

ALBRECHT
überchuck



ÜBERCHUCK **HIGH PERFORMANCE** **MILLING CHUCKS**



100 Years of Innovation

For more than 100 years, the name Albrecht has been synonymous with innovation and quality. In 1908, the Joseph Albrecht Bohrfutterfabrik GmbH & Co. was founded in Stuttgart, Germany, as a manufacturer of precision drill chucks. In 1932, Albrecht developed the Classic Keyless Drill Chuck, a product that would become widely regarded by metalworking professionals as the most consistently accurate drill chuck available anywhere in the world.

As manufacturing technology advanced over the years, Albrecht's engineers kept ahead of the curve — continuously developing new products specifically designed to maximize machine tool performance. Today, Albrecht's most advanced product — **the Überchuck High Performance Milling Chuck, is revolutionizing CNC machining.** With unmatched accuracy, rigidity, and vibration-dampening capabilities, the Albrecht Überchuck plays a key role in helping manufacturers squeeze every last drop of performance out of their machine tools.

If you are serious about maximizing your company's productivity and profits, take advantage of Albrecht's exclusive risk-free performance guarantee and try an Überchuck Milling Chuck today. We guarantee you'll be impressed.

ALBRECHT
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UPC CODE NUMBER=662636+5-DIGIT CATALOG NUMBER



ALBRECHT ÜBERCHUCK MILLING CHUCK

The World's Most Advanced Tool Holder

The Albrecht Überchuck Milling Chuck offers **the ultimate in accuracy, rigidity, and vibration-dampening technology.**

Maximize throughput, increase tool life, and push your machine tools to their peak performance levels with Albrecht Überchuck.

One Tool Holder Does It All

**Heavy-Duty
Roughing**

**Precision
Finish Milling**

**High-Speed
Cutting**

Hard Milling



Mold Making

Tapping

Drilling

Reaming

HOW CAN THE ALBRECHT ÜBERCHUCK DO WHAT OTHER TOOL HOLDERS CAN'T?

ALBRECHT
überchuck

Ultra-Precision Accuracy

All Überchuck Milling Chucks are guaranteed to run within **0.00012" TIR or better at 2.5 x diameter**. High accuracy is important not only for part quality, but also because it ensures that cutting tools stay on centerline, distributing the chip load evenly and significantly extending tool life.

Versatile

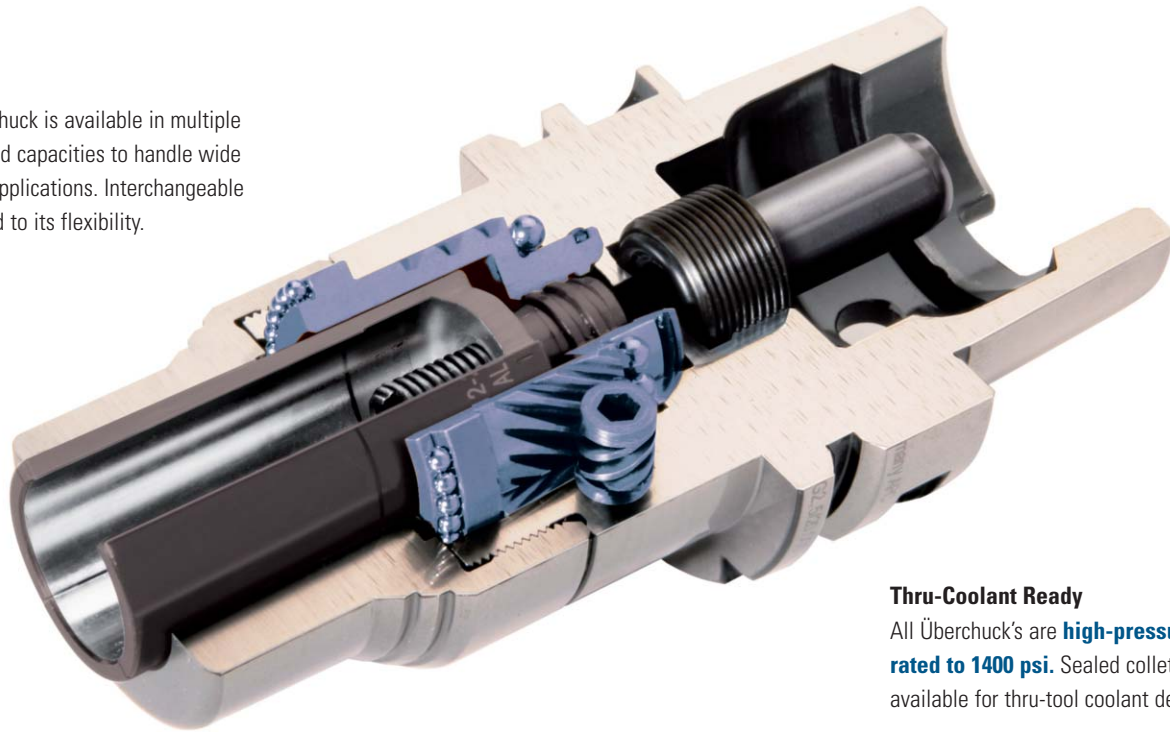
The Überchuck is available in multiple lengths and capacities to handle wide range of applications. Interchangeable collets add to its flexibility.

Outstanding Rigidity and Dampening

Carefully optimized expansion tolerances and unique vibration-dampening capabilities provide smoother part finishes and up to a 60% increase in cutting tool life.

High-Speed Balanced

Most Überchuck Milling Chucks are dynamically balanced to G2.5@20,000 rpm for high speed operation. (Note: KM & CAPTO models balanced to G6.3@15,000 rpm, HSK-63 Form F balanced to G2.5 @ 24,000 rpm).



Wide Gripping Range

Model-14 1/8" – 9/16"
Model-20 1/8" – 3/4"
Model-25 5/8" – 1-1/4"

Unique Collets

A proprietary surface coating enables easy loosening and fast collet changes. Collets are available in both inch and metric sizes and include a depth stop screw for precise length adjustment of the cutting tool. **Exclusive Pin-Lock™ feature eliminates risk of tool pullout.**

Thru-Coolant Ready

All Überchuck's are **high-pressure rated to 1400 psi**. Sealed collets are available for thru-tool coolant delivery.

Fast, Easy Tool Changes

Changing or adjusting a cutting tool in the Überchuck takes just a few seconds with the simple turn of a hex key. There are no costly induction heaters or hydraulic presses to hassle with. For an even better solution, see below.

Foolproof Tightening

Many Überchuck users purchase our specially designed torque wrench to ensure optimal and perfectly consistent tightening of the collet. The ergonomic handle, pre-set torque limiter, and full-power release mechanism takes all of the guesswork out of collet/tool changes. **Simplify operations and maximize performance** with the Albrecht Überchuck torque wrench.



Big Benefit #1 Incredible Gripping Torque

The Albrecht Überchuck is a revolutionary tool holder that utilizes a patented two-stage clamping mechanism to produce extremely high gripping torque on the cutting tool. Gripping torque is the rotational force that acts against cutting tool slippage.

Here's How It Works:

Stage 1

A hex key rotates the worm, which drives a precision gear. The mechanical advantage achieved by this worm/gear assembly is much greater than that of a direct-drive system.

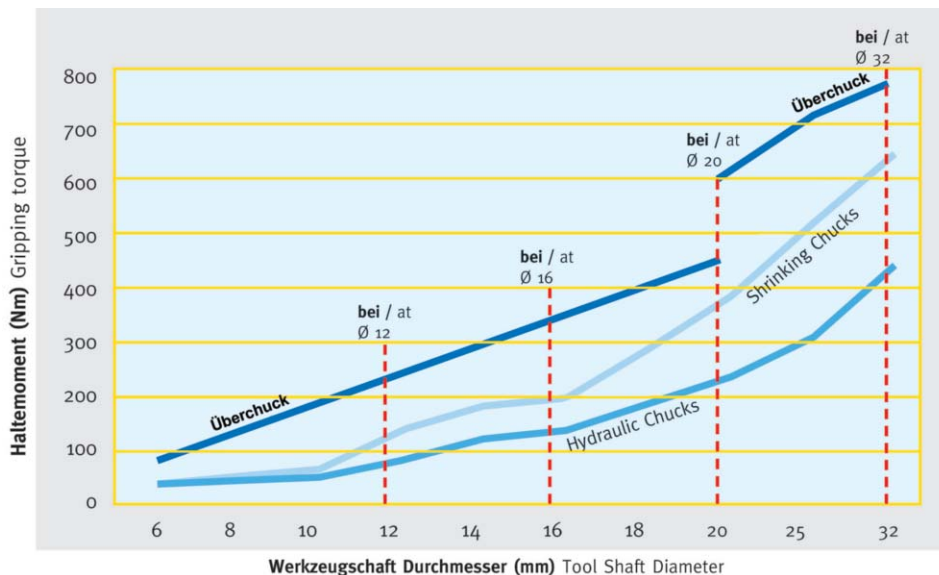
Stage 2

A specially coated slow-taper collet is threaded into the gear, so as the gear rotates the collet is pulled back into the body of the Überchuck. The angle between the collet and Überchuck body conforms to the Morse Taper standard, producing a near-perfect locking interface between the two components.

The torque achieved through the combination of these two mechanisms is truly amazing – significantly exceeding that of other commonly used systems. See graph below for test results.



Überchuck Gripping Torque Comparison



Example

Tool Diameter = 12 mm (1/2")

Gripping Torque Achieved:
Hydraulic ≈ 80 Nm
Heat Shrink ≈ 150 Nm
Überchuck ≈ 200+ Nm

Results You Can See



The gripping torque of the Überchuck is so awesome, we designed and built a special display so potential customers would be able to experience its power firsthand. The display consists of a fixed CAT-40 spindle rigidly mounted to a structural steel frame, which is then bolted to a heavy steel base. The CAT-40 spindle holds a Model-25 Überchuck with a 1.25" diameter collet.

To simulate a typical cutting tool, we manufactured a hardened and ground shaft with a 1.25" O.D. and a one-inch hex on one end. This "cutting tool" is gripped in the Überchuck, and a four-foot long torque wrench with a 1" socket is used to engage the hex. The torque wrench is set to click at approximately 600 ft.-lbs.

To experience the Überchuck's gripping power, a person stands on the base and applies downward pressure to the end of the torque wrench. Because of the long length of the wrench, most people are able to push down with enough force to achieve the full 600 ft.-lbs. of torque. To everyone's amazement, the torque wrench clicks at this point, yet there is absolutely zero slippage of the "cutting tool" in the collet.

Experience the Incredible Gripping Torque of the Albrecht Überchuck Yourself

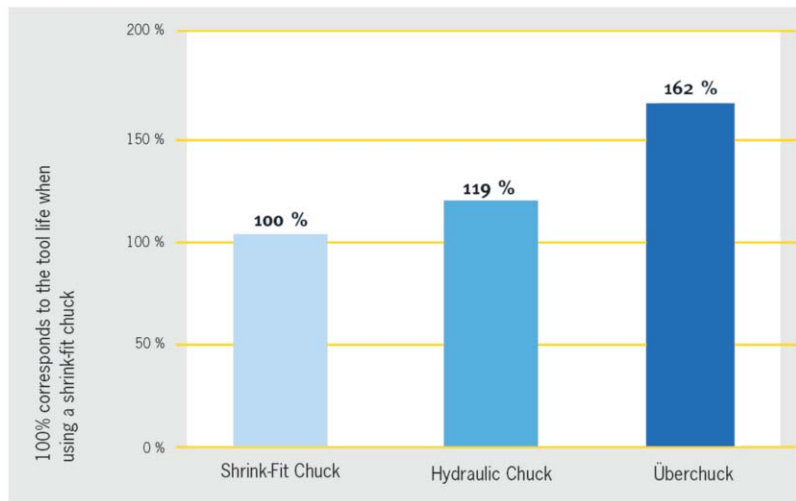
Big Benefit #2

Longer Tool Life

In independent testing, **cutting tool life increased by as much as 60%** when using the Überchuck (compared to shrink-fit and hydraulic chucks). The accuracy, rigidity, and vibration dampening capabilities of the Albrecht Überchuck enable the use of the latest, most aggressive cutting tools on the market.

Material	AISI L6
Process	Milling
Operation	Finishing
Cutting Material	HM (hard metal)
Coating	TiAlN
Endmill Diameter	12 mm (.472)
Number of Flutes	6

Width of Cut	1.2 mm (.047)
Depth of Cut	18 mm (.709)
Cutting Speed	97m/min (318 ft/min)
RPM	2584
Chip Load	.110 mm (.0043)
Feed Rate	1698 mm/min (66.9 in/min)
Tool Life	110 m (360 ft.)



Data based on a study performed at University – FH-Offenburg, Germany, Professor Dr. Herbert Schonherr

Many Customers Have Experienced Such a Significant Improvement in Cutting Tool Life That the Savings Have Paid for the Überchuck!

Big Benefit #3

Excellent Rigidity & Vibration Dampening

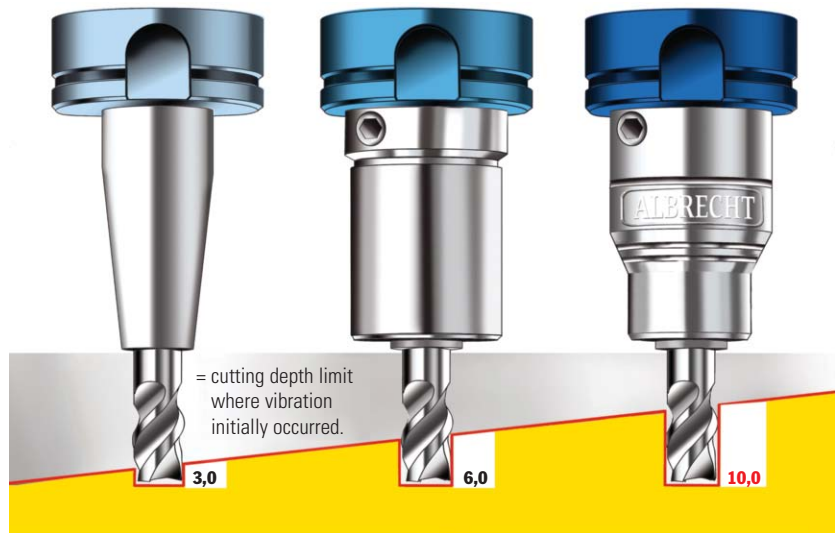
The performance of a tool holder depends upon both its rigidity and its ability to dampen vibration. The illustration below represents the results of an independent test comparing the maximum depth of cut that various holders were able to achieve up to the point where chatter began to occur. As the results show, the extreme rigidity and vibration dampening ability of the Albrecht Überchuck allows for **much more aggressive cutting** and optimal machine tool performance.

Machine	Deckel Maho 64V
Taper	HSK 63
Material	Steel CK45
Tool Diameter	10mm, z=3
Parameters	n = 5412 rpm fz = 0.06mm vf = 974 mm/min ae = 100%

Heat-Shrink System
- High Rigidity

Hydraulic Chuck
- Positive Dampening

Albrecht Überchuck
- High Rigidity
- Positive Dampening



Data based on a study performed at University – Ulm, Germany, Professor Dr.-Ing. M. Kaufeld

Big Benefit #4

Risk-Free Performance Guarantee

Risk-Free Performance Guarantee

The Überchuck Milling Chuck carries Albrecht's exclusive risk-free performance guarantee. This guarantee enables you to try an Überchuck on the toughest applications in your shop for 30 days, and if you aren't completely delighted with its performance, we will take it back and arrange to have your distributor issue full credit.

Some conditions apply. Please contact Albrecht, Inc. for further details.



ÜBERCHUCK MILLING CHUCKS – 0.0001" TIR



CAT-40 Taper

ÜBERCHUCK MODEL	CAPACITY		TYPE	GAGE LENGTH A	D3	D2	D1	L1	L2	L3	L4	PART NUMBER ²	PRICE ²
	(inches)	(millimeters)											
APC-14	1/8 – 9/16	3 – 14	S	2.46	–	1.75	1.18	0.53	0.87	1.71	–	74330	\$428
APC-14	1/8 – 9/16	3 – 14	C	7.05	–	1.97	1.18	3.35	4.06	6.30	–	74312	627
APC-20	1/8 – 3/4	3 – 20	S	2.48	–	1.97	1.57	0.79	1.12	1.73	–	74702	428
APC-25	5/8 – 1 1/4	16 – 32	S	4.02	–	–	2.48	3.27	–	–	–	74706	549

CAT-50 Taper

ÜBERCHUCK MODEL	CAPACITY		TYPE	GAGE LENGTH A	D3	D2	D1	L1	L2	L3	L4	PART NUMBER ²	PRICE ²
	(inches)	(millimeters)											
APC-14	1/8 – 9/16	3 – 14	S	3.07	2.76	1.97	1.18	0.43	1.12	1.69	2.32	74306	\$624
APC-14	1/8 – 9/16	3 – 14	C	6.46	2.76	1.97	1.18	3.35	4.06	5.08	5.71	74313	732
APC-20	1/8 – 3/4	3 – 20	A	3.07	2.76	1.97	1.57	0.79	1.12	2.32	–	74310	592
APC-20	1/8 – 3/4	3 – 20	S	2.46	–	2.48	1.57	0.71	1.50	–	–	74712	592
APC-25	5/8 – 1 1/4	16 – 32	S	4.02	–	–	2.76	3.27	–	–	–	74714	659

BT-30 Taper

ÜBERCHUCK MODEL	CAPACITY		TYPE	GAGE LENGTH A	D3	D2	D1	L1	L2	L3	L4	PART NUMBER ²	PRICE ²
	(inches)	(millimeters)											
APC-14	1/8 – 9/16	3 – 14	S	3.23	–	1.97	1.18	0.43	1.12	2.36	–	74299	\$509
APC-20	1/8 – 3/4	3 – 20	A	3.23	–	1.97	1.57	0.79	1.12	2.36	–	74329	509

BT-40 Taper

ÜBERCHUCK MODEL	CAPACITY		TYPE	GAGE LENGTH A	D3	D2	D1	L1	L2	L3	L4	PART NUMBER ²	PRICE ²
	(inches)	(millimeters)											
APC-14	1/8 – 9/16	3 – 14	S	2.78	–	1.97	1.18	0.43	1.12	1.71	–	74708	\$495
APC-20	1/8 – 3/4	3 – 20	A	3.23	–	1.97	1.57	0.79	1.12	2.17	–	74311	495
APC-20	1/8 – 3/4	3 – 20	S	2.78	–	2.48	1.57	0.71	1.50	–	–	74716	495
APC-25	5/8 – 1 1/4	16 – 32	S	4.31	–	–	2.48	3.27	–	–	–	74718	549

HSK-63, Forms A & F

ÜBERCHUCK MODEL	CAPACITY		TYPE	FORM	GAGE LENGTH A	D3	D2	D1	L1	L2	L3	L4	PART NUMBER ²	PRICE ²
	(inches)	(millimeters)												
APC-14	1/8 – 9/16	3 – 14	C	Form A	7.01	–	1.97	1.18	3.35	4.06	5.98	–	74290	\$726
APC-20	1/8 – 3/4	3 – 20	A	Form A	3.62	–	1.97	1.57	0.79	1.12	2.60	–	74295	587
APC-20	1/8 – 3/4	3 – 20	A	Form F*	3.62	–	1.97	1.57	0.79	1.12	2.60	–	74221	663
APC-25	5/8 – 1 1/4	16 – 32	S	Form A	5.18	–	–	2.48	4.17	–	–	–	74723	684

¹Balanced to 24,000 rpm for high-speed CNC router applications.

COROMANT CAPTO³ – C5 & C6

ÜBERCHUCK MODEL	CAPACITY		TYPE	FORM	GAGE LENGTH A	D3	D2	D1	L1	L2	L3	L4	PART NUMBER ²	PRICE ²
	(inches)	(millimeters)												
APC-20	1/8 – 3/4	3 – 20	A	Form C5	2.95	–	1.97	1.57	0.79	1.12	1.69	–	74218	\$843
APC-20	1/8 – 3/4	3 – 20	S	Form C6	3.15	–	2.48	1.57	0.71	1.50	–	–	74222	843

KM-63⁴ XMZ Taper

ÜBERCHUCK MODEL	CAPACITY		TYPE	GAGE LENGTH A	D3	D2	D1	L1	L2	L3	L4	PART NUMBER ²	PRICE ²
	(inches)	(millimeters)											
APC-14	1/8 – 9/16	3 – 14	C	5.04	–	1.97	1.18	2.40	3.07	4.33	–	74219	\$1,119
APC-20	1/8 – 3/4	3 – 20	A	3.07	–	1.97	1.57	0.79	1.12	2.36	–	74220	1,067

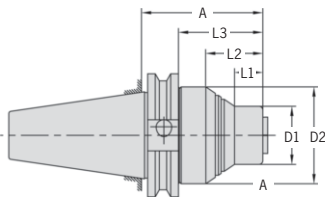
¹No safety zone. Contact Albrecht for info.

²Tightening tool not included – order separately.

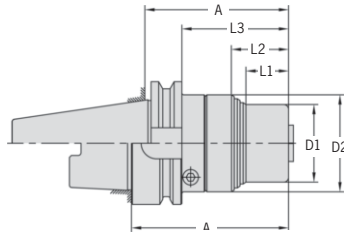
³COROMANT CAPTO is a registered trademark of Sandvik AB Corporation.

⁴KM is a registered trademark of Kennametal Corporation.

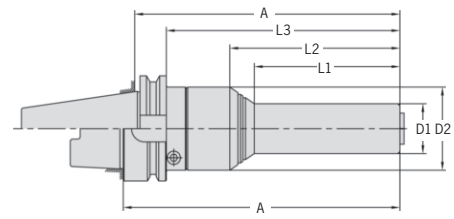
ÜBERCHUCK DIMENSIONS



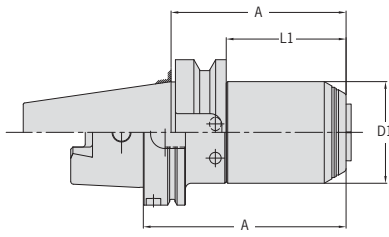
TYPE S



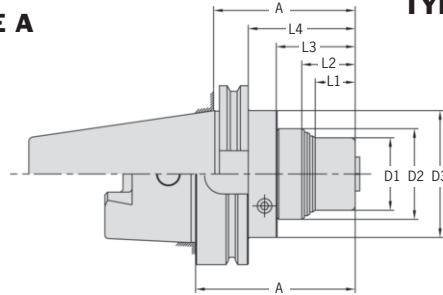
TYPE A



TYPE C



MODEL 25



CAT 50 MODEL 14-S&C

ÜBERCHUCK TIGHTENING TOOL

- Unlike other systems that require the use of costly induction heaters or hydraulic presses, the Albrecht Überchuck is operated with a simple torque wrench (sold separately).
- This ergonomic tool features an oversized handle and is preset to the optimum tightening spec.
- An audible “click” indicates when the proper torque has been reached, ensuring accurate, consistent tightening time after time.
- Full power in the reverse direction enables easy loosening of the collet.
- Guide tube ensures full engagement with worm for maximum force transmission.



Überchuck Tightening Tool

PART NUMBER	PRICE
74399	\$314

TAPER WIPERS



- For maximum gripping torque, the contact surfaces between the collet and Überchuck should remain clean and dry.
- Taper wipers accomplish this task and are available for all three Überchuck models.

Taper Wipers

ÜBERCHUCK MODEL	PART NUMBER	PRICE
APC-14	74300	\$40
APC-20	74302	45
APC-25	74301	116

ÜBERCHUCK COLLETS

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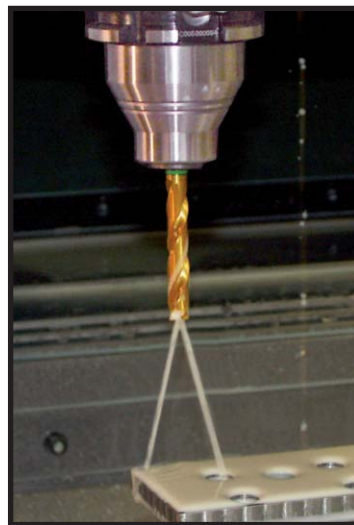
NEW



- All Überchuck collets create a locking tapered fit with the holder. Their 3° included angle is similar to that of the locking Morse Tapers found on live and dead centers.
- A special surface coating on the collet increases wear-resistance and reduces friction, resulting in higher gripping torque while enabling fast, easy tool changes.
- A **deep throat and long, ground gripping surface** produces superior accuracy and rigidity.
- Sealed collets are available for use with thru-coolant cutting tools. Note – slight reduction in grip force with sealed collets.
- Überchuck sealed collets can be used with high pressure coolant systems up to 1400 psi.
- An internal stop screw allows for **precise presetting of the cutting tool length**.



Standard Collet – coolant is delivered through the slots.



Sealed Collet – coolant is delivered through the tip of the cutting tool.

Model-14 Überchuck Collets

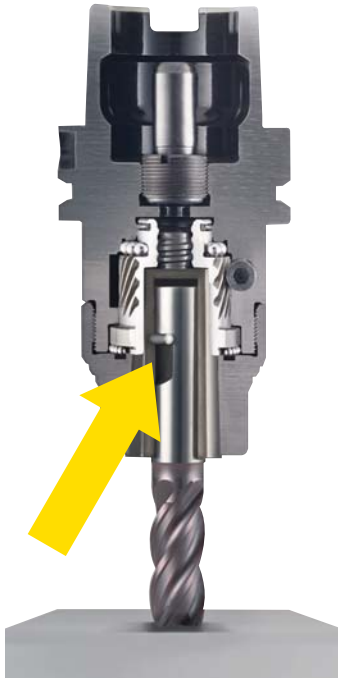
DIAMETER	MAX THROAT DEPTH	STANDARD COLLETS		SEALED COLLETS	
		PART NUMBER	PRICE	PART NUMBER	PRICE
1/8"	1.10	74303	\$118	74503	\$144
3/16"	1.10	74304	118	74504	144
1/4"	1.42	74316	118	74516	144
5/16"	1.42	74318	118	74518	125
3/8"	1.57	74320	118	74520	125
7/16"	1.77	74322	118	74522	125
1/2"	1.77	74324	118	74524	125
9/16"	1.77	74326	118	74526	125
3mm	1.10	74340	118	74540	144
4mm	1.10	74342	118	74542	144
5mm	1.10	74344	118	74544	144
6mm	1.42	74346	118	74546	144
8mm	1.42	74348	118	74548	125
9mm	1.57	74350	118	74550	125
10mm	1.57	74352	118	74552	125
12mm	1.77	74354	118	74554	125
14mm	1.77	74356	118	74556	125

Model-20 Überchuck Collets

DIAMETER	MAX THROAT DEPTH	STANDARD COLLETS		SEALED COLLETS	
		PART NUMBER	PRICE	PART NUMBER	PRICE
1/8"	1.10	74357	\$118	74557	\$144
3/16"	1.10	74358	118	74558	144
1/4"	1.42	74362	118	74562	144
5/16"	1.42	74364	118	74564	125
3/8"	1.57	74366	118	74566	125
7/16"	1.77	74368	118	74568	125
1/2"	1.77	74370	118	74570	125
9/16"	1.77	74372	118	74572	125
5/8"	1.89	74374	118	74574	125
11/16"	1.89	74376	118	74576	125
3/4"	1.97	74378	118	74578	125
3mm	1.10	74383	118	74583	144
4mm	1.10	74385	118	74585	144
5mm	1.10	74386	118	74586	144
6mm	1.42	74387	118	74587	144
8mm	1.42	74388	118	74588	125
10mm	1.57	74389	118	74589	125
12mm	1.77	74390	118	74590	125
14mm	1.77	74392	118	74592	125
16mm	1.89	74394	118	74594	125
18mm	1.89	74396	118	74596	125
20mm	1.97	74398	118	74598	125

Model-25 Überchuck Collets

Now available with exclusive Pin-Lock™ safety feature. See page 147.



Exclusive Albrecht Pin-Lock™

- Completely **eliminates the risk of an end mill pulling out** during aggressive cutting operations.
- Ideal for all high-value jobs where a tool pullout could result in thousands of dollars in part damage (i.e. aerospace, mold making, etc.).
- Can be **used with any standard Weldon-Shank end mill** – no proprietary cutting tools to purchase.
- Albrecht Pin-Lock™ capability is standard on Überchuck Model-25 collets*.

Albrecht Pin-Lock™ –Simple, Quick, and Secure!

Here's How it Works:



1 – Insert the end mill into the collet, making sure the Weldon flat is aligned with the cross-drilled hole as shown.



2 – Use the insertion tool to push the locking pin into place.



3 – Using our pre-set torque driver, tighten the collet depth stop against the back of the end mill.

Model-25 Überchuck Collets with Exclusive Pin-Lock™ Feature*

DIAMETER	MAX THROAT DEPTH	STANDARD COLLETS		SEALED COLLETS	
		PART NUMBER	PRICE	PART NUMBER	PRICE
5/8"	1.89	74630	\$236	74830	\$243
3/4"	1.97	74634	236	74834	243
1"	2.20	74642	236	74842	243
1 1/4" **	2.32	74644	236	74844	243
16mm	1.89	74646	236	74846	243
20mm	1.97	74648	236	74848	243
22mm	1.97	74650	236	74850	243
25mm	2.20	74652	236	74852	243
32mm **	2.32	74654	236	74854	243

*Collets equipped with cross-drilled hole. Order Pin-Lock™ Set separately.

**Pin-Lock™ not available for 1-1/4" and 32mm diameters due to collet wall thickness.

Pin-Lock Set™

Includes pin, insertion tool, and pre-set torque driver***

DIAMETER	PART NUMBER	PRICE
5/8"	74732	\$159
3/4"	74734	159
1"	74742	159
16mm	74746	159
20mm	74748	159
22mm	74750	159
25mm	74752	159

***Note – Use of our pre-set torque driver is highly recommended to ensure maximum accuracy.

COMING SOON...

ALBRECHT
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Überchuck Grinding Chucks

Our engineers in Germany are continuously developing new solutions based upon the Überchuck platform. Their latest innovation is a line of holders designed specifically for applications involving the manufacturing or regrinding of drills and end mills:

- Outstanding dampening characteristics and superior rigidity combine to allow for much higher material removal rates over traditional hydraulic chucks.
- Tapered chuck nose and extended collets offer maximum grinding wheel clearance.
- Requires 40% fewer hex-key rotations than a hydraulic chuck for faster changeover.
- Unlike hydraulic chucks, accidental contact with a grinding wheel will not result in catastrophic failure.
- Same great ultra-precision accuracy as the standard Überchuck - 0.00012" TIR or better at 2.5 x diameter.
- If you're in the business of grinding endmills, you need to check this tool out!

Contact us at 1-800-468-3008 for additional information.

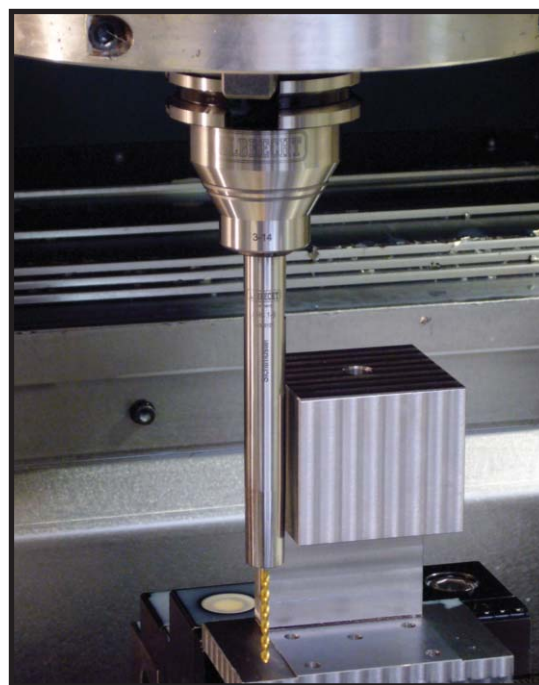
ÜBERCHUCK VIDEO



**Be sure to check out the humorous
Überchuck Christmas video at:**

www.uberchuck.com

MICRO-CHUCK EXTENSIONS



Albrecht Überchuck Milling Chuck with Micro-Chuck Extension

- Albrecht Micro-Chuck Extensions **provide access to hard-to-reach areas** that cannot be machined with standard tool holders.
- These precision extensions use highly accurate coated collets that are similar in design and performance to the Überchuck Milling Chuck collets.
- Model 74600 incorporates our model 15 keyless drill chuck with a capacity of 0.2–1.5 mm (0.008"–0.063").
- Accuracy of the Albrecht Micro-Chuck is guaranteed to 0.0003" TIR at 2.5 x diameter for the collet models, and 0.0012" TIR for the drill chuck model.
- Although Albrecht Micro-Chuck Extensions perform best when used in conjunction with Albrecht Überchuck Milling Chucks, they can also be used with other types of tool holders such as ER collet chucks.
- Note that the models 74602 and 74604 have 9/16" diameter shanks which enables them to be used with both the model 14 and 20 Überchucks.



Micro-Chuck Extensions

SHAFT DIAMETER	NOSE DIAMETER	OVERALL LENGTH	NOSE LENGTH	STYLE	CAPACITY		PART NUMBER	PRICE
					(inches)	(millimeters)		
9/16"	9/16"	4"	–	Collets	1/8 – 1/4	1–6	74602	\$449
9/16"	9/16"	6"	–	Collets	1/8 – 1/4	1–6	74604	473
3/4"	9/16"	4"	2"	Collets	1/8 – 1/4	1–6	74606	473
3/4"	1/2"	6"	2 5/8"	Collets	1/8 – 1/4	1–6	74608	494
5/8"	3/4"	6.3"	–	Drill Chuck	0.008–0.063	0.2–1.5	74600	353

Micro-Chuck Collets

DIAMETER	STANDARD COLLETS		SEALED COLLETS	
	PART NUMBER	PRICE	PART NUMBER	PRICE
1/8"	74610	\$150	74620	\$150
3/16"	74611	150	74621	150
1/4"	74612	150	74622	150
1 mm	74613	173	74623	173
2 mm	74614	173	74624	173
3 mm	74615	173	74625	173
4 mm	74616	150	74626	150
5 mm	74617	150	74627	150
6 mm	74618	150	74628	150

KEY-LOCK CNC DRILL CHUCKS



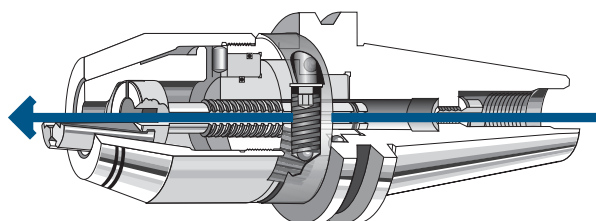
ALBRECHT

Quality Without Compromise

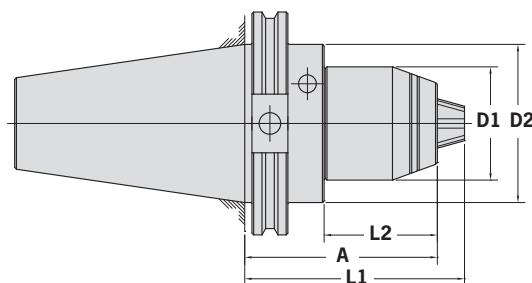
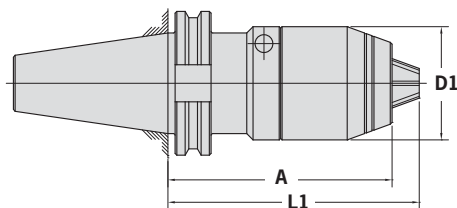


- New, compact design provides **increased capacity and better clearance.**
- Extremely accurate – Albrecht Key-Lock Drill Chucks are the most accurate drill chucks available.
- Unique worm/gear arrangement is similar to the Überchuck and transmits extremely high gripping force to the jaws.
- Short length and integral shank provide **exceptional rigidity.**
- Thru-coolant feature is standard on all Albrecht Key-Lock Drill Chucks.
- Non-rotating hood – chuck is opened and closed via a hex key inserted into the side of the body.
- Balanced for use on all CNC machines up to 7000 rpm (75408 balanced to 18,000 rpm).
- Can be operated in both clockwise and counterclockwise directions.

Thru-coolant feature is standard on all Key-Lock chucks.



The key-operated worm and gear assembly generates **very high grip force** and ensures that the chuck can't loosen during operation because a worm can drive a gear but a gear cannot drive a worm.



Key-Lock CNC Drill Chucks

CHUCK MODEL	CAPACITY		TAPER	A	L1	L2	D1	D2	PART NO.	PRICE
	(inches)	(millimeters)								
KL100-CAT40	1/64 – 3/8	0.5 – 10	CAT 40	2.72	3.39	1.48	1.50	1.75	75402	\$604
KL160-HSK 63 Form A	1/32 – 5/8	1 – 16	HSK 63 Form A	3.86	4.33	–	1.97	–	75403	612
KL160-HSK 63 Form F	1/32 – 5/8	1 – 16	HSK 63 Form F	3.86	4.33	–	1.97	–	75408	736
KL160-CAT40	1/32 – 5/8	1 – 16	CAT 40	3.90	4.37	–	1.97	–	75404	553
KL160-CAT50	1/32 – 5/8	1 – 16	CAT 50	3.31	3.78	1.93	1.97	2.76	75406	743

Note – Other tapers available. Please contact Albrecht at 1-800-468-3008.



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PRECISION KEYLESS DRILL CHUCKS

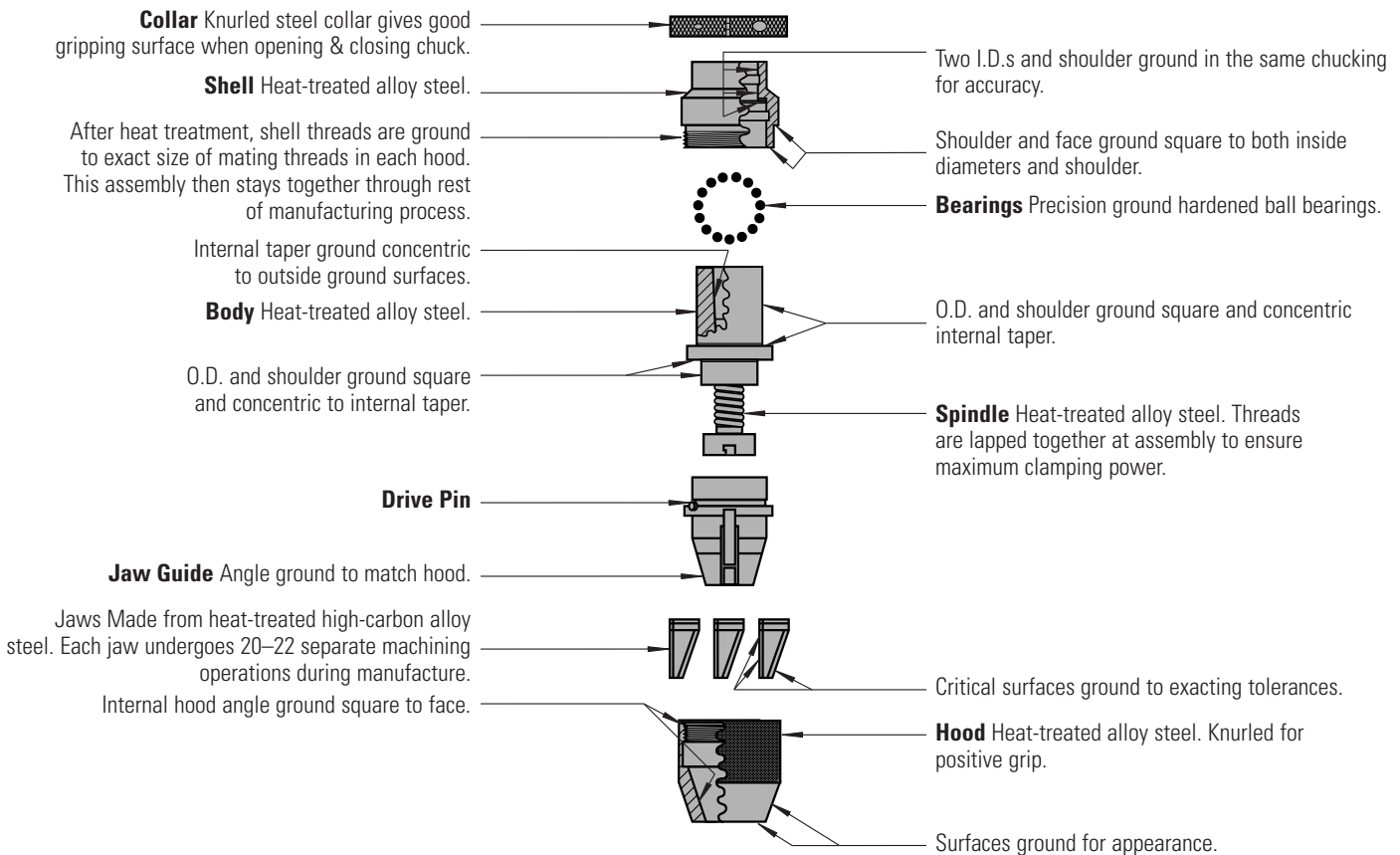


For the past 100 years, Albrecht's line of precision drill chucks has consistently earned the highest praise for **outstanding quality and accuracy**.

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



ALBRECHT

Quality Without Compromise



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 range. 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



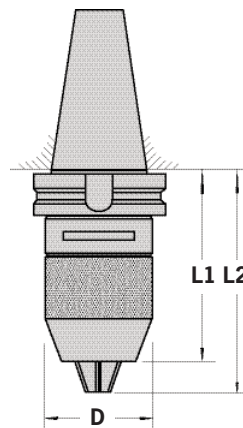
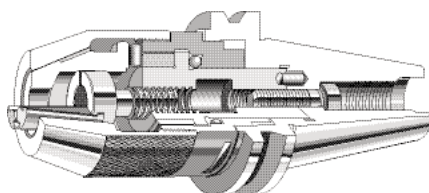
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- Internal construction is very similar to Albrecht Classic Drill Chucks.
- Integral CAT and BT shanks make these chucks shorter and more rigid than a chuck/arbor combination, resulting in:
 - Greater accuracy
 - Greater rigidity
 - Larger work envelope
- 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 153).

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 / ₂ "	4 ⁵ / ₈ "	5/8-11
160-CAT50	2 ¹ / ₄ "	4 ¹ / ₂ "	4 ⁵ / ₈ "	1-8
130-BT40	2"	3 ⁵ / ₈ "	4 ³ / ₂ "	M16



Wrench-Lock CNC Drill Chucks

CHUCK MODEL	CAPACITY		SHANK TYPE	MAXIMUM RPM	WEIGHT (lbs.)	PART NUMBER	PRICE
	(inches)	(millimeters)					
WL130-CAT40	1/32 - 1/2	1-13	CAT 40	6,500	4.6	77100	\$530
WL160-CAT40	1/16 - 5/8	1.5-16	CAT 40	6,500	5.1	77110	598
WL160-CAT50	1/16 - 5/8	1.5-16	CAT 50	6,500	6.2	77120	696
WL130-BT40	1/32 - 1/2	1-13	BT40	6,500	4.2	77160	530





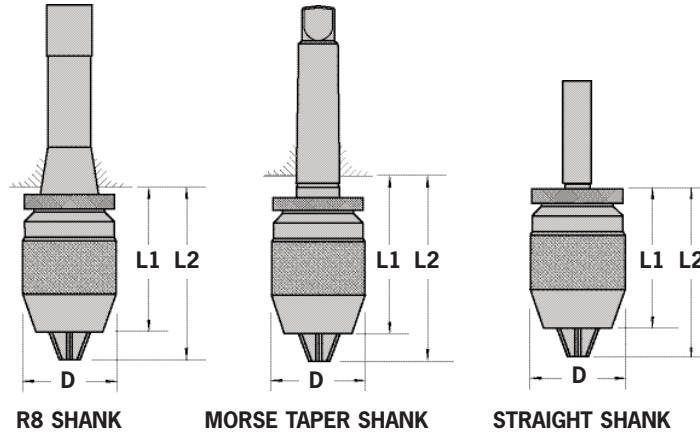
CLASSIC PLUS DRILL CHUCKS WITH INTEGRAL SHANK

Dimensions

- 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 153).
- Balanced.
- Available with standard or diamond-coated jaws (See Page 153).

CHUCK MODEL	D	L1	L2
130-2MT	2"	3 ³ / ₈ "	3 ³ / ₈ "
130-3MT	2"	3 ³ / ₈ "	3 ³ / 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		SHANK TYPE	MAXIMUM RPM	WEIGHT (lbs.)	PART NUMBER	PRICE
	(inches)	(millimeters)					
CP130-2MT	1/32 - 1/2	1 - 13	2MT	7,000	2.3	73010	\$413
CP130-3MT	1/32 - 1/2	1 - 13	3MT	7,000	2.6	73020	415
CP130-4MT	1/32 - 1/2	1 - 13	4MT	7,000	3.3	73030	438
CP130-R8	1/32 - 1/2	1 - 13	R8	7,000	2.6	73040	454
CP130-5/8	1/32 - 1/2	1 - 13	5/8"SS	7,000	2.2	73050	411
CP160-2MT	1/8 - 5/8	3 - 16	2MT	4,000	2.9	73060	458
CP160-3MT	1/8 - 5/8	3 - 16	3MT	4,000	3.3	73070	461
CP160-4MT	1/8 - 5/8	3 - 16	4MT	4,000	4.0	73080	484
CP160-R8	1/8 - 5/8	3 - 16	R8	4,000	4.2	73090	499



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	\$586
CPD130-3MT	1/32 - 1/2	1 - 13	3MT	7,000	2.6	73120	598
CPD130-4MT	1/32 - 1/2	1 - 13	4MT	7,000	3.3	73130	615
CPD130-R8	1/32 - 1/2	1 - 13	R8	7,000	2.6	73140	624
CPD130-5/8	1/32 - 1/2	1 - 13	5/8"SS	7,000	2.2	73150	585

CLASSIC KEYLESS DRILL CHUCKS



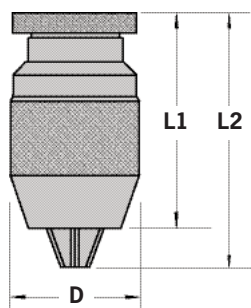
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- Available in the following styles:
 - Standard
 - Thru-hole
 - Diamond-coated jaws
- Keyless operation.
- Self-tightening design (See Page 153).
- Balanced.
- Thru-hole models are great for EDM applications and also allow the use of longer drills.
- Models with diamond-coated jaws effectively grip carbide-shank drills (see page 153).
- Threaded-mount models available upon request.

Classic Keyless Drill Chuck Specifications



CHUCK MODEL	CAPACITY		DIMENSIONS			MAXIMUM RPM	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
65	0* - 1/4	0* - 6.5	1.38	2.44	2.69	20,000	0.7
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

* 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 0.008" 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.

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	\$431	73500	\$439	-	-
30-J0	0* - 1/8	0* - 3	J0	70020	298	73510	298	-	-
30-J1	0* - 1/8	0* - 3	J1	70030	298	73520	298	-	-
65-J1	0* - 1/4	0* - 6.5	J1	70050	296	-	-	-	-
100-J33	0* - 3/8	0* - 10	J33	70070	337	-	-	-	-
100-J2	0* - 3/8	0* - 10	J2	70080	337	-	-	-	-
130-J33	1/32 - 1/2	1 - 13	J33	70090	372	-	-	70290	543
130-J2	1/32 - 1/2	1 - 13	J2	70100	372	-	-	-	-
130-J6	1/32 - 1/2	1 - 13	J6	70110	372	-	-	70300	543
160-J6	1/8 - 5/8	3 - 16	J6	70120	420	-	-	-	-



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.

New Ergon-Grip™



Albrecht developed the Ergon-Grip™ specifically for environments where the user wears surgical gloves. The specially designed hood and collar are optimized to provide maximum grip – even when wet. Eliminating the traditional knurl reduces the risk of gloves tearing and aids in sterilization by eliminating hundreds of tiny bacteria collection points.

Stainless Steel Classic Keyless Drill Chucks

CHUCK MODEL	"TYPE"	CAPACITY		CHUCK MOUNT	THRU-HOLE DIAMETER		MAXIMUM RPM	WEIGHT (lbs.)	PART NUMBER	PRICE
		(inches)	(mm)		(inches)	(mm)				
CS30-3/8 Knurled		0* - 1/8	0* - 3	3/8 - 24	3/32	3	7,500	0.3	73700	\$516
CS50-3/8 Knurled		1/32 - 1/4	0.6 - 7.4	3/8 - 24	5/32	4	5,000	0.5	73710	553
CS50-3/8 Ergon-Grip™		1/32 - 1/4	0.6 - 7.4	3/8 - 24	5/32	4	5,000	0.5	73720	581

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.



R8 Taper

CHUCK MOUNT	PART NUMBER	PRICE
J1	70650	\$78
J2	70653	78
J6	70656	78
J33	70659	78



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Straight Shank

SHANK DIAMETER	SHANK LENGTH	CHUCK TAPER	PART NUMBER	PRICE
3/8"	2 1/2"	J0	70580	\$44
3/8"	2 1/2"	J1	70583	46
1/2"	2 1/2"	J0	70586	44
1/2"	2 1/2"	J1	70589	46
1/2"	2 1/2"	J2	70592	55
1/2"	2 1/2"	J33	70595	72
1/2"	2 1/2"	J6	70598	77
5/8"	2 1/2"	J1	70601	47
5/8"	2 1/2"	J33	70607	72
5/8"	2 1/2"	J6	70610	77
3/4"	3"	J2	70616	58
3/4"	3"	J6	70619	79
1"	3"	J33	70625	75

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	\$385
1/2" Diameter	J0	70675	352

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	\$58
J1	70680	84
J2	70682	89
J33	70682	89
J6	70682	89

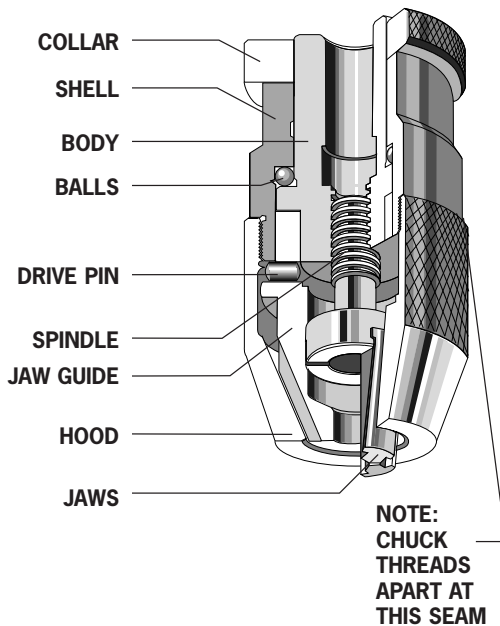




CHUCK REFURBISHING Send It In or Do It Yourself

Quality Without Compromise

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 you 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	\$70	70700	\$136	70716	\$44	70732	\$14	70748	\$50	70764	\$54	70780	\$59	71002	\$1
C30-J0	70798	55	70702	64	70718	44	70734	9	70750	24	70766	37	70782	55	71004	1
C30-J1	70800	55	70702	64	70718	44	70734	9	70750	24	70766	37	70782	55	71004	1
C50-J1	70802	56	70704	66	70720	44	70736	9	70752	24	70768	39	70784	58	71006	1
C65-J1	70804	62	70706	72	70722	47	70738	9	70754	25	70770	42	70786	62	71008	1
C80-J2	70806	74	70708	72	70724	53	70740	9	70756	25	70772	44	70788	64	71010	1
C100-J33	70808	78	70710	75	70726	59	70742	9	70758	26	70774	47	70790	66	71012	1
C100-J2	70810	78	70710	75	70726	59	70742	9	70758	26	70774	47	70790	66	71012	1
C130-J33	70812	78	70712	83	70728	78	70744	14	70760	26	70776	54	70792	69	71014	1
C130-J2	70814	78	70712	83	70728	78	70744	14	70760	26	70776	54	70792	69	71014	1
C130-J6	70816	78	70712	83	70728	78	70744	14	70760	26	70776	54	70792	69	71014	1
C160-J6	70818	88	70714	91	70730	88	70746	14	70762	29	70778	64	70794	76	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	\$119	70712	\$83	70728	78	73220	\$14	73210	\$26	73200	\$54	70792	\$69	71014	\$1
CP130-3MT	73260	131	70712	83	70728	78	73220	14	73210	26	73200	54	70792	69	71014	1
CP130-4MT	73270	144	70712	83	70728	78	73220	14	73210	26	73200	54	70792	69	71014	1
CP130-5/8	73290	107	70712	83	70728	78	73220	14	73210	26	73200	54	70792	69	71014	1
CP130-R8	74040	152	70712	83	70728	78	73220	14	73210	26	73200	54	70792	69	71014	1
CP160-2MT	74044	131	70714	91	70730	88	70747	14	70763	28	73205	64	70794	76	71016	1
CP160-3MT	74042	131	70714	91	70730	88	70747	14	70763	28	73205	64	70794	76	71016	1
CP160-4MT	74041	146	70714	91	70730	88	70747	14	70763	28	73205	64	70794	76	71016	1
CP160-R8	74043	164	70714	91	70730	88	70747	14	70763	28	73205	64	70794	76	71016	1