







COLLET CHUCK















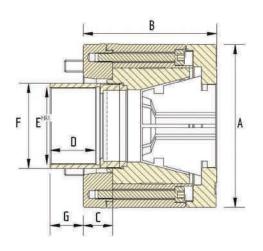
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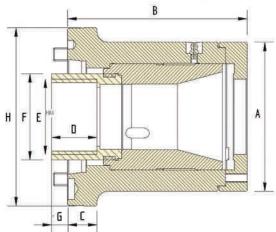
CRS Short Series Power Collet Chucks

CRS series

- · Ultra compact chuck design for first operation.
- · Ideally suited for use with barfeeders.
- · Short length maximises lathe work envelope.
- · Bolt on collet retaining cap.
- Uses Varibore bore type collets only. (CRS36 also accepts 171E spring collets.)







Specifications		CRS 36	CRS 54A5	CRS54A6	CRS60A5	CRS 66	CRS 66A6-S	CRS 66A8
Gripping Range	Max mm	35	54	54	60	66	66	66
	Min mm	4	3	3	4	4	4	4
Collet Increment	mm	2	3	3	2	3	3	3
Sleeve Stroke	mm	7	10	10	7	10	10	10
Max Input Force	kN	18	30	30	30	38	38	38
Max Gripping Force	kN	36	60	60	60	84	84	84
Max Speed (rpm)	min ⁻¹	7000	6300	6300	6300	4500	4500	4500
Net Weight	kg	8	11	11	11	19	24	18
Matching Cylinder		S1036	S1552/75	S1552/75	S1552/75	S1875	S1875	S1875
Collet Ref	Varibore	D-671	D-120	D-120	D-677	D-285	D-285	D-285
	Spring	D171E	-	-	-	-	-	-

Dimensions	CRS 36	CRS 54A5	CRS 54A6	CRS 60A5	CRS 66	CRS 66A6-S	CRS 66A8
Mount	115 x 5	A2-5	A2-6	A2-5	220 x 5	A2-6	A2-8
A	105	138	138	138	150	165	140
В	125	113	129	107.5	140	131	140
С	23	25	41	25	30	N/A	30
D	18	38	38	38	30	66	66
E Max	M50 x 1.5	M65 x 1.5	M65 x 1.5	M65 x 1.5	M80 x 2	M80 x 2	M80 x 2
F	58	72	72	72	90	90	90
G Max	-6	28	12	28	21	29.5	21
G Min	-13	18	2	21	11	19.5	11
Н	135	138	166	139	230	166	210



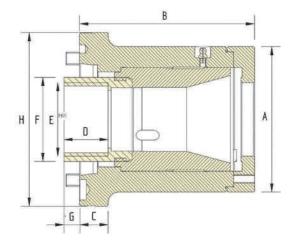
CRL Long Series Power Collet Chucks





- · Suitable for first and second operations.
- · Compact design minimum overhang.
- Interchangeable on spindle with Kitagawa series B200 chucks.
- · Bolt on collet retaining cap.
- · Supplied complete with blank connector as standard.
- · All parts made of alloy steel hardened and precision ground.







Specifications		CRL42	CRL42A5	CRL42A6	CRL54A6	CRL60	CRL60A6	CRL60A8
Gripping Range	Max mm	42	42	42	54	60	60	60
	Min mm	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Collet Increment	mm	3	3	3	3	3	3	3
Sleeve Stroke	mm	7	7	7	10	7	7	7
Max Input Force	kN	25	25	25	30	30	30	30
Max Gripping Force	kN	55	55	55	60	60	60	60
Max Speed (r.p.m.)	min ⁻¹	7100	7100	7100	6300	6300	6300	6300
Net Weight	kg	10	9.5	10.7	15	15.2	15	18.5
Matching Cylinder		S1246	S1246	S1246	S1552/75	S1552/75	S1552/75	S1552/75
		D-673	D-673	D-673		D-677	D-677	D-677
Collet Ref	Varibore	DIN6343	DIN6343	DIN6343	D-120	DIN6343	DIN6343	DIN6343
	Spring	D173E 4728	D173E 4728	D173E 4728	D-853	D185E 4291	D185E 4291	D185E

Dimensions	CRL42	CRL42A5	CRL42A6	CRL54A6	CRL60	CRL60A6	CRL60A8
Mount	140 x 5	A2-5	A2-6	A2-6	170 x 5	A2-6	A2-8
A	110	110	110	138	138	138	138
В	133	143	145	160	148	160	156
С	20	20	33	27	24	27	36
D	30	30	30	25	30	30	30
E	M55 x 1.5	M55 x 1.5	M55 x 1.5	M70 x 1.5	M70 x 1.5	M70 x 1.5	M70 x 1.5
F	62	62	62	80	80	80	80
G Max	11	1	-1	-2	10	-2	2
G Min	4	-6	-8	-12	3	-9	-5
Н	160	135	165	165	190	165	210



QCRL Quick Change Collet Chucks

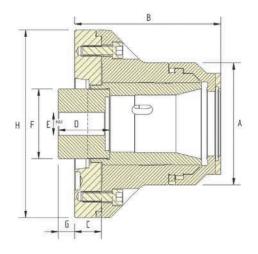




QCRL series

- · Quick change chuck design for first or second operation.
- · Ideally suited for use with barfeeders.
- · Fixed length collet no part movement.
- · Quick change cap with safety catch.
- · Uses varibore, spring and master collets.
- · Exceptional accuracy in small package.







Specifications		QCRL 42(I) Inch	QCRL 42 Din	QCRL 54 Inch	QCRL 60 Din
Gripping Range -	Max mm	42	42	54	60
Round	Min mm	1.6	4	1.6	4
Collet Increment	mm	3	2	3	2
Sleeve Stroke	mm	7	7	10	7
Max Input Force	kN	25	25	30	30
Max Gripping Force	kN	55	55	60	60
Max Speed (r.p.m.)	min ⁻¹	7100	7100	6300	6300
Net Weight	kg	13.5	13.5	29	29
Matching Cylinder		S1246	S1246	S1552/75	S1552/75
Collet Ref	Varibore	D-850	D-673	D-120	D-677
	Spring	D-286	D173E	D-853	D185E

Dimensions	QCRL	42(I)/QCR	L 42		QCRL 54			QCRL 60				
Mount	140 x 6	A5	A6	170 x 6	A5	A6	A8	170	A5	A6	A8	
A		113			14	13			14	43		
В	149	143	143	181	190	175	175	177	186	171	171	
С	31.5	25	25	36.5	45	36.5	36.5	36.5	46.5	36.5	36.5	
D	60				6	0		60				
E Max		M58 x 1.5			M75	x 1.5		M75 x 1.5				
F		65			8	2			8	82		
G Max	17	23	23	15	25	21	21	14	5	21	21	
G Min	10	16	16	5	15	11	11	7	-2	14	14	
Н	165	165	165	220	220	220	220	220	220	220	220	

^{*}QCRL54 and 60 models can be supplied with additional 42mm Inch and Din collet reduction sleeves and caps. See accessory page for details and part numbers.



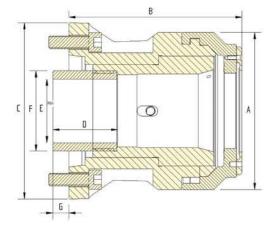
Quick Change Collet Chucks



DIRECT MOUNT series

- · Quick change chuck design for first or second operation.
- · Ideally suited for use with barfeeders.
- Fixed length collet no part movement.
- · Quick change cap with safety catch.
- · Uses varibore, spring and master collets.
- · Exceptional accuracy in small package.







Specifications		QD-CRL42 DIN	QD-CRL60 DIN	QCRS66 Inch	QCRS80 Inch	QCRL80 DIN
Gripping Range -	Max mm	42	60	66	80	80
Round	Min mm	4	4	3	12	12
Collet Increment	mm	2	4	3	3	3
Sleeve Stroke	mm	7	7	10	12	12
Max Input Force	kN	25	30	38	45	45
Max Gripping Force	kN	55	60	84	78	78
Max Speed (r.p.m)	min ⁻¹	7100	6300	4500	4500	4500
Net Weight	kg	10	20	24	29	37
Matching Cylinder		S1246	S1552	S1875	S2091	S2091
Collet Ref	Varibore	D-673	D-677	B-285	D-175	D-660
	Spring	D173E	D185E		3551	D-193E

Dimensions	QD-CRL42	QD-CRL60	QCR	QCRS66		QCRL80
Mount	A5	A6	220 x 6	A8	A8	A8
A	113	143	16	162		196
В	142	170	158	152	170	221
C	135	165	230	220	220	220
D	60	60	80	0	80	80
E Max	M58 x 2.0	M75 x 2.0	M90	x 2.0	M90 x 2.0	M90 x 2.0
F	65	82	10	00	100	100
G Max	23	20	19	25	20	20
G Min	16	13	9	15	8	8

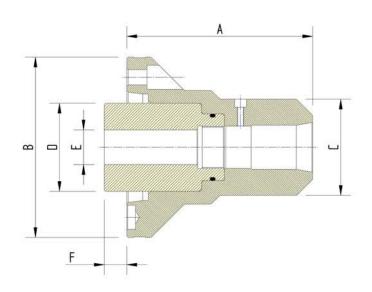


Pull Back Series Power Collet Chucks



PULL BACK series

- · Pull back design for first operation.
- · Suitable for 5C & 16C collets.
- · Ejectors available.
- · Compact design for improved tool access.







Specifications		DEL 5C	DEL 16C
Capacity	mm	0.5 - 27	0.5 - 42
Pull Back Ratio		1:3	1:3
Max Drawbar Pull	kN	20	24
Max Speed (r.p.m)	min ⁻¹	6000	6000
Net Weight	kg	7, 11	6, 8
Collet Ref	Pull Back	5C	16C

Dimensions	ions DEL 5C DEL 16C					
Mount	140 x 6	A5	A6	170 x 6	A5	A6
A	144	139	147	157	152	160
В	160	135	170	190	135	170
C	72		72	85		85
D	6	5	83	65		83
E Max	M58 x 2.0		M75 x 2.0	M58 x 2.0		M75 x 2.0
F Min	12	17	17	12	17	9



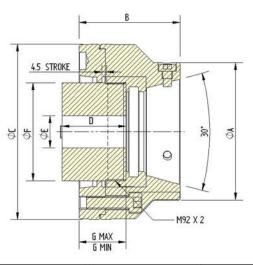
DHP Pull Back Series Power Collet Chucks



DHP series

- Pull back action for secure first operation clamping.
- · Compact design and high accuracy.
- · Requires collet changing device.
- · Compatible with quick change collet clamping heads.









Specifications		DHP 52	DHP65	DHP80
Gripping Range -	Max mm	52	65	80
Round	Min mm	4	4	10
Collet Increment	mm	0.5	0.5	1
Sleeve Stroke	mm	4.5	4.5	4.5
Max Input Force	kN	40	45	50
Max Gripping Force	kN	94	105	115
Max Speed (r.p.m)	min ⁻¹	6500	6000	5500
Net Weight	kg	9	9	29
Matching Cylinder		S1552	S1875	SS1881
Collet/Clamping Head	Varibore	DC-52	DC-65	DC-80

Dimensions	ns DHP52			DHP65			DHP80			
Mount	A5	A6	A8	A5	A6	A8	220 x 6	A2-6	A2-8	A2-11
A	120		130			160				
В	89		109	ç	5	115	114.5	134.5	127.5	156.5
С	165		210	165		210	230			
D	60		60			70				
E Max	M70 × 2.0	M85	x 2.0	M70 x 2.0	M85 x 2.0	M85 x 2.0	M105 x 2.0	M92 x 2.0	M105 x 2.0	M105 x 2.0
F	79	9	92	79	9	2	115	102	1	15
G Max	44		64	- 4	4	64	43	63	56	85
G Min	39.5	eT el	59.5	39	9.5	59.5	38.5	58.5	51.5	80.5

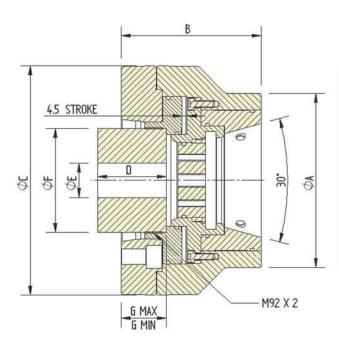


DHF Fixed Length Series Power Collet Chucks



DHF series

- · Fixed collet position ensures no part movement.
- · Removable fixed stop in chuck bore.
- · High accuracy ideal for second operation.
- · Requires collet changing device.
- · Compatible with quick change collet clamping heads.





Specifications		DHF65-A5	DHF65-A6	DHF65-A8
Gripping Range -	Max mm	65	65	65
Round	Min mm	4	4	4
Collet Increment	mm	0.5	0.5	0.5
Sleeve Stroke	mm	4.5	4.5	4.5
Max Input Force	kN	45	45	45
Max Gripping Force	kN	105	105	105
Max Speed (r.p.m)	min ⁴	6000	6000	6000
Net Weight	kg	12	12	12
Matching Cylinder		S1875	S1875	S1875
Collet / Clamping Head	Varibore	DC-65	DC-65	DC-65

Dimensions	DHF65-A5	DHF65-A6	DHF65-A8
Mount	A2-5	A2-6	A2-8
A	162	162	162
В	125	125	125
C	210	210	210
D	60	60	60
E Max	M70x2	M85x2	M85x2
F	79	92	92
G Max	42.5	42.5	42.5
G Min	38	38	38

COLLETS



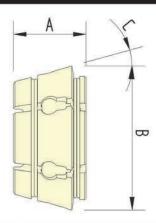




Varibore Collets





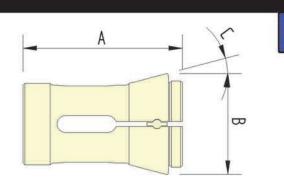


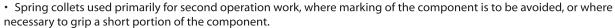
- Inch varibore collets have a gripping range of 1/8" on diameter and feature a plain bore.
- Metric round DIN varibore collets have a gripping range of 2mm on diameter and have a spiral gripping surface (above 8mm).
- Metric hex and square DIN varibore collets use a gripping range of 2mm and feature annular gripping surface (above 8mm).
- Optional heavy duty collets are available for black bar (may cause marking).

Chuck	Туре	(Capacity mm		Dimensions mm		
		Round	Hex	Square	Length (A)	Diameter (B)	Taper (C)
CRS36	D-671 DIN	4-34	4-28	4-24	38	56.5	14.75°
QCRL42I	D-850	1.6-44.5	1.6-38.1	1.6-31.8	51.8	70.1	15°
QCRL42	D-673 DIN	4-42	4-36	4-30	39	61.5	14.75°
CRS54, QCRL54	D-120	1.6-53.9	3.2-50.8	3.2-41.3	62.7	88	15°
QCRL60	D-677 DIN	4-60	4-52	4-42	45	85.5	14.75°
CRS66, QCRL66	D-285	3.2-66.6	3.2-57.1	3.2-44.4	73.2	99.3	15°
QCRS80	D-175	12.7-80	12.7-66.7	12.7-54	80	120	15°
QCRL80	D-660	12-80	12-68	12-56	48	108.5	14.75°

Spring Collets







- Collet bore diameters are dedicated.
- Emergency collets are supplied where fast turn around, small batch quantities are machined.

Chuck	Туре	Max	x. Capacity r	nm	Dimensions		
		Round	Hex	Square	Length (A)	Diameter (B)	Taper (C)
CRS36	D171E	36	30	26	94	55.3	14.75°
QCRL42I	D-286	38.5	33	29	95.25	68.25	15°
QCRL42	D173E	42	38	30	94	60	14.75°
QCRL54	D-853	51	44	36	125.4	88.1	15°
QCRL60	D185E	60	52	42	110	84	14.75°
QCRL80	D-193E	80	69	56	130	170	15°

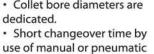
COLLETS



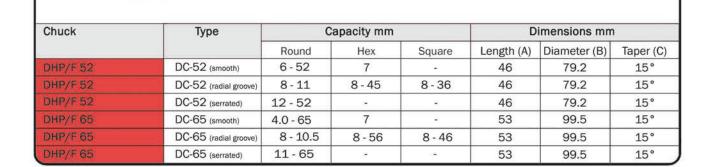


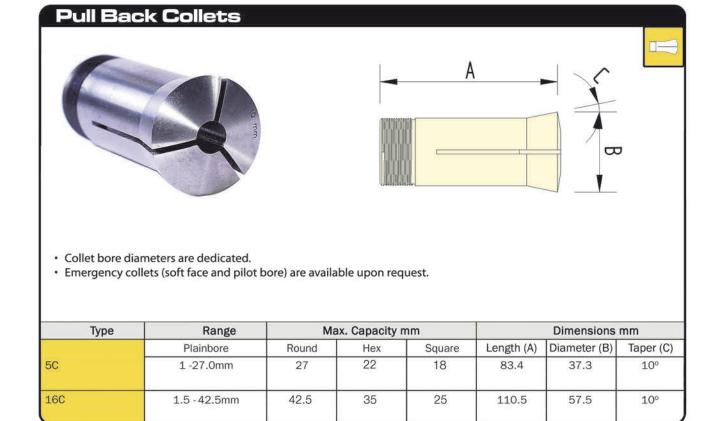


B



changing devices.







ACCESSORIES

Reduction Sleeve and Cap



- Optional reduction sleeve and cap sets allow a variety of collet types to be used in the same chuck body.
- Precision manufactured and matched to chuck body to guarantee accuracy.
- Standard models are Q-RSC6042 and RSC6042 allowing DIN 42 collets to be used in 60mm chucks.
- Alternate reduction options are available to order.

Standard and Custom Collet Chuck Adaptors



- Chuck adaptors available to all spindle mount types.
- Extra wide chuck adaptors allows small chucks to be assembled to large spindles.
- The QCRL chuck range features an interchangeable back body for different spindle mounts

Drawtube Connectors and Ejectors



- Drawtube connectors are precision machined to allow collet chucks to be easily connected to a wide range of lathe types.
- All chucks include blank connector as standard.
- Custom part ejectors and fixed length stops are available to order.

Bar Seals



- Reduces coolant and chip ingress into chuck / collet.
- Bar seal should be prepared to suit bar stock diameter.
- Compatible with QCRL range only. Bar seal and retaining cap supplied as standard with QCRL chuck range.



Related Products



Chuck series

The Kitagawa Chuck series offers a complete range of hydraulic, pneumatic and manual chucks. Many years of application experience allows Kitagawa to offer solutions to a range of workholding problems.

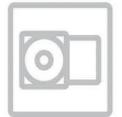




Rotary Cylinder series

The Kitagawa Cylinder series is designed to complement Kitagawa chucks to ensure optimum performance and safety. Kitagawa cylinders include lightweight compact design for high speed and internal lock valves for safe operation.

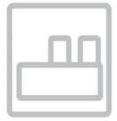




NC Rotary Table series

The Kitagawa NC Rotary Table series offers a wide variety of 4th and 5th axis models to suit many applications. Rotary Tables feature a rigid body design, powerful brake clamping forces and high indexing accuracy





Power Vise series

The Kitagawa Power Vise series features adjustable clamping force, high accuracy and low profile design across the range





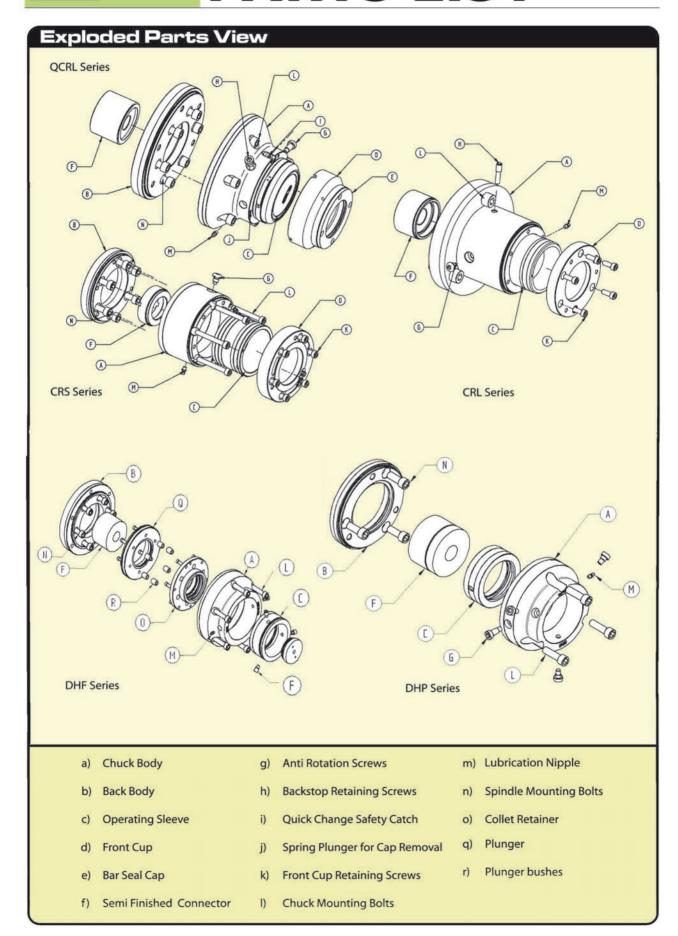
Workgripper series

The Kitagawa Workgripper series offers a complete range of pneumatic and hydraulic workholding for a variety of static applications.





PARTS LIST





		- /5-			
Machine Make	be Connec	Chuck Make	nine Spind	Cylinder Make	
Model		Model		Model	
Year		Serial Number		Serial Number	
	Please sen	d along with your comp	any details to your loca	al distributor	
FIG. 1	A B ØE ØH	D ØJ ØC	FIG. 2	A B D ØE ØJ ØG	•
FIG. 3	A	J ØC ØE	FIG. 4	B A ØJ ØC	ØE
B) BACKWARD POS	SITION OF DM SPINDLE FACE) TER FORM & R/H OR L/H	E) SPINDLE BORE DESTATE IF TAPER F) FIXING DETAILS. P.C.D. =	THREAD SIZE =	G) AMERICAN SPINDLE MOUNT STATE TYPE H) STRAIGHT SPINDLE MOUNT STATE DIAMETER I) DRAWTUBE INTERNAL DIAME	8



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