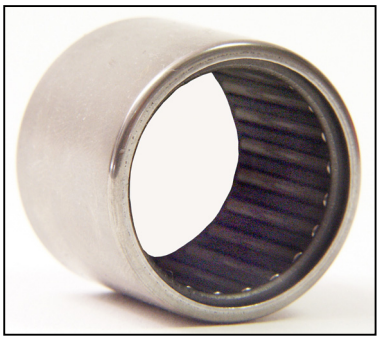
QHK QIR

BEARINGS

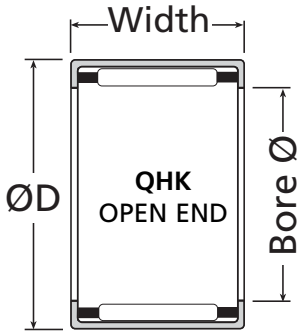
Drawn Cup Needle Roller Bearings

DIN 618 Part 1 : 3 - 50mm Bores



QHK Type
Open End Bearing

QIR Type
Inner Ring



Discounts: 6+ -12% | 20+ -25% | 40+ -33% | 60+ -37% | 100+ -42% | 200+ -48%

Part Number Open Ends	Part Number Inner Ring Bore x O/D x Length	Mass QHK (approx.) g	Bore Ø	ØD	Width	Depth of Bore	Basic Load Ratings N Dynamic *Cr*	Basic Load Ratings N Static *Cor*	Limiting Speeds rpm *grease*	Limiting Speeds rpm *oil*	Price Each 1 - 5 Open Ends	Price Each 1 - 5 Inner Ring
QHK0306TN	-	0.6	3	6.5	6	5.2	1250	835	33000	50000	£7.00	-
QHK0408TN	-	1.6	4	8.0	8	6.4	1770	1270	30000	45000	£7.00	-
QHK0509	-	1.9	5	9.0	9	7.4	2640	2190	27000	40000	£6.68	-
QHK0609	-	2.2	6	10.0	9	7.4	2660	2280	25000	37000	£7.00	-
QHK0810	QIR050812	3.2	8	12.0	10	8.4	3850	3950	20000	30000	£8.47	£7.07
QHK1010	QIR071010.5	3.8	10	14.0	10	8.4	4500	5100	16000	24000	£7.05	£6.40
QHK1012	QIR071012	4.5	10	14.0	12	10.4	5900	7250	16000	24000	£8.21	£7.70
QHK1015	QIR071016	5.6	10	14.0	15	13.4	7100	9150	16000	24000	£7.81	£9.72
QHK1210	QIR081210.5	4.6	12	16.0	10	8.4	5050	6250	13000	20000	£7.47	£6.40
QHK1212	QIR081212.5	9.1	12	18.0	12	9.3	6600	7300	13000	20000	£8.47	£7.70
QHK1412	QIR101413	11.0	14	20.0	12	9.3	7200	8500	11000	17000	£8.27	£6.84
QHK1516	QIR121516.5	15.0	15	21.0	16	13.3	10700	14400	11000	16000	£8.84	£6.84
QHK1612	-	12.0	16	22.0	12	9.3	7750	9700	10000	15000	£9.71	-
QHK1616	QIR121616	16.0	16	22.0	16	13.3	11100	15300	10000	15000	£9.71	£8.47
QHK1812	QIR151812.5	13.0	18	24.0	12	9.3	8300	10900	8500	13000	£9.01	£6.01
QHK1816	QIR151816.5	18.0	18	24.0	16	13.3	11800	17300	8500	13000	£9.83	£7.27
QHK2016	QIR172016.5	19.0	20	26.0	16	13.3	13000	20100	8000	12000	£10.10	£7.45
QHK2020	QIR172020.5	24.0	20	26.0	20	17.3	16400	27100	8000	12000	£10.58	£9.76
QHK2220	QIR172223	26.0	22	28.0	20	17.3	17200	29800	7500	11000	£11.52	£11.51
QHK2516	QIR202520.5	27.0	25	32.0	16	13.3	15900	24000	6500	9500	£11.09	£8.57
QHK2526	QIR202526.5	45.0	25	32.0	26	23.3	26400	46000	6500	9500	£13.77	£11.52
QHK2820	QIR222820.5	38.0	28	35.0	20	17.3	23600	32500	5500	8500	£12.53	£9.17
QHK3012	QIR253012.5	24.0	30	37.0	12	9.3	13000	19500	5500	8000	£11.31	£7.37
QHK3026	QIR253026.5	53.0	30	37.0	26	23.3	29100	55000	5500	8000	£15.40	£12.28
QHK3516	-	37.0	35	42.0	16	13.3	19700	35000	4700	7000	£15.60	-
QHK3520	QIR303520.5	46.0	35	42.0	20	17.3	24800	47500	4700	7000	£15.75	£10.92
QHK4012	QIR354012.5	31.0	40	47.0	12	9.3	15100	26000	4000	6000	£16.71	£9.91
QHK4020	QIR354020.5	52.0	40	47.0	20	17.3	25900	52500	4000	6000	£19.00	£12.44
QHK5025	QIR455025.5	90.0	50	58.0	25	17.3	38500	82000	3200	4800	£27.23	£16.71

Material

Hard Steel (steel case, steel cage except TN version, hardened steel needles).

Performance

Recommended Fit - Housing: N6 (Steel) / R6 (Light Alloy) (<1.6 Ra Circularity / Cylindricity <IT4).
Shaft without inner ring: h6.
Shaft with inner ring: k5 / j6 (58-64 Hrc <0.8 Ra).

Other Info.

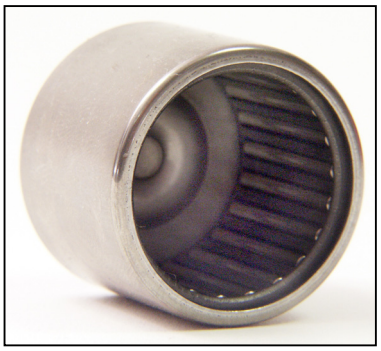
Accuracy is affected and depends on accuracy of Housing and Shaft used.
TN = Plastic cage (some stock may be supplied with steel cage),
Permissible operating temperature: 120°C (continuous operation).
For best life run directly onto hardened or toughened shafts.
Shaft Material: 58-64 HRC Ground <0.8Ra or runs on **QIR** inner ring. All dimensions in mm.
Note: QIR Part Number indicates dimensions of the inner ring. Bore x Outside Dia. x Length.

BEARINGS

Drawn Cup Needle Roller Bearings

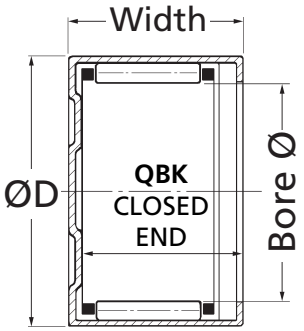
DIN 618 Part 1 : 3 - 40mm Bores

QBK



QBK Type

Closed End Bearing



Discounts: 6+ -12% | 20+ -25% | 40+ -33% | 60+ -37% | 100+ -42% | 200+ -48%

Part Number Closed End	Mass (approx.) g	Bore Ø	ØD	Width	Depth of Bore	Basic Load Ratings N Dynamic *Cr*	Static *Cor*	Limiting Speeds rpm *grease*	*oil*	Price Each 1 - 5
QBK0306TN	0.7	3	6.5	6	5.2	1250	835	33000	50000	£7.69
QBK0408TN	1.8	4	8.0	8	6.4	1770	1270	30000	45000	£7.69
QBK0509	2.1	5	9.0	9	7.4	2640	2190	27000	40000	£5.15
QBK0609	2.4	6	10.0	9	7.4	2660	2280	25000	37000	£7.69
QBK0810	3.4	8	12.0	10	8.4	3850	3950	20000	30000	£8.47
QBK1010	4.2	10	14.0	10	8.4	4500	5100	16000	24000	£7.68
QBK1012	5.0	10	14.0	12	10.4	5900	7250	16000	24000	£8.47
QBK1015	6.2	10	14.0	15	13.4	7100	9150	16000	24000	£12.85
QBK1210	5.2	12	16.0	10	8.4	5050	6250	13000	20000	£8.21
QBK1212	10.0	12	18.0	12	9.3	6600	7300	13000	20000	£8.47
QBK1412	12.0	14	20.0	12	9.3	7200	8500	11000	17000	£9.09
QBK1516	17.0	15	21.0	16	13.3	10700	14400	11000	16000	£9.69
QBK1612	14.0	16	22.0	12	9.3	7750	9700	10000	15000	£9.71
QBK1616	18.0	16	22.0	16	13.3	11100	15300	10000	15000	£9.71
QBK1816	20.0	18	24.0	16	13.3	11800	17300	8500	13000	£16.38
QBK2016	22.0	20	26.0	16	13.3	13000	20100	8000	12000	£14.36
QBK2020	27.0	20	26.0	20	17.3	16400	27100	8000	12000	£10.58
QBK2526	49.0	25	32.0	26	23.3	26400	46000	6500	9500	£15.17
QBK3026	59.0	30	37.0	26	23.3	29100	55000	5500	8000	£18.79
QBK3520	55.0	35	42.0	20	17.3	24800	47500	4700	7000	£26.42
QBK4020	64.0	40	47.0	20	17.3	25900	52500	4000	6000	£20.84

Material

Hard Steel (steel case, steel cage except TN version, hardened steel needles).

Performance

Recommended Fit - Housing: N6 (Steel) / R6 (Light Alloy) (<1.6 Ra Circularity / Cylindricity <IT4).
Shaft without inner ring: h6 (58-64 Hrc <0.8 Ra).

Other Info.

Accuracy is affected and depends on accuracy of Housing and Shaft used.
TN = Plastic cage (some stock may be supplied with steel cage),
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Shaft Material: 58-64 HRC Ground <0.8Ra. All dimensions in mm.