	25	-4010K	151.00
12.0	25	-4012M	151.00

Steel Balls

Low carbon case hardened steel balls are for general use in castors, conveyors, non-precision bearings and any slow rotating parts. They have resistance to shock loads with a good load carrying ability and excellent resistance to surface wear. The G100 standard ball is of a high spherical standard.



Diameter	Pack Qty	Weight	Order Code QFT-671	Price/Pk TB
Metric				
2mm	100	4g	-1002B	450.00
3mm	50	6g	-1003C	450.00
4mm	50	18g	-1004D	450.00
5mm	50	26g	-1005E	450.00
6mm	50	44g	-1006F	500.00
7mm	50	70g	-1007R	450.00
8mm	25	55g	-1008G	525.00
10mm	25	105g	-1010J	550.00
12mm	10	71g	-1012L	650.00
16mm	10	168g	-1016Q	750.00
20mm	10	327g	-1020S	390.00
Inch				
3/32"	50	5g	-0806M	450.00
1/8"	50	6g	-0808R	450.00
3/16"	50	22g	-0812B	450.00
1/4"	50	53g	-0816D	450.00
5/16"	25	52g	-0820F	500.00
3/8"	25	89g	-0824H	525.00
7/16"	25	141g	-0828K	550.00
1/2"	10	141g	-0832M	195.00

KENNEDY Extractable Dowels

Extractable dowel pins complete with inner thread and slight flats for air release.

DIN 7979D. EN 28735. ISO 8735.

Material:

AISI-52100 or DIN 1-3505 100 Cr 6.

Hardness: 57-63 HRC.

EXTENDED RANGE



Dia.	Length	Weight per 100	Order Code KEN-651	Price/100 TB
20		490g	-1840K	1755.00
24		620g	-1860K	1505.00
25		640g	-1880K	1905.00
28		680g	-1900K	1905.00
30		740g	-1920K	1905.00
32		800g	-1940K	2505.00
35		840g	-1950K	2505.00
36		860g	-1960K	2505.00
40		1.00kg	-1980K	2505.00
45		1.09kg	-2000K	2505.00
50		1.27kg	-2020K	2505.00
60		1.45kg	-2040K	2505.00
70		1.72kg	-2060K	3205.00
80		2.00kg	-2080K	3505.00
90		2.27kg	-2100K	6755.00
100		2.82kg	-2120K	7755.00
24		900g	-2460K	3955.00
25		1.00kg	-2480K	4005.00
30		1.09kg	-2520K	3505.00
32		1.17kg	-2540K	3755.00
36		1.27kg	-2560K	3755.00
40		1.45kg	-2580K	3855.00
45		1.63kg	-2600K	3855.00
50		1.81kg	-2620K	3955.00
60		2.18kg	-2640K	4005.00
70		2.45kg	-2660K	4255.00
80		2.81kg	-2680K	4655.00
90		3.18kg	-2700K	5855.00
100		3.54kg	-2720K	13255.00
30		800g	-3120K	9500.00
32		1.00kg	-3140K	10000.00
36		1.16kg	-3160K	10000.00
40		1.26kg	-3180K	10005.00
45		1.42kg	-3200K	10505.00
50		1.58kg	-3220K	10505.00
60		1.90kg	-3240K	10755.00
70		2.20kg	-3260K	11005.00
80		2.50kg	-3280K	11255.00
90		2.90kg	-3300K	11305.00
100		3.15kg	-3320K	11505.00
40		1.58kg	-3580K	11505.00
50		1.98kg	-3620K	12505.00
60		2.38kg	-3640K	12505.00
70		2.75kg	-3660K	13500.00
80		3.13kg	-3680K	15505.00
90		3.62kg	-3700K	16500.00
100		3.94kg	-3720K	17500.00
25		5.10kg	-3920K	18000.00



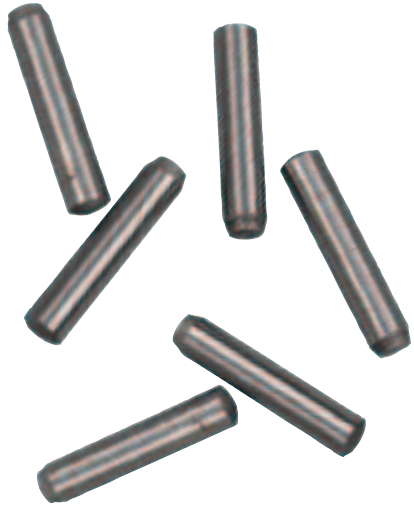
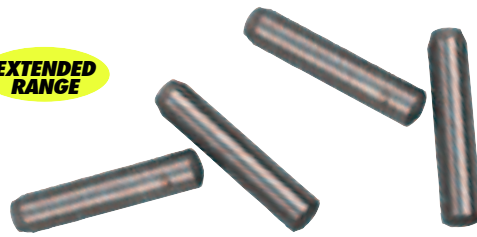
Quality Industrial Dowel Pins

Hardened and precision ground. Conform with **DIN 6325**. **Metric:** Sizes 3mm are manufactured from non-hardened silver steel, 4mm and above are high quality through hardened mild steel.

Tolerances:

3mm	= +0.002
	+0.006
4 - 6mm	= +0.004
	+0.009
8 - 10mm	= +0.006
	+0.0012
12 - 16mm	= +0.007
	+0.0015.

**EXTENDED
RANGE**



Metric				
Dia. (mm)	Length mm	Weight per 100	Order Code KEN-650	Price/100 TB
2	6	34g	-0500K	310.00
	8	100g	-0520K	315.00
	10	125g	-0530K	255.00
2.5	6	36g	-0580K	255.00
	8	38g	-0600K	275.00
	10	40g	-0620K	325.00
	12	45g	-0640K	355.00
3	6	110g	-0860K	318.00
	8	120g	-0880K	318.00
	10	130g	-0900K	305.00
	12	140g	-0920K	330.00
	14	145g	-0930K	340.00
	16	150g	-0940K	570.00
	18	165g	-0950K	570.00
	20	180g	-0960K	405.00
	24	188g	-0970K	415.00
	25	190g	-0980K	415.00
4	6	75g	-1060K	280.00
	8	87g	-1080K	280.00
	10	100g	-1100K	305.00
	12	150g	-1120K	315.00
	14	200g	-1130K	340.00
	16	220g	-1140K	355.00
	18	230g	-1150K	580.00
	20	240g	-1160K	580.00
	24	280g	-1170K	420.00
	25	300g	-1180K	420.00
5	6	307g	-1190K	470.00
	8	310g	-1200K	555.00
	10	330g	-1210K	555.00
	12	405g	-1230K	565.00
	16	410g	-1240K	630.00
	10	200g	-1310K	380.00
	12	220g	-1320K	380.00
	16	300g	-1340K	450.00
	18	350g	-1350K	450.00
	20	400g	-1360K	500.00
6	24	420g	-1370K	555.00
	25	420g	-1380K	570.00
	30	500g	-1400K	655.00
	32	540g	-1410K	755.00
	35	600g	-1420K	940.00
	36	620g	-1430K	950.00
	40	640g	-1440K	755.00
	50	800g	-1460K	1605.00

Metric . . . continued				
Dia. (mm)	Length mm	Weight per 100	Order Code KEN-650	Price/100 TB
6	10	410g	-0151K	300.00
	12	430g	-1520K	650.00
	14	450g	-1530K	650.00
	16	470g	-1540K	505.00
	18	480g	-1550K	505.00
	20	500g	-1560K	780.00
	24	530g	-1570K	550.00
	25	600g	-1580K	605.00
	28	660g	-1590K	655.00
	30	700g	-1600K	600.00
8	32	740g	-1610K	900.00
	35	800g	-1620K	680.00
	36	820g	-1630K	930.00
	40	900g	-1640K	730.00
	50	1.10kg	-1680K	830.00
	60	1.40kg	-1720K	905.00
	16	700g	-1840K	570.00
	18	740g	-1850K	630.00
	20	780g	-1860K	630.00
	24	960g	-1870K	655.00
10	25	1.00kg	-1880K	1940.00
	28	1.10kg	-1890K	1940.00
	30	1.20kg	-1900K	1940.00
	32	1.28kg	-1910K	1950.00
	35	1.40kg	-1920K	2100.00
	36	1.40kg	-1930K	2200.00
	40	1.60kg	-1940K	2300.00
	45	1.80kg	-1960K	2400.00
	50	2.00kg	-1980K	2500.00
	60	2.30kg	-2020K	2500.00
12	70	2.50kg	-2040K	2500.00
	80	3.00kg	-2080K	2500.00
	20	1.30kg	-2160K	1120.00
	24	1.60kg	-2170K	1055.00
	25	1.60kg	-2180K	1055.00
	28	1.90kg	-2190K	1055.00
	30	1.90kg	-2200K	1105.00
	32	2.00kg	-2210K	1105.00
	35	2.20kg	-2220K	1105.00
	36	2.28kg	-2230K	1300.00
16	40	2.50kg	-2240K	1350.00
	45	2.80kg	-2260K	1450.00
	50	3.20kg	-2280K	1450.00
	60	3.70kg	-2320K	1560.00
	70	4.30kg	-2340K	2755.00
	80	5.00kg	-2360K	3005.00
	90	5.70kg	-2380K	4955.00
	100	7.10kg	-2400K	4655.00
	20	2.20kg	-2460K	2205.00
	24	2.30kg	-2470K	2205.00
20	25	2.30kg	-2480K	2205.00
	28	2.65kg	-2490K	2205.00
	30	2.80kg	-2500K	2205.00
	32	3.00kg	-2510K	2205.00
	35	3.20kg	-2520K	2305.00
	36	3.20kg	-2530K	2400.00
	40	7.30kg	-2540K	2405.00
	45	4.10kg	-2560K	1900.00
	50	4.60kg	-2580K	2505.00
	60	5.50kg	-2620K	2713.00
24	70	6.20kg	-2640K	3602.00
	80	7.10kg	-2660K	3761.00
	90	8.00kg	-2680K	6754.00
	100	8.90kg	-2700K	6754.00
	32	5.00kg	-2800K	3105.00
	36	5.60kg	-2820K	3105.00
	40	6.30kg	-2840K	3105.00
	45	7.10kg	-2860K	3500.00
	50	7.90kg	-2880K	3755.00
	60	9.50kg	-2920K	4480.00
32	70	11.00kg	-2940K	5825.00
	80	12.00kg	-2960K	5882.00
	100	15.80kg	-3000K	7279.00

Sizes 1/16" and 1/8" are manufactured from non-hardened silver steel, 3/16" and above are high quality case hardened mild steel.

Tolerances:

All sizes = +0.001" +0.003".

Inch				
Dia. (mm)	Length mm	Weight per 100	Order Code KEN-650	Price/100 TB
1/8"	1/4"	110g	-4620K	498.00
	3/8"	120g	-4660K	530.00
	1/2"	130g	-4700K	510.00
	5/8"	140g	-4740K	530.00
	3/4"	150g	-4760K	530.00
	1"	200g	-4800K	780.00
	1 1/2"	300g	-4880K	805.00
	2"	600g	-4960K	905.00
3/16"	1/2"	280g	-5500K	400.00
	5/8"	300g	-5540K	480.00
	3/4"	400g	-5560K	605.00
	1"	500g	-5600K	500.00
	1 1/4"	550g	-5640K	540.00
1/4"	1 1/2"	600g	-5680K	680.00
	2"	800g	-5760K	705.00
	1/2"	400g	-6300K	530.00
	5/8"	500g	-6340K	480.00
5/16"	3/4"	550g	-6360K	480.00
	1"	700g	-6400K	505.00
	1 1/4"	820g	-6440K	1485.00
	1 1/2"	1.10kg	-6480K	1501.00
3/8"	2"	1.40kg	-6560K	1885.00
	1/2"	600g	-6850K	1363.00
	3/4"	800g	-6860K	2700.00
	1"	1.20kg	-6900K	1485.00
	1 1/4"	1.40kg	-6940K	1501.00
	1 1/2"	1.60kg	-6980K	1849.00
	2"	2.20kg	-7060K	2507.00
	2 1/2"	2.80kg	-7140K	2694.00
	3"	3.20kg	-7220K	4056.00
	3 1/2"	3.90kg	-7300K	4592.00
1/2"	5/8"	1.10kg	-7420K	2625.00
	3/4"	1.30kg	-7460K	1606.00
	1"	1.60kg	-7500K	1606.00
	1 1/4"	2.10kg	-7540K	1885.00
	1 1/2"	2.40kg	-7580K	2108.00
	1 3/4"	2.80kg	-7620K	2229.00
	2"	3.10kg	-7660K	2660.00
	2 1/2"	3.90kg	-7740K	3461.00
	3"	4.60kg	-7820K	4305.00
	3 1/2"	5.80kg	-7900K	5023.00
5/8"	3/4"	1.80kg	-8060K	1942.00
	1"	2.30kg	-8080K	2615.00
	1 1/4"	3.00kg	-8100K	2233.00
	1 1/2"	3.70kg	-8140K	2694.00
	1 3/4"	4.10kg	-8180K	3195.00
	2"	4.80kg	-8220K	5084.00
	2 1/2"	6.00kg	-8260K	3993.00
	2 3/4"	6.10kg	-8300K	3838.00
	3"	6.80kg	-8340K	4852.00
	3 1/2"	12.20kg	-8380K	5334.00
3/4"	3"	8.00kg	-8420K	6560.00
	3 1/2"	9.30kg	-8480K	10970.00
	4"	10.70kg	-8520K	11521.00
	1"	5.00kg	-8680K	3257.00
	1 1/4"	6.80kg	-8700K	3595.00
	2"	8.60kg	-8760K	5568.00
	3"	12.20kg	-8920K	9041.00
	3 1/2"	14.60kg	-8960K	10860.00
	4"	16.30kg	-9000K	11521.00
	1 1/2"	9.20kg	-9160K	5844.00
5/8"	2"	10.04kg	-9180K	6946.00
	4"	15.20kg	-9280K	15601.00
	3"	18.20kg	-9940K	10143.00

PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR