

ALBRECHT

drill chucks



Precision Keyless Drill Chucks

ALBRECHT

The World's Most Consistently Accurate Drill Chucks

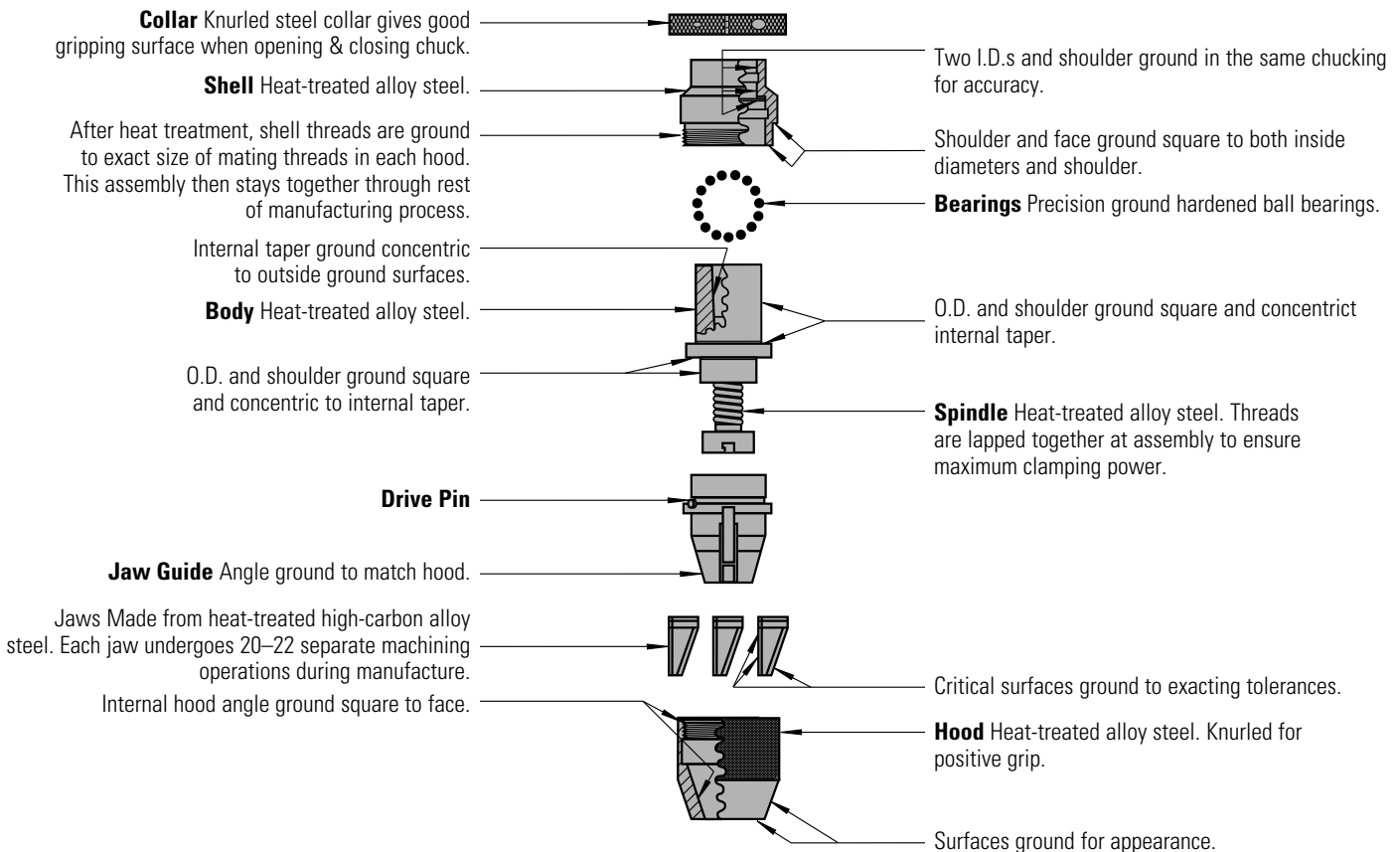


For the past 100 years, Albrecht's line of precision drill chucks has consistently earned the highest praise for **outstanding quality and accuracy**.

At the Albrecht factory, located outside of Stuttgart, Germany, in-process air gages and custom test fixtures are used to inspect all components throughout each step of the manufacturing process. Upon assembly, each chuck is qualified with 4–6 different diameter test pins at two distinct locations on each pin, and then a quality control inspector repeats the process with 4–6 different pins before approving the chuck for packaging.

Drill chuck accuracy is critical to producing accurate hole sizing and promoting longer drill life. In today's competitive environment of short lead times and slim margins, a few scrapped parts can quickly kill a job's profits. Can you afford to take a chance on anything less than an Albrecht?

WHAT DOES IT TAKE TO MAKE A CLASSIC?



SELF-TIGHTENING DESIGN



The more torque that is applied to the chuck, the tighter it grips!

All Albrecht Precision Drill Chucks, except for the Key-Lock models, incorporate a unique self-tightening feature that causes them to **grip drills tighter** as more torque is applied.

This self-tightening advantage, combined with the fact that keyless chucks are easily opened by hand, is causing many industries to abandon key-type drill chucks altogether.

DIAMOND-IMPREGNATED JAWS



**FOR CARBIDE
AND HARDENED-
SHANK DRILLS**

Albrecht's patented diamond-impregnated jaws eliminate the problems of drill slippage and jaw damage that often occur when using carbide or hardened-shank drills.

Because the diamond particles embedded in the jaws are harder than the drill shanks they are gripping, they are **able to penetrate for a deep, no-slip bite**.

U.S. patent number 5,340,128

CNC DRILL CHUCKS Excellent for CNC Machining Centers

Albrecht offers two drill chuck models designed specifically for CNC machining centers:



KEY-LOCK

WRENCH-LOCK

CNC Drill Chuck Advantages

Although some manufacturers use collet chucks or toolholders for holding drills, often an Albrecht CNC Drill Chuck would be a better choice.

- A drill chuck can hold any size drill shank within its capacity. This is important because many tap drills have odd-sized shanks that are not compatible with conventional toolholders and collets.
- As the jaws of a drill chuck close, they always remain parallel to centerline. This results in **uniform gripping force and maximum accuracy**, regardless of the drill shank diameter.

**For Best Performance, Equip
Your Machining Centers with
Albrecht CNC Drill Chucks**

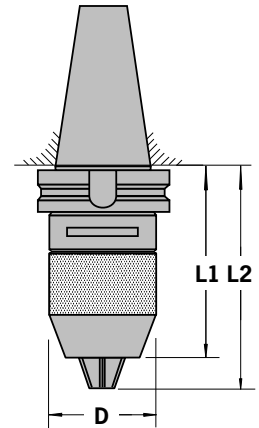
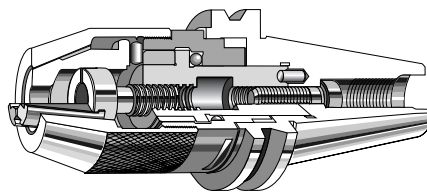
WRENCH-LOCK CNC DRILL CHUCKS



- Internal construction is very similar to Albrecht Classic Drill Chucks
- Integral CAT and BT shanks make these chucks shorter and more rigid than a chuck/arbor combination, resulting in:
 - Greater accuracy
 - Greater rigidity
 - Larger work envelope
- Integral shank eliminates the possibility of a chuck slipping on its arbor
- Chuck can be easily tightened and opened by hand
- Extra tightening force can be achieved by using a spanner wrench (included), although this chuck also incorporates the same self-tightening feature as the Classic models (See Page 169)

Dimensions

CHUCK MODEL	D	L1	L2	THREAD
130-CAT40	2"	3 ¹⁵ / ₁₆ "	4 ⁷ / ₁₆ "	5/8-11
160-CAT40	2 ¹ / ₄ "	4 ¹ / ₃₂ "	4 ⁵ / ₈ "	5/8-11
160-CAT50	2 ¹ / ₄ "	4 ¹ / ₃₂ "	4 ⁵ / ₈ "	1-8
130-BT40	2"	3 ⁵ / ₈ "	4 ³ / ₃₂ "	M16
160-BT40	2 ¹ / ₄ "	3 ⁵ / ₈ "	4 ⁵ / ₁₆ "	M16
160-BT50	2 ¹ / ₄ "	4 ¹ / ₈ "	4 ³ / ₄ "	M24



Wrench-Lock CNC Drill Chucks with CAT Taper

CHUCK MODEL	CAPACITY		TYPE	RPM	(lbs.)	PART NUMBER	PRICE
	(inches)	(millimeters)					
WL130-CAT40	1/32 - 1/2	1-13	CAT 40	6,500	4.6	77100	\$459
WL160-CAT40	1/16 - 5/8	1.5-16	CAT 40	6,500	5.1	77110	519
WL160-CAT50	1/16 - 5/8	1.5-16	CAT 50	6,500	6.2	77120	603

Wrench-Lock CNC Drill Chucks with BT Taper

CHUCK MODEL	CAPACITY		TYPE	RPM	(lbs.)	PART NUMBER	PRICE
	(inches)	(millimeters)					
WL130-BT40	1/32 - 1/2	1-13	BT40	6,500	4.2	77160	\$459
WL160-BT40	1/16 - 5/8	1.5-16	BT40	6,500	4.6	77170	519
WL160-BT50	1/16 - 5/8	1.5-16	BT50	6,500	8.4	77180	603



CLASSIC PLUS DRILL CHUCKS WITH INTEGRAL SHANK

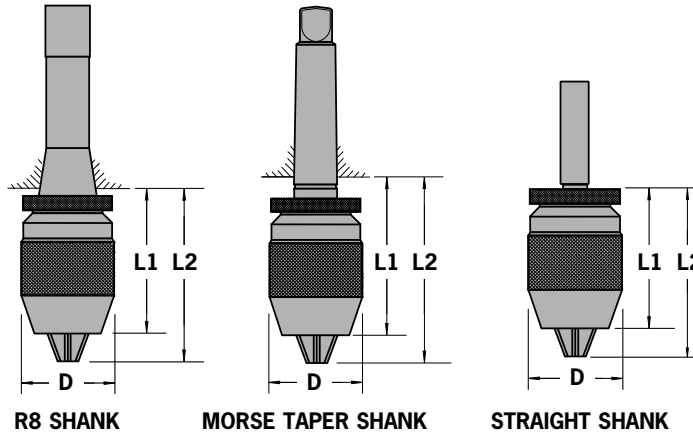


- Integral shank design is more compact than a combined drill chuck and arbor, resulting in:
 - Greater accuracy
 - Greater rigidity
 - Larger work envelope
- Integral shank eliminates the possibility of a chuck slipping on its arbor
- This unit is often less expensive than a separate chuck and arbor
- Keyless operation
- Self-tightening design (See Page 169)
- Balanced
- Available with standard or diamond-coated jaws (See Page 169)

Dimensions

CHUCK MODEL	D	L1	L2
130-2MT	2"	3 ³ / ₈ "	3 ⁷ / ₈ "
130-3MT	2"	3 ³ / ₈ "	3 ⁷ / ₈ "
130-4MT	2"	3 ⁷ / ₁₆ "	3 ¹⁵ / ₁₆ "
130-R8	2"	3 ⁵ / ₁₆ "	3 ¹³ / ₁₆ "
130-5/8	2"	3 ¹ / ₈ "	3 ⁵ / ₈ "

CHUCK MODEL	D	L1	L2
160-2MT	2 ¹ / ₄ "	3 ¹ / ₂ "	4 ¹ / ₁₆ "
160-3MT	2 ¹ / ₄ "	3 ¹ / ₂ "	4 ¹ / ₁₆ "
160-4MT	2 ¹ / ₄ "	3 ⁹ / ₁₆ "	4 ¹ / ₁₆ "
160-R8	2 ¹ / ₄ "	3 ⁷ / ₁₆ "	3 ¹⁵ / ₁₆ "



Classic Plus Keyless Drill Chucks with Integral Shank

CHUCK MODEL	CAPACITY		TYPE	RPM	(lbs.)	PART NUMBER	PRICE
	(inches)	(millimeters)					
CP130-2MT	1/32 - 1/2	1-13	2MT	7,000	2.3	73010	\$357
CP130-3MT	1/32 - 1/2	1-13	3MT	7,000	2.6	73020	359
CP130-4MT	1/32 - 1/2	1-13	4MT	7,000	3.3	73030	379
CP130-R8	1/32 - 1/2	1-13	R8	7,000	2.6	73040	393
CP130-5/8	1/32 - 1/2	1-13	5/8" SS	7,000	2.2	73050	356
CP160-2MT	1/8 - 5/8	3-16	2MT	4,000	2.9	73060	396
CP160-3MT	1/8 - 5/8	3-16	3MT	4,000	3.3	73070	399
CP160-4MT	1/8 - 5/8	3-16	4MT	4,000	4.0	73080	419
CP160-R8	1/8 - 5/8	3-16	R8	4,000	4.2	73090	432



FOR CARBIDE AND HARDENED-SHANK DRILLS

Classic Plus Keyless Drill Chucks with Integral Shank and Diamond-Coated Jaws

CHUCK MODEL	CAPACITY		SHANK TYPE	MAXIMUM RPM	WEIGHT (lbs.)	PART NUMBER	PRICE
	(inches)	(millimeters)					
CPD130-2MT	1/32 - 1/2	1-13	2MT	7,000	2.3	73110	\$508
CPD130-3MT	1/32 - 1/2	1-13	3MT	7,000	2.6	73120	518
CPD130-4MT	1/32 - 1/2	1-13	4MT	7,000	3.3	73130	532
CPD130-R8	1/32 - 1/2	1-13	R8	7,000	2.6	73140	540
CPD130-5/8	1/32 - 1/2	1-13	5/8" SS	7,000	2.2	73150	507

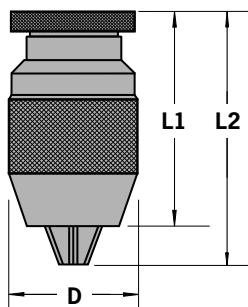
CLASSIC KEYLESS DRILL CHUCKS



- Available in the following styles:
 - Standard
 - Thru-hole
 - Diamond-coated jaws
- Keyless operation
- Self-tightening design (See Page 169)
- Balanced
- Thru-hole models are great for EDM applications and also allow the use of longer drills
- Models with diamond-coated jaws effectively grip carbide-shank drills (see page 169)
- Threaded-mount models available upon request

Albrecht Classic Keyless Drill Chucks – All Models

CHUCK MODEL	CAPACITY		CHUCK MOUNT	CLASSIC KEYLESS DRILL CHUCK No Thru Hole		CLASSIC KEYLESS DRILL CHUCK with Thru Hole		CLASSIC KEYLESS DRILL CHUCK with Diamond Jaws	
	(inches)	(millimeters)		PART NUMBER	PRICE	PART NUMBER	PRICE	PART NUMBER	PRICE
15-J0	0* - 1/16	0*-1.5	J0	70010	\$291	73500	\$302	-	-
30-J0	0* - 1/8	0*-3	J0	70020	236	73510	251	70220	\$377
30-J1	0* - 1/8	0*-3	J1	70030	236	73520	251	70230	377
50-J1	0* - 3/16	0*-5	J1	70040	238	73530	254	-	-
65-J1	0* - 1/4	0*-6.5	J1	70050	256	73540	271	70250	408
80-J2	0* - 5/16	0*-8	J2	70060	274	73550	291	-	-
100-J33	0* - 3/8	0*-10	J33	70070	291	73560	303	-	-
100-J2	0* - 3/8	0*-10	J2	70080	291	73570	303	-	-
130-J33	1/32 - 1/2	1-13	J33	70090	322	73580	339	70290	470
130-J2	1/32 - 1/2	1-13	J2	70100	322	73590	339	-	-
130-J6	1/32 - 1/2	1-13	J6	70110	322	73600	339	70300	470
160-J6	1/8 - 5/8	3-16	J6	70120	364	73610	379	-	-



Classic Keyless Drill Chuck Specifications

CHUCK MODEL	CAPACITY		DIMENSIONS			RPM	MAXIMUM WEIGHT (lbs.)
	(inches)	(millimeters)	D	L1	L2		
15	0* - 1/16	0*-1.5	0.75	1.38	1.50	50,000	0.1
30	0* - 1/8	0*-3	1.00	1.75	1.88	35,000	0.2
50	0* - 3/16	0*-5	1.19	2.25	2.44	25,000	0.5
65	0* - 1/4	0*-6.5	1.38	2.44	2.69	20,000	0.7
80	0* - 5/16	0*-8	1.50	2.75	3.06	15,000	1.0
100	0* - 3/8	0*-10	1.69	3.13	3.63	12,000	1.4
130	1/32 - 1/2	1-13	2.00	3.56	4.06	7,000	2.1
160	1/8 - 5/8	3-16	2.25	3.75	4.31	4,000	2.8

Note: Run at maximum RPM only with Albrecht Arbors or when direct mounting to high-speed spindle.

* The inherent design characteristics of a keyless drill chuck may prevent the jaws from closing down to absolute zero. Albrecht guarantees a minimum gripping diameter of 0.005" for Model 15 Classic Drill Chucks, and 0.015" for Models 30 - 100 Classic Drill Chucks. If you need to grip a smaller diameter, please contact us at 1-800-468-3008.

STAINLESS STEEL KEYLESS DRILL CHUCKS



- Albrecht is the world's largest manufacturer of stainless steel keyless drill chucks, supplying virtually all of the large medical device companies throughout North America, Europe, and Asia
- Our stainless steel drill chucks are specifically designed for surgical applications. Available features include:
 - Models with special hood surface-contouring to maximize grip when wearing gloves even if wet
 - A one-piece collar that eliminates crevices where foreign matter can collect
 - A ratcheting locking mechanism to prevent accidental opening



Stainless Steel Classic Keyless Drill Chucks

CHUCK MODEL	CAPACITY		CHUCK MOUNT	DIAMETER		MAXIMUM RPM	THRU-HOLE		WEIGHT	PRICE
	(inches)	(mm)		(inches)	(mm)		(lbs.)	PART NUMBER		
CS30-3/8	0* - 1/8	0* - 3	3/8 - 24	3/32	3	7,500	0.3	73700	\$447	
CS50-3/8	1/32 - 1/4	0.6 - 7.4	3/8 - 24	5/32	4	5,000	0.5	73710	479	

- All stainless steel chucks have thru-holes
- Keyless operation
- Self-tightening design (See Page 169)
- Balanced

Please note – the chucks featured in the chart are just a sample of what we can offer. Please contact one of our applications engineers at 1-800-468-3008 to discuss your specific needs.

ARBORS

- Manufactured from high-grade alloy steels
- Hardened for long life
- Ground concentric within 0.0001"



- Guarantee: If an Albrecht chuck ever slips on an Albrecht arbor, we will repair or replace them at no charge



Morse Taper

SHANK TAPER	CHUCK TAPER	PART NUMBER	PRICE
0 MT	J1	70503	\$25
1 MT	J1	70514	25
1 MT	J2	70515	25
1 MT	J33	70518	25
1 MT	J6	70521	25
2 MT	J0	70524	25
2 MT	J1	70527	25
2 MT	J2	70530	25
2 MT	J33	70533	25
2 MT	J6	70536	25
3 MT	J1	70542	32
3 MT	J2	70545	32
3 MT	J33	70548	32
3 MT	J6	70551	32
4 MT	J2	70554	48
4 MT	J33	70557	48
4 MT	J6	70560	48



Straight Shank

SHANK DIAMETER	SHANK LENGTH	CHUCK TAPER	PART NUMBER	PRICE
3/8"	2 1/2"	J0	70580	\$38
3/8"	2 1/2"	J1	70583	40
1/2"	2 1/2"	J0	70586	38
1/2"	2 1/2"	J1	70589	40
1/2"	2 1/2"	J2	70592	48
1/2"	2 1/2"	J33	70595	62
1/2"	2 1/2"	J6	70598	67
5/8"	2 1/2"	J1	70601	41
5/8"	2 1/2"	J2	70604	48
5/8"	2 1/2"	J33	70607	62
5/8"	2 1/2"	J6	70610	67
3/4"	3"	J1	70613	43
3/4"	3"	J2	70616	50
3/4"	3"	J6	70619	69
1"	3"	J2	70622	51
1"	3"	J33	70625	65
1"	3"	J6	70628	70



R8 Taper

CHUCK MOUNT	PART NUMBER	PRICE
J1	70650	\$68
J2	70653	68
J6	70656	68
J33	70659	68

ACCESSORIES

SENSITIVE DRILL FEEDS

- Makes drilling of small holes easy by giving operator fingertip feed control independent of coarser quill feed
- Eliminates the need for special machines to drill small holes
- Reduces breakage and deflection of small drills

Simple to use:

1. Grasp free-turning knurled ring and feed with gentle finger pressure.
2. Spring-loaded. When ring is released, chuck retracts automatically.



Note: Spring is specifically balanced for use with model 15-J0. The use of other chucks could result in decreased accuracy and performance.

SHANK	TAPER	PART NUMBER	PRICE
1 Morse Taper	J0	70670	\$333
1/2" Diameter	J0	70675	305

CHUCK REMOVAL TOOLS

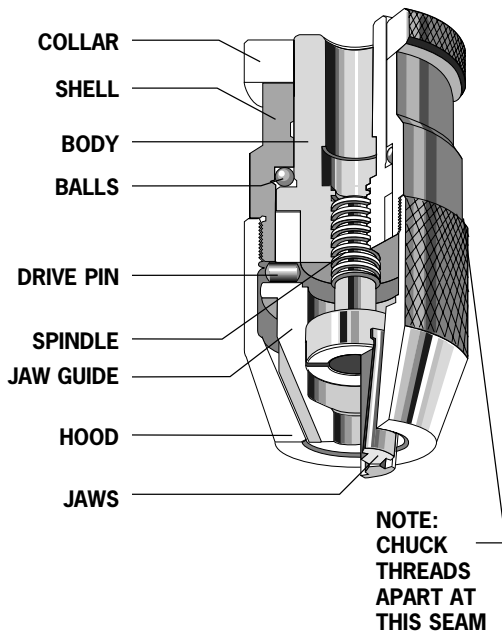
- Tapered chuck removal tool can be used to remove the chucks from their mounts
- Simply match the Jacobs taper on the chuck to the corresponding tool

CHUCK MOUNT	PART NUMBER	PRICE
J0	70678	\$50
J1	70680	72
J2	70682	77
J33	70682	77
J6	70682	77



CHUCK REFURBISHING

Send It In or Do It Yourself



Many customers refurbish their own chucks by following these simple instructions. If you have questions regarding the refurbishing process, please call one of our applications engineers at 1-800-468-3008, or visit www.albrechtchucks.com.

- Remove collar from chuck
- There is an invisible seam between the hood and shell. Hold chuck by the shell in a vise with soft jaws and loosen hood with a strap wrench – RH thread
- Once hood has been loosened, unscrew by hand to prevent distortion
- Slide jaws out of jaw guide and remove guide
- Remove body and spindle assembly to expose balls
- Clean all parts with a mild solvent
- Replace worn or damaged parts
- Reverse steps for assembly

Caution – do not lubricate acme thread on body/spindle assembly. Thread must be clean and dry for chuck to work correctly.

If you prefer to send your chucks back to our factory for refurbishing, please send them to the address listed in this catalog. Be sure to include your name, telephone number, and either a fax number or email address so we can send you a free, no-obligation quotation. If our technicians determine that a chuck is beyond reasonable refurbishing condition, you will be offered a brand new Albrecht chuck at a discounted price.

REPLACEMENT PARTS

Classic Keyless Chucks

CHUCK MODEL	BODY & SPINDLE ASSEMBLY		JAWS		HOOD		BALLS (Set)		COLLAR		SHELL		JAW GUIDE		DRIVE PIN	
	PART NUMBER	PRICE	PART NUMBER	PRICE	PART NUMBER	PRICE	PART NUMBER	PRICE	PART NUMBER	PRICE	PART NUMBER	PRICE	PART NUMBER	PRICE	PART NUMBER	PRICE
C15-J0	70796	\$61	70700	76	70716	\$38	70732	\$12	70748	\$43	70764	\$47	70780	\$51	71002	\$1
C30-J0	70798	48	70702	55	70718	38	70734	8	70750	21	70766	32	70782	48	71004	1
C30-J1	70800	48	70702	55	70718	38	70734	8	70750	21	70766	32	70782	48	71004	1
C50-J1	70802	49	70704	57	70720	38	70736	8	70752	21	70768	33	70784	50	71006	1
C65-J1	70804	53	70706	62	70722	41	70738	8	70754	22	70770	36	70786	53	71008	1
C80-J2	70806	64	70708	62	70724	46	70740	8	70756	22	70772	38	70788	55	71010	1
C100-J33	70808	68	70710	65	70726	51	70742	8	70758	23	70774	41	70790	57	71012	1
C100-J2	70810	68	70710	65	70726	51	70742	8	70758	23	70774	41	70790	57	71012	1
C130-J33	70812	68	70712	71	70728	68	70744	12	70760	23	70776	47	70792	60	71014	1
C130-J2	70814	68	70712	71	70728	68	70744	12	70760	23	70776	47	70792	60	71014	1
C130-J6	70816	68	70712	71	70728	68	70744	12	70760	23	70776	47	70792	60	71014	1
C160-J6	70818	76	70714	79	70730	76	70746	12	70762	25	70778	55	70794	66	71016	1

Classic-Plus Chucks

CHUCK MODEL	BODY & SPINDLE ASSEMBLY		JAWS		HOOD		BALLS (Set)		COLLAR		SHELL		JAW GUIDE		DRIVE PIN	
	PART NUMBER	PRICE	PART NUMBER	PRICE	PART NUMBER	PRICE	PART NUMBER	PRICE	PART NUMBER	PRICE	PART NUMBER	PRICE	PART NUMBER	PRICE	PART NUMBER	PRICE
CP130-2MT	73250	\$103	70712	\$71	70728	68	73220	\$12	73210	\$23	73200	\$47	70792	\$60	71014	\$1
CP130-3MT	73260	113	70712	71	70728	68	73220	12	73210	23	73200	47	70792	60	71014	1
CP130-4MT	73270	125	70712	71	70728	68	73220	12	73210	23	73200	47	70792	60	71014	1
CP130-5/8	73290	92	70712	71	70728	68	73220	12	73210	23	73200	47	70792	60	71014	1
CP130-R8	74040	131	70712	71	70728	68	73220	12	73210	23	73200	47	70792	60	71014	1
CP160-2MT	74044	113	70714	79	70730	76	70747	12	70763	24	73205	55	70794	66	71016	1
CP160-3MT	74042	113	70714	79	70730	76	70747	12	70763	24	73205	55	70794	66	71016	1
CP160-4MT	74041	127	70714	79	70730	76	70747	12	70763	24	73205	55	70794	66	71016	1
CP160-R8	74043	142	70714	79	70730	76	70747	12	70763	24	73205	55	70794	66	71016	1