



HIGH PERFORMANCE METALWORKING



MILL-4-FEED FLEX-FIT END MILL CUTTERS

See Page 3

**MILL4FEED
FLEXFIT**

AS LOW AS:

408⁶⁶



COOLANT-THRU MILLING CHUCKS

See Pages 34-35

AS LOW AS:

520⁰⁰



TRIM® MICROSOL® 585X

See Page 42

5 GALLON PAIL
MFR #MS585XT-5G
A&M #4585794

\$228⁹⁰



800.864.2660

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A MORE EFFICIENT & PRODUCTIVE SHOP

Our expert metalworking team can partner with you to evaluate your approach to any application and improve cycle times, set-up, and productivity. To request support or product selection assistance, simply scan the adjacent QR code.





MULTI-FUNCTION ALL-IN-ONE CUTTERS

With Double-Sided Inserts For Machining Versatility



- Multi-Function All-In-One line performs 50% of all milling applications reducing tool changes, setup time, and overall production costs.
- Designed for milling shoulders, slotting, complex contours, milling by use of ramping, drilling, contouring, plunging and more.
- New design utilizes the same four edged insert for both center and peripheral cutting edges for exceptional and efficient machining.
- Tools generate precision flat surfaces at the bottom of the machined holes in applications that demand exceptional flatness.

QUICKDMILL

MULTI-FUNCTION END MILL CUTTERS

DESCRIPTION	DC	APMX	APMX2	KAPR	CICT	LU	LH	OAL	DCONMS	SHANK	*MDN	**MDX	MFR #	A&M #	SALE PRICE
MDR D0.62-2-W0.62-AN07	0.625	0.285	0.185	90	2.000	0.472	1.000	3.000	0.625	W	0.657	1.207	3440206	6639548	\$301.84
MDR D0.75-2-W0.75-AN09	0.750	0.350	0.225	90	2.000	0.591	1.250	3.500	0.750	W	0.782	1.429	3440207	6639549	\$334.18
MDR D1.00-2-W1.00-AN12	1.000	0.450	0.255	90	2.000	0.728	1.500	4.000	1.000	W	1.050	1.905	3440211	6639550	\$346.92

*Minimum diameter to obtain a flat bottom pocket having no protrusions by use of helical or circular interpolation.

**Maximum diameter to obtain a flat bottom pocket having no protrusions by use of helical or circular interpolation



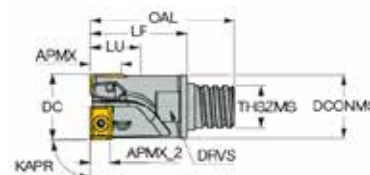
QUICKDMILL

MULTI-FUNCTION MULTI-MASTER END MILL CUTTERS

DESCRIPTION	DC	APMX	APMX2	KAPR	CICT	LU	LF	THSZMS	DCONMS	DRVS	*MDN	**MDX	MFR #	A&M #	SALE PRICE
MDR D16/63-2-MMT10-07JHP	0.630	0.287	0.185	90	2	0.472	0.906	T10	0.598	0.512	0.661	1.213	3440203	6639552	\$377.30
MDR D20/79-2-MMT12-09JHP	0.787	0.350	0.224	90	2	0.591	0.972	T12	0.720	0.630	0.858	1.504	3440204	6639554	\$417.48
MDR D25/98-2-MMT15-12JHP	0.984	0.453	0.256	90	2	0.728	1.299	T15	0.941	0.787	1.035	1.874	3440205	6639556	\$433.16

*Minimum diameter to obtain a flat bottom pocket having no protrusions by use of helical or circular interpolation.

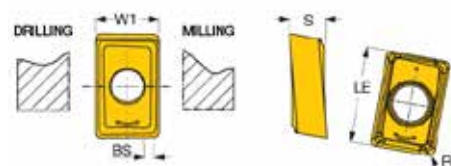
**Maximum diameter to obtain a flat bottom pocket having no protrusions by use of helical or circular interpolation



QUICKDMILL

INSERTS

DESCRIPTION	W1	LE	S	BS	RE	FZ (MIN)	FZ (MAX)	GRADE	MFR #	A&M #	SALE PRICE
MDR ANMU 070304PNTR	0.205	0.307	0.106	0.032	0.016	0.002	0.008	IC808	3440212	6639539	\$18.41
MDR ANMU 070304PNTR	0.205	0.307	0.106	0.032	0.016	0.002	0.008	IC830	3440213	6639541	\$18.41
MDR ANMU 070304PNTR	0.205	0.307	0.106	0.032	0.016	0.002	0.008	IC810	3457539	6639540	\$18.41
MDR ANMU 090305PNTR	0.248	0.370	0.124	0.032	0.020	0.002	0.009	IC808	3440215	6639542	\$19.94
MDR ANMU 090305PNTR	0.248	0.370	0.124	0.032	0.020	0.002	0.009	IC830	3440216	6639544	\$19.94
MDR ANMU 090305PNTR	0.248	0.370	0.124	0.032	0.020	0.002	0.009	IC810	3457540	6639543	\$19.94
MDR ANMU 120408PNTR	0.295	0.488	0.160	0.032	0.031	0.002	0.009	IC808	3440218	6639546	\$22.36
MDR ANMU 120408PNTR	0.295	0.488	0.160	0.032	0.031	0.002	0.009	IC830	3440219	6639547	\$22.36
MDR ANMU 120408PNTR	0.295	0.488	0.160	0.032	0.031	0.002	0.009	IC810	3457541	6641753	\$22.36





MILL-4-FEED CUTTERS & NEW SMALL O6 HIGH FEED SQUARE INSERTS

With Positive Cutting Edges For Machining Diverse Material Types

- MILL-4-FEED square small O6 high feed insert features 4 positive cutting edges.
- The new FFQ4 SOMW O6 inserts can be mounted on different milling cutters such as MULTI-MASTER, FLEX-FIT, and cylindrical end mills shanks. SOMW O6 offers 3 geometries for machining diverse materials including steels, super alloys, and materials with high hardness up to 65HRC.
- By using the O6 inserts on different milling cutters such as MULTI-MASTER, FLEX-FIT, and cylindrical, machining time is reduced compared to traditional tools. It allows for deep cavity machining at high overhangs and high feed rates, assuring stable machining with no vibrations for fast metal removal.



MILL4FEED

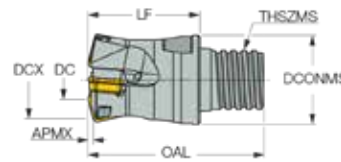
MILL-4-FEED END MILL CUTTERS

DESCRIPTION	DCX	DC	APMX	AE	CICT	LU	LH	DCONMS	OAL	SHANK	RMPX°	MDN	MDX	MIID	MFR #	A&M #	SALE PRICE
FFQ4 D.62-03-W.62-06	0.625	0.278	0.0275	0.173	3	1.25	1.25	0.625	3.35	W	6	0.903	1.211	FFQ4 SOMT 060210T	3442107	6639533	\$374.36
FFQ4 D.75-04-W.75-06	0.750	0.315	0.0275	0.173	4	1.57	1.50	0.750	3.65	W	4	1.153	1.461	FFQ4 SOMT 060210T	3442108	6639535	\$408.66
FFQ4 D1.00-05-W1.0-06	1.000	0.654	0.0275	0.173	5	1.96	2.00	1.000	4.45	W	2.2	1.653	1.961	FFQ4 SOMT 060210T	3442109	6639515	\$450.80
FFQ4 D1.25-07-W1.25-06	1.250	0.903	0.0275	0.173	7	2.50	2.50	1.250	4.95	W	1.5	2.153	2.461	FFQ4 SOMT 060210T	3442110	6639536	\$497.84

MILL4FEED MULTI-MASTER

INDEXABLE SOLID CARBIDE LINE

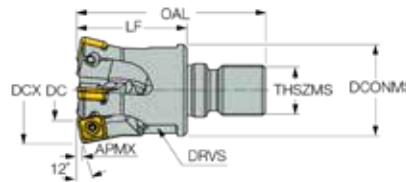
MILL-4-FEED MULTI-MASTER END MILL CUTTERS



DESCRIPTION	DCX	DC	APMX	AE	CICT	THSZMS	LF	OAL	DCONMS	DRVS	RMPX°	MDN	MDX	lbf/in	MIID	MFR #	A&M #	SALE PRICE
FFQ4 D16/.63-03-MMT10-06	0.630	0.283	0.0276	0.173	3	T10	0.630	1.075	0.598	0.512	6	0.913	1.220	247.82	FFQ4 SOMT 060210T	3439928	6639523	\$393.96
FFQ4 D.75-04-MMT12-06	0.750	0.315	0.0275	0.173	4	T12	1.000	1.524	0.720	0.630	4	1.065	1.461	247.82	FFQ4 SOMT 060210T	3442096	6639534	\$429.24
FFQ4 D25/.98-05-MMT15-06	0.984	0.638	0.0276	0.173	5	T15	1.181	1.850	0.945	0.787	2.2	1.622	1.929	354.03	FFQ4 SOMT 060210T	3442098	6639529	\$473.34
FFQ4 D32/1.26-07-MMT21-06	1.260	0.913	0.0276	0.173	7	T21	1.181	2.091	1.157	0.945	1.4	2.173	2.480	973.58	FFQ4 SOMT 060210T	3442099	6639532	\$523.32

MILL4FEED FLEXFIT

MILL-4-FEED FLEX-FIT END MILL CUTTERS



DESCRIPTION	DCX	DC	APMX	AE	CICT	LF	OAL	DCONMS	THSZMS	RMPX°	MDN	MDX	DRVS	MIID	MFR #	A&M #	SALE PRICE
FFQ4 D20-04-M10-06	0.787	0.441	0.0276	0.173	4	0.984	1.772	0.709	M10	3.5	1.228	1.535	0.594	FFQ4 SOMT 060210T	3442100	6639526	\$408.66
FFQ4 D25-05-M12-06	0.984	0.638	0.0276	0.173	5	1.181	2.047	0.827	M12	2.2	1.622	1.929	0.673	FFQ4 SOMT 060210T	3442101	6639527	\$450.80
FFQ4 D32-07-M16-06	1.260	0.913	0.0276	0.173	7	1.181	2.165	1.157	M16	1.4	2.173	2.480	0.988	FFQ4 SOMT 060210T	3442102	6639530	\$497.84

MILL4FEED INSERTS

DESCRIPTION	GRADE	L	S	RE	FZ (MIN)	FZ (MAX)	MFR #	A&M #	SALE PRICE
FFQ4 SOMT 060210HP	IC882	0.217	0.079	0.039	0.008	0.035	3442111	6639519	\$18.58
FFQ4 SOMT 060210HP	IC840	0.217	0.079	0.039	0.008	0.035	3442112	6639518	\$15.18
FFQ4 SOMT 060210T	IC830	0.217	0.080	0.039	0.008	0.039	3440177	6639516	\$15.18
FFQ4 SOMT 060210T	IC808	0.217	0.080	0.039	0.008	0.039	3442113	6639520	\$15.18
FFQ4 SOMW 060213T	IC808	0.220	0.083	0.051	0.008	0.039	3439929	6639521	\$15.18



Headquarters & NJ Sales Office
Rahway, NJ
800.864.2660

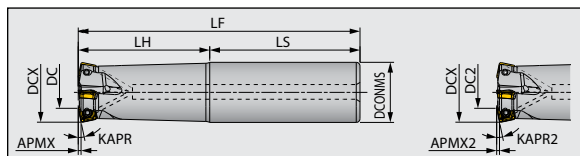
New England Regional Office
West Lebanon, NH
800.225.6711

Northern NJ Regional Office
Fair Lawn, NJ
800.622.1363

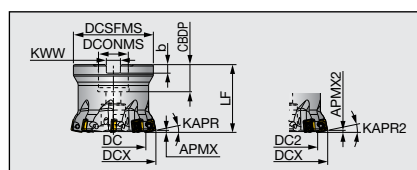
CT Regional Office
Middletown, CT
800.771.1233

PA Regional Office
Stroudsburg, PA
855.207.0400

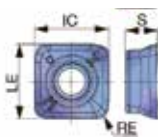


MILLQ^{VAP}FEED EXSW09 HIGH FEED MILL

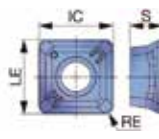
INCH	APMX	APMX2	DCX	CICT	DC	DC2	DCONMS	LF	LH	LS	KAPR	KAPR2	WT (LB)	AIR HOLE	INSERT	A&M #	SALE PRICE
EXSW09U1.00C1.00R03	0.059	0.039	1.000	3	0.409	0.370	1.000	5.500	2.500	3.000	12°	7°	1.014	WITH	SWMT09...	4918417	\$439.40
EXSW09U1.00C1.00R03L	0.059	0.039	1.000	3	0.409	0.370	1.000	7.000	4.000	3.000	12°	7°	1.279	WITH	SWMT09...	4917194	\$461.40
EXSW09U1.25C1.25R04	0.059	0.039	1.250	4	0.657	0.618	1.250	6.000	3.000	3.000	12°	7°	1.786	WITH	SWMT09...	4917195	\$472.90
EXSW09U1.25C1.25R04L	0.059	0.039	1.250	4	0.657	0.618	1.250	8.000	5.000	3.000	12°	7°	2.359	WITH	SWMT09...	4917196	\$496.55

MILLQ^{VAP}FEED TXSW HIGH FEED MILL

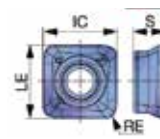
INCH	APMX	APMX2	DCX	CICT	DC	DC2	DCSFMS	DCONMS	CDBP	LF	KWW	B	KAPR	KAPR2	WT (LB)	AIR HOLE	INSERT	A&M #	SALE PRICE
TXSW09U1.50B0.50R04	0.059	0.039	1.500	4	0.909	0.870	1.378	0.500	0.630	1.575	0.258	0.157	12°	7°	0.40	WITH	SWMT09...	4918317	\$566.10
TXSW09U1.50B0.50R05	0.059	0.039	1.500	5	0.909	0.870	1.378	0.500	0.630	1.575	0.258	0.157	12°	7°	0.40	WITH	SWMT09...	4825029	\$605.65
TXSW09U2.00B0.75R05	0.059	0.039	2.000	5	1.406	1.366	1.772	0.750	0.750	1.969	0.315	0.197	12°	7°	0.82	WITH	SWMT09...	4918318	\$649.55
TXSW09U2.00B0.75R07	0.059	0.039	2.000	7	1.406	1.366	1.772	0.750	0.750	1.969	0.315	0.197	12°	7°	0.84	WITH	SWMT09...	4917178	\$737.20
TXSW15U2.00B0.75R03	0.098	0.079	2.000	3	0.929	0.905	1.850	0.750	0.750	1.969	0.315	0.197	14°	10°	0.95	WITH	SWMT15...	4904013	\$785.80
TXSW09U2.50B0.75R06	0.059	0.039	2.500	6	1.906	1.866	2.323	0.750	0.750	1.969	0.315	0.197	12°	7°	1.59	WITH	SWMT09...	4918319	\$909.70
TXSW09U2.50B0.75R08	0.059	0.039	2.500	8	1.906	1.866	2.323	0.750	0.750	1.969	0.315	0.197	12°	7°	1.61	WITH	SWMT09...	4918320	\$939.35
TXSW15U2.50B0.75R04	0.098	0.079	2.500	4	1.480	1.405	2.323	0.750	0.750	1.969	0.315	0.197	14°	10°	1.52	WITH	SWMT15...	4904014	\$1,127.30
TXSW09U3.00B1.00R07	0.059	0.039	3.000	7	2.406	2.366	2.835	1.000	1.024	2.480	0.374	0.236	12°	7°	3.00	WITH	SWMT09...	4918321	\$1,160.25
TXSW09U3.00B1.00R10	0.059	0.039	3.000	10	2.406	2.366	2.835	1.000	1.024	2.480	0.374	0.236	12°	7°	3.06	WITH	SWMT09...	4918322	\$614.40
TXSW15U3.00B1.00R05	0.098	0.079	3.000	5	1.980	1.905	2.835	1.000	1.024	2.480	0.374	0.236	14°	10°	2.71	WITH	SWMT15...	4887339	\$682.55
TXSW09U4.00B1.50R08	0.059	0.039	4.000	8	3.406	3.366	3.819	1.500	1.181	2.480	0.626	0.394	12°	7°	4.67	WITH	SWMT09...	4918323	\$753.80
TXSW15U4.00B1.50R06	0.098	0.079	4.000	6	2.980	2.905	3.819	1.500	1.063	2.480	0.626	0.394	14°	10°	4.87	WITH	SWMT15...	4887403	\$913.20
TXSW15U5.00B1.50R07	0.098	0.079	5.000	7	3.980	3.905	3.819	1.500	1.614	2.480	0.626	0.394	14°	10°	6.37	WITH	SWMT15...	4904015	\$1,096.10
TXSW15U6.00B2.00R08	0.098	0.079	6.000	8	4.980	4.905	4.331	2.000	1.496	2.480	0.748	0.433	14°	10°	8.29	WITH	SWMT15...	4904016	\$1,315.05

MILLQ^{VAP}FEED SWMT INSERTS

SWMT09/15ZER-MM (FOR GENERAL PURPOSE)



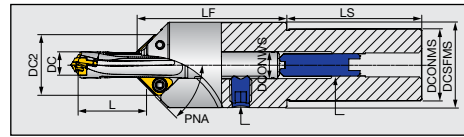
SWMT09/15UER-MM (FOR GENERAL PURPOSE)



SWMT15ZER-MT (ROBUST CUTTING EDGES)

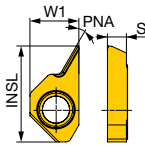
INCH	RE	APMX	LE	IC	S	AH130 COATED		AH3135 COATED		AH3225 COATED		AH120 COATED		AH8015 COATED	
						A&M #	SALE PRICE	A&M #	SALE PRICE	A&M #	SALE PRICE	A&M #	SALE PRICE	A&M #	SALE PRICE
SWMT0904ZER-MM	0.039	0.059	0.339	0.339	0.157	4918308	\$20.55	4818420	\$20.55	4918304	\$20.55	4918309	\$20.55	4918303	\$20.55
SWMT0904UER-MM	0.039	0.039	0.356	0.356	0.157	4918307	\$20.55	4917172	\$20.55	4918306	\$20.55	4918310	\$20.55	4918305	\$20.55
SWMT1506ZER-MM	0.079	0.098	0.630	0.630	0.268	—	—	4887405	\$32.60	—	—	4916782	\$31.00	—	—
SWMT1506UER-MM	0.079	0.079	0.641	0.641	0.268	—	—	4887342	\$32.60	—	—	—	—	—	—
SWMT1506ZER-MT	0.079	0.098	0.627	0.627	0.268	—	—	5526153	\$32.60	—	—	5526128	\$31.00	—	—

DRILLMEISTER TIDCF CHAMFERING ADAPTER

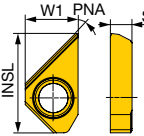


INCH	DC	DCONMS	DCSFMS	DC2	LF	LS	L* L/D=3	L* L/D=5	DRILL BODY	DCONWS	A&M #	SALE PRICE
TIDCF100-WU1.00-.394-.409	0.374 - 0.409	1.000	1.496	0.981	2.650	2.205	0.571-1.252	1.248-2.039	TIDC100C10-...	0.394	6644024	\$351.25
TIDCF110-WU1.00-.413-.449	0.413 - 0.449	1.000	1.496	1.019	2.654	2.205	0.618-1.311	1.228-2.134	"TIDC105C11-... TIDC110C11-..."	0.433	6644025	\$351.25
TIDCF120-WU1.00-.453-.488	0.453 - 0.488	1.000	0.984	1.060	2.646	2.205	0.638-1.390	1.343-2.256	"TIDC115C12-... TIDC120C12-..."	0.472	6644026	\$358.15
TIDCF130-WU1.00-.492-.528	0.492 - 0.528	1.000	0.984	1.098	2.646	2.205	0.594-1.447	1.331-2.339	"TIDC125C13-... TIDC130C13-..."	0.512	6644027	\$358.15
TIDCF140-WU1.25-.531-.567	0.531 - 0.567	1.250	1.496	1.119	2.646	2.362	0.650-1.484	1.441-2.425	"TIDC135C14-... TIDC140C14-..."	0.551	6263704	\$337.36
TIDCF150-WU1.25-.571-.626	0.571 - 0.626	1.250	1.496	1.159	2.646	2.362	0.634-1.559	1.563-2.551	"TIDC145C15-... TIDC150C15-..."	0.591	6644028	\$358.15
TIDCF160-WU1.25-.630-.665	0.630 - 0.665	1.250	1.496	1.197	2.646	2.362	0.689-1.634	1.681-2.677	TIDC160C16-...	0.630	6644029	\$358.15
TIDCF170-WU1.25-.669-.705	0.669 - 0.705	1.250	1.496	1.240	2.654	2.362	0.697-1.689	1.630-2.768	TIDC170C17-...	0.669	6644030	\$358.15
TIDCF180-WU1.25-.709-.744	0.709 - 0.744	1.250	1.496	1.274	2.654	2.362	0.713-1.772	1.764-2.878	TIDC180C18-...	0.709	6644031	\$358.15

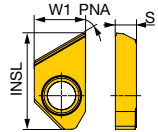
DRILLMEISTER CHAMFERING INSERT



XCGT-30DT/XHGT-30A



XCGT-45DT/XHGR-45A

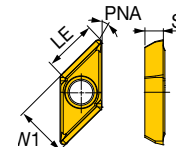


XCGT-60DT/XHGR-60A

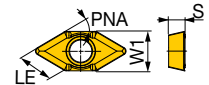
DESIGNATION	CHAMFERING ANGLE PNA	MAXIMUM WIDTH OF CHAMFER*	GH730 COATED	W1	INSL	S	A&M #	SALE PRICE
XCGT060300-30DT	30°	2	•	6.18mm	12.3mm	2.8mm	4917621	\$20.50
XCGT060300-45DT	45°	4	•	6.18mm	12.3mm	2.8mm	4917622	\$20.50
XCGT060300-60DT	60°	4	•	6.18mm	12.3mm	2.8mm	4917623	\$20.50
XHGT090300-30A	30°	3	•	8.5mm	16mm	3.3mm	4906010	\$22.40
XHGR090300-45A	45°	6	•	8.5mm	16mm	3.3mm	4905959	\$23.35
XHGR090300-60A	60°	6	•	8.5mm	16mm	3.3mm	4905960	\$23.35

*Please reduce the feed rate to half when chamfering over 60% of maximum width of chamfer.

DRILLMEISTER INSERT FOR SPECIAL CHAMFERING ADAPTERS



AOMT06 -C45



AOMT03 -N -*DT

DESIGNATION	LE	CHAMFERING ANGLE PNA	GH730 COATED	W1	S	A&M #	SALE PRICE
AOMT060204-C45	0.177"	45°	•	0.223"	0.077"	4889101	\$12.25
AOMT030204-N-30DT	0.157"	30°	•	0.157"	0.063"	4915244	\$13.35
AOMT030204-N-45DT	0.157"	45°	•	0.110"	0.063"	4915243	\$13.35

Headquarters & NJ Sales Office
Rahway, NJ
800.864.2660

New England Regional Office
West Lebanon, NH
800.225.6711

Northern NJ Regional Office
Fair Lawn, NJ
800.622.1363

CT Regional Office
Middletown, CT
800.771.1233

PA Regional Office
Stroudsburg, PA
855.207.0400

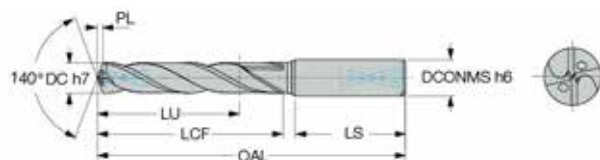
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PRODUCTS | SERVICES | SOLUTIONS



SOLID CARBIDE DRILLS WITH COOLANT HOLES

SCD-ACP3FL (3XD, 5XD, 8XD)

FLASHDRILL
ECO SOLID LINE



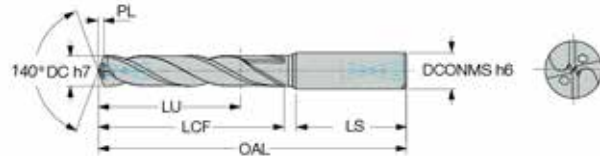
- Versatile IC608 grade for a variety of materials.
- Double margin for better stability in interrupted cut.

♦ Metric sizes Ø3-20mm available (Ø3-13mm in 0.1mm increments, Ø13-20mm in 0.5mm increments).

DESCRIPTION	DC	DCONMS	LU	PL	LCF	LS	OAL	MFR #	A&M #	SALE PRICE
3XD DRILLS										
SCD0125-0600-0236 ACP3FL	0.125	0.236	0.600	0.020	0.79	1.65	2.441	3411410	5515528	\$69.75
SCD0141-0577-0236 ACP3FL	0.141	0.236	0.577	0.023	0.79	1.65	2.441	3411411	5515529	\$69.75
SCD0156-0711-0236 ACP3FL	0.156	0.236	0.711	0.025	0.95	1.65	2.598	3411412	5515530	\$69.75
SCD0172-0687-0236 ACP3FL	0.172	0.236	0.687	0.028	0.95	1.65	2.598	3411413	5515531	\$69.75
SCD0188-0821-0236 ACP3FL	0.188	0.236	0.821	0.030	1.10	1.50	2.598	3411415	5515533	\$69.75
SCD0203-0798-0236 ACP3FL	0.203	0.236	0.798	0.033	1.10	1.50	2.598	3411417	5515535	\$69.75
SCD0204-0796-0236 ACP3FL	0.204	0.236	0.796	0.033	1.10	1.50	2.598	3411418	5515536	\$69.75
SCD0219-0774-0236 ACP3FL	0.219	0.236	0.774	0.035	1.10	1.50	2.598	3411419	5515537	\$69.75
SCD0234-0751-0236 ACP3FL	0.234	0.236	0.751	0.038	1.10	1.50	2.598	3411420	5515538	\$69.75
SCD0250-0964-0315 ACP3FL	0.250	0.315	0.964	0.040	1.34	1.77	3.110	3411421	5515539	\$81.63
SCD0266-0940-0315 ACP3FL	0.266	0.315	0.940	0.043	1.34	1.77	3.110	3411422	5515540	\$81.63
SCD0281-1192-0315 ACP3FL	0.281	0.315	1.192	0.045	1.61	1.50	3.110	3411423	5515541	\$81.63
SCD0297-1169-0315 ACP3FL	0.297	0.315	1.169	0.048	1.61	1.50	3.110	3411424	5515542	\$81.63
SCD0313-1146-0315 ACP3FL	0.313	0.315	1.146	0.050	1.61	1.50	3.110	3411425	5515543	\$81.63
SCD0328-1358-0394 ACP3FL	0.328	0.394	1.358	0.053	1.85	1.65	3.504	3411426	5515544	\$97.20
SCD0344-1335-0394 ACP3FL	0.344	0.394	1.335	0.055	1.85	1.65	3.504	3411427	5515545	\$97.20
SCD0359-1311-0394 ACP3FL	0.359	0.394	1.311	0.058	1.85	1.65	3.504	3411428	5515546	\$97.20
SCD0375-1288-0394 ACP3FL	0.375	0.394	1.288	0.060	1.85	1.65	3.504	3411429	5515547	\$97.20
SCD0391-1265-0394 ACP3FL	0.391	0.394	1.265	0.063	1.85	1.65	3.504	3411430	5515548	\$97.20
SCD0406-1556-0472 ACP3FL	0.406	0.472	1.556	0.065	2.17	1.85	4.016	3411431	5515549	\$145.80
SCD0422-1533-0472 ACP3FL	0.422	0.472	1.533	0.068	2.17	1.85	4.016	3411432	5515550	\$145.80
SCD0438-1509-0472 ACP3FL	0.438	0.472	1.509	0.070	2.17	1.85	4.016	3411433	5515551	\$145.80
SCD0453-1486-0472 ACP3FL	0.453	0.472	1.486	0.073	2.17	1.85	4.016	3411434	5515552	\$145.80
SCD0469-1462-0472 ACP3FL	0.469	0.472	1.462	0.075	2.17	1.85	4.016	3411435	5515553	\$145.80
SCD0484-1636-0551 ACP3FL	0.484	0.551	1.636	0.078	2.36	1.85	4.213	3411436	5515554	\$179.10
SCD0500-1612-0551 ACP3FL	0.500	0.551	1.612	0.080	2.36	1.85	4.213	3411437	5515555	\$179.10
SCD0531-1565-0551 ACP3FL	0.531	0.551	1.565	0.085	2.36	1.85	4.213	3411438	5515556	\$179.10
SCD0563-1715-0630 ACP3FL	0.563	0.630	1.715	0.090	2.56	1.97	4.528	3411439	5515557	\$207.90
SCD0625-1622-0630 ACP3FL	0.625	0.630	1.622	0.100	2.56	1.97	4.528	3411440	5515558	\$207.90
SCD0688-1772-0709 ACP3FL	0.688	0.709	1.772	0.098	2.87	1.97	4.843	3420714	5516111	\$280.80
SCD0750-1985-0787 ACP3FL	0.750	0.787	1.985	0.120	3.11	2.05	5.157	3411441	5515559	\$381.60
5XD DRILLS										
SCD0125-0915-0236 ACP5FL	0.125	0.236	0.915	0.020	1.10	1.50	2.598	3411442	5515560	\$87.12
SCD0141-0892-0236 ACP5FL	0.141	0.236	0.892	0.023	1.10	1.50	2.598	3411443	5515561	\$87.12
SCD0156-1183-0236 ACP5FL	0.156	0.236	1.183	0.025	1.42	1.50	2.913	3411444	5515562	\$87.12
SCD0172-1160-0236 ACP5FL	0.172	0.236	1.160	0.028	1.42	1.50	2.913	3411445	5515563	\$87.12
SCD0188-1451-0236 ACP5FL	0.188	0.236	1.451	0.030	1.73	1.50	3.228	3411447	5515565	\$87.12
SCD0203-1428-0236 ACP5FL	0.203	0.236	1.428	0.033	1.73	1.50	3.228	3411449	5515567	\$87.12
SCD0204-1426-0236 ACP5FL	0.204	0.236	1.426	0.033	1.73	1.50	3.228	3411450	5515568	\$87.12
SCD0219-1404-0236 ACP5FL	0.219	0.236	1.404	0.035	1.73	1.50	3.228	3411451	5515569	\$87.12
SCD0234-1381-0236 ACP5FL	0.234	0.236	1.381	0.038	1.73	1.50	3.228	3411452	5515570	\$87.12
SCD0250-1712-0315 ACP5FL	0.250	0.315	1.712	0.040	2.09	1.50	3.583	3411453	5515571	\$100.80
SCD0266-1688-0315 ACP5FL	0.266	0.315	1.688	0.043	2.09	1.50	3.583	3411454	5515572	\$100.80
SCD0281-1665-0315 ACP5FL	0.281	0.315	1.665	0.045	2.09	1.50	3.583	3411455	5515573	\$100.80
SCD0297-1641-0315 ACP5FL	0.297	0.315	1.641	0.048	2.09	1.50	3.583	3411456	5515574	\$100.80
SCD0313-1618-0315 ACP5FL	0.313	0.315	1.618	0.050	2.09	1.50	3.583	3411457	5477461	\$100.80
SCD0328-1910-0394 ACP5FL	0.328	0.394	1.910	0.053	2.40	1.65	4.055	3411458	5515575	\$124.20

FLASHDRILL

ECO SOLID LINE



DESCRIPTION	DC	DCONMS	LU	PL	LCF	LS	OAL	MFR #	A&M #	SALE PRICE
5XD DRILLS (CONTINUED)										
SCD0344-1886-0394 ACP5FL	0.344	0.394	1.886	0.055	2.40	1.65	4.055	3411459	5515576	\$124.20
SCD0359-1863-0394 ACP5FL	0.359	0.394	1.863	0.058	2.40	1.65	4.055	3411460	5515577	\$124.20
SCD0375-1839-0394 ACP5FL	0.375	0.394	1.839	0.060	2.40	1.65	4.055	3411461	5515578	\$124.20
SCD0391-1816-0394 ACP5FL	0.391	0.394	1.816	0.063	2.40	1.65	4.055	3411462	5515579	\$124.20
SCD0406-2186-0472 ACP5FL	0.406	0.472	2.186	0.065	2.80	1.85	4.646	3411463	5515580	\$183.60
SCD0422-2163-0472 ACP5FL	0.422	0.472	2.163	0.068	2.80	1.85	4.646	3411464	5515581	\$183.60
SCD0438-2139-0472 ACP5FL	0.438	0.472	2.139	0.070	2.80	1.85	4.646	3411465	5515582	\$183.60
SCD0453-2116-0472 ACP5FL	0.453	0.472	2.116	0.073	2.80	1.85	4.646	3411466	5515583	\$183.60
SCD0469-2092-0472 ACP5FL	0.469	0.472	2.092	0.075	2.80	1.85	4.646	3411467	5515584	\$183.60
SCD0484-2305-0551 ACP5FL	0.484	0.551	2.305	0.078	3.03	1.85	4.882	3411468	5515585	\$255.60
SCD0500-2282-0551 ACP5FL	0.500	0.551	2.282	0.080	3.03	1.85	4.882	3411469	5515586	\$255.60
SCD0531-2235-0551 ACP5FL	0.531	0.551	2.235	0.085	3.03	1.85	4.882	3411470	5515587	\$255.60
SCD0563-2424-0630 ACP5FL	0.563	0.630	2.424	0.090	3.27	1.97	5.236	3411471	5515588	\$280.80
SCD0625-2330-0630 ACP5FL	0.625	0.630	2.330	0.100	3.27	1.97	5.236	3411472	5515589	\$280.80
SCD0688-2598-0709 ACP5FL	0.688	0.709	2.598	0.100	3.66	1.97	5.630	3420735	5516132	\$315.90
SCD0750-2851-0787 ACP5FL	0.750	0.787	2.851	0.120	3.98	2.05	6.024	3411473	5515590	\$430.20

8XD DRILLS

SCD0125-1151-0236 ACP8FL	0.125	0.236	1.151	0.023	1.34	1.42	2.835	3450414	6632627	\$151.20
SCD0141-1128-0236 ACP8FL	0.141	0.236	1.128	0.026	1.34	1.42	2.835	3450415	6632628	\$151.20
SCD0156-1459-0236 ACP8FL	0.156	0.236	1.459	0.028	1.69	1.42	3.189	3450416	6632629	\$151.20
SCD0172-1435-0236 ACP8FL	0.172	0.236	1.435	0.031	1.69	1.42	3.189	3450417	6632630	\$151.20
SCD0188-1963-0236 ACP8FL	0.188	0.236	1.963	0.034	2.24	1.42	3.740	3450418	6632631	\$151.20
SCD0203-1939-0236 ACP8FL	0.203	0.236	1.939	0.037	2.24	1.42	3.740	3450419	6632632	\$151.20
SCD0204-1938-0236 ACP8FL	0.204	0.236	1.938	0.037	2.24	1.42	3.740	3450420	6632633	\$151.20
SCD0219-1916-0236 ACP8FL	0.219	0.236	1.916	0.040	2.24	1.42	3.740	3450421	6632634	\$151.20
SCD0234-1893-0236 ACP8FL	0.234	0.236	1.893	0.043	2.24	1.42	3.740	3450422	6632635	\$151.20
SCD0250-2617-0315 ACP8FL	0.250	0.315	2.617	0.045	2.99	1.42	4.488	3450423	6632636	\$171.00
SCD0266-2594-0315 ACP8FL	0.266	0.315	2.594	0.048	2.99	1.42	4.488	3450424	6496148	\$171.00
SCD0281-2570-0315 ACP8FL	0.281	0.315	2.570	0.051	2.99	1.42	4.488	3450425	6632637	\$171.00
SCD0297-2547-0315 ACP8FL	0.297	0.315	2.547	0.054	2.99	1.42	4.488	3450426	6632638	\$171.00
SCD0313-2523-0315 ACP8FL	0.313	0.315	2.523	0.057	2.99	1.42	4.488	3450427	6632639	\$171.00
SCD0328-3248-0394 ACP8FL	0.328	0.394	3.248	0.060	3.74	1.57	5.591	3450428	6632640	\$243.00
SCD0344-3225-0394 ACP8FL	0.344	0.394	3.225	0.063	3.74	1.57	5.591	3450429	6632641	\$243.00
SCD0359-3201-0394 ACP8FL	0.359	0.394	3.201	0.065	3.74	1.57	5.591	3450430	6632642	\$243.00
SCD0375-3178-0394 ACP8FL	0.375	0.394	3.178	0.068	3.74	1.57	5.591	3450431	6614539	\$243.00
SCD0391-3154-0394 ACP8FL	0.391	0.394	3.154	0.071	3.74	1.57	5.591	3450432	6632643	\$243.00
SCD0406-3879-0472 ACP8FL	0.406	0.472	3.879	0.074	4.49	1.57	6.378	3450433	6632644	\$291.60
SCD0422-3855-0472 ACP8FL	0.422	0.472	3.855	0.077	4.49	1.57	6.378	3450434	6632645	\$291.60
SCD0438-3832-0472 ACP8FL	0.438	0.472	3.832	0.080	4.49	1.57	6.378	3450435	6632646	\$291.60
SCD0453-3809-0472 ACP8FL	0.453	0.472	3.809	0.082	4.49	1.57	6.378	3450436	6632647	\$291.60
SCD0469-3785-0472 ACP8FL	0.469	0.472	3.785	0.085	4.49	1.57	6.378	3450437	6632648	\$291.60
SCD0484-4431-0551 ACP8FL	0.484	0.551	4.431	0.088	5.16	1.57	7.008	3450438	6632649	\$358.20
SCD0500-4408-0551 ACP8FL	0.500	0.551	4.408	0.091	5.16	1.57	7.008	3450439	6632650	\$358.20
SCD0531-4361-0551 ACP8FL	0.531	0.551	4.361	0.097	5.16	1.57	7.008	3450440	6632651	\$358.20
SCD0563-5141-0630 ACP8FL	0.563	0.630	5.141	0.102	5.98	1.77	7.992	3450441	6632652	\$415.80
SCD0625-5047-0630 ACP8FL	0.625	0.630	5.047	0.114	5.98	1.77	7.992	3450442	6632653	\$415.80
SCD0688-5699-0709 ACP8FL	0.688	0.709	5.699	0.125	6.73	1.77	8.740	3450443	6632654	\$560.70
SCD0750-6355-0787 ACP8FL	0.750	0.787	6.355	0.136	7.48	1.77	9.567	3450444	6632655	\$673.20



WITH COOLANT HOLES

Headquarters & NJ Sales Office
Rahway, NJ
800.864.2660

New England Regional Office
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Northern NJ Regional Office
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800.622.1363

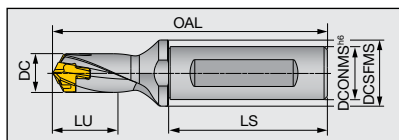
CT Regional Office
Middletown, CT
800.771.1233

PA Regional Office
Stroudsburg, PA
855.207.0400



DRILLMEISTER TIDU-F L/D=1.5 EXCHANGEABLE HEAD DRILL

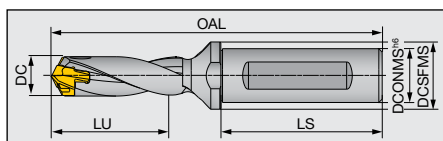
L/D = 1.5 • Flange Type



INCH	DC	DCONMS	DCSFMS	LU	LS	OVERALL LENGTH			POCKET SIZE	HEAD	A&M #	SALE PRICE
						DMP/H/N	DMC	DMF				
TIDU0394F0625-1.5	0.394 - 0.429	0.625	0.787	0.591	1.890	3.118	3.142	2.638	10	DM*100 - DM*109	4901880	\$256.00
TIDU0433F0625-1.5	0.433 - 0.468	0.625	0.787	0.669	1.890	3.193	3.217	2.678	11	DM*110 - DM*119	4901887	\$256.00
TIDU0472F0625-1.5	0.472 - 0.508	0.625	0.787	0.709	1.890	3.268	3.292	2.720	12	DM*120 - DM*129	4901894	\$256.00
TIDU0512F0625-1.5	0.512 - 0.547	0.625	0.787	0.787	1.890	3.350	3.381	2.749	13	DM*130 - DM*139	4901903	\$256.00
TIDU0551F0625-1.5	0.551 - 0.587	0.625	0.787	0.827	1.890	3.508	3.539	2.811	14	DM*140 - DM*149	4901912	\$274.40
TIDU0591F0750-1.5	0.591 - 0.625	0.750	0.984	0.906	1.969	3.787	3.822	2.878	15	DM*150 - DM*159	4901921	\$286.70
TIDU0630F0750-1.5	0.630 - 0.665	0.750	0.984	0.945	1.969	3.909	3.948	3.060	16	DM*160 - DM*169	4901926	\$286.70
TIDU0669F0750-1.5	0.669 - 0.705	0.750	0.984	1.024	1.969	4.031	4.070	3.126	17	DM*170 - DM*179	4901929	\$339.60
TIDU0709F1000-1.5	0.709 - 0.744	1.000	1.260	1.063	2.205	4.390	4.433	3.197	18	DM*180 - DM*189	4901933	\$339.60
TIDU0748F1000-1.5	0.748 - 0.783	1.000	1.260	1.142	2.205	4.508	4.551	3.269	19	DM*190 - DM*199	4901938	\$375.20
TIDU0787F1000-1.5	0.787 - 0.823	1.000	1.260	1.181	2.205	4.630	4.677	3.424	20	DMP200 - DMP209	4901943	\$375.20
TIDU0827F1000-1.5	0.827 - 0.862	1.000	1.260	1.240	2.205	4.752	4.800	3.698	21	DMP210 - DMP219	4901948	\$449.05
TIDU0866F1000-1.5	0.866 - 0.902	1.000	1.260	1.299	2.205	4.874	4.924	3.813	22	DMP220 - DMP229	4901953	\$449.05
TIDU0906F1250-1.5	0.906 - 0.941	1.250	1.654	1.358	2.362	5.150	5.204	3.923	23	DMP230 - DMP239	4901957	\$497.05
TIDU0945F1250-1.5	0.945 - 0.980	1.250	1.654	1.417	2.362	5.272	5.327	4.270	24	DMP240 - DMP249	4901961	\$497.05
TIDU0984F1250-1.5	0.984 - 1.020	1.250	1.654	1.476	2.362	5.394	5.453	4.381	25	DMP250 - DMP259	4901965	\$554.85

DRILLMEISTER TID L/D=3 EXCHANGEABLE HEAD DRILL

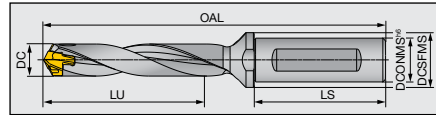
L/D = 3 • Flange Type



INCH	DC	DCONMS	DCSFMS	LU	LS	OVERALL LENGTH			POCKET SIZE	HEAD	A&M #	SALE PRICE
						DMP/H/N	DMC	DMF				
TIDU0394F0625-3	0.394 - 0.409	0.625	0.787	1.181	1.890	3.709	3.733	2.993	10	DM*100 - DM*104	4901881	\$232.70
TIDU0413F0625-3	0.413 - 0.429	0.625	0.787	1.260	1.890	3.768	3.792	3.062	10	DM*105 - DM*109	4901884	\$232.70
TIDU0433F0625-3	0.433 - 0.449	0.625	0.787	1.299	1.890	3.843	3.867	3.133	11	DM*110 - DM*114	4901888	\$232.70
TIDU0453F0625-3	0.453 - 0.469	0.625	0.787	1.378	1.890	3.902	3.926	3.192	11	DM*115 - DM*119	4901891	\$232.70
TIDU0472F0625-3	0.472 - 0.488	0.625	0.787	1.417	1.890	3.976	4.000	3.283	12	DM*120 - DM*124	4901895	\$232.70
TIDU0492F0625-3	0.492 - 0.508	0.625	0.787	1.457	1.890	4.035	4.059	3.342	12	DM*125 - DM*129	4901899	\$260.90
TIDU0512F0625-3	0.512 - 0.528	0.625	0.787	1.535	1.890	4.118	4.149	3.410	13	DM*130 - DM*134	4901904	\$260.90
TIDU0532F0625-3	0.532 - 0.547	0.625	0.787	1.614	1.890	4.177	4.208	3.469	13	DM*135 - DM*139	4901908	\$260.90
TIDU0551F0625-3	0.551 - 0.567	0.625	0.787	1.654	1.890	4.335	4.366	3.650	14	DM*140 - DM*144	4901913	\$260.90
TIDU0571F0625-3	0.571 - 0.587	0.625	0.787	1.732	1.890	4.394	4.425	3.709	14	DM*145 - DM*149	4901917	\$232.70
TIDU0591F0750-3	0.591 - 0.626	0.750	0.984	1.772	1.969	4.673	4.708	3.776	15	DM*150 - DM*159	4901922	\$326.05
TIDU0630F0750-3	0.630 - 0.665	0.750	0.984	1.890	1.969	4.854	4.893	3.835	16	DM*160 - DM*169	4901927	\$326.05
TIDU0669F0750-3	0.669 - 0.705	0.750	0.984	2.008	1.969	5.035	5.074	3.906	17	DM*170 - DM*179	4901930	\$324.90
TIDU0709F1000-3	0.709 - 0.744	1.000	1.260	2.126	2.205	5.453	5.496	3.965	18	DM*180 - DM*189	4901934	\$358.00
TIDU0748F1000-3	0.748 - 0.783	1.000	1.260	2.244	2.205	5.630	5.673	4.037	19	DM*190 - DM*199	4901939	\$358.00
TIDU0787F1000-3	0.787 - 0.823	1.000	1.260	2.362	2.205	5.811	5.838	4.096	20	DMP200 - DMP209	4901944	\$425.65
TIDU0827F1000-3	0.827 - 0.862	1.000	1.260	2.480	2.205	5.992	6.040	4.250	21	DMP210 - DMP219	4901949	\$510.55
TIDU0866F1000-3	0.866 - 0.902	1.000	1.260	2.598	2.205	6.173	6.223	4.309	22	DMP220 - DMP229	4901954	\$510.55
TIDU0906F1250-3	0.906 - 0.941	1.250	1.654	2.718	2.362	6.508	6.562	4.584	23	DMP230 - DMP239	4901958	\$563.45
TIDU0945F1250-3	0.945 - 0.980	1.250	1.654	2.835	2.362	6.689	6.744	4.757	24	DMP240 - DMP249	4901962	\$563.45
TIDU0984F1250-3	0.984 - 1.020	1.250	1.654	2.953	2.362	6.870	6.939	4.927	25	DMP250 - DMP259	4901966	\$631.05

DRILLMEISTER TIDU L/D=5 EXCHANGEABLE HEAD DRILL

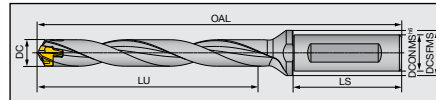
L/D = 5 • Flange Type



INCH	DC	DCONMS	DCSFMS	LU	LS	OVERALL LENGTH			POCKET SIZE	HEAD	A&M #	SALE PRICE
						DMP/H/N	DMC	DMF				
TIDU0394F0625-5	0.394 - 0.409	0.625	0.787	1.969	1.890	4.496	4.514	3.465	10	DM*100 - DM*104	4901882	\$333.45
TIDU0413F0625-5	0.413 - 0.429	0.625	0.787	2.087	1.890	4.594	4.618	3.574	10	DM*105 - DM*109	4901885	\$333.45
TIDU0433F0625-5	0.433 - 0.449	0.625	0.787	2.165	1.890	4.709	4.733	3.684	11	DM*110 - DM*114	4901889	\$333.45
TIDU0453F0625-5	0.453 - 0.469	0.625	0.787	2.283	1.890	4.807	4.831	3.783	11	DM*115 - DM*119	4901892	\$333.45
TIDU0472F0625-5	0.472 - 0.488	0.625	0.787	2.362	1.890	4.921	4.945	3.913	12	DM*120 - DM*124	4901896	\$333.45
TIDU0492F0625-5	0.492 - 0.508	0.625	0.787	2.441	1.890	5.020	5.044	4.011	12	DM*125 - DM*129	4901900	\$359.35
TIDU0512F0625-5	0.512 - 0.528	0.625	0.787	2.559	1.890	5.142	5.173	4.119	13	DM*130 - DM*134	4901905	\$359.35
TIDU0532F0625-5	0.532 - 0.547	0.625	0.787	2.677	1.890	5.240	5.271	4.217	13	DM*135 - DM*139	4901909	\$359.35
TIDU0551F0625-5	0.551 - 0.567	0.625	0.787	2.756	1.890	5.440	5.471	4.438	14	DM*140 - DM*144	4901914	\$359.35
TIDU0571F0625-5	0.571 - 0.587	0.625	0.787	2.874	1.890	5.539	5.570	4.536	14	DM*145 - DM*149	4901918	\$359.35
TIDU0591F0750-5	0.591 - 0.626	0.750	0.984	2.953	1.969	5.854	5.889	4.642	15	DM*150 - DM*159	4901923	\$382.65
TIDU0630F0750-5	0.630 - 0.665	0.750	0.984	3.150	1.969	6.114	6.153	4.740	16	DM*160 - DM*169	4901928	\$382.65
TIDU0669F0750-5	0.669 - 0.705	0.750	0.984	3.346	1.969	6.374	6.413	4.851	17	DM*170 - DM*179	4744915	\$457.65
TIDU0709F1000-5	0.709 - 0.744	1.000	1.260	3.543	2.205	6.870	6.913	4.949	18	DM*180 - DM*189	4901935	\$503.20
TIDU0748F1000-5	0.748 - 0.783	1.000	1.260	3.740	2.205	7.126	7.169	5.060	19	DM*190 - DM*199	4901940	\$503.20
TIDU0787F1000-5	0.787 - 0.823	1.000	1.260	3.937	2.205	7.386	7.432	5.159	20	DMP200 - DMP209	4901945	\$503.20
TIDU0827F1000-5	0.827 - 0.862	1.000	1.260	4.134	2.205	7.646	7.694	5.353	21	DMP210 - DMP219	4901950	\$604.00
TIDU0866F1000-5	0.866 - 0.902	1.000	1.260	4.331	2.205	7.906	7.956	5.451	22	DMP220 - DMP229	4825254	\$604.00
TIDU0906F1250-5	0.906 - 0.941	1.250	1.654	4.528	2.362	8.319	8.373	5.765	23	DMP230 - DMP239	4901959	\$664.30
TIDU0945F1250-5	0.945 - 0.980	1.250	1.654	4.724	2.362	8.579	8.634	6.017	24	DMP240 - DMP249	4901963	\$664.30
TIDU0984F1250-5	0.984 - 1.020	1.250	1.654	4.921	2.362	8.839	8.898	6.266	25	DMP250 - DMP259	4901967	\$743.10

DRILLMEISTER TIDU-F L/D=8 EXCHANGEABLE HEAD DRILL

L/D = 8 • Flange Type



INCH	DC	DCONMS	DCSFMS	LU	LS	OVERALL LENGTH			POCKET SIZE	HEAD	A&M #	SALE PRICE
						DMP/H/N	DMC	DMF				
TIDU0394F0625-8	0.394 - 0.409	0.625	0.787	3.150	1.890	5.677	5.701	4.511	10	DM*100 - DM*104	4901883	\$401.00
TIDU0413F0625-8	0.413 - 0.429	0.625	0.787	3.307	1.890	5.835	5.859	4.669	10	DM*105 - DM*109	4901886	\$401.00
TIDU0433F0625-8	0.433 - 0.449	0.625	0.787	3.465	1.890	6.008	6.032	4.858	11	DM*110 - DM*114	4901890	\$401.00
TIDU0453F0625-8	0.453 - 0.469	0.625	0.787	3.622	1.890	6.165	6.189	5.015	11	DM*115 - DM*119	4901893	\$401.00
TIDU0472F0625-8	0.472 - 0.488	0.625	0.787	3.780	1.890	6.339	6.363	5.181	12	DM*120 - DM*124	4901897	\$401.00
TIDU0492F0625-8	0.492 - 0.508	0.625	0.787	3.937	1.890	6.496	6.520	5.339	12	DM*125 - DM*129	4901901	\$401.00
TIDU0512F0625-8	0.512 - 0.528	0.625	0.787	4.094	1.890	6.677	6.708	5.619	13	DM*130 - DM*134	4901906	\$431.85
TIDU0532F0625-8	0.532 - 0.547	0.625	0.787	4.252	1.890	6.835	6.866	5.776	13	DM*135 - DM*139	4901910	\$431.85
TIDU0551F0625-8	0.551 - 0.567	0.625	0.787	4.409	1.890	7.091	7.122	5.941	14	DM*140 - DM*144	4901915	\$431.85
TIDU0571F0625-8	0.571 - 0.587	0.625	0.787	4.567	1.890	7.252	7.283	6.098	14	DM*145 - DM*149	4901919	\$431.85
TIDU0591F0750-8	0.591 - 0.626	0.750	0.984	4.724	1.969	7.626	7.661	6.268	15	DM*150 - DM*159	4901924	\$457.65
TIDU0630F0750-8	0.630 - 0.665	0.750	0.984	5.039	1.969	8.004	8.043	6.426	16	DM*160 - DM*169	4796089	\$457.65
TIDU0669F0750-8	0.669 - 0.705	0.750	0.984	5.354	1.969	8.382	8.421	6.596	17	DM*170 - DM*179	4901931	\$549.95
TIDU0709F1000-8	0.709 - 0.744	1.000	1.260	5.669	2.205	8.996	9.039	6.753	18	DM*180 - DM*189	4901936	\$604.00
TIDU0748F1000-8	0.748 - 0.783	1.000	1.260	5.984	2.205	9.370	9.413	7.006	19	DM*190 - DM*199	4901941	\$604.00
TIDU0787F1000-8	0.787 - 0.823	1.000	1.260	6.299	2.205	9.748	9.795	7.164	20	DMP200 - DMP209	4901946	\$604.00
TIDU0827F1000-8	0.827 - 0.862	1.000	1.260	6.614	2.205	10.126	10.174	7.537	21	DMP210 - DMP219	4901951	\$725.80
TIDU0866F1000-8	0.866 - 0.902	1.000	1.260	6.929	2.205	10.504	10.554	7.907	22	DMP220 - DMP229	4901955	\$725.80
TIDU0906F1250-8	0.906 - 0.941	1.250	1.654	7.244	2.362	11.035	11.089	8.274	23	DMP230 - DMP239	4901960	\$798.40
TIDU0945F1250-8	0.945 - 0.980	1.250	1.654	7.559	2.362	11.413	11.468	8.876	24	DMP240 - DMP249	4901964	\$798.40
TIDU0984F1250-8	0.984 - 1.020	1.250	1.654	7.874	2.362	11.791	11.850	9.244	25	DMP250 - DMP259	4901968	\$894.35

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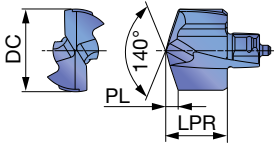
DRILLMEISTER DMP DRILL HEAD

General Purpose

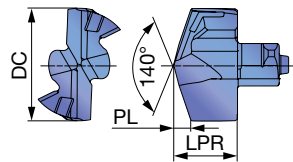
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DMP040 - DMP059



DMP060 - DMP259



DESIGNATION	DC (IN)	DC (MM)	LPR (MM)	PL (MM)	BODY	AH725 COATED		AH9130 COATED	
						A&M #	SALE PRICE	A&M #	SALE PRICE
DMP040	0.157	4	3.1	0.62	TID*040...	5527785	\$96.00	—	—
DMP041	0.161	4.1	3.1	0.64	TID*040...	5527786	\$96.00	—	—
DMP042	0.165	4.2	3.1	0.66	TID*040...	5527787	\$96.00	—	—
DMP043	0.169	4.3	3.1	0.67	TID*040...	5527788	\$96.00	—	—
DMP044	0.173	4.4	3.1	0.69	TID*040...	5527789	\$96.00	—	—
DMP045	0.177	4.5	3.55	0.66	TID*045...	5527753	\$96.00	—	—
DMP046	0.181	4.6	3.55	0.68	TID*045...	5527759	\$96.00	—	—
DMP047	0.185	4.7	3.55	0.70	TID*045...	5527760	\$96.00	—	—
DMP048	0.189	4.8	3.55	0.71	TID*045...	5527761	\$96.00	—	—
DMP049	0.193	4.9	3.55	0.73	TID*045...	5527762	\$96.00	—	—
DMP050	0.197	5	3.7	0.73	TID*050...	5527763	\$96.00	—	—
DMP051	0.201	5.1	3.7	0.75	TID*050...	5527764	\$96.00	—	—
DMP052	0.205	5.2	3.7	0.77	TID*050...	5527765	\$96.00	—	—
DMP053	0.209	5.3	3.7	0.78	TID*050...	5527766	\$96.00	—	—
DMP054	0.213	5.4	3.7	0.8	TID*050...	5527767	\$96.00	—	—
DMP055	0.217	5.5	3.85	0.81	TID*055...	5527768	\$96.00	—	—
DMP056	0.220	5.6	3.85	0.83	TID*055...	5527769	\$96.00	—	—
DMP057	0.224	5.7	3.85	0.85	TID*055...	5527770	\$96.00	—	—
DMP058	0.228	5.8	3.85	0.86	TID*055...	5527771	\$96.00	—	—
DMP059	0.232	5.9	3.85	0.88	TID*055...	5527772	\$96.00	—	—
DMP060	0.236	6	3.85	1.09	TID*060...	4893219	\$96.00	—	—
DMP061	0.240	6.1	3.85	1.11	TID*060...	4788955	\$96.00	—	—
DMP062	0.244	6.2	3.85	1.13	TID*060...	4893220	\$96.00	—	—
DMP063	0.248	6.3	3.85	1.14	TID*060...	4893221	\$96.00	—	—
DMP064	0.252	6.4	3.85	1.16	TID*060...	4893222	\$96.00	5834422	\$96.00
DMP065	0.256	6.5	4.15	1.27	TID*065...	4893223	\$96.00	5834423	\$96.00
DMP066	0.260	6.6	4.15	1.29	TID*065...	4893225	\$96.00	5834424	\$96.00
DMP067	0.264	6.7	4.15	1.31	TID*065...	4893226	\$96.00	5834425	\$96.00
DMP068	0.268	6.8	4.15	1.33	TID*065...	4893227	\$96.00	5529112	\$96.00
DMP069	0.272	6.9	4.15	1.34	TID*065...	4893228	\$96.00	5834426	\$96.00
DMP070	0.276	7	4.45	1.03	TID*070...	4893229	\$96.00	5834427	\$96.00
DMP071	0.280	7.1	4.45	1.05	TID*070...	4893230	\$96.00	5834428	\$96.00
DMP072	0.283	7.2	4.45	1.07	TID*070...	4893231	\$96.00	5834429	\$96.00
DMP073	0.287	7.3	4.45	1.08	TID*070...	4893232	\$96.00	5834430	\$96.00
DMP074	0.291	7.4	4.45	1.1	TID*070...	4893233	\$96.00	5834431	\$96.00
DMP075	0.295	7.5	4.45	1.12	TID*075...	4893234	\$96.00	5529113	\$96.00
DMP076	0.299	7.6	4.45	1.14	TID*075...	4893236	\$96.00	5834432	\$96.00

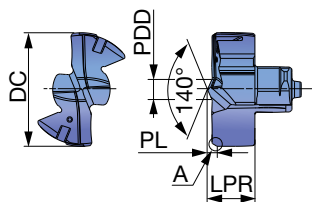
DESIGNATION	DC (IN)	DC (MM)	LPR (MM)	PL (MM)	BODY	AH725 COATED		AH9130 COATED	
						A&M #	SALE PRICE	A&M #	SALE PRICE
DMP077	0.303	7.7	4.45	1.16	TID*075...	4893238	\$96.00	5834433	\$96.00
DMP078	0.307	7.8	4.45	1.18	TID*075...	4893239	\$96.00	5834434	\$96.00
DMP079	0.311	7.9	4.45	1.19	TID*075...	4746753	\$96.00	5834435	\$96.00
DMP080	0.315	8	5.25	1.2	TID*080...	4893241	\$96.00	5529114	\$96.00
DMP081	0.319	8.1	5.25	1.22	TID*080...	4893242	\$96.00	5834436	\$96.00
DMP082	0.323	8.2	5.25	1.24	TID*080...	4893243	\$96.00	5834437	\$96.00
DMP083	0.327	8.3	5.25	1.25	TID*080...	4893244	\$96.00	5834438	\$96.00
DMP084	0.331	8.4	5.25	1.27	TID*080...	4893245	\$96.00	5834439	\$96.00
DMP085	0.335	8.5	5.25	1.29	TID*085...	4893246	\$96.00	5529115	\$96.00
DMP086	0.339	8.6	5.25	1.31	TID*085...	4893247	\$96.00	5834440	\$96.00
DMP087	0.343	8.7	5.25	1.33	TID*085...	4893248	\$96.00	5834441	\$96.00
DMP088	0.346	8.8	5.25	1.35	TID*085...	4893249	\$96.00	5834442	\$96.00
DMP089	0.350	8.9	5.25	1.36	TID*085...	4893250	\$96.00	5834443	\$96.00
DMP090	0.354	9	5.65	1.37	TID*090...	4893251	\$96.00	5529116	\$96.00
DMP091	0.358	9.1	5.65	1.39	TID*090...	4893252	\$96.00	5834444	\$96.00
DMP092	0.362	9.2	5.65	1.41	TID*090...	4893253	\$96.00	5834445	\$96.00
DMP093	0.366	9.3	5.65	1.42	TID*090...	4893254	\$96.00	5834446	\$96.00
DMP094	0.370	9.4	5.65	1.44	TID*090...	4893255	\$96.00	5834447	\$96.00
DMP095	0.374	9.5	5.65	1.46	TID*095...	4893256	\$96.00	5529117	\$96.00
DMP096	0.378	9.6	5.65	1.48	TID*095...	4893257	\$105.10	5834448	\$105.10
DMP097	0.382	9.7	5.65	1.5	TID*095...	4893258	\$105.10	5834449	\$105.10
DMP098	0.386	9.8	5.65	1.52	TID*095...	4893259	\$105.10	5834450	\$105.10
DMP099	0.390	9.9	5.65	1.53	TID*095...	4893260	\$105.10	5834451	\$105.10
DMP100	0.394	10	6.05	1.47	TID*100...	4893261	\$105.10	4917210	\$105.10
DMP101	0.398	10.1	6.05	1.49	TID*100...	4893262	\$105.10	5834452	\$105.10
DMP102	0.402	10.2	6.05	1.51	TID*100...	4893263	\$105.10	5834453	\$105.10
DMP103	0.406	10.3	6.05	1.52	TID*100...	4893264	\$105.10	4917626	\$105.10
DMP104	0.409	10.4	6.05	1.54	TID*100...	4893265	\$105.10	4917627	\$105.10
DMP105	0.413	10.5	6.05	1.56	TID*105...	4893266	\$105.10	4917211	\$105.10
DMP106	0.417	10.6	6.05	1.58	TID*105...	4893267	\$105.10	5526774	\$105.10
DMP107	0.421	10.7	6.05	1.6	TID*105...	4893268	\$105.10	5834454	\$105.10
DMP108	0.425	10.8	6.05	1.62	TID*105...	4893269	\$105.10	4917212	\$105.10
DMP109	0.429	10.9	6.05	1.63	TID*105...	4893270	\$105.10	5834455	\$105.10
DMP110	0.433	11	6.45	1.67	TID*110...	4893271	\$105.10	4917213	\$105.10
DMP111	0.437	11.1	6.45	1.69	TID*110...	4893272	\$105.10	5526775	\$105.10
DMP112	0.441	11.2	6.45	1.71	TID*110...	4893273	\$105.10	5526776	\$105.10
DMP113	0.445	11.3	6.45	1.72	TID*110...	4893274	\$105.10	4917628	\$105.10
DMP114	0.449	11.4	6.45	1.74	TID*110...	4893275	\$105.10	5834456	\$105.10
DMP115	0.453	11.5	6.45	1.76	TID*115...	4893276	\$105.10	4917214	\$105.10
DMP116	0.457	11.6	6.45	1.78	TID*115...	4893277	\$105.10	5834457	\$105.10
DMP117	0.461	11.7	6.45	1.8	TID*115...	4893278	\$105.10	5526777	\$105.10
DMP118	0.465	11.8	6.45	1.82	TID*115...	4893279	\$105.10	5834458	\$105.10
DMP119	0.469	11.9	6.45	1.83	TID*115...	4893280	\$105.10	5834459	\$105.10
DMP120	0.472	12	6.8	1.82	TID*120...	4893281	\$105.10	4917215	\$105.10
DMP121	0.476	12.1	6.8	1.84	TID*120...	4893282	\$109.20	4917629	\$109.20
DMP122	0.480	12.2	6.8	1.86	TID*120...	4893283	\$109.20	5526778	\$109.20
DMP123	0.484	12.3	6.8	1.87	TID*120...	4893284	\$109.20	4917630	\$109.20
DMP124	0.488	12.4	6.8	1.89	TID*120...	4893285	\$109.20	4917631	\$109.20
DMP125	0.492	12.5	6.8	1.91	TID*125...	4893286	\$109.20	4917216	\$109.20
DMP126	0.496	12.6	6.8	1.93	TID*125...	4893287	\$109.20	4917217	\$109.20
DMP127	0.500	12.7	6.8	1.95	TID*125...	4826599	\$109.20	4917632	\$109.20
DMP128	0.504	12.8	6.8	1.97	TID*125...	4893288	\$109.20	5526779	\$109.20
DMP129	0.508	12.9	6.8	1.98	TID*125...	4893289	\$109.20	5834460	\$109.20
DMP130	0.512	13	7.4	1.96	TID*130...	4893290	\$109.20	4917218	\$109.20
DMP131	0.516	13.1	7.4	1.98	TID*130...	4893291	\$109.20	5834461	\$109.20
DMP132	0.520	13.2	7.4	2	TID*130...	4893292	\$109.20	5834462	\$109.20
DMP133	0.524	13.3	7.4	2.01	TID*130...	4893293	\$109.20	4917633	\$109.20
DMP134	0.528	13.4	7.4	2.03	TID*130...	4893294	\$109.20	5834463	\$109.20
DMP135	0.531	13.5	7.4	2.05	TID*135...	4893295	\$109.20	4917219	\$109.20
DMP136	0.535	13.6	7.4	2.07	TID*135...	4893296	\$109.20	5834464	\$109.20
DMP137	0.539	13.7	7.4	2.09	TID*135...	4893297	\$109.20	5526780	\$109.20
DMP138	0.543	13.8	7.4	2.11	TID*135...	4893298	\$109.20	4917220	\$109.20

DESIGNATION	DC (IN)	DC (MM)	LPR (MM)	PL (MM)	BODY	AH725 COATED		AH9130 COATED	
						A&M #	SALE PRICE	A&M #	SALE PRICE
DMP139	0.547	13.9	7.4	2.12	TID*135...	4893299	\$109.20	4917634	\$109.20
DMP140	0.551	14.1	7.95	2.12	TID*140...	4893300	\$109.20	4917221	\$109.20
DMP141	0.555	14.1	7.95	2.14	TID*140...	4893301	\$109.20	5526781	\$109.20
DMP142	0.559	14.2	7.95	2.16	TID*140...	4893302	\$109.20	4917222	\$109.20
DMP143	0.563	14.3	7.95	2.17	TID*140...	4893303	\$109.20	4917635	\$109.20
DMP144	0.567	14.4	7.95	2.19	TID*140...	4893304	\$109.20	5834465	\$109.20
DMP145	0.571	14.5	7.95	2.21	TID*145...	4893305	\$109.20	4917223	\$109.20
DMP146	0.575	14.6	7.95	2.23	TID*145...	4893306	\$109.20	5526782	\$109.20
DMP147	0.579	14.7	7.95	2.25	TID*145...	4893307	\$109.20	5834466	\$109.20
DMP148	0.583	14.8	7.95	2.27	TID*145...	4893308	\$109.20	5834467	\$109.20
DMP149	0.587	14.9	7.95	2.28	TID*145...	4893309	\$109.20	5834468	\$109.20
DMP150	0.591	15	8.53	2.27	TID*150...	4893310	\$116.40	4917224	\$116.40
DMP151	0.594	15.1	8.53	2.29	TID*150...	4893311	\$116.40	5526783	\$116.40
DMP152	0.598	15.2	8.53	2.31	TID*150...	4893312	\$116.40	4917225	\$116.40
DMP153	0.602	15.3	8.53	2.32	TID*150...	4893313	\$116.40	4917636	\$116.40
DMP154	0.606	15.4	8.53	2.34	TID*150...	4893314	\$116.40	5834469	\$116.40
DMP155	0.610	15.5	8.53	2.36	TID*150...	4893315	\$116.40	4917226	\$116.40
DMP156	0.614	15.6	8.53	2.38	TID*150...	4893316	\$116.40	5526784	\$116.40
DMP157	0.618	15.7	8.53	2.4	TID*150...	4893317	\$116.40	5526785	\$116.40
DMP158	0.622	15.8	8.53	2.42	TID*150...	4893318	\$116.40	4917227	\$116.40
DMP159	0.626	15.9	8.53	2.43	TID*150...	4893319	\$116.40	5834470	\$116.40
DMP160	0.630	16	9.1	2.42	TID*160...	4796859	\$116.40	4917228	\$116.40
DMP161	0.634	16.1	9.1	2.44	TID*160...	4796090	\$126.70	4917637	\$126.70
DMP162	0.638	16.2	9.1	2.46	TID*160...	4796091	\$126.70	5834471	\$126.70
DMP163	0.642	16.3	9.1	2.47	TID*160...	4893320	\$126.70	4917638	\$126.70
DMP164	0.646	16.4	9.1	2.49	TID*160...	4893321	\$126.70	5834472	\$126.70
DMP165	0.650	16.5	9.1	2.51	TID*160...	4893322	\$126.70	4917229	\$126.70
DMP166	0.654	16.6	9.1	2.53	TID*160...	4893323	\$126.70	4917639	\$126.70
DMP167	0.657	16.7	9.1	2.55	TID*160...	4893324	\$126.70	4917640	\$126.70
DMP168	0.661	16.8	9.1	2.57	TID*160...	4893325	\$126.70	5834473	\$126.70
DMP169	0.665	16.9	9.1	2.58	TID*160...	4893326	\$126.70	5834474	\$126.70
DMP170	0.669	17	9.7	2.59	TID*170...	4893327	\$126.70	4917230	\$126.70
DMP171	0.673	17.1	9.7	2.61	TID*170...	4893328	\$126.70	5834475	\$126.70
DMP172	0.677	17.2	9.7	2.63	TID*170...	4893329	\$126.70	5834476	\$126.70
DMP173	0.681	17.3	9.7	2.64	TID*170...	4893330	\$126.70	5834477	\$126.70
DMP174	0.685	17.4	9.7	2.66	TID*170...	4893331	\$126.70	5834478	\$126.70
DMP175	0.689	17.5	9.7	2.68	TID*170...	4744916	\$126.70	4917231	\$126.70
DMP176	0.693	17.6	9.7	2.7	TID*170...	4893332	\$126.70	5526786	\$126.70
DMP177	0.697	17.7	9.7	2.72	TID*170...	4893333	\$126.70	5834479	\$126.70
DMP178	0.701	17.8	9.7	2.74	TID*170...	4893334	\$126.70	5526787	\$126.70
DMP179	0.705	17.9	9.7	2.75	TID*170...	4893335	\$126.70	4917641	\$126.70
DMP180	0.709	18	10.3	2.73	TID*180...	4893336	\$126.70	4917232	\$126.70
DMP181	0.713	18.1	10.3	2.75	TID*180...	4893337	\$146.30	5834480	\$146.30
DMP182	0.717	18.2	10.3	2.77	TID*180...	4893338	\$146.30	5834481	\$146.30
DMP183	0.720	18.3	10.3	2.78	TID*180...	4893339	\$146.30	5526788	\$146.30
DMP184	0.724	18.4	10.3	2.8	TID*180...	4893340	\$146.30	5834482	\$146.30
DMP185	0.728	18.5	10.3	2.82	TID*180...	4893341	\$146.30	4917233	\$146.30
DMP186	0.732	18.6	10.3	2.84	TID*180...	4893342	\$146.30	5834483	\$146.30
DMP187	0.736	18.7	10.3	2.86	TID*180...	4893343	\$146.30	5834484	\$146.30
DMP188	0.740	18.8	10.3	2.88	TID*180...	4893344	\$146.30	5834485	\$146.30
DMP189	0.744	18.9	10.3	2.89	TID*180...	4893345	\$146.30	5834486	\$146.30
DMP190	0.748	19	10.8	2.88	TID*190...	4893346	\$146.30	4917234	\$146.30
DMP1905	0.750	19.05	10.8	2.89	TID*190...	4893235	\$146.30	5834487	\$146.30
DMP191	0.752	19.1	10.8	2.9	TID*190...	4893347	\$146.30	5834488	\$146.30
DMP192	0.756	19.2	10.8	2.92	TID*190...	4893348	\$146.30	5834489	\$146.30
DMP1927	0.759	19.27	10.8	2.93	TID*190...	4917209	\$146.30	—	—
DMP193	0.760	19.3	10.8	2.93	TID*190...	4893349	\$146.30	4917642	\$146.30
DMP194	0.764	19.4	10.8	2.95	TID*190...	4893350	\$146.30	4917643	\$146.30
DMP195	0.768	19.5	10.8	2.97	TID*190...	4893351	\$146.30	4917235	\$146.30
DMP196	0.772	19.6	10.8	2.99	TID*190...	4893352	\$146.30	5834490	\$146.30
DMP197	0.776	19.7	10.8	3.01	TID*190...	4893353	\$146.30	5834491	\$146.30
DMP198	0.780	19.8	10.8	3.03	TID*190...	4893354	\$146.30	4917644	\$146.30

						AH725 COATED		AH9130 COATED	
DESIGNATION	DC (IN)	DC (MM)	LPR (MM)	PL (MM)	BODY	A&M #	SALE PRICE	A&M #	SALE PRICE
DMP199	0.783	19.9	10.8	3.04	TID*190...	4893355	\$146.30	5834492	\$146.30
DMP200	0.787	20	11.4	3.02	TID*200...	4893356	\$146.30	5529103	\$146.30
DMP201	0.791	20.1	11.4	3.04	TID*200...	4893357	\$167.90	5529104	\$167.90
DMP202	0.795	20.2	11.4	3.06	TID*200...	4893358	\$167.90	5834493	\$167.90
DMP203	0.799	20.3	11.4	3.07	TID*200...	4893359	\$167.90	5834494	\$167.90
DMP204	0.803	20.4	11.4	3.09	TID*200...	4893360	\$167.90	5834495	\$167.90
DMP205	0.807	20.5	11.4	3.11	TID*200...	4893361	\$167.90	5529105	\$167.90
DMP206	0.811	20.6	11.4	3.13	TID*200...	4893362	\$167.90	5834496	\$167.90
DMP207	0.815	20.7	11.4	3.15	TID*200...	4893363	\$167.90	5834497	\$167.90
DMP208	0.819	20.8	11.4	3.17	TID*200...	4893364	\$167.90	5834498	\$167.90
DMP209	0.823	20.9	11.4	3.18	TID*200...	4893365	\$167.90	5834499	\$167.90
DMP210	0.827	21	11.98	3.18	TID*210...	4893366	\$167.90	5529106	\$167.90
DMP211	0.831	21.1	11.98	3.2	TID*210...	4893367	\$167.90	5834500	\$167.90
DMP212	0.835	21.2	11.98	3.22	TID*210...	4893368	\$167.90	5834501	\$167.90
DMP213	0.839	21.3	11.98	3.23	TID*210...	4893369	\$167.90	5834502	\$167.90
DMP214	0.843	21.4	11.98	3.25	TID*210...	4893370	\$167.90	5834503	\$167.90
DMP215	0.846	21.5	11.98	3.27	TID*210...	4893371	\$167.90	5834504	\$167.90
DMP216	0.850	21.6	11.98	3.29	TID*210...	4893372	\$167.90	5834505	\$167.90
DMP217	0.854	21.7	11.98	3.31	TID*210...	4893373	\$167.90	5834506	\$167.90
DMP218	0.858	21.8	11.98	3.33	TID*210...	4893374	\$167.90	5834507	\$167.90
DMP219	0.862	21.9	11.98	3.34	TID*210...	4893375	\$167.90	5834508	\$167.90
DMP220	0.866	22	12.56	3.32	TID*220...	4893376	\$167.90	5529107	\$167.90
DMP221	0.870	22.1	12.56	3.34	TID*220...	4893377	\$173.05	5834509	\$173.05
DMP222	0.874	22.2	12.56	3.36	TID*220...	4893378	\$173.05	5621297	\$173.05
DMP223	0.878	22.3	12.56	3.37	TID*220...	4893379	\$173.05	5529108	\$173.05
DMP224	0.882	22.4	12.56	3.39	TID*220...	4893380	\$173.05	5834510	\$173.05
DMP225	0.886	22.5	12.56	3.41	TID*220...	4893381	\$173.05	5834511	\$173.05
DMP226	0.890	22.6	12.56	3.43	TID*220...	4893382	\$173.05	5834512	\$173.05
DMP227	0.894	22.7	12.56	3.45	TID*220...	4893383	\$173.05	5834513	\$173.05
DMP228	0.898	22.8	12.56	3.47	TID*220...	4893384	\$173.05	5834514	\$173.05
DMP229	0.902	22.9	12.56	3.48	TID*220...	4825255	\$173.05	5834515	\$173.05
DMP230	0.906	23	13.13	3.46	TID*230...	4893385	\$173.05	5834516	\$173.05
DMP231	0.909	23.1	13.13	3.48	TID*230...	4893386	\$173.05	5834517	\$173.05
DMP232	0.913	23.2	13.13	3.5	TID*230...	4893387	\$173.05	5834518	\$173.05
DMP233	0.917	23.3	13.13	3.51	TID*230...	4893388	\$173.05	5834519	\$173.05
DMP234	0.921	23.4	13.13	3.53	TID*230...	4893389	\$173.05	5834520	\$173.05
DMP235	0.925	23.5	13.13	3.55	TID*230...	4893390	\$173.05	5834521	\$173.05
DMP236	0.929	23.6	13.13	3.57	TID*230...	4893391	\$173.05	5834522	\$173.05
DMP237	0.933	23.7	13.13	3.59	TID*230...	4893392	\$173.05	5834523	\$173.05
DMP238	0.937	23.8	13.13	3.61	TID*230...	4893393	\$173.05	5834524	\$173.05
DMP239	0.941	23.9	13.13	3.62	TID*230...	4893394	\$173.05	5834525	\$173.05
DMP240	0.945	24	13.7	3.62	TID*240...	4893395	\$187.50	5529109	\$187.50
DMP241	0.949	24.1	13.7	3.64	TID*240...	4893396	\$187.50	5834526	\$187.50
DMP242	0.953	24.2	13.7	3.66	TID*240...	4893397	\$187.50	5834527	\$187.50
DMP243	0.957	24.3	13.7	3.67	TID*240...	4893398	\$187.50	5834528	\$187.50
DMP244	0.961	24.4	13.7	3.69	TID*240...	4893399	\$187.50	5834529	\$187.50
DMP245	0.965	24.5	13.7	3.71	TID*240...	4893400	\$187.50	5834530	\$187.50
DMP246	0.969	24.6	13.7	3.73	TID*240...	4893401	\$187.50	5834531	\$187.50
DMP247	0.972	24.7	13.7	3.75	TID*240...	4893402	\$187.50	5834532	\$187.50
DMP248	0.976	24.8	13.7	3.77	TID*240...	4893403	\$187.50	5834533	\$187.50
DMP249	0.980	24.9	13.7	3.78	TID*240...	4893404	\$187.50	5834534	\$187.50
DMP250	0.984	25	14.3	3.8	TID*250...	4893405	\$187.50	5529110	\$187.50
DMP251	0.988	25.1	14.3	3.82	TID*250...	4893406	\$187.50	5834535	\$187.50
DMP252	0.992	25.2	14.3	3.84	TID*250...	4893407	\$187.50	5834536	\$187.50
DMP253	0.996	25.3	14.3	3.85	TID*250...	4893408	\$187.50	5834537	\$187.50
DMP254	1.000	25.4	14.3	3.87	TID*250...	4893409	\$187.50	5834538	\$187.50
DMP255	1.004	25.5	14.3	3.89	TID*250...	4893410	\$187.50	5834539	\$187.50
DMP256	1.008	25.6	14.3	3.91	TID*250...	4893411	\$187.50	5834540	\$187.50
DMP2567	1.011	25.67	14.3	3.92	TID*250...	4917238	\$187.50	5834541	\$187.50
DMP257	1.012	25.7	14.3	3.93	TID*250...	4893412	\$187.50	5834542	\$187.50
DMP258	1.016	25.8	14.3	3.95	TID*250...	4893413	\$187.50	5834543	\$187.50
DMP259	1.020	25.9	14.3	3.96	TID*250...	4893414	\$187.50	5529111	\$187.50

DRILLMEISTER DMF DRILL HEAD

Flat Geometry Head



SCAN TO LEARN ABOUT THE
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DRILLMEISTER

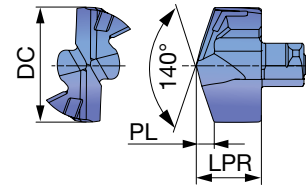
DESIGNATION	DC (IN)	DC (MM)	LPR (MM)	AH9130 COATING	SDL (MM)	PL (MM)	PDD (MM)	BODY	A&M #	SALE PRICE
DMF060	0.236	6	3.01	•	0.4	0.61	1.15	TID*060...	5526886	\$100.35
DMF062	0.244	6.2	3.01	•	0.4	0.61	1.15	TID*060...	6477416	\$100.35
DMF063	0.248	6.3	3.01	•	0.4	0.61	1.15	TID*060...	6477417	\$100.35
DMF064	0.252	6.4	3.01	•	0.4	0.61	1.15	TID*060...	6477418	\$100.35
DMF065	0.256	6.5	3.28	•	0.4	0.68	1.54	TID*065...	5526887	\$100.35
DMF066	0.260	6.6	3.28	•	0.4	0.68	1.54	TID*065...	6477419	\$100.35
DMF068	0.268	6.8	3.28	•	0.4	0.68	1.54	TID*065...	5526888	\$100.35
DMF069	0.272	6.9	3.28	•	0.4	0.68	1.54	TID*065...	6682838	\$100.35
DMF070	0.276	7	3.58	•	0.4	0.68	1.54	TID*070...	5526889	\$100.35
DMF071	0.280	7.1	3.58	•	0.4	0.68	1.54	TID*070...	6477420	\$100.35
DMF072	0.283	7.2	3.58	•	0.4	0.68	1.54	TID*070...	6477421	\$100.35
DMF073	0.287	7.3	3.58	•	0.4	0.68	1.54	TID*070...	6477422	\$100.35
DMF074	0.291	7.4	3.58	•	0.4	0.68	1.54	TID*070...	6477423	\$100.35
DMF075	0.295	7.5	3.58	•	0.4	0.68	1.54	TID*075...	5526890	\$100.35
DMF076	0.299	7.6	3.58	•	0.4	0.68	1.54	TID*075...	6477424	\$100.35
DMF078	0.307	7.8	3.58	•	0.4	0.68	1.54	TID*075...	6477426	\$100.35
DMF079	0.311	7.9	3.58	•	0.4	0.68	1.54	TID*075...	5834400	\$100.35
DMF080	0.315	8	4.39	•	0.7	1.09	2.44	TID*080...	5526891	\$100.35
DMF081	0.319	8.1	4.39	•	0.7	1.09	2.44	TID*080...	5526892	\$100.35
DMF082	0.323	8.2	4.39	•	0.7	1.09	2.44	TID*080...	6477427	\$100.35
DMF083	0.327	8.3	4.39	•	0.7	1.09	2.44	TID*080...	6477428	\$100.35
DMF084	0.331	8.4	4.39	•	0.7	1.09	2.44	TID*080...	6477429	\$100.35
DMF085	0.335	8.5	4.39	•	0.7	1.09	2.44	TID*085...	5526893	\$100.35
DMF086	0.339	8.6	4.39	•	0.7	1.09	2.44	TID*085...	6477430	\$100.35
DMF087	0.343	8.7	4.39	•	0.7	1.09	2.44	TID*085...	5526895	\$100.35
DMF088	0.346	8.8	4.39	•	0.7	1.09	2.44	TID*085...	6477431	\$100.35
DMF089	0.350	8.9	4.39	•	0.7	1.09	2.44	TID*085...	6477432	\$100.35
DMF090	0.354	9	4.61	•	0.7	1.11	2.55	TID*090...	5526897	\$100.35
DMF091	0.358	9.1	4.61	•	0.7	1.11	2.55	TID*090...	6477433	\$100.35
DMF092	0.362	9.2	4.61	•	0.7	1.11	2.55	TID*090...	6477434	\$100.35
DMF093	0.366	9.3	4.61	•	0.7	1.11	2.55	TID*090...	6477435	\$100.35
DMF094	0.370	9.4	4.61	•	0.7	1.11	2.55	TID*090...	6477436	\$100.35
DMF095	0.374	9.5	4.61	•	0.7	1.11	2.55	TID*095...	5526898	\$100.35
DMF096	0.378	9.6	4.61	•	0.7	1.11	2.55	TID*095...	6477437	\$110.25
DMF097	0.382	9.7	4.61	•	0.7	1.11	2.55	TID*095...	6477438	\$110.25
DMF098	0.386	9.8	4.61	•	0.7	1.11	2.55	TID*095...	6477439	\$110.25
DMF099	0.390	9.9	4.61	•	0.7	1.11	2.55	TID*095...	6477440	\$110.25
DMF100	0.394	10	4.72	•	0.7	1.17	2.89	TID*100...	4918350	\$110.25
DMF101	0.398	10.1	4.72	•	0.7	1.17	2.89	TID*100...	4913055	\$110.25
DMF103	0.406	10.3	4.72	•	0.7	1.17	2.89	TID*100...	4918301	\$110.25
DMF104	0.409	10.4	4.72	•	0.7	1.17	2.89	TID*100...	4917910	\$110.25
DMF105	0.413	10.5	4.72	•	0.7	1.17	2.89	TID*105...	4918348	\$110.25
DMF106	0.417	10.6	4.72	•	0.7	1.17	2.89	TID*105...	4913054	\$110.25
DMF107	0.421	10.7	4.72	•	0.7	1.17	2.89	TID*105...	4918355	\$110.25
DMF108	0.425	10.8	4.72	•	0.7	1.17	2.89	TID*105...	4918356	\$110.25
DMF110	0.433	11	4.9	•	0.7	1.25	2.98	TID*110...	4918354	\$110.25
DMF115	0.453	11.5	4.9	•	0.7	1.25	2.98	TID*115...	4918353	\$110.25
DMF117	0.461	11.7	4.9	•	0.7	1.25	2.98	TID*115...	4918351	\$110.25
DMF120	0.472	12	5.21	•	0.7	1.26	3.13	TID*120...	4917911	\$110.25
DMF121	0.476	12.1	5.21	•	0.7	1.26	3.13	TID*120...	4918349	\$114.35
DMF122	0.480	12.2	5.21	•	0.7	1.26	3.13	TID*120...	4918352	\$114.35

DESIGNATION	DC (IN)	DC (MM)	LPR (MM)	AH9130 COATING	SDL (MM)	PL (MM)	PDD (MM)	BODY	A&M #	SALE PRICE
DMF123	0.484	12.3	5.21	•	0.7	1.26	3.13	TID*120...	4918357	\$114.35
DMF124	0.488	12.4	5.21	•	0.7	1.26	3.13	TID*120...	4918358	\$114.35
DMF125	0.492	12.5	5.21	•	0.7	1.26	3.13	TID*125...	4918359	\$114.35
DMF126	0.496	12.6	5.21	•	0.7	1.26	3.13	TID*125...	4918360	\$114.35
DMF127	0.500	12.7	5.21	•	0.7	1.26	3.13	TID*125...	4918361	\$114.35
DMF130	0.512	13	5.53	•	0.7	1.28	3.52	TID*130...	4918362	\$114.35
DMF131	0.516	13.1	5.53	•	0.7	1.28	3.52	TID*130...	4918363	\$114.35
DMF133	0.524	13.3	5.53	•	0.7	1.28	3.52	TID*130...	4918364	\$114.35
DMF135	0.531	13.5	5.53	•	0.7	1.28	3.52	TID*135...	4918365	\$114.35
DMF137	0.539	13.7	5.53	•	0.7	1.28	3.52	TID*135...	4918366	\$114.35
DMF138	0.543	13.8	5.53	•	0.7	1.28	3.52	TID*135...	4918367	\$114.35
DMF139	0.547	13.9	5.53	•	0.7	1.28	3.52	TID*135...	4918368	\$114.35
DMF140	0.551	14	5.96	•	0.7	1.31	3.81	TID*140...	4918369	\$114.35
DMF141	0.555	14.1	5.96	•	0.7	1.31	3.81	TID*140...	4918370	\$114.35
DMF142	0.559	14.2	5.96	•	0.7	1.31	3.81	TID*140...	4918371	\$114.35
DMF143	0.563	14.3	5.96	•	0.7	1.31	3.81	TID*140...	4918372	\$114.35
DMF144	0.567	14.4	5.96	•	0.7	1.31	3.81	TID*140...	4918373	\$114.35
DMF145	0.571	14.5	5.96	•	0.7	1.31	3.81	TID*145...	4918374	\$114.35
DMF150	0.591	15	6.43	•	0.7	1.35	4.24	TID*150...	4918375	\$121.55
DMF152	0.598	15.2	6.43	•	0.7	1.35	4.24	TID*150...	4918376	\$121.55
DMF155	0.610	15.5	6.43	•	0.7	1.35	4.24	TID*150...	4918377	\$121.55
DMF157	0.618	15.7	6.43	•	0.7	1.35	4.24	TID*150...	4918378	\$121.55
DMF158	0.622	15.8	6.43	•	0.7	1.35	4.24	TID*150...	4918379	\$121.55
DMF160	0.630	16	6.84	•	0.7	1.39	4.06	TID*160...	4918380	\$121.55
DMF161	0.634	16.1	6.84	•	0.7	1.39	4.06	TID*160...	4918381	\$132.90
DMF165	0.650	16.5	6.84	•	0.7	1.39	4.06	TID*160...	4918382	\$132.90
DMF167	0.657	16.7	6.84	•	0.7	1.39	4.06	TID*160...	4918383	\$132.90
DMF170	0.669	17	7.15	•	0.7	1.4	4.14	TID*170...	4918384	\$132.90
DMF175	0.689	17.5	7.15	•	0.7	1.4	4.14	TID*170...	4918385	\$132.90
DMF179	0.705	17.9	7.15	•	0.7	1.4	4.14	TID*170...	4918386	\$132.90
DMF180	0.709	18	7.45	•	0.7	1.42	4.16	TID*180...	4918387	\$132.90
DMF185	0.728	18.5	7.45	•	0.7	1.42	4.16	TID*180...	4918388	\$152.45
DMF190	0.748	19	7.79	•	0.7	1.44	4.25	TID*190...	4918389	\$152.45
DMF195	0.768	19.5	7.79	•	0.7	1.44	4.25	TID*190...	4918390	\$152.45
DMF198	0.780	19.8	7.79	•	0.7	1.44	4.25	TID*190...	4918391	\$152.45
DMF200	0.787	20	9.12	•	0.7	1.77	6.56	TID*200...	5529164	\$166.30
DMF205	0.807	20.5	9.12	•	0.7	1.77	6.56	TID*200...	5529165	\$166.30
DMF210	0.827	21	9.54	•	0.7	1.79	6.92	TID*210...	5529166	\$176.15
DMF215	0.846	21.5	9.54	•	0.7	1.79	6.92	TID*210...	5529167	\$176.15
DMF218	0.858	21.8	9.54	•	0.7	1.79	6.92	TID*210...	5529168	\$176.15
DMF220	0.866	22	9.86	•	0.7	1.81	7.13	TID*220...	5529169	\$176.15
DMF225	0.886	22.5	9.86	•	0.7	1.81	7.13	TID*220...	5529184	\$176.15
DMF230	0.906	23	10.28	•	0.7	1.83	7.42	TID*230...	5529149	\$176.15
DMF235	0.925	23.5	10.28	•	0.7	1.83	7.42	TID*230...	5529185	\$176.15
DMF240	0.945	24	10.71	•	0.7	1.86	7.45	TID*240...	5529170	\$195.70
DMF245	0.965	24.5	10.71	•	0.7	1.86	7.45	TID*240...	5529171	\$195.70
DMF250	0.984	25	11.15	•	0.7	1.9	7.54	TID*250...	5529172	\$195.70
DMF254	1.000	25.4	11.15	•	0.7	1.9	7.54	TID*250...	5529173	\$195.70
DMF255	1.004	25.5	11.15	•	0.7	1.9	7.54	TID*250...	5529186	\$195.70
DMF259	1.020	25.9	11.15	•	0.7	1.9	7.54	TID*250...	5529174	\$195.70

DRILLMEISTER DMH DRILL HEAD

High Strength Cutting Edge

SCAN TO LEARN ABOUT THE
UNPARALLELED
VERSATILITY & VALUE OF
DRILLMEISTER



DESIGNATION	DC (IN)	DC (MM)	LPR (MM)	AH9130 COATING	PL (MM)	BODY	A&M #	SALE PRICE
DMH060	0.236	6	3.85	•	1.09	TID*060...	6477477	\$96.00
DMH068	0.268	6.8	4.15	•	1.33	TID*065...	6477478	\$96.00
DMH070	0.276	7	4.45	•	1.03	TID*070...	6477479	\$96.00
DMH075	0.295	7.5	4.45	•	1.12	TID*075...	6477480	\$96.00
DMH080	0.315	8	5.25	•	1.2	TID*080...	6477481	\$96.00
DMH085	0.335	8.5	5.25	•	1.29	TID*085...	6477482	\$96.00
DMH086	0.339	8.6	5.25	•	1.31	TID*085...	6477483	\$96.00
DMH087	0.343	8.7	5.25	•	1.33	TID*085...	6477484	\$96.00
DMH088	0.346	8.8	5.25	•	1.35	TID*085...	6477485	\$96.00
DMH090	0.354	9	5.65	•	1.37	TID*090...	6477486	\$96.00
DMH095	0.374	9.5	5.65	•	1.46	TID*095...	6477487	\$96.00
DMH097	0.382	9.7	5.65	•	1.5	TID*095...	6477488	\$105.10
DMH100	0.394	10	6.05	•	1.47	TID*100...	4918399	\$105.10
DMH101	0.398	10.1	6.05	•	1.49	TID*100...	6477371	\$105.10
DMH103	0.406	10.3	6.05	•	1.52	TID*100...	4918400	\$105.10
DMH105	0.413	10.5	6.05	•	1.56	TID*105...	4918401	\$105.10
DMH106	0.417	10.6	6.05	•	1.58	TID*105...	6477372	\$105.10
DMH107	0.421	10.7	6.05	•	1.6	TID*105...	6477373	\$105.10
DMH108	0.425	10.8	6.05	•	1.62	TID*105...	4918402	\$105.10
DMH110	0.433	11	6.45	•	1.67	TID*110...	4918403	\$105.10
DMH111	0.437	11.1	6.45	•	1.69	TID*110...	6477374	\$105.10
DMH112	0.441	11.2	6.45	•	1.71	TID*110...	6477375	\$105.10
DMH113	0.445	11.3	6.45	•	1.72	TID*110...	6477376	\$105.10
DMH114	0.449	11.4	6.45	•	1.74	TID*110...	6477377	\$105.10
DMH115	0.453	11.5	6.45	•	1.76	TID*115...	4918404	\$105.10
DMH117	0.461	11.7	6.45	•	1.8	TID*115...	6477378	\$105.10
DMH118	0.465	11.8	6.45	•	1.82	TID*115...	6477379	\$105.10
DMH119	0.469	11.9	6.45	•	1.83	TID*115...	6682922	\$105.10
DMH120	0.472	12	6.8	•	1.82	TID*120...	4918396	\$105.10
DMH121	0.476	12.1	6.8	•	1.84	TID*120...	6477380	\$109.20
DMH122	0.480	12.2	6.8	•	1.86	TID*120...	6477381	\$109.20
DMH123	0.484	12.3	6.8	•	1.87	TID*120...	6477382	\$109.20
DMH124	0.488	12.4	6.8	•	1.89	TID*120...	6682923	\$109.20
DMH125	0.492	12.5	6.8	•	1.91	TID*125...	4918405	\$109.20
DMH126	0.496	12.6	6.8	•	1.93	TID*125...	4918406	\$109.20
DMH127	0.500	12.7	6.8	•	1.95	TID*125...	6477383	\$109.20
DMH128	0.504	12.8	6.8	•	1.97	TID*125...	6477384	\$109.20
DMH129	0.508	12.9	6.8	•	1.98	TID*125...	6477385	\$109.20
DMH130	0.512	13	7.4	•	1.96	TID*130...	4918407	\$109.20
DMH131	0.516	13.1	7.4	•	1.98	TID*130...	6477386	\$109.20
DMH132	0.520	13.2	7.4	•	2	TID*130...	6477387	\$109.20
DMH133	0.524	13.3	7.4	•	2.01	TID*130...	4918408	\$109.20
DMH134	0.528	13.4	7.4	•	2.03	TID*130...	6477388	\$109.20
DMH135	0.531	13.5	7.4	•	2.05	TID*135...	4918409	\$109.20
DMH136	0.535	13.6	7.4	•	2.07	TID*135...	6477389	\$109.20
DMH137	0.539	13.7	7.4	•	2.09	TID*135...	4918410	\$109.20
DMH138	0.543	13.8	7.4	•	2.11	TID*135...	4918411	\$109.20
DMH139	0.547	13.9	7.4	•	2.12	TID*135...	4918412	\$109.20
DMH140	0.551	14	7.95	•	2.12	TID*140...	4918397	\$109.20
DMH141	0.555	14.1	7.95	•	2.14	TID*140...	6477390	\$109.20
DMH142	0.559	14.2	7.95	•	2.16	TID*140...	4918413	\$109.20

DESIGNATION	DC (IN)	DC (MM)	LPR (MM)	AH9130 COATING	PL (MM)	BODY	A&M #	SALE PRICE
DMH143	0.563	14.3	7.95	•	2.17	TID*140...	6477391	\$109.20
DMH144	0.567	14.4	7.95	•	2.19	TID*140...	6477392	\$109.20
DMH145	0.571	14.5	7.95	•	2.21	TID*145...	4918414	\$109.20
DMH146	0.575	14.6	7.95	•	2.23	TID*145...	6477393	\$109.20
DMH147	0.579	14.7	7.95	•	2.25	TID*145...	6477394	\$109.20
DMH150	0.591	15	8.53	•	2.27	TID*150...	4918415	\$116.40
DMH151	0.594	15.1	8.53	•	2.29	TID*150...	6477395	\$116.40
DMH152	0.598	15.2	8.53	•	2.31	TID*150...	4918416	\$116.40
DMH153	0.602	15.3	8.53	•	2.32	TID*150...	6477396	\$116.40
DMH154	0.606	15.4	8.53	•	2.34	TID*150...	6477397	\$116.40
DMH155	0.610	15.5	8.53	•	2.36	TID*150...	4918417	\$116.40
DMH156	0.614	15.6	8.53	•	2.38	TID*150...	6477398	\$116.40
DMH157	0.618	15.7	8.53	•	2.40	TID*150...	6477399	\$116.40
DMH158	0.622	15.8	8.53	•	2.42	TID*150...	6477400	\$116.40
DMH160	0.630	16	9.1	•	2.42	TID*160...	4918418	\$116.40
DMH162	0.638	16.2	9.1	•	2.46	TID*160...	6477401	\$126.70
DMH163	0.642	16.3	9.1	•	2.47	TID*160...	6477402	\$126.70
DMH165	0.650	16.5	9.1	•	2.51	TID*160...	4918419	\$126.70
DMH166	0.654	16.6	9.1	•	2.53	TID*160...	6477403	\$126.70
DMH167	0.657	16.7	9.1	•	2.55	TID*160...	6477404	\$126.70
DMH170	0.669	17	9.7	•	2.59	TID*170...	4918420	\$126.70
DMH171	0.673	17.1	9.7	•	2.61	TID*170...	6477405	\$126.70
DMH175	0.689	17.5	9.7	•	2.68	TID*170...	4918421	\$126.70
DMH177	0.697	17.7	9.7	•	2.72	TID*170...	6477406	\$126.70
DMH179	0.705	17.9	9.7	•	2.75	TID*170...	6477407	\$126.70
DMH180	0.709	18	10.3	•	2.73	TID*180...	4918398	\$126.70
DMH181	0.713	18.1	10.3	•	2.75	TID*180...	6477408	\$146.30
DMH183	0.720	18.3	10.3	•	2.78	TID*180...	6477409	\$146.30
DMH185	0.728	18.5	10.3	•	2.82	TID*180...	4918422	\$146.30
DMH187	0.736	18.7	10.3	•	2.86	TID*180...	6477410	\$146.30
DMH190	0.748	19	10.8	•	2.88	TID*190...	4918423	\$146.30
DMH191	0.752	19.1	10.8	•	2.90	TID*190...	6477411	\$146.30
DMH192	0.756	19.2	10.8	•	2.92	TID*190...	6477412	\$146.30
DMH193	0.760	19.3	10.8	•	2.93	TID*190...	6477413	\$146.30
DMH194	0.764	19.4	10.8	•	2.95	TID*190...	4918424	\$146.30
DMH195	0.768	19.5	10.8	•	2.97	TID*190...	4918425	\$146.30
DMH196	0.772	19.6	10.8	•	2.99	TID*190...	6477414	\$146.30
DMH197	0.776	19.7	10.8	•	3.01	TID*190...	6477415	\$146.30
DMH200	0.787	20	11.4	•	3.02	TID*200...	6477489	\$146.30
DMH205	0.807	20.5	11.4	•	3.11	TID*200...	6477490	\$167.90
DMH210	0.827	21	11.98	•	3.18	TID*210...	6477491	\$167.90
DMH215	0.846	21.5	11.98	•	3.27	TID*210...	5834415	\$167.90
DMH220	0.866	22	12.56	•	3.32	TID*220...	6477492	\$167.90
DMH225	0.886	22.5	12.56	•	3.41	TID*220...	5834416	\$173.05
DMH230	0.906	23	13.13	•	3.46	TID*230...	6477493	\$173.05
DMH235	0.925	23.5	13.13	•	3.55	TID*230...	5834417	\$173.05
DMH240	0.945	24	13.7	•	3.62	TID*240...	6477494	\$187.50
DMH245	0.965	24.5	13.7	•	3.71	TID*240...	6477495	\$187.50
DMH250	0.984	25	14.3	•	3.8	TID*250...	6477496	\$187.50
DMH255	1.004	25.5	14.3	•	3.89	TID*250...	6477497	\$187.50

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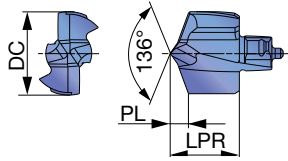
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DRILLMEISTER DMC DRILL HEAD

For High Precision Holes

CONTINUED ON
NEXT PAGE



DESIGNATION	DC (IN)	DC (MM)	LPR (MM)	AH9130 COATING	PL (MM)	BODY	A&M #	SALE PRICE
DMC040	0.157	4	3.51	•	0.86	TID*040...	6477503	\$102.80
DMC041	0.161	4.1	3.51	•	0.88	TID*040...	6477504	\$102.80
DMC042	0.165	4.2	3.51	•	0.9	TID*040...	6477505	\$102.80
DMC043	0.169	4.3	3.51	•	0.92	TID*040...	6477506	\$102.80
DMC044	0.173	4.4	3.51	•	0.94	TID*040...	6477507	\$102.80
DMC045	0.177	4.5	3.81	•	0.97	TID*045...	6477498	\$102.80
DMC046	0.181	4.6	3.81	•	0.99	TID*045...	6477499	\$102.80
DMC047	0.185	4.7	3.81	•	1.01	TID*045...	6477500	\$102.80
DMC048	0.189	4.8	3.81	•	1.03	TID*045...	6477501	\$102.80
DMC049	0.193	4.9	3.81	•	1.05	TID*045...	6477502	\$102.80
DMC050	0.197	5	4.14	•	1.09	TID*050...	5527773	\$102.80
DMC051	0.201	5.1	4.14	•	1.11	TID*050...	5527774	\$102.80
DMC052	0.205	5.2	4.14	•	1.13	TID*050...	5527775	\$102.80
DMC053	0.209	5.3	4.14	•	1.15	TID*050...	5527776	\$102.80
DMC054	0.213	5.4	4.14	•	1.17	TID*050...	5527777	\$102.80
DMC055	0.217	5.5	4.17	•	1.22	TID*055...	5527778	\$102.80
DMC056	0.220	5.6	4.17	•	1.24	TID*055...	5527779	\$102.80
DMC057	0.224	5.7	4.17	•	1.26	TID*055...	5527780	\$102.80
DMC058	0.228	5.8	4.17	•	1.28	TID*055...	5527781	\$102.80
DMC059	0.232	5.9	4.17	•	1.3	TID*055...	5527782	\$102.80
DMC060	0.236	6	4	•	1.24	TID*060...	4918455	\$106.10
DMC061	0.240	6.1	4	•	1.26	TID*060...	4918456	\$106.10
DMC062	0.244	6.2	4	•	1.28	TID*060...	4918457	\$106.10
DMC063	0.248	6.3	4	•	1.3	TID*060...	4918458	\$106.10
DMC064	0.252	6.4	4	•	1.32	TID*060...	4918459	\$106.10
DMC065	0.256	6.5	4.3	•	1.33	TID*065...	4918460	\$106.10
DMC066	0.260	6.6	4.3	•	1.35	TID*065...	4918461	\$106.10
DMC067	0.264	6.7	4.3	•	1.37	TID*065...	4918462	\$106.10
DMC068	0.268	6.8	4.3	•	1.39	TID*065...	4918463	\$106.10
DMC069	0.272	6.9	4.3	•	1.41	TID*065...	4918464	\$106.10
DMC070	0.276	7	4.9	•	1.48	TID*070...	4918465	\$106.10
DMC071	0.280	7.1	4.9	•	1.5	TID*070...	4918466	\$106.10
DMC072	0.283	7.2	4.9	•	1.52	TID*070...	4918467	\$106.10
DMC073	0.287	7.3	4.9	•	1.54	TID*070...	4918468	\$106.10
DMC074	0.291	7.4	4.9	•	1.56	TID*070...	4918469	\$106.10
DMC075	0.295	7.5	4.9	•	1.58	TID*075...	4918470	\$106.10
DMC076	0.299	7.6	4.9	•	1.6	TID*075...	4918471	\$106.10
DMC077	0.303	7.7	4.9	•	1.62	TID*075...	4918472	\$106.10
DMC078	0.307	7.8	4.9	•	1.64	TID*075...	4918473	\$106.10
DMC079	0.311	7.9	4.9	•	1.66	TID*075...	4918474	\$106.10
DMC080	0.315	8	5.4	•	1.62	TID*080...	4917645	\$106.10
DMC081	0.319	8.1	5.4	•	1.64	TID*080...	4917646	\$106.10

DESIGNATION	DC (IN)	DC (MM)	LPR (MM)	AH9130 COATING	PL (MM)	BODY	A&M #	SALE PRICE
DMC082	0.323	8.2	5.4	•	1.66	TID*080...	4917647	\$106.10
DMC083	0.327	8.3	5.4	•	1.68	TID*080...	4917648	\$106.10
DMC084	0.331	8.4	5.4	•	1.7	TID*080...	4917649	\$106.10
DMC085	0.335	8.5	5.4	•	1.72	TID*085...	4917650	\$106.10
DMC086	0.339	8.6	5.4	•	1.74	TID*085...	4917651	\$106.10
DMC087	0.343	8.7	5.4	•	1.76	TID*085...	4917652	\$106.10
DMC088	0.346	8.8	5.4	•	1.78	TID*085...	4917653	\$106.10
DMC089	0.350	8.9	5.4	•	1.8	TID*085...	4917654	\$106.10
DMC090	0.354	9	5.8	•	1.91	TID*090...	4917655	\$106.10
DMC091	0.358	9.1	5.8	•	1.93	TID*090...	4917656	\$106.10
DMC092	0.362	9.2	5.8	•	1.95	TID*090...	4917657	\$106.10
DMC093	0.366	9.3	5.8	•	1.97	TID*090...	4917658	\$106.10
DMC094	0.370	9.4	5.8	•	1.99	TID*090...	4917659	\$106.10
DMC095	0.374	9.5	5.8	•	2.01	TID*095...	4917660	\$106.10
DMC096	0.378	9.6	5.8	•	2.03	TID*095...	4917661	\$116.40
DMC097	0.382	9.7	5.8	•	2.05	TID*095...	4917662	\$116.40
DMC098	0.386	9.8	5.8	•	2.07	TID*095...	4917663	\$116.40
DMC099	0.390	9.9	5.8	•	2.09	TID*095...	4917664	\$116.40
DMC100	0.394	10	6.67	•	2.09	TID*100...	4907954	\$116.40
DMC101	0.398	10.1	6.67	•	2.11	TID*100...	4907955	\$116.40
DMC102	0.402	10.2	6.67	•	2.13	TID*100...	4907956	\$116.40
DMC103	0.406	10.3	6.67	•	2.15	TID*100...	4907957	\$116.40
DMC104	0.409	10.4	6.67	•	2.17	TID*100...	4907958	\$116.40
DMC105	0.413	10.5	6.67	•	2.19	TID*105...	4907959	\$116.40
DMC106	0.417	10.6	6.67	•	2.21	TID*105...	4907960	\$116.40
DMC107	0.421	10.7	6.67	•	2.23	TID*105...	4916123	\$116.40
DMC108	0.425	10.8	6.67	•	2.25	TID*105...	4907961	\$116.40
DMC109	0.429	10.9	6.67	•	2.27	TID*105...	4916124	\$116.40
DMC110	0.433	11	7.1	•	2.32	TID*110...	4907962	\$116.40
DMC111	0.437	11.1	7.1	•	2.34	TID*110...	4915142	\$116.40
DMC112	0.441	11.2	7.1	•	2.36	TID*110...	4907963	\$116.40
DMC113	0.445	11.3	7.1	•	2.38	TID*110...	4907964	\$116.40
DMC114	0.449	11.4	7.1	•	2.4	TID*110...	4915143	\$116.40
DMC115	0.453	11.5	7.1	•	2.42	TID*115...	4907965	\$116.40
DMC116	0.457	11.6	7.1	•	2.44	TID*115...	4907966	\$116.40
DMC117	0.461	11.7	7.1	•	2.46	TID*115...	4907967	\$116.40
DMC118	0.465	11.8	7.1	•	2.48	TID*115...	4907968	\$116.40
DMC119	0.469	11.9	7.1	•	2.5	TID*115...	4907969	\$116.40
DMC120	0.472	12	7.43	•	2.45	TID*120...	4907970	\$116.40
DMC121	0.476	12.1	7.43	•	2.47	TID*120...	4907971	\$121.55
DMC122	0.480	12.2	7.43	•	2.49	TID*120...	4916112	\$121.55
DMC123	0.484	12.3	7.43	•	2.51	TID*120...	4907972	\$121.55
DMC124	0.488	12.4	7.43	•	2.53	TID*120...	4907973	\$121.55
DMC125	0.492	12.5	7.43	•	2.55	TID*125...	4907974	\$121.55
DMC126	0.496	12.6	7.43	•	2.57	TID*125...	4907975	\$121.55
DMC127	0.500	12.7	7.43	•	2.59	TID*125...	4826598	\$121.55
DMC128	0.504	12.8	7.43	•	2.61	TID*125...	4916116	\$121.55
DMC129	0.508	12.9	7.43	•	2.63	TID*125...	4916117	\$121.55
DMC130	0.512	13	8.15	•	2.71	TID*130...	4907976	\$121.55
DMC131	0.516	13.1	8.15	•	2.73	TID*130...	4907977	\$121.55
DMC132	0.520	13.2	8.15	•	2.75	TID*130...	4916113	\$121.55
DMC133	0.524	13.3	8.15	•	2.77	TID*130...	4907978	\$121.55
DMC134	0.528	13.4	8.15	•	2.79	TID*130...	4916114	\$121.55
DMC135	0.531	13.5	8.15	•	2.81	TID*135...	4907979	\$121.55
DMC136	0.535	13.6	8.15	•	2.83	TID*135...	4916110	\$121.55
DMC137	0.539	13.7	8.15	•	2.85	TID*135...	4916118	\$121.55
DMC138	0.543	13.8	8.15	•	2.87	TID*135...	4907980	\$121.55
DMC139	0.547	13.9	8.15	•	2.89	TID*135...	4916111	\$121.55
DMC140	0.551	14	8.76	•	2.93	TID*140...	4907981	\$121.55
DMC141	0.555	14.1	8.76	•	2.95	TID*140...	4915144	\$121.55

DESIGNATION	DC (IN)	DC (MM)	LPR (MM)	AH9130 COATING	PL (MM)	BODY	A&M #	SALE PRICE
DMC142	0.559	14.2	8.76	•	2.97	TID*140...	4907982	\$121.55
DMC143	0.563	14.3	8.76	•	2.99	TID*140...	4907983	\$121.55
DMC144	0.567	14.4	8.76	•	3.01	TID*140...	4915145	\$121.55
DMC145	0.571	14.5	8.76	•	3.03	TID*145...	4907984	\$121.55
DMC146	0.575	14.6	8.76	•	3.05	TID*145...	4907985	\$121.55
DMC147	0.579	14.7	8.76	•	3.07	TID*145...	4907986	\$121.55
DMC148	0.583	14.8	8.76	•	3.09	TID*145...	4907987	\$121.55
DMC149	0.587	14.9	8.76	•	3.11	TID*145...	4907988	\$121.55
DMC150	0.591	15	9.44	•	3.18	TID*150...	4907989	\$129.80
DMC151	0.594	15.1	9.44	•	3.2	TID*150...	4916689	\$129.80
DMC152	0.598	15.2	9.44	•	3.22	TID*150...	4907990	\$129.80
DMC153	0.602	15.3	9.44	•	3.24	TID*150...	4916690	\$129.80
DMC154	0.606	15.4	9.44	•	3.26	TID*150...	4916691	\$129.80
DMC155	0.610	15.5	9.44	•	3.28	TID*150...	4907991	\$129.80
DMC156	0.614	15.6	9.44	•	3.3	TID*150...	4907992	\$129.80
DMC157	0.618	15.7	9.44	•	3.32	TID*150...	4907992	\$129.80
DMC158	0.622	15.8	9.44	•	3.34	TID*150...	4907993	\$129.80
DMC159	0.626	15.9	9.44	•	3.36	TID*150...	4907994	\$129.80
DMC160	0.630	16	10.07	•	3.39	TID*160...	4907995	\$129.80
DMC161	0.634	16.1	10.07	•	3.41	TID*160...	4907996	\$141.15
DMC162	0.638	16.2	10.07	•	3.43	TID*160...	4907997	\$141.15
DMC163	0.642	16.3	10.07	•	3.45	TID*160...	4907998	\$141.15
DMC164	0.646	16.4	10.07	•	3.47	TID*160...	4907999	\$141.15
DMC165	0.650	16.5	10.07	•	3.49	TID*160...	4908000	\$141.15
DMC166	0.654	16.6	10.07	•	3.51	TID*160...	4916119	\$141.15
DMC167	0.657	16.7	10.07	•	3.53	TID*160...	4908001	\$141.15
DMC168	0.661	16.8	10.07	•	3.55	TID*160...	4916109	\$141.15
DMC169	0.665	16.9	10.07	•	3.57	TID*160...	4916120	\$141.15
DMC170	0.669	17	10.68	•	3.57	TID*170...	4908002	\$141.15
DMC171	0.673	17.1	10.68	•	3.59	TID*170...	4915146	\$141.15
DMC172	0.677	17.2	10.68	•	3.61	TID*170...	4916693	\$141.15
DMC173	0.681	17.3	10.68	•	3.63	TID*170...	4916694	\$141.15
DMC174	0.685	17.4	10.68	•	3.65	TID*170...	4916695	\$141.15
DMC175	0.689	17.5	10.68	•	3.67	TID*170...	4908003	\$141.15
DMC176	0.693	17.6	10.68	•	3.69	TID*170...	4915147	\$141.15
DMC177	0.697	17.7	10.68	•	3.71	TID*170...	4916696	\$141.15
DMC178	0.701	17.8	10.68	•	3.73	TID*170...	4908004	\$141.15
DMC179	0.705	17.9	10.68	•	3.75	TID*170...	4908005	\$141.15
DMC180	0.709	18	11.35	•	3.78	TID*180...	4908006	\$141.15
DMC181	0.713	18.1	11.35	•	3.8	TID*180...	4916115	\$161.75
DMC182	0.717	18.2	11.35	•	3.82	TID*180...	4916697	\$161.75
DMC183	0.720	18.3	11.35	•	3.84	TID*180...	4916698	\$161.75
DMC184	0.724	18.4	11.35	•	3.86	TID*180...	4916121	\$161.75
DMC185	0.728	18.5	11.35	•	3.88	TID*180...	4908007	\$161.75
DMC186	0.732	18.6	11.35	•	3.9	TID*180...	4916699	\$161.75
DMC187	0.736	18.7	11.35	•	3.92	TID*180...	4916700	\$161.75
DMC188	0.740	18.8	11.35	•	3.94	TID*180...	4916701	\$161.75
DMC189	0.744	18.9	11.35	•	3.96	TID*180...	4916122	\$161.75
DMC190	0.748	19	11.91	•	3.99	TID*190...	4908008	\$161.75
DMC191	0.752	19.1	11.91	•	4.01	TID*190...	4916702	\$161.75
DMC192	0.756	19.2	11.91	•	4.03	TID*190...	4915148	\$161.75
DMC1927	0.759	19.27	11.91	•	4.04	TID*190...	4917236	\$161.75
DMC193	0.760	19.3	11.91	•	4.05	TID*190...	4916703	\$161.75
DMC194	0.764	19.4	11.91	•	4.07	TID*190...	4916704	\$161.75
DMC195	0.768	19.5	11.91	•	4.09	TID*190...	4908009	\$161.75
DMC196	0.772	19.6	11.91	•	4.11	TID*190...	4916705	\$161.75
DMC197	0.776	19.7	11.91	•	4.13	TID*190...	4916706	\$161.75
DMC198	0.780	19.8	11.91	•	4.15	TID*190...	4916707	\$161.75
DMC199	0.783	19.9	11.91	•	4.17	TID*190...	4916708	\$161.75
DMC200	0.787	20	12.62	•	4.24	TID*200...	4918283	\$161.75

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DMC201	0.791	20.1	12.62	•	4.26	TID*200...	6477508	\$186.45
DMC202	0.795	20.2	12.62	•	4.28	TID*200...	6477509	\$186.45
DMC203	0.799	20.3	12.62	•	4.3	TID*200...	6477510	\$186.45
DMC204	0.803	20.4	12.62	•	4.32	TID*200...	6477511	\$186.45
DMC205	0.807	20.5	12.62	•	4.34	TID*200...	4918284	\$186.45
DMC206	0.811	20.6	12.62	•	4.36	TID*200...	5529120	\$186.45
DMC207	0.815	20.7	12.62	•	4.38	TID*200...	6477512	\$186.45
DMC208	0.819	20.8	12.62	•	4.4	TID*200...	6477513	\$186.45
DMC209	0.823	20.9	12.62	•	4.42	TID*200...	6477514	\$186.45
DMC210	0.827	21	13.2	•	4.4	TID*210...	4918285	\$186.45
DMC211	0.831	21.1	13.2	•	4.42	TID*210...	5529121	\$186.45
DMC212	0.835	21.2	13.2	•	4.44	TID*210...	6477515	\$186.45
DMC213	0.839	21.3	13.2	•	4.46	TID*210...	6477516	\$186.45
DMC214	0.843	21.4	13.2	•	4.48	TID*210...	6477517	\$186.45
DMC215	0.846	21.5	13.2	•	4.5	TID*210...	4918286	\$186.45
DMC216	0.850	21.6	13.2	•	4.52	TID*210...	6477518	\$186.45
DMC217	0.854	21.7	13.2	•	4.54	TID*210...	5529122	\$186.45
DMC218	0.858	21.8	13.2	•	4.56	TID*210...	5529123	\$186.45
DMC219	0.862	21.9	13.2	•	4.58	TID*210...	6477519	\$186.45
DMC220	0.866	22	13.84	•	4.6	TID*220...	4918287	\$186.45
DMC221	0.870	22.1	13.84	•	4.62	TID*220...	5529124	\$192.65
DMC222	0.874	22.2	13.84	•	4.64	TID*220...	5529125	\$192.65
DMC223	0.878	22.3	13.84	•	4.66	TID*220...	5529126	\$192.65
DMC224	0.882	22.4	13.84	•	4.68	TID*220...	6477520	\$192.65
DMC225	0.886	22.5	13.84	•	4.7	TID*220...	4918288	\$192.65
DMC226	0.890	22.6	13.84	•	4.72	TID*220...	5834397	\$192.65
DMC227	0.894	22.7	13.84	•	4.74	TID*220...	6477521	\$192.65
DMC228	0.898	22.8	13.84	•	4.76	TID*220...	6477522	\$192.65
DMC229	0.902	22.9	13.84	•	4.78	TID*220...	6477523	\$192.65
DMC230	0.906	23	14.51	•	4.84	TID*230...	4918289	\$192.65
DMC231	0.909	23.1	14.51	•	4.84	TID*220...	6477524	\$192.65
DMC232	0.913	23.2	14.51	•	4.86	TID*230...	6477525	\$192.65
DMC233	0.917	23.3	14.51	•	4.88	TID*220...	6477526	\$192.65
DMC234	0.921	23.4	14.51	•	4.9	TID*230...	5834398	\$192.65
DMC235	0.925	23.5	14.51	•	4.94	TID*230...	4918290	\$192.65
DMC236	0.929	23.6	14.51	•	4.94	TID*230...	6477527	\$192.65
DMC237	0.933	23.7	14.51	•	4.96	TID*230...	6477528	\$192.65
DMC238	0.937	23.8	14.51	•	4.98	TID*230...	6477529	\$192.65
DMC239	0.941	23.9	14.51	•	5	TID*230...	6477530	\$192.65
DMC240	0.945	24	15.11	•	5.03	TID*240...	4918291	\$208.10
DMC241	0.949	24.1	15.11	•	5.24	TID*240...	6477531	\$208.10
DMC242	0.953	24.2	15.11	•	5.26	TID*240...	6642799	\$208.10
DMC243	0.957	24.3	15.11	•	5.28	TID*240...	6477532	\$208.10
DMC244	0.961	24.4	15.11	•	5.3	TID*240...	6477533	\$208.10
DMC245	0.965	24.5	15.11	•	5.13	TID*240...	4918292	\$208.10
DMC246	0.969	24.6	15.11	•	5.34	TID*240...	6477534	\$208.10
DMC247	0.972	24.7	15.11	•	5.36	TID*240...	6477535	\$208.10
DMC248	0.976	24.8	15.11	•	5.38	TID*240...	6477536	\$208.10
DMC249	0.980	24.9	15.11	•	5.4	TID*240...	6477537	\$208.10
DMC250	0.984	25	15.78	•	5.28	TID*250...	4918293	\$208.10
DMC251	0.988	25.1	15.78	•	5.71	TID*250...	6477538	\$208.10
DMC252	0.992	25.2	15.78	•	5.73	TID*250...	6477539	\$208.10
DMC253	0.996	25.3	15.78	•	5.34	TID*250...	5529127	\$208.10
DMC254	1.000	25.4	15.78	•	5.77	TID*250...	5834399	\$208.10
DMC255	1.004	25.5	15.78	•	5.38	TID*250...	4918294	\$208.10
DMC256	1.008	25.6	15.78	•	5.81	TID*250...	6477540	\$208.10
DMC2567	1.011	25.67	15.78	•	5.42	TID*250...	4917237	\$208.10
DMC257	1.012	25.7	15.78	•	5.83	TID*250...	6477541	\$208.10
DMC258	1.016	25.8	15.78	•	5.85	TID*250...	6477542	\$208.10
DMC259	1.020	25.9	15.78	•	5.46	TID*250...	5529128	\$208.10

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SCHEDULE A CUTTING TOOLS ASSESSMENT TODAY!

A&M Industrial's expert team can work with you to:

- Identify the cutting tools & speed/feed rates best-suited for your application
- Reduce cycle times and speed up set-up
- Identify and document potential cost savings



WE CAN HELP YOU CREATE A MORE PRODUCTIVE & PROFITABLE SHOP.
SCAN TO LEARN MORE OR TO REQUEST A FREE MACHINING ASSESSMENT



SOLID CARBIDE HIGH PERFORMANCE DRILLS

For Steels • h6 Shank • 140° Point Angle



- Optimized for best-in-class performance in 4140 Steel with superior performance in a wide variety of Steels and other Alloy Steels.
- Provides excellent performance in Stainless Steels and Cast Iron.
- Engineered double margin geometry provides performance and stability when drilling intersecting holes and/or exiting holes on inclined or irregular surfaces.
- Proprietary Val-Max X coating for improved tool life and heat resistance.
- Precision manufactured in the USA.

DRILL DIAMETER		MAX DRILL DEPTH			FLUTE LENGTH (L3)	POINT ANGLE LENGTH (L4)	SHANK DIAMETER D2 (H6)	OVERALL LENGTH (L1)	MFR #	A&M #	SALE PRICE
INCH	D1 MM (H8)	INCH	(L2)	HOLE DEPTH							
.0625 (1/16)	1.587mm	.187	4.75mm	(3X)	6.13mm	.29mm	3mm	63mm	V973517-X	6617096	\$51.54
.0625 (1/16)	1.587mm	.312	7.95mm	(5X)	9.46mm	.29mm	3mm	63mm	V296154-X	6617097	\$66.26
.0937 (3/32)	2.381mm	.281	7.15mm	(3X)	9.20mm	.43mm	3mm	63mm	V964923-X	6617779	\$51.54
.0937 (3/32)	2.381mm	.468	11.90mm	(5X)	14.20mm	.43mm	3mm	63mm	V170896-X	6617780	\$71.30
.1250 (1/8)	3.175mm	.374	9.50mm	(3X)	12.27mm	.58mm	4mm	63mm	V757262-X	6617919	\$45.34
.1250 (1/8)	3.175mm	.625	15.90mm	(5X)	18.94mm	.58mm	4mm	63mm	V407402-X	6617920	\$58.51
.1562 (5/32)	3.968mm	.468	11.90mm	(3X)	15.34mm	.72mm	4mm	63mm	V535133-X	6618046	\$45.34
.1562 (5/32)	3.968mm	.781	19.85mm	(5X)	23.67mm	.72mm	4mm	63mm	V651106-X	6618047	\$58.51
.1875 (3/16)	4.762mm	.562	14.30mm	(3X)	18.41mm	.87mm	6mm	63mm	V400615-X	6618237	\$48.44
.1875 (3/16)	4.762mm	.937	23.80mm	(5X)	28.41mm	.87mm	6mm	75mm	V236564-X	6618238	\$60.06
.2187 (7/32)	5.556mm	.655	16.65mm	(3X)	21.47mm	1.01mm	6mm	63mm	V412034-X	6618369	\$48.44
.2187 (7/32)	5.556mm	1.094	27.80mm	(5X)	33.14mm	1.01mm	6mm	75mm	V550391-X	6618370	\$60.06
.2500 (1/4)	6.350mm	.749	19.05mm	(3X)	24.54mm	1.16mm	8mm	75mm	V809169-X	6618514	\$58.13
.2500 (1/4)	6.350mm	1.249	31.75mm	(5X)	37.88mm	1.16mm	8mm	100mm	V715183-X	6618515	\$69.36
.2812 (9/32)	7.142mm	.844	21.45mm	(3X)	27.61mm	1.30mm	8mm	75mm	V952277-X	6618646	\$61.61
.2812 (9/32)	7.142mm	1.405	35.70mm	(5X)	42.60mm	1.30mm	8mm	100mm	V425690-X	6618647	\$75.56
.3125 (5/16)	7.937mm	.937	23.80mm	(3X)	30.68mm	1.44mm	8mm	75mm	V922027-X	6618772	\$61.61
.3125 (5/16)	7.937mm	1.562	39.70mm	(5X)	47.35mm	1.44mm	8mm	100mm	V962711-X	6618773	\$75.56
.3438 (11/32)	8.732mm	1.031	26.20mm	(3X)	33.75mm	1.59mm	10mm	75mm	V270614-X	6618917	\$73.63
.3438 (11/32)	8.732mm	1.718	43.65mm	(5X)	52.09mm	1.59mm	10mm	100mm	V831670-X	6618918	\$84.09
.3750 (3/8)	9.525mm	1.125	28.60mm	(3X)	36.82mm	1.73mm	10mm	75mm	V543634-X	6619052	\$78.28
.3750 (3/8)	9.525mm	1.875	47.65mm	(5X)	56.82mm	1.73mm	10mm	100mm	V294737-X	6619053	\$92.23
.4062 (13/32)	10.317mm	1.218	30.95mm	(3X)	39.88mm	1.88mm	12mm	100mm	V558064-X	6617326	\$105.40
.4062 (13/32)	10.317mm	2.031	51.60mm	(5X)	61.55mm	1.88mm	12mm	125mm	V617000-X	6617327	\$122.45
.4375 (7/16)	11.112mm	1.312	33.35mm	(3X)	42.95mm	2.02mm	12mm	100mm	V538378-X	6617467	\$105.40
.4375 (7/16)	11.112mm	2.187	55.55mm	(5X)	66.29mm	2.02mm	12mm	125mm	V533490-X	6617468	\$122.45
.4688 (15/32)	11.907mm	1.405	35.70mm	(3X)	46.03mm	2.17mm	12mm	100mm	V354466-X	6617597	\$110.44
.4688 (15/32)	11.907mm	2.344	59.55mm	(5X)	71.03mm	2.17mm	12mm	125mm	V650664-X	6617598	\$127.10
.5000 (1/2)	12.700mm	1.499	38.10mm	(3X)	49.09mm	2.31mm	14mm	100mm	V608930-X	6617706	\$142.60
.5000 (1/2)	12.700mm	2.499	63.50mm	(5X)	75.76mm	2.31mm	14mm	125mm	V915134-X	6617707	\$165.85



UPCUT SOLID CARBIDE PHENOLIC CUTTERS

- Designed to cut Phenolic materials typically made of hard, abrasive resin with paper, linen or canvas layers.
- Specialized chipbreaker design for reduced harmonics, tool pressure, and resin build up on the cutting edge.
- Center cutting.
- Precision manufactured in the USA.



DIAMETER (D ₁)	LENGTH OF CUT (L ₂)	SHANK DIAMETER (D ₂)	OVERALL LENGTH (L ₁)	FLUTES	MFR #	A&M #	SALE PRICE
.2500"	.625"	.2500"	3.000"	3	C70133	6621822	\$83.80
.2500"	.875"	.2500"	3.000"	3	C48165	6621823	\$87.00
.3750"	.625"	.3750"	3.000"	3	C00678	6621824	\$103.90
.3750"	.875"	.3750"	3.000"	3	C21131	6621825	\$107.60
.3750"	1.125"	.3750"	3.000"	3	C12214	6621826	\$111.30
.5000"	.625"	.5000"	3.000"	3	C62123	6621827	\$122.90
.5000"	.875"	.5000"	3.000"	3	C62686	6621828	\$127.60
.5000"	1.125"	.5000"	3.000"	3	C33621	6621829	\$132.40



HI-PERCARB 143MS

High-Performance Coolant-Through Drills



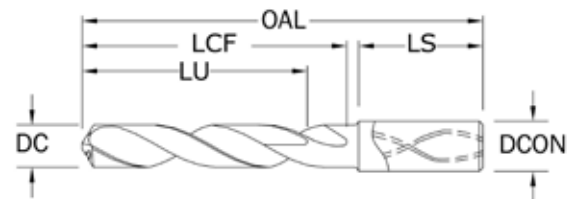
CUTTING DIAMETER (DC)	SHANK DIAMETER (DCON)	SHANK LENGTH (LS)	FLUTE LENGTH (LCF)	OVERALL LENGTH (OAL)	USABLE LENGTH (LU)	MFR #	A&M #	SALE PRICE
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INCH SIZES

0.1250"	0.2362"	1.4173"	1.1024"	2.5984"	0.9055"	56836	5495274	\$93.31
0.1360"	0.2362"	1.4173"	1.1024"	2.5984"	0.9055"	56837	5495275	\$93.31
0.1406"	0.2362"	1.4173"	1.1024"	2.5984"	0.9055"	56838	5495276	\$93.31
0.2031"	0.2362"	1.4173"	1.7323"	3.2283"	1.3780"	56843	5495281	\$98.38
0.2188"	0.2362"	1.4173"	1.7323"	3.2283"	1.3780"	56844	5495282	\$98.38
0.2500"	0.3150"	1.4173"	2.0866"	3.5827"	1.6929"	56846	5495284	\$112.02
0.2570"	0.3150"	1.4173"	2.0866"	3.5827"	1.6929"	56847	5495285	\$112.02
0.3125"	0.3150"	1.4173"	2.0866"	3.5827"	1.6929"	56851	5495289	\$119.41
0.3320"	0.3937"	1.5748"	2.4016"	4.0551"	1.9291"	56853	5495291	\$131.03
0.3594"	0.3937"	1.5748"	2.4016"	4.0551"	1.9291"	56855	5495293	\$132.09
0.3680"	0.3937"	1.5748"	2.4016"	4.0551"	1.9291"	56856	5495294	\$132.09
0.3750"	0.3937"	1.5748"	2.4016"	4.0551"	1.9291"	56857	5495295	\$132.09
0.3906"	0.3937"	1.5748"	2.4016"	4.0551"	1.9291"	56858	5495296	\$132.09
0.4375"	0.4724"	1.7717"	2.7953"	4.6457"	2.2047"	56861	5495299	\$181.23

METRIC SIZES

4.20mm	6.00mm	36.00mm	36.00mm	74.00mm	29.00mm	69235	5497302	\$96.70
4.40mm	6.00mm	36.00mm	36.00mm	74.00mm	29.00mm	69237	5497304	\$96.70
4.80mm	6.00mm	36.00mm	44.00mm	82.00mm	35.00mm	69241	5497308	\$96.70
5.60mm	6.00mm	36.00mm	44.00mm	82.00mm	35.00mm	69249	5497316	\$98.38
5.90mm	6.00mm	36.00mm	44.00mm	82.00mm	35.00mm	69252	5497319	\$98.38
6.70mm	8.00mm	36.00mm	53.00mm	91.00mm	43.00mm	69260	5497327	\$112.02
7.80mm	8.00mm	36.00mm	53.00mm	91.00mm	43.00mm	69271	5497338	\$119.41
7.90mm	8.00mm	36.00mm	53.00mm	91.00mm	43.00mm	69272	5497339	\$119.41
9.40mm	10.00mm	40.00mm	61.00mm	103.00mm	49.00mm	69287	5497354	\$132.09
9.50mm	10.00mm	40.00mm	61.00mm	103.00mm	49.00mm	69288	5497355	\$132.09
9.80mm	10.00mm	40.00mm	61.00mm	103.00mm	49.00mm	69291	5497358	\$132.09
10.00mm	10.00mm	40.00mm	61.00mm	103.00mm	49.00mm	69293	5497360	\$132.09



- Coolant through design improves coolant flow to extend tool life and aid in chip evacuation.
- Eccentric 2-margin design reduces frictional heat and minimizes material adhesion to the margins without weakening the drill.
- Computer controlled edge honing protects against chip damage.
- High-performance point design stabilizes on contact for exceptional hole size and cylindricity allowing for low thrust force and extended tool life.
- SGS Ti-NAMITE®-A coating provides exceptional wear and erosion resistance when drilling heat resisting alloys like Inconel, Stainless Steel, and Titanium Alloys.
- Recommended for materials ≤ 50HRc (475 Bhn).

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NACHI AQUA EX FLAT DRILL STUB LENGTH

Process Improvement By Eliminating Multiple Tools • 180° Point Angle • L9610



- Faster counterbore cycles.
- Exit burr reduction.
- Shank size: 6mm

◆ Sizes from 0.2mm-20mm & Fractional Sizes Available.

SIZE	DECIMAL SIZE	FLUTE LENGTH	OVERALL LENGTH	MFR #	A&M #	SALE PRICE
3mm	0.1181	14mm	50mm	0709920	5291885	\$55.18
3.1mm	0.1220	15mm	50mm	0713254	5291344	\$57.54
3.2mm	0.1260	15mm	50mm	0713260	4998146	\$57.54
3.3mm	0.1299	15mm	50mm	0710839	4800965	\$57.54
3.4mm	0.1339	16mm	50mm	0713277	4834665	\$57.54
3.5mm	0.1378	16mm	50mm	0709936	5291796	\$57.54
3.6mm	0.1417	16mm	50mm	0713283	5469108	\$57.54
3.7mm	0.1457	18mm	50mm	0713290	4942919	\$57.54
3.8mm	0.1496	18mm	50mm	0713305	5291600	\$57.54
3.9mm	0.1535	18mm	50mm	0713311	4816474	\$57.54
4mm	0.1575	18mm	50mm	0709942	5292284	\$57.54
4.1mm	0.1614	19mm	60mm	0713328	4810757	\$58.95
4.2mm	0.1654	19mm	60mm	0710845	5291798	\$58.95
4.3mm	0.1693	19mm	60mm	0713334	5291932	\$58.95
4.4mm	0.1732	21mm	60mm	0713340	5291454	\$58.95
4.5mm	0.1772	21mm	60mm	0709959	4828336	\$58.95
4.6mm	0.1811	21mm	60mm	0713357	4943051	\$60.24
4.7mm	0.1850	22mm	60mm	0713363	4943124	\$60.24
4.8mm	0.1890	22mm	60mm	0713370	5291664	\$60.24
4.9mm	0.1929	22mm	60mm	0713386	5291267	\$60.24
5mm	0.1969	23mm	60mm	0709965	4820606	\$60.24
5.1mm	0.2008	24mm	60mm	0713392	5291162	\$64.44
5.2mm	0.2047	24mm	60mm	0713408	5290694	\$64.44
5.3mm	0.2087	24mm	60mm	0711390	5291775	\$64.44
5.4mm	0.2126	25mm	60mm	0713414	5290435	\$64.44
5.5mm	0.2165	25mm	60mm	0709971	5623449	\$64.44

SIZE	DECIMAL SIZE	FLUTE LENGTH	OVERALL LENGTH	MFR #	A&M #	SALE PRICE
5.6mm	0.2205	25mm	60mm	0713420	4806520	\$64.44
5.7mm	0.2244	27mm	60mm	0713437	4808510	\$64.44
5.8mm	0.2283	27mm	60mm	0713443	5292274	\$64.44
5.9mm	0.2323	27mm	60mm	0713450	5292053	\$64.44
6mm	0.2362	27mm	60mm	0709988	5291844	\$64.44
6.1mm	0.2402	28mm	70mm	0713466	5291253	\$85.24
6.2mm	0.2441	28mm	70mm	0713472	5096932	\$85.24
6.3mm	0.2480	28mm	70mm	0713489	5290866	\$85.24
6.4mm	0.2520	30mm	70mm	0713495	4802738	\$85.24
6.5mm	0.2559	30mm	70mm	0709994	4802739	\$85.24
6.6mm	0.2598	30mm	70mm	0713500	5291894	\$86.07
6.7mm	0.2638	31mm	70mm	0713517	5291648	\$86.07
6.8mm	0.2677	31mm	70mm	0710851	5291908	\$86.07
6.9mm	0.2717	31mm	70mm	0713523	5290860	\$86.07
7mm	0.2756	32mm	70mm	0710008	5291270	\$86.07
7.1mm	0.2795	33mm	70mm	0713530	5290697	\$94.28
7.2mm	0.2835	33mm	70mm	0713546	4834687	\$94.28
7.3mm	0.2874	33mm	70mm	0713552	5291023	\$94.28
7.4mm	0.2913	34mm	70mm	0713569	5292128	\$94.28
7.5mm	0.2953	34mm	70mm	0710014	5292360	\$94.28
7.6mm	0.2992	34mm	70mm	0713575	5291673	\$94.28
7.7mm	0.3031	36mm	70mm	0713581	5290876	\$94.28
7.8mm	0.3071	36mm	70mm	0713598	5291356	\$94.28
7.9mm	0.3110	36mm	70mm	0713603	5292329	\$94.28
8mm	0.3150	36mm	70mm	0710020	4946369	\$94.28

NACHI AQUA REVO POWER COOLER 5XD

Extreme Longevity In Steel, Stainless & High Temps • 180° Point Angle • L9874



- Up to 2X the volume of coolant.
- Reduces heat on cutting edge.
- Sizes from 3mm-16mm.

◆ Fractional Sizes Available.

SIZE	DECIMAL SIZE	FLUTE LENGTH	OVERALL LENGTH	SHANK	MFR #	A&M #	SALE PRICE
3mm	0.1181	28mm	66mm	6mm	0779110	5292869	\$86.52
3.1mm	0.1220	28mm	66mm	6mm	0779127	5292870	\$86.52
3.2mm	0.1260	28mm	66mm	6mm	0779133	5133664	\$86.52
3.3mm	0.1299	28mm	66mm	6mm	0779140	4829488	\$86.52
3.4mm	0.1339	28mm	66mm	6mm	0779156	5292873	\$86.52
3.5mm	0.1378	28mm	66mm	6mm	0779162	5115705	\$86.52
3.6mm	0.1417	28mm	66mm	6mm	0779179	5292875	\$86.85
3.7mm	0.1457	28mm	66mm	6mm	0779185	5292876	\$86.85
3.8mm	0.1496	36mm	74mm	6mm	0779191	4820356	\$86.85
3.9mm	0.1535	36mm	74mm	6mm	0779207	5122622	\$86.85
4mm	0.1575	36mm	74mm	6mm	0779213	5292879	\$86.85
4.1mm	0.1614	36mm	74mm	6mm	0779220	5115714	\$94.44
4.2mm	0.1654	36mm	74mm	6mm	0779236	5292881	\$94.44
4.3mm	0.1693	36mm	74mm	6mm	0779242	5292882	\$94.44
4.4mm	0.1732	36mm	74mm	6mm	0779259	5292883	\$94.44
4.5mm	0.1772	36mm	74mm	6mm	0779265	5292884	\$94.44
4.6mm	0.1811	36mm	74mm	6mm	0779271	5292885	\$94.44
4.7mm	0.1850	36mm	74mm	6mm	0779288	5475302	\$94.44
4.8mm	0.1890	44mm	82mm	6mm	0779294	5292887	\$94.44
4.9mm	0.1929	44mm	82mm	6mm	0779300	5115735	\$94.44
5mm	0.1969	44mm	82mm	6mm	0779316	5475026	\$101.91
5.1mm	0.2008	44mm	82mm	6mm	0779322	5508753	\$101.91
5.2mm	0.2047	44mm	82mm	6mm	0779339	5508755	\$101.91
5.3mm	0.2087	44mm	82mm	6mm	0779345	5292892	\$101.91
5.4mm	0.2126	44mm	82mm	6mm	0779351	5292893	\$101.91
5.5mm	0.2165	44mm	82mm	6mm	0779368	5168203	\$101.91

SIZE	DECIMAL SIZE	FLUTE LENGTH	OVERALL LENGTH	SHANK	MFR #	A&M #	SALE PRICE
5.6mm	0.2205	44mm	82mm	6mm	0779374	5292895	\$132.16
5.7mm	0.2244	44mm	82mm	6mm	0779380	5292896	\$132.16
5.8mm	0.2283	44mm	82mm	6mm	0779397	5292897	\$132.16
5.9mm	0.2323	44mm	82mm	6mm	0779402	5292898	\$132.16
6mm	0.2362	44mm	82mm	6mm	0779419	5292899	\$132.16
6.1mm	0.2402	53mm	91mm	8mm	0779425	5292900	\$137.89
6.2mm	0.2441	53mm	91mm	8mm	0779431	5292901	\$137.89
6.3mm	0.2480	53mm	91mm	8mm	0779448	5122672	\$137.89
6.4mm	0.2520	53mm	91mm	8mm	0779454	5292903	\$137.89
6.5mm	0.2559	53mm	91mm	8mm	0779460	5115746	\$137.89
6.6mm	0.2598	53mm	91mm	8mm	0779477	5508763	\$137.89
6.7mm	0.2638	53mm	91mm	8mm	0779483	5519286	\$147.52
6.8mm	0.2677	53mm	91mm	8mm	0779490	4809610	\$147.52
6.9mm	0.2717	53mm	91mm	8mm	0779505	5292908	\$147.52
7mm	0.2756	53mm	91mm	8mm	0779511	5292909	\$147.52
7.1mm	0.2795	53mm	91mm	8mm	0779528	5292910	\$147.52
7.2mm	0.2835	53mm	91mm	8mm	0779534	5115747	\$147.52
7.3mm	0.2874	53mm	91mm	8mm	0779540	5292912	\$147.52
7.4mm	0.2913	53mm	91mm	8mm	0779557	5292913	\$147.52
7.5mm	0.2953	53mm	91mm	8mm	0779563	5292914	\$147.52
7.6mm	0.2992	53mm	91mm	8mm	0779570	5292915	\$148.71
7.7mm	0.3031	53mm	91mm	8mm	0779586	5292916	\$148.71
7.8mm	0.3071	53mm	91mm	8mm	0779592	5292917	\$148.71
7.9mm	0.3110	53mm	91mm	8mm	0779608	5292918	\$148.71
8mm	0.3150	53mm	91mm	8mm	0779614	5292919	\$148.71

NACHI AQUA REVO MICRO 10XD

Versatile For Nearly All Materials, Including Stainless, Aluminum & Titanium • 120° Point Angle • L9880

- High rigidity to reduce breakage.
- Great for screw machines.
- Size range: 0.5mm-1.99mm, incremental sizes every 0.01mm

◆ 5XD Length Available.



SIZE	DECIMAL SIZE	FLUTE LENGTH	OVERALL LENGTH	SHANK	MFR #	A&M #	SALE PRICE
0.5mm	0.0197	6mm	38mm	3mm	0788014	6328158	\$30.14
0.51mm	0.0201	6.6mm	38mm	3mm	0788020	5828422	\$40.50
0.52mm	0.0205	6.6mm	38mm	3mm	0788037	5828423	\$40.50
0.53mm	0.0209	6.6mm	38mm	3mm	0788043	5828424	\$40.50
0.54mm	0.0213	6.6mm	38mm	3mm	0788050	5828425	\$40.50
0.55mm	0.0217	6.6mm	38mm	3mm	0788066	5828426	\$32.26
0.56mm	0.0220	7.2mm	38mm	3mm	0788072	5828427	\$40.50
0.57mm	0.0224	7.2mm	38mm	3mm	0788089	5828428	\$40.50
0.58mm	0.0228	7.2mm	38mm	3mm	0788095	5828429	\$40.50
0.59mm	0.0232	7.2mm	38mm	3mm	0788100	5828430	\$40.50
0.6mm	0.0236	7.2mm	38mm	3mm	0788117	5828431	\$28.02
0.61mm	0.0240	7.8mm	38mm	3mm	0788123	5828432	\$40.50
0.62mm	0.0244	7.8mm	38mm	3mm	0788130	5828433	\$40.50
0.63mm	0.0248	7.8mm	38mm	3mm	0788146	5828434	\$40.50
0.64mm	0.0252	7.8mm	38mm	3mm	0788152	5828435	\$40.50
0.65mm	0.0256	7.8mm	38mm	3mm	0788169	5828436	\$32.26
0.66mm	0.0260	8.4mm	38mm	3mm	0788175	5828437	\$40.50
0.67mm	0.0264	8.4mm	38mm	3mm	0788181	5828438	\$40.50
0.68mm	0.0268	8.4mm	38mm	3mm	0788198	5828439	\$40.50
0.69mm	0.0272	8.4mm	38mm	3mm	0788203	5828440	\$40.50
0.7mm	0.0276	8.4mm	38mm	3mm	0788210	5828441	\$28.02
0.71mm	0.0280	9mm	38mm	3mm	0788226	5828442	\$40.50
0.72mm	0.0283	9mm	38mm	3mm	0788232	5828443	\$40.50
0.73mm	0.0287	9mm	38mm	3mm	0788249	5828444	\$40.50
0.74mm	0.0291	9mm	38mm	3mm	0788255	5828445	\$40.50
0.75mm	0.0295	9mm	38mm	3mm	0788261	5828446	\$32.26
0.76mm	0.0299	9.6mm	38mm	3mm	41000174	5829980	\$40.50
0.77mm	0.0303	9.6mm	38mm	3mm	41000175	4818682	\$40.50
0.78mm	0.0307	9.6mm	38mm	3mm	41000176	5829981	\$40.50
0.79mm	0.0311	9.6mm	38mm	3mm	41000177	5829982	\$40.50
0.8mm	0.0315	9.6mm	38mm	3mm	41000178	5829983	\$28.02
0.81mm	0.0319	10.2mm	45mm	3mm	41000179	5829984	\$40.50
0.82mm	0.0323	10.2mm	45mm	3mm	41000180	5829985	\$40.50
0.83mm	0.0327	10.2mm	45mm	3mm	41000173	5829979	\$40.50
0.84mm	0.0331	10.2mm	45mm	3mm	41000174	5829980	\$40.50
0.85mm	0.0335	10.2mm	45mm	3mm	41000175	4818682	\$32.26
0.86mm	0.0339	10.8mm	45mm	3mm	41000176	5829981	\$40.50
0.87mm	0.0343	10.8mm	45mm	3mm	41000177	5829982	\$40.50
0.88mm	0.0346	10.8mm	45mm	3mm	41000178	5829983	\$40.50
0.89mm	0.0350	10.8mm	45mm	3mm	41000179	5829984	\$40.50
0.9mm	0.0354	10.8mm	45mm	3mm	41000180	5829985	\$28.02
0.91mm	0.0358	11.4mm	45mm	3mm	41000177	5829982	\$40.50
0.92mm	0.0362	11.4mm	45mm	3mm	41000178	5829983	\$40.50
0.93mm	0.0366	11.4mm	45mm	3mm	41000179	5829984	\$40.50
0.94mm	0.0370	11.4mm	45mm	3mm	41000180	5829985	\$40.50
0.95mm	0.0374	11.4mm	45mm	3mm	0788467	5828465	\$32.26
0.96mm	0.0378	12mm	45mm	3mm	0788473	5828466	\$40.50
0.97mm	0.0382	12mm	45mm	3mm	0788480	5828467	\$40.50
0.98mm	0.0386	12mm	45mm	3mm	0788496	5828468	\$40.50
0.99mm	0.0390	12mm	45mm	3mm	0788501	5828469	\$40.50
1.0mm	0.0394	12mm	45mm	3mm	0788518	6328159	\$26.13

SIZE	DECIMAL SIZE	FLUTE LENGTH	OVERALL LENGTH	SHANK	MFR #	A&M #	SALE PRICE
0.5mm	0.0197	6mm	38mm	3mm	0788014	6328158	\$30.14
0.51mm	0.0201	6.6mm	38mm	3mm	0788020	5828422	\$40.50
0.52mm	0.0205	6.6mm	38mm	3mm	0788037	5828423	\$40.50
0.53mm	0.0209	6.6mm	38mm	3mm	0788043	5828424	\$40.50
0.54mm	0.0213	6.6mm	38mm	3mm	0788050	5828425	\$40.50
0.55mm	0.0217	6.6mm	38mm	3mm	0788066	5828426	\$32.26
0.56mm	0.0220	7.2mm	38mm	3mm	0788072	5828427	\$40.50
0.57mm	0.0224	7.2mm	38mm	3mm	0788089	5828428	\$40.50
0.58mm	0.0228	7.2mm	38mm	3mm	0788095	5828429	\$40.50
0.59mm	0.0232	7.2mm	38mm	3mm	0788100	5828430	\$40.50
0.6mm	0.0236	7.2mm	38mm	3mm	0788117	5828431	\$28.02
0.61mm	0.0240	7.8mm	38mm	3mm	0788123	5828432	\$40.50
0.62mm	0.0244	7.8mm	38mm	3mm	0788130	5828433	\$40.50
0.63mm	0.0248	7.8mm	38mm	3mm	0788146	5828434	\$40.50
0.64mm	0.0252	7.8mm	38mm	3mm	0788152	5828435	\$40.50
0.65mm	0.0256	7.8mm	38mm	3mm	0788169	5828436	\$32.26
0.66mm	0.0260	8.4mm	38mm	3mm	0788175	5828437	\$40.50
0.67mm	0.0264	8.4mm	38mm	3mm	0788181	5828438	\$40.50
0.68mm	0.0268	8.4mm	38mm	3mm	0788198	5828439	\$40.50
0.69mm	0.0272	8.4mm	38mm	3mm	0788203	5828440	\$40.50
0.7mm	0.0276	8.4mm	38mm	3mm	0788210	5828441	\$28.02
0.71mm	0.0280	9mm	38mm	3mm	0788226	5828442	\$40.50
0.72mm	0.0283	9mm	38mm	3mm	0788232	5828443	\$40.50
0.73mm	0.0287	9mm	38mm	3mm	0788249	5828444	\$40.50
0.74mm	0.0291	9mm	38mm	3mm	0788255	5828445	\$40.50
0.75mm	0.0295	9mm	38mm	3mm	0788261	5828446	\$32.26
0.76mm	0.0299	9.6mm	38mm	3mm	41000174	5829980	\$40.50
0.77mm	0.0303	9.6mm	38mm	3mm	41000175	4818682	\$40.50
0.78mm	0.0307	9.6mm	38mm	3mm	41000176	5829981	\$40.50
0.79mm	0.0311	9.6mm	38mm	3mm	41000177	5829982	\$40.50
0.8mm	0.0315	9.6mm	38mm	3mm	41000178	5829983	\$28.02
0.81mm	0.0319	10.2mm	45mm	3mm	41000179	5829984	\$40.50
0.82mm	0.0323	10.2mm	45mm	3mm	41000180	5829985	\$40.50
0.83mm	0.0327	10.2mm	45mm	3mm	41000173	5829979	\$40.50
0.84mm	0.0331	10.2mm	45mm	3mm	41000174	5829980	\$40.50
0.85mm	0.0335	10.2mm	45mm	3mm	41000175	4818682	\$32.26
0.86mm	0.0339	10.8mm	45mm	3mm	41000176	5829981	\$40.50
0.87mm	0.0343	10.8mm	45mm	3mm	41000177	5829982	\$40.50
0.88mm	0.0346	10.8mm	45mm	3mm	41000178	5829983	\$40.50
0.89mm	0.0350	10.8mm	45mm	3mm	41000179	5829984	\$40.50
0.9mm	0.0354	10.8mm	45mm	3mm	41000180	5829985	\$28.02
0.91mm	0.0358	11.4mm	45mm	3mm	41000177	5829982	\$40.50
0.92mm	0.0362	11.4mm	45mm	3mm	41000178	5829983	\$40.50
0.93mm	0.0366	11.4mm	45mm	3mm	41000179	5829984	\$40.50
0.94mm	0.0370	11.4mm	45mm	3mm	41000180	5829985	\$40.50
0.95mm	0.0374	11.4mm	45mm	3mm	0788467	5828465	\$32.26
0.96mm	0.0378	12mm	45mm	3mm	0788473	5828466	\$40.50
0.97mm	0.0382	12mm	45mm	3mm	0788480	5828467	\$40.50
0.98mm	0.0386	12mm	45mm	3mm	0788496	5828468	\$40.50
0.99mm	0.0390	12mm	45mm	3mm	0788501	5828469	\$40.50
1.0mm	0.0394	12mm	45mm	3mm	0788518	6328159	\$26.13

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SOLID CARBIDE END MILLS

ECI-3, ECI-4, EBI-4, ECI-5, EBI-5, ECI-6, EBI-6, ECAI-B3, EBAI-B3

FLASHSOLID
ECO SOLID LINE



- Square and ball end with many popular radii available.
- Many relieved shank options for deep shouldering and pocketing.
- Many relieved shank options for deep shouldering and pocketing.

CONTINUED ON
NEXT PAGE



DESCRIPTION	DIAMETER (DC)	LENGTH OF CUT (APMX)	NECK BACK (LU)	RADIUS (RE)	DCONMS (SHANK DIA)	OAL	MFR #	A&M #	SALE PRICE
ECI-3									
ECI-3 125-250COVF1.5	0.125	0.250	---	0.000	0.250	1.500	3418072	5538792	\$32.34
ECI-3 187-312COVF2	0.1875	0.312	---	0.000	0.1875	2.000	3418076	5538796	\$32.65
ECI-3 250-500COVF2.5	0.250	0.500	---	0.000	0.250	2.500	3418085	5538804	\$26.76
ECI-3 312-437COVF2	0.3125	0.437	---	0.000	0.3125	2.000	3418093	5538812	\$32.56
ECI-3 375-1.0CO20VF3	0.375	1.000	---	0.020	0.375	3.000	3418108	5538827	\$61.69
ECI-3 500-1.0COVF3	0.500	1.000	---	0.000	0.500	3.000	3418119	5504179	\$57.38
ECI-3 625-750COVF3	0.625	0.750	---	0.000	0.625	3.000	3418127	5538844	\$97.68
ECI-3 750-1.63CO30VF4	0.750	1.625	---	0.030	0.750	4.000	3418140	5538857	\$173.36
ECI-4									
ECI-4 125-500COVF1.5	0.125	0.500	---	0.000	0.125	1.500	3398249	5513715	\$32.39
ECI-4 187-625COVF2	0.1875	0.625	---	0.000	0.1875	2.000	3398251	5513717	\$32.65
ECI-4 250-750COVF2.5	0.250	0.750	---	0.000	0.250	2.500	3398259	5513723	\$26.76
ECI-4 250-500/1.25CO15VF3	0.250	0.500	1.250	0.015	0.250	3.000	3398005	5503873	\$39.69
ECI-4 312-1.0COVF3	0.3125	1.000	---	0.000	0.3125	3.000	3398271	5513735	\$42.95
ECI-4 375-1.0COVF2.5	0.375	1.000	---	0.000	0.375	2.500	3398283	5513745	\$45.68
ECI-4 375-750/1.25COVF3	0.375	0.750	1.250	0.000	0.375	3.000	3398279	4946511	\$61.25
ECI-4 437-1.0CO15VF2.7	0.4375	1.000	---	0.015	0.4375	2.750	3398024	5513508	\$61.69
ECI-4 500-1.25CO3VF3	0.500	1.250	---	0.030	0.500	3.000	3398091	5513561	\$74.28
ECI-4 500-3.0COVF6	0.500	3.000	---	0.000	0.500	6.000	3398317	5513774	\$106.48
ECI-4 500-875/2.12CO15VF4	0.500	0.875	2.125	0.015	0.500	4.000	3398029	5513511	\$101.20
ECI-4 625-1.25COVF3.5	0.625	1.250	---	0.000	0.625	3.500	3398327	5513784	\$97.68
ECI-4 750-2.25CO3VF5	0.750	2.250	---	0.030	0.750	5.000	3398110	5513580	\$217.36
ECI-4 1.0-2.0CO15VF4.5	1.000	2.000	---	0.015	1.000	4.500	3398057	5513535	\$303.60
ECI-4 1.0-4.0COVF7	1.000	4.000	---	0.000	1.000	7.000	3398367	5513823	\$374.88
EBI-4									
EBI-4 125-500CVF1.5	0.125	0.500	---	0.0625	0.125	1.500	3398248	4946455	\$38.02
EBI-4 187-625CVF2	0.1875	0.625	---	0.0937	0.1875	2.000	3398250	5513716	\$38.37
EBI-4 250-1.0CVF3	0.250	1.000	---	0.125	0.250	3.000	3398260	5513724	\$40.92
EBI-4 375-1.0CVF2.5	0.375	1.000	---	0.1875	0.3750	2.500	3398282	5513744	\$53.68
EBI-4 437-1.0CVF2.75	0.4375	1.000	---	0.2187	0.4375	2.750	3398292	5513753	\$61.69
EBI-4 500-1.0CVF3	0.500	1.000	---	0.250	0.500	3.000	3398306	5513765	\$67.59
EBI-4 750-1.5CVF4	0.750	1.500	---	0.375	0.750	4.000	3398342	5513798	\$173.36
EBI-4 1.0-1.5/4.0CVF6	1.000	1.500	4.000	0.500	1.000	6.000	3398356	5513812	\$401.28
ECI-5									
ECI-5 .25-.75COVF2.5	0.250	0.750	---	0.000	0.250	2.500	3398541	5513978	\$32.12
ECI-5 .375-1.0CO15VF2.5	0.375	1.000	---	0.015	0.375	2.500	3398370	5513826	\$64.33
ECI-5 .5-1.25CO3VF3	0.500	1.250	---	0.030	0.500	3.000	3398402	4949643	\$88.88
ECI-5 .625-1.63CO3VF3.5	0.625	1.625	---	0.030	0.625	3.500	3398405	5513853	\$153.12
ECI-5 .75-2.25CO3VF5	0.750	2.250	---	0.030	0.750	5.000	3398411	5513859	\$260.48
ECI-5 1.-4.13CO3VF7	1.000	4.125	---	0.030	1.000	7.000	3398418	5513866	\$530.64
EBI-5									
EBI-5 .25-.75CVF2.5	0.250	0.750	---	0.125	0.250	2.500	3398490	5513933	\$37.58
EBI-5 .375-.5CVF2	0.375	0.500	---	0.1875	0.375	2.000	3398500	5513943	\$55.97
EBI-5 .5-.63CVF2.5	0.500	0.625	---	0.250	0.500	2.500	3398507	5513950	\$70.40
EBI-5 .75-3.25CVF6	0.750	3.250	---	0.375	0.750	6.000	3398515	5513958	\$313.28
ECI-6									
ECI-6 250-500COVF2	0.250	0.500	---	0.000	0.250	2.000	3406996	5514899	\$36.52
ECI-6 375-1.0CO15VF2.5	0.375	1.000	---	0.015	0.375	2.500	3407027	5514930	\$70.67
ECI-6 500-1.25CO30VF3	0.500	1.250	---	0.030	0.500	3.000	3407080	5514983	\$97.68
ECI-6 750-1.62CO30VF4	0.750	1.625	---	0.030	0.750	4.000	3407176	5515078	\$230.56

FLASHSOLID
 ECO SOLID LINE


DESCRIPTION	DIAMETER (DC)	LENGTH OF CUT (APMX)	NECK BACK (LU)	RADIUS (RE)	DCONMS (SHANK DIA)	OAL	MFR #	A&M #	SALE PRICE
EBI-6									
EBI-6 250-500C125VF2	0.250	0.500	---	0.125	0.250	2.000	3406962	5514865	\$36.52
EBI-6 375-1C188VF2.5	0.375	1.000	---	0.1875	0.375	2.500	3406972	5514875	\$70.67
EBI-6 500-1.25C250VF3	0.500	1.250	---	0.250	0.500	3.000	3406980	5514883	\$97.68
ECAI-B3									
ECAI-B3 .125-.5CR0-1.5EC	0.125	0.500	---	0.000	0.125	1.500	3398988	5114736	\$31.95
ECAI-B3 .187-.6CR0-2EC	0.1875	0.625	---	0.000	0.1875	2.000	3399005	5509745	\$34.41
ECAI-B3 .25-.75CR0-2.5EC	0.250	0.750	---	0.000	0.250	2.500	3398984	5509740	\$32.92
ECAI-B3 .375-1CR0-3EC	0.375	1.000	---	0.000	0.375	3.000	3399000	5098583	\$65.21
ECAI-B3 .5-1.3CR0-3EC	0.500	1.250	---	0.000	0.500	3.000	3398978	4949460	\$89.76
ECAI-B3 .75-4CR0-7EC	0.750	4.000	---	0.000	0.750	7.000	3398991	5514107	\$359.04
EBAI-B3									
EBAI-B3 .125-.5C-1.5EC	0.125	0.500	---	0.0625	0.125	1.500	3399357	5514444	\$37.58
EBAI-B3 .25-.375C-2EC	0.250	0.375	---	0.125	0.250	2.000	3399306	5514397	\$33.62
EBAI-B3 .375-.8/1.3-3EC	0.375	0.750	1.250	0.1875	0.375	3.000	3399217	5509751	\$84.04
EBAI-B3 .5-1.25C-3EC	0.500	1.250	---	0.250	0.500	3.000	3399313	5514404	\$104.72
EBAI-B3 .75-3.C-6EC	0.750	3.000	---	0.375	0.750	6.000	3399326	5514416	\$384.56

Helical SOLID CARBIDE END MILLS FOR HIGH EFFICIENCY MILLING OF TITANIUM

6 Flute • Square • Variable Pitch

- Specially engineered for optimal performance in High Efficiency Milling (HEM) of Titanium 6Al4V and other titanium alloys.
- Variable pitch geometry results in higher quality parts by decreasing chatter and harmonics.
- Not for use in traditional slotting and roughing tool paths.
- Center cutting.
- h6 shank tolerance for high precision tool holders.
- Aplus coating offers added lubricity and high temperature resistance for faster speeds and feeds and improved tool life.
- CNC ground in the USA.



						APLUS COATED		
CUTTER DIAMETER* D1 -.000" / -.002"	SHANK DIAMETER D2 (H6)	LENGTH OF CUT L2 +.032" / -.000"	OVERALL LENGTH L1 +.062" / -.062"	FLUTES	TOOL DESCRIPTION	MFR #	A&M #	SALE PRICE
1/8"	1/4"	1/4"	2-1/2"	6	HVTI-020-60125	87209	6152652	\$16.66
1/8"	1/4"	5/8"	2-1/2"	6	HVTI-050-60125	87212	6152655	\$18.97
3/16"	1/4"	5/16"	2-1/2"	6	HVTI-016-60187	87213	6152656	\$15.82
3/16"	1/4"	3/4"	2-1/2"	6	HVTI-040-60187	87216	6152659	\$21.21
1/4"	1/4"	3/8"	2"	6	HVTI-015-60250	87217	6152660	\$18.20
1/4"	1/4"	1-1/4"	3"	6	HVTI-050-60250	87218	6152661	\$30.59
5/16"	5/16"	7/16"	2"	6	HVTI-014-60312	87219	6152662	\$28.77
5/16"	5/16"	1"	3"	6	HVTI-032-60312	87221	6152664	\$31.43
3/8"	3/8"	1/2"	2"	6	HVTI-013-60375	87222	6152665	\$29.12
3/8"	3/8"	1-1/2"	3-1/2"	6	HVTI-040-60375	84559	5844021	\$40.46
1/2"	1/2"	5/8"	2-1/2"	6	HVTI-012-60500	87224	6152667	\$50.19
1/2"	1/2"	2"	4"	6	HVTI-040-60500	84563	5844025	\$73.99
5/8"	5/8"	1-1/4"	3-1/2"	6	HVTI-020-60625	87225	6152668	\$109.41
5/8"	5/8"	1-5/8"	3-1/2"	6	HVTI-026-60625	87226	6152669	\$132.72
3/4"	3/4"	1-1/4"	4"	6	HVTI-016-60750	87227	6152670	\$171.01
3/4"	3/4"	2-1/4"	5"	6	HVTI-030-60750	84565	5844027	\$202.93

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NACHI AQUA V MILLS

For Steel, Stainless & Hi Temps



- Variable helix and index.
- Low harmonics in HEM/HSM tool paths.
- Model: L9705
- Size range: 1/8" - 3/4"

◆ 4 Flute, Corner Radius, Necked Options & Metric Sizes Available.

SIZE	DECIMAL SIZE	FLUTE LENGTH	OVERALL LENGTH	SHANK	FLUTES	MFR #	A&M #	SALE PRICE
1/8"	0.125"	1/4"	1-1/2"	1/8"	5	41000148	5829958	\$18.04
1/8"	0.125"	1/2"	1-1/2"	1/8"	5	41000149	5536382	\$19.95
1/8"	0.125"	3/4"	2-1/2"	1/8"	5	41000150	5829959	\$23.58
3/16"	0.1875"	5/16"	2"	3/16"	5	41000151	5829960	\$25.62
3/16"	0.1875"	9/16"	2"	3/16"	5	41000152	5829961	\$27.76
3/16"	0.1875"	3/4"	2-1/2"	3/16"	5	41000153	5829962	\$31.13
1/4"	0.25"	3/8"	2"	1/4"	5	41000154	5829963	\$32.93
1/4"	0.25"	3/4"	2-1/2"	1/4"	5	41000155	5534028	\$38.52
1/4"	0.25"	1-1/18"	3"	1/4"	5	41000156	4965710	\$42.97
5/16"	0.3125"	7/16"	2"	5/16"	5	41000157	5829964	\$40.12
5/16"	0.3125"	13/16"	2-1/2"	5/16"	5	41000158	5829965	\$46.27
5/16"	0.3125"	1-1/4"	3"	5/16"	5	41000159	5829966	\$51.94
5/16"	0.3125"	2-1/8"	4"	5/16"	5	41000160	5829967	\$62.97
3/8"	0.375"	1/2"	2"	3/8"	5	41000161	5829968	\$50.26
3/8"	0.375"	1"	2-1/2"	3/8"	5	41000162	5829969	\$59.37
3/8"	0.375"	1-1/4"	3"	3/8"	5	41000163	5829970	\$64.72
3/8"	0.375"	1-5/8"	4"	3/8"	5	41000164	5829971	\$74.80
1/4"	0.375"	2-1/2"	6"	3/8"	5	41000165	5829972	\$98.60
1/2"	0.5"	5/8"	2-1/2"	1/2"	5	41000166	5829973	\$79.32
1/2"	0.5"	1"	3"	1/2"	5	41000167	5534000	\$102.67
1/2"	0.5"	1-1/4"	3"	1/2"	5	41000168	5829974	\$109.50
1/2"	0.5"	1-5/8"	4"	1/2"	5	41000169	5829975	\$127.18
1/2"	0.5"	2-1/8"	4"	1/2"	5	41000170	5829976	\$138.33
1/2"	0.5"	3-1/14"	6"	1/2"	5	41000171	5829977	\$191.59
5/8"	0.625"	3/4"	3"	5/8"	5	41000172	5829978	\$132.40
5/8"	0.625"	1-5/8"	3-1/2"	5/8"	5	41000173	5829979	\$159.18
5/8"	0.625"	2-1/8"	4"	5/8"	5	41000174	5829980	\$177.32
5/8"	0.625"	2-5/8"	5"	5/8"	5	41000175	4818682	\$206.26
5/8"	0.625"	3-1/4"	6"	5/8"	5	41000176	5829981	\$241.30
3/4"	0.75"	1"	3"	3/4"	5	41000177	5829982	\$171.26
3/4"	0.75"	1-5/8"	4"	3/4"	5	41000178	5829983	\$204.92
3/4"	0.75"	2-3/8"	5"	3/4"	5	41000179	5829984	\$250.53
3/4"	0.75"	3-1/4"	6"	3/4"	5	41000180	5829985	\$297.37

SGS Z-CARB

Four-Flute High-Performance End mills • Series Z1

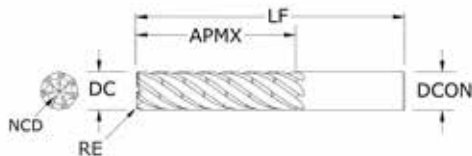
P M K S



SQUARE END



CORNER RADIUS



- Variable rake geometry alters & controls the cutting dynamic taking chatter suppression to an unprecedented level.
- Unequal helix design improves harmonics.
- Unequal flute spacing helps to disrupt the rhythmic pattern created by the cutting edge helping to suppress damaging harmonics.
- Enhanced corner geometry with tight tolerance corner radii.
- Recommended for materials ≤ 45 HRC (≤ 420 Bhn).

CUTTING DIAMETER (DC)	END CONFIGURATION	SHANK DIA. (DCON)	OVERALL LENGTH (LF)	LENGTH OF CUT (APMX)	MFR #	A&M #	SALE PRICE
INCH SIZES							
0.1250	SQUARE END	0.1250"	1.5000"	0.3750"	36404	4752775	\$15.65
0.1562	SQUARE END	0.1875"	2.0000"	0.4370"	36406	5490243	\$23.58
0.1875	SQUARE END	0.1875"	2.0000"	0.4370"	36408	4789463	\$21.85
0.2188	SQUARE END	0.2500"	2.5000"	0.4370"	36410	5490244	\$29.61
0.2500	SQUARE END	0.2500"	2.5000"	0.5000"	36416	454684	\$27.20
0.3125	SQUARE END	0.3125"	2.5000"	0.8130"	36420	4698763	\$37.23
0.3750	SQUARE END	0.3750"	2.5000"	0.8750"	36424	4730161	\$45.14
0.4375	SQUARE END	0.4375"	2.5000"	1.0000"	36428	5490249	\$62.03
0.5000	SQUARE END	0.5000"	3.0000"	1.0000"	36432	4780837	\$75.06
0.3750	CORNER RADIUS	0.3750"	2.0000"	0.6250"	36513	5490286	\$37.70
0.5000	CORNER RADIUS	0.5000"	2.5000"	0.6250"	36517	4760688	\$62.75
0.2500	SQUARE END	0.2500"	2.5000"	0.7500"	36596	5477804	\$27.05
0.5000	SQUARE END	0.5000"	3.2500"	1.2500"	36597	4752475	\$85.51
0.1562	CORNER RADIUS	0.1875"	2.0000"	0.3125"	36506	5490281	\$22.57
0.1875	CORNER RADIUS	0.1875"	2.0000"	0.3750"	36507	5490282	\$20.93
0.3125	CORNER RADIUS	0.3125"	2.0000"	0.5000"	36511	5490285	\$30.64
0.3750	SQUARE END	0.3750"	2.5000"	0.8750"	36530	5490290	\$44.83
0.5000	SQUARE END	0.5000"	3.0000"	1.0000"	36534	5490294	\$74.56
METRIC SIZES							
3.00mm	SQUARE END	6.00mm	57.00mm	8.00mm	46357	4663460	\$16.45
4.00mm	SQUARE END	6.00mm	57.00mm	11.00mm	46358	5493000	\$22.57
6.00mm	SQUARE END	6.00mm	57.00mm	13.00mm	46360	4740043	\$26.91
10.00mm	SQUARE END	10.00mm	72.00mm	22.00mm	46364	4823114	\$46.14
5.00mm	SQUARE END	6.00mm	57.00mm	13.00mm	46359	5493001	\$23.61
8.00mm	SQUARE END	8.00mm	63.00mm	19.00mm	46362	4782691	\$37.27
12.00mm	SQUARE END	12.00mm	83.00mm	26.00mm	46366	5493002	\$74.98



H-CARB

Series 77 • Seven-Flute High-Efficiency End mills

P M K S



CUTTING DIAMETER (DC)	END CONFIGURATION	SHANK DIAMETER (DCON)	LENGTH OF CUT (APMX)	OVERALL LENGTH (LF)	MFR #	A&M #	SALE PRICE
0.2500"	CHIP BREAKER (CR)	0.2500"	0.6250"	2.5000"	77106	5497909	\$37.73
0.3750"	CHIP BREAKER (CR)	0.3750"	0.9375"	3.0000"	77142	5497945	\$65.88
0.3750"	CHIP BREAKER (CR)	0.3750"	1.1250"	3.2500"	77154	5497957	\$67.09
0.3750"	CHIP BREAKER (CR)	0.3750"	1.5000"	3.5000"	77170	5497973	\$71.75
0.3750"	CHIP BREAKER (CR)	0.3750"	1.5000"	3.5000"	77171	5497974	\$71.75
0.5000"	CHIP BREAKER (CR)	0.5000"	2.0000"	4.0000"	77203	5498004	\$123.66
0.5000"	CHIP BREAKER (CR)	0.5000"	1.2500"	3.2500"	77178	5477765	\$111.57
0.5000"	CHIP BREAKER (CR)	0.5000"	1.2500"	3.2500"	77346	6616717	\$248.42
0.5000"	CHIP BREAKER (CR)	0.5000"	1.2500"	3.2500"	77347	6616718	\$248.42
0.5000"	CHIP BREAKER (CR)	0.5000"	1.5000"	3.5000"	77358	6616729	\$251.61
0.6250"	CHIP BREAKER (CR)	0.6250"	1.5625"	3.7500"	77215	5498016	\$187.38
0.6250"	CHIP BREAKER (CR)	0.6250"	1.5630"	3.7500"	77382	6616753	\$323.48
0.6250"	CHIP BREAKER (CR)	0.6250"	1.5630"	3.7500"	77383	6616754	\$323.48
0.7500"	CHIP BREAKER (CR)	0.7500"	1.8750"	4.0000"	77418	6616789	\$400.13
0.7500"	CHIP BREAKER (CR)	0.7500"	1.8750"	4.0000"	77419	6616790	\$400.13
0.5000"	CHIP BREAKER (SQUARE)	0.5000"	1.2500"	3.2500"	77342	6616713	\$243.98
0.5000"	CHIP BREAKER (SQUARE)	0.5000"	1.5000"	3.5000"	77354	6616725	\$249.35
0.6250"	CHIP BREAKER (SQUARE)	0.6250"	1.5630"	3.7500"	77378	6616749	\$316.69
1.0000"	CHIP BREAKER (SQUARE)	1.0000"	2.5000"	5.5000"	77462	6616833	\$566.60
1.0000"	CHIP BREAKER (SQUARE)	1.0000"	2.5000"	5.5000"	77463	6616834	\$566.60
0.3750"	CORNER RADIUS	0.3750"	0.9375"	3.0000"	77140	5497943	\$65.88
0.5000"	CORNER RADIUS	0.5000"	1.2500"	3.2500"	77176	5497979	\$99.44
0.5000"	CORNER RADIUS	0.5000"	2.0000"	4.0000"	77201	5498003	\$121.60
0.5000"	CORNER RADIUS	0.5000"	1.2500"	3.2500"	77345	6616716	\$206.71
0.7500"	CORNER RADIUS	0.7500"	3.0000"	5.2500"	77285	5498086	\$310.18
0.7500"	CORNER RADIUS	0.7500"	1.8750"	4.0000"	77249	5498050	\$266.77
0.7500"	CORNER RADIUS	0.7500"	2.2500"	4.5000"	77265	5498066	\$273.83
1.0000"	CORNER RADIUS	1.0000"	4.0000"	7.0000"	77332	5498133	\$500.66
0.5000"	SQUARE END	0.5000"	1.2500"	3.2500"	77340	6616711	\$203.69
0.5000"	SQUARE END	0.5000"	1.2500"	3.2500"	77341	6616712	\$203.69
0.5000"	SQUARE END	0.5000"	2.0000"	4.0000"	77364	6616735	\$223.44
0.6250"	SQUARE END	0.6250"	1.5630"	3.7500"	77376	6616747	\$280.07
0.6250"	SQUARE END	0.6250"	2.5000"	4.5000"	77401	6616772	\$326.18
0.7500"	SQUARE END	0.7500"	2.2500"	4.5000"	77428	6616799	\$453.13
0.7500"	SQUARE END	0.7500"	2.2500"	4.5000"	77429	6616800	\$453.13
1.0000"	SQUARE END	1.0000"	2.5000"	5.5000"	77460	6616831	\$531.66
1.0000"	SQUARE END	1.0000"	2.5000"	5.5000"	77461	6616832	\$531.66



CHIPBREAKER CORNER RADIUS



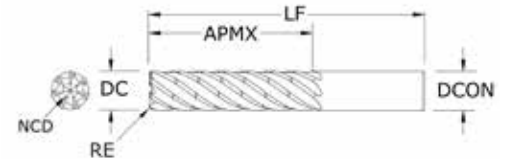
CHIPBREAKER SQUARE



CORNER RADIUS



SQUARE END



- The H-Carb 7-Flute High Efficiency end mill specializes in deep axial trochoidal and high-speed machining applications offered at various lengths of cut.
- The specialized core and flute design improves rigidity and chip flow while reducing deflection.
- The seven-flute design allows for superior finishes at higher speed and feed rates versus 5 and 6 flute tools.
- Recommended for (P) Steel, (M) Stainless Steel, (K) Cast Iron, (S) High Temp Alloy.



SOLID CARBIDE THREAD MILLING CUTTERS

Single Thread Form • ACME

- Cuts internal 29° ACME threads.
- Mills right hand and left hand threads.
- AlTiN coating for improved lubricity and heat resistance.
- CNC ground in USA.



THREAD SIZE	CUTTER DIA. (D ₁) +.000"/-.002"	NECK DIA.	MAX DEPTH OF THREAD (L ₃) +.020"/-.000"	FLUTES	SHANK DIA. (D ₂)	OVERALL LENGTH (L ₁)	UNCOATED			AlTiN COATED		
							MFR #	A&M #	SALE PRICE	MFR #	A&M #	SALE PRICE
1/4-16	.170	.078	1/4	4	3/16	2-1/2	736950	6481491	\$46.20	736950-C3	6481492	\$52.40
3/8-12, 7/16-12	.245	.132	1/2	4	1/4	2-1/2	736960	6481493	\$54.90	736960-C3	6481494	\$62.40
1/2-10	.360	.210	5/8	4	3/8	2-1/2	736970	6481495	\$71.70	736970-C3	6481496	\$82.30
5/8-8	.450	.275	7/8	6	1/2	3	736975	6481497	\$99.60	736975-C3	6481498	\$114.00
3/4-6	.495	.278	7/8	6	1/2	3	736980	6481499	\$107.30	736980-C3	6481500	\$121.70
7/8-6	.495	.278	7/8	6	1/2	3	736985	6481501	\$107.30	736985-C3	6481502	\$121.70
1-5	.620	.370	1-1/8	6	5/8	3-1/2	736990	6481503	\$127.60	736990-C3	6481504	\$145.50

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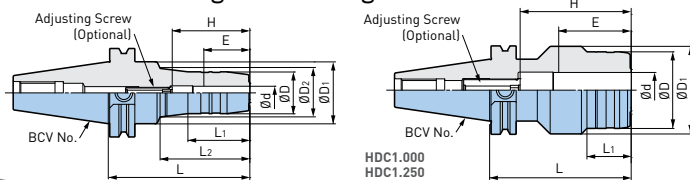
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HDC - STANDARD

Hydraulic Clamping Chuck For Fine Finishing And Reaming



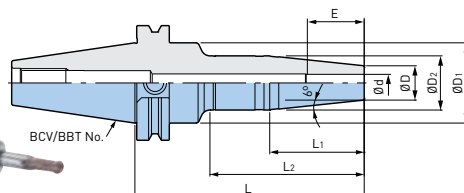
- Available in CAT, BT, HSK & CAPTO.
- Ideal for machining processes that require high accuracy such as drills, reamers, ball mills, end mills, diamond reamers and grinding tools.
- High precision runout accuracy less than .00012" at 4xD.
- Single screw design for easy assembly.
- Excellent accuracy with vibration damping.

Ød	ØD	ØD1	L	L1	L2	H	MIN CLAMPING LENGTH E	ADJUSTING SCREW	MAX RPM	WEIGHT (LBS.)	MFR #	A&M #	SALE PRICE
0.250	1.024	1.750	4.00	1.75	2.48	1.10-1.97	1.10	HDA6-05032	—	3.1	BCV40-HDC.250-4	6497643	\$704.00
0.375	1.181	1.750	4.00	1.75	2.52	1.30-2.17	1.30	HDA10-08032	—	3.1	BCV40-HDC.375-4	6497646	\$704.00
0.500	1.299	1.750	4.00	1.75	2.60	1.50-2.36	1.50	HDA12-10032	—	3.3	BCV40-HDC.500-4	4745758	\$704.00
0.750	1.654	1.750	4.00	2.00	4.09	1.69-2.76	1.69	HDA16-12037	—	3.6	BCV40-HDC.750-4	4745762	\$704.00
1.000	2.165	2.480	4.00	1.25	—	2.05-3.15	2.05	HDA25-16039	—	4.7	BCV40-HDC1.000-4	6497651	\$775.00
1.250	2.677	2.953	4.00	1.25	—	2.20-3.15	2.20	HDA25-16039	—	5.8	BCV40-HDC1.250-4	6497653	\$891.00



HDC - SUPER SLIM TYPE

Hydraulic Clamping Chuck With Slim Nose For 5-Axis Machining



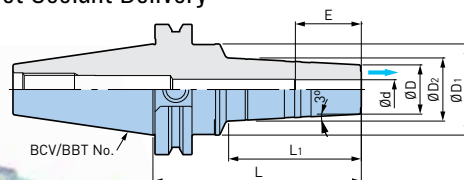
- Available in CAT, BT, HSK & CAPTO.
- For high precision 5-axis machining.
- For precision finishing processes in confined areas with drills, reamers, ball mills, end mills, diamond reamers and grinding tools.
- Slim design eliminates interference.
- Available in a variety of clamping diameters and projections.

Ød	ØD	ØD1	ØD2	L	L1	L2	MIN CLAMPING LENGTH E	H MAX	MAX RPM	WEIGHT (LBS.)	MFR #	A&M #	SALE PRICE
0.250	0.56	1.75	1.030	5.00	2.24	3.32	0.99	—	30,000	2.8	BCV40-HDC.250S-5	6497856	\$833.00
0.375	0.75	1.75	1.990	5.00	2.06	3.36	1.30	—	28,000	3.0	BCV40-HDC.375S-5	6497857	\$833.00
0.500	0.87	1.75	1.300	5.00	2.06	3.44	1.42	—	28,000	3.1	BCV40-HDC.500S-5	6497858	\$833.00
0.125	0.551	1.63	0.71	2.36	0.75	—	0.63	—	35000	1.3	BBT30-HDC3.175S-60	6497869	\$911.00
0.125	0.551	1.65	0.98	3.54	1.97	—	0.63	—	35,000	1.4	BBT30-HDC3.175S-90	6497870	\$955.00



HDC - JET COOLANT TYPE

Hydraulic Clamping Chuck With Jet Coolant Delivery



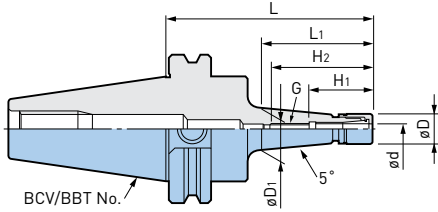
- Available in CAT, BT, HSK & CAPTO.
- Securely supplies coolant or oil mist to the tool periphery.
- Delivers outstanding results with high-accuracy finishing in 5-axis machines.
- Increased tool life and improve surface finishes without the need for special cutting tools.
- Available in a wide variety of clamping diameters and projections.

Ød	ØD	ØD1	ØD2	L	L1	H	MIN CLAMPING LENGTH E	WEIGHT (LBS)	MFR #	A&M #	SALE PRICE
0.250	0.79	1.75	1.06	4.00	2.50	—	0.99	2.7	BCV40-HDC.250J-4	6497961	\$876.00
0.375	0.95	1.75	1.22	4.00	2.54	—	1.30	2.8	BCV40-HDC.375J-4	6497962	\$876.00
0.500	1.07	1.75	1.34	4.00	2.57	—	1.42	2.9	BCV40-HDC.500J-4	6497963	\$876.00
0.250	0.790	1.66	1.00	3.50	1.92	—	0.99	1.5	BBT30-HDC.250J-3.5	6497964	\$849.00
0.375	0.950	1.74	1.16	3.50	1.93	—	1.30	1.6	BBT30-HDC.375J-3.5	6497965	\$849.00
0.500	1.070	1.82	1.28	3.50	1.94	—	1.42	1.7	BBT30-HDC.500J-3.5	6497966	\$849.00



MEGA MICRO CHUCK—TYPE T

High-Speed Slim Collet Chucks



- Available in CAT, BT, HSK & CAPTO.
- For micro drill & end mill applications.
- Slim body and nut design for reaching into confined areas.
- Long collet length offers excellent gripping and accuracy for small end mills.
- Excellent for small diameter milling operations ($\phi .125"$ and under).

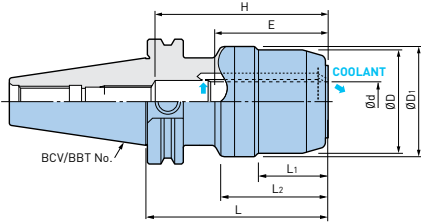


Ød	ØD	ØD1	L	L1	H1	H2	G	COLLET	NUT	WRENCH	MAX RPM	WEIGHT (LBS.)	MFR #	A&M #	SALE PRICE
.018-.128	0.394	0.76	4.00	2.38	0.87	1.50	M4 P0.7	NBC3S-0	MGN3S	MGR10	25,000	2.4	BCV40-MEGA3S-4T	6498015	\$518.00
.018-.159	0.472	0.78	4.00	2.38	1.04	1.85	M5 P0.8	NBC4S-0	MGN4S	MGR12	25,000	2.4	BCV40-MEGA4S-4T	6498017	\$518.00
.018-.238	0.551	0.84	4.00	2.38	1.12	1.93	M7 P0.75	NBC6S-0	MGN6S	MGR14	25,000	2.4	BCV40-MEGA6S-4T	6498019	\$518.00
.018-.128	0.394	0.72	3.54	2.48	0.87	1.50	M4 P0.70	NBC3S-0	MGN3S	MGR10	35,000	1.0	BBT30-MEGA3S-90T	6498024	\$486.00
.018-.159	0.472	0.79	3.54	2.48	1.04	1.85	M5 P0.80	NBC4S-0	MGN4S	MGR12	35,000	1.0	BBT30-MEGA4S-90T	6498028	\$486.00
.018-.238	0.551	0.85	3.54	2.48	1.12	1.93	M7 P0.75	NBC6S-0	MGN6S	MGR14	35,000	1.0	BBT30-MEGA6S-90T	6498033	\$486.00



MEGA DOUBLE POWER CHUCK

Heavy-Duty Design Has The Highest Gripping Strength Available



- Available in CAT, BT, HSK & CAPTO.
- High-rigidity design for heavy cutting without chatter.
- Precision ground and balanced for high-speed machining.
- Higher clamping force by contact of holder body and clamping nut.
- Weldon Flat tools can be used with a reduction collet.

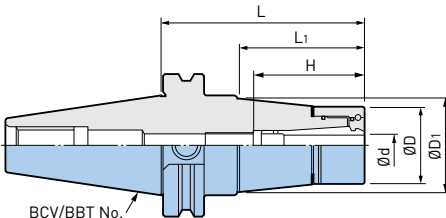


Ød	ØD	ØD1	ØD2	L	L1	L2	H	MIN CLAMPING LENGTH E	WRENCH	MAX RPM	WEIGHT (LBS.)	MFR #	A&M #	SALE PRICE
0.500	1.500	1.700	—	2.54	0.98	1.77	2.24	1.70	MGR38	30,000	2.6	BCV40-MEGA.500DS-2.5	6498126	\$622.00
0.750	1.969	2.193	—	3.59	1.40	2.09	3.44	2.25	MGR50L	30,000	4.0	BCV40-MEGA.750DS-3.5A	6498128	\$643.00
1.000	2.441	2.469	—	3.59	1.61	2.09	3.44	2.50	MGR62L	27,000	4.6	BCV40-MEGA1.000DS-3.5A	6498129	\$667.00
1.000	2.756	3.031	—	4.09	1.34	2.58	3.63	2.50	MGR70L	20,000	10.6	BCV50-MEGA1.000DS-4	6498135	\$787.00
1.250	3.150	3.386	—	4.09	1.65	2.53	4.22	2.75	MGR80L	20,000	11.3	BCV50-MEGA1.250DS-4	6498137	\$846.00
0.750	1.969	2.00	—	2.59	1.26	1.48	2.36	1.97	MGR50L	30,000	1.8	BBT30-MEGA.750DS-2.5	6498140	\$643.00



MEGA E CHUCK

High Precision Milling Collet Chuck



- Available in CAT, BT, HSK & CAPTO.
- Designed exclusively for end milling.
- Runout within 1µm at nose guaranteed.
- High gripping strength & tapered body for high rigidity.
- Collet chuck designed exclusively for end milling up to $\phi .500"$ with high concentricity & rigidity.
- End Mill collets are ideal to achieve highest clamping force and runout accuracy.



Ød	ØD	ØD1	L	L1	H	COLLET	NUT	WRENCH	MAX RPM	WEIGHT (LBS.)	MFR #	A&M #	SALE PRICE
.125-.250" (3-6mm)	0.984	1.25	4.00	2.42	1.45-1.77	MEC6-0	MEN6	MGR25	29,000	3.0	BCV40-MEGA6E-4	6498290	\$491.00
.125-.250" (3-8mm)	1.181	1.46	4.00	2.54	1.65-2.00	MEC8-0	MEN8	MGR30	29,000	3.2	BCV40-MEGA8E-4	6498294	\$512.00
.125-.375" (3-10mm)	1.378	1.65	4.00	2.58	1.89-2.28	MEC10-0	MEN10	MGR35	29,000	3.4	BCV40-MEGA10E-4	6498298	\$533.00
.125-.500" (3-12mm)	1.654	2.07	5.00	3.42	1.96-2.36	MEC13-0	MEN13	MGR42	18,000	9.3	BCV50-MEGA13E-5	6498308	\$722.00
.125-.250" (3-6mm)	0.984	1.01	1.97	0.98	1.46-1.77	MEC6-0	MEN6	MGR25	40,000	1.2	BBT30-MEGA6E-50	6498311	\$429.00
.125-.250" (3-8mm)	1.181	1.20	1.97	0.98	1.65-2.01	MEC8-0	MEN8	MGR30	40,000	1.2	BBT30-MEGA8E-50	6498315	\$452.00

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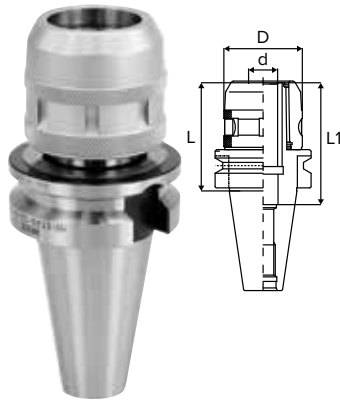
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Stroudsburg, PA
855.207.0400





COOLANT-THRU MILLING CHUCKS

For Drilling, Milling, Reaming & Threading



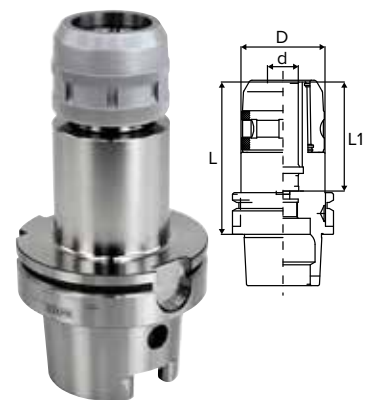
BT30



CAT40



CAT50



HSK100

Nikken invented the milling chuck in 1963, and today the Multi Lock Milling Chuck is still the most reliable and powerful toolholder available. Multi Lock milling chucks feature multi-roller bearings and a heavy duty nut for more gripping power. Additionally, spiral coolant slots project coolant at 2 degrees which assures high pressure and volume of cooling during high speed operations. All milling chucks are cryogenically treated after heat treatment to stabilize concentrations of carbon. This prevents deformation and cracking when under stress for the life of the toolholder. Milling chucks offer a tremendous increase in performance over end mill holders.

ID	COLLET RANGE	L	OD	MAX RPM	TIR	COLLET SIZE	COOLANT DISC OR COOLANT NUT	WRENCH REQUIRED	MFR #	A&M #	SALE PRICE
BT30											
3/4"	0.118"-0.75"	2.95"	2.05"	12,000	0.0002"	KM3/4	CKFN20(3/4)	9HC22 CCKL20 9CKR	BT30-C3/4-75	4544418	\$520.00
CAT40											
1.1/4"	0.118"-1.25"	4.13"	2.72"	20,000	0.0002"	KM1.1/4	CKFN32(1.1/4)	9HC32 CCKL32 9CKR	CAT40-C1.1/4SL-105U-IDU	5768080	\$578.00
1"	0.118"-1"	4.13"	2.36"	20,000	0.0002"	KM1	CKFN25(1)	9HC25 CCKL25 9CKR	CAT40-C1-105U-IDU	4763940	\$578.00
1"	0.118"-1"	3.35"	2.36"	20,000	0.0002"	KM1	CKFN25(1)	9HC25 CCKL25 9CKR	CAT40-C1-85U-IDU	4763530	\$549.00
3/4"	0.118"-0.75"	4.13"	2.05"	20,000	0.0002"	KM3/4	CKFN20(3/4)	9HC22 CCKL20 9CKR	CAT40-C3/4-105U-IDU	4763939	\$529.00
3/4"	0.118"-0.75"	3.35"	2.05"	20,000	0.0002"	KM3/4	CKFN20(3/4)	9HC22 CCKL20 9CKR	CAT40-C3/4-85U-IDU	4758948	\$526.00
3/4"	0.118"-0.75"	3.35"	2.05"	25,000	0.0002"	KM3/4	CKFN20(3/4)	GH20 CCKL20 9CKR	CAT40-C3/4-85UG-IDU	5768089	\$572.00
3/4"	0.118"-0.75"	2.76"	2.05"	20,000	0.0002"	KM3/4	CKFN20(3/4)	9HC22 CCKL20 9CKR	CAT40-C3/4-70U-IDU	4763937	\$526.00
32mm	0.118"-1.26"	4.13"	2.50"	6,000	0.0002"	KM32	CKFN32(1.1/4)	9HC32 CCKL32 9CKR	CAT40-C32-105U-IDU	5768090	\$549.00
CAT50											
1.1/4"	0.118"-1.25"	6.5"	2.72"	6,000	0.0002"	KM1.1/4	CKFN32(1.1/4)	9HC32 CCKL32 9CKR	CAT50-C1.1/4-165U-IDU	4779013	\$780.00
1.1/4"	0.118"-1.25"	4.13"	2.72"	8,000	0.0002"	KM1.1/4	CKFN32(1.1/4)	9HC32 CCKL32 9CKR	CAT50-C1.1/4-105U-IDU	5768191	\$683.00
1.1/4"	0.118"-1.25"	3.54"	2.72"	8,000	0.0002"	KM1.1/4	CKFN32(1.1/4)	9HC32 CCKL32 9CKR	CAT50-C1.1/4-90U-IDU	4767710	\$666.00
3/4"	0.118"-0.75"	5.31"	2.05"	6,000	0.0002"	KM3/4	CKFN20(3/4)	9HC22 CCKL20 9CKR	CAT50-C3/4-135U-IDU	5768200	\$711.00
3/4"	0.118"-0.75"	6.5"	2.05"	6,000	0.0002"	KM3/4	CKFN20(3/4)	9HC22 CCKL20 9CKR	CAT50-C3/4-165U-IDU	4767280	\$762.00
3/4"	0.118"-0.75"	4.13"	2.05"	8,000	0.0002"	KM3/4	CKFN20(3/4)	9HC22 CCKL20 9CKR	CAT50-C3/4-105U-IDU	4748862	\$660.00
32mm	0.118"-1.26"	4.13"	2.72"	8,000	0.0002"	KM32	CKFN32(1.1/4)	9HC32 CCKL32 9CKR	CAT50-C32-105U-IDU	5768202	\$666.00
HSK100											
1.1/4"	0.118"-1.25"	4.53"	2.72"	8,000	0.0002"	KM1.1/4	CKFN32(1.1/4)	9HC32 CCKL32 9CKR	HSK100A-C1.1/4-115-IDU	6324292	\$856.00

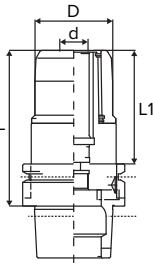


COOLANT-THRU MILLING CHUCKS

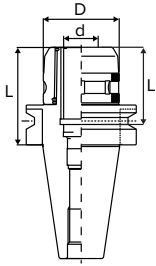
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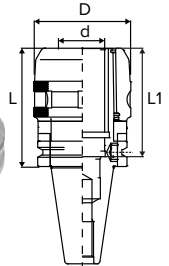
HSK63A



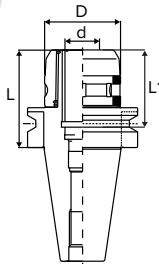
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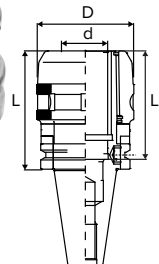
NCAT50



NBT30



NCAT40



ID	COLLET RANGE	L	OD	MAX RPM	TIR	COLLET SIZE	COOLANT DISC OR COOLANT NUT	WRENCH REQUIRED	MFR #	A&M #	SALE PRICE
HSK63A											
1"	0.118"-1"	3.94"	2.36"	20,000	0.0002"	KM1	CKFN25(1)	GH25 CCKL25 9CKR	HSK63A-C1-100G-IDU	6324331	\$733.00
3/4"	0.118"-0.75"	4.33"	2.05"	20,000	0.0002"	KM3/4	CKFN20(3/4)	GH20 CCKL20 9CKR	HSK63A-C3/4-110G-IDU	6324333	\$688.00
3/4"	0.118"-0.75"	3.74"	2.05"	20,000	0.0002"	KM3/4	CKFN20(3/4)	GH20 CCKL20 9CKR	HSK63A-C3/4-95G-IDU	6324335	\$670.00
NBT30 DUAL CONTACT											
3/4"	0.118"-0.75"	2.95"	2.05"	8,000	0.0002"	KM3/4	CKFN20(3/4)	9HC22 CCKL20 9CKR	NBT30-C3/4-75	4786033	\$554.00
NBT40 DUAL CONTACT											
3/4"	0.118"-0.75"	2.76"	2.05"	8,000	0.0002"	KM3/4	CKFN20(3/4)	9HC22 CCKL20 9CKR	NBT40-C3/4-70	5769579	\$562.00
NCAT40 DUAL CONTACT											
1.1/4"	0.118"-1.25"	4.13"	2.72"	20,000	0.0002"	KM1.1/4	CKFN32(1.1/4)	9HC32 CCKL32 9CKR	NCAT40-C1.1/4SL-105U-IDU	5769713	\$584.00
1"	0.118"-1"	4.13"	2.36"	20,000	0.0002"	KM1	CKFN25(1)	9HC25 CCKL25 9CKR	NCAT40-C1-105U-IDU	5769718	\$705.00
1"	0.118"-1"	3.35"	2.36"	20,000	0.0002"	KM1	CKFN25(1)	9HC25 CCKL25 9CKR	NCAT40-C1-85U-IDU	4760625	\$584.00
3/4"	0.118"-0.75"	4.72"	2.05"	20,000	0.0002"	KM3/4	CKFN20(3/4)	9HC22 CCKL20 9CKR	NCAT40-C3/4-120U-IDU	4757569	\$585.00
3/4"	0.118"-0.75"	3.35"	2.05"	20,000	0.0002"	KM3/4	CKFN20(3/4)	9HC22 CCKL20 9CKR	NCAT40-C3/4-85U-IDU	5769724	\$565.00
3/4"	0.118"-0.75"	3.35"	2.05"	25,000	0.0002"	KM3/4	CKFN20(3/4)	GH20 CCKL20 9CKR	NCAT40-C3/4-85UG-IDU	5769723	\$609.00
NCAT50 DUAL CONTACT											
1.1/4"	0.118"-1.25"	4.13"	2.72"	8,000	0.0002"	KM1.1/4	CKFN32(1.1/4)	9HC32 CCKL32 9CKR	NCAT50-C1.1/4-105U-IDU	5769812	\$736.00
1.1/4"	0.118"-1.25"	3.54"	2.72"	8,000	0.0002"	KM1.1/4	CKFN32(1.1/4)	9HC32 CCKL32 9CKR	NCAT50-C1.1/4-90U-IDU	5769816	\$687.00
3/4"	0.118"-0.75"	4.13"	2.05"	8,000	0.0002"	KM3/4	CKFN20(3/4)	9HC22 CCKL20 9CKR	NCAT50-C3/4-105U-IDU	5769823	\$731.00

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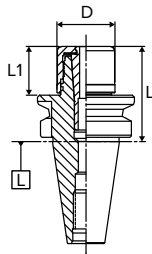


COOLANT-THRU VC COLLET CHUCKS

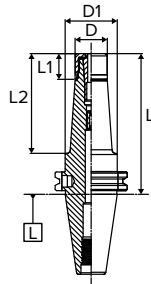
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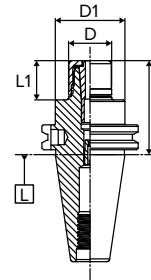
BT30



CAT40



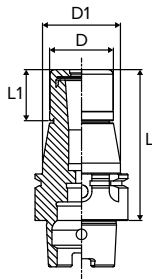
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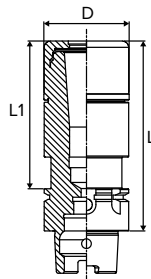
Due to the TiN bearing nut reducing friction, VC collet chucks hold high runout accuracy within 3 microns at 4 times diameter. This produces better stability and improves surface finish and cutting tool life. Ideal for high speed machining, thread milling, and ultra-precision reaming, VC collet chucks are designed with a thick wall design of the holder body that improves cutting rigidity and increases dampening. Additionally, an 8-degree internal taper collet provides greater accuracy and clamping capability – double the gripping power of ER collet chucks.



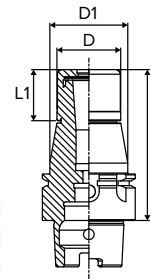
HSK100



HSK40



HSK63



ID	COLLET RANGE	L	OD	MAX RPM	TIR	COLLET SIZE	COLLET NUT	WRENCH REQUIRED	MFR #	A&M #	SALE PRICE
BT30											
~0.512"	0.118"-0.512"	3.54"	1.58"	40,000 G2.5	0.0001"	VC13	VCN-13B VCN-13BJ	GH16	BT30-VC13-90	6323936	\$485.00
CAT40											
~0.512"	0.118"-0.512"	2.36"	1.58"	30,000 G2.5	0.0001"	VC13	VCN-13B VCN-13BJ	GH16	CAT40-VC13-60U-IDU	5131428	\$494.00
~0.512"	0.118"-0.512"	3.54"	1.58"	30,000 G2.5	0.0001"	VC13	VCN-13B VCN-13BJ	GH16	CAT40-VC13-90U-IDU	5768186	\$513.00
CAT50											
~0.512"	0.118"-0.512"	4.13"	1.58"	20,000 G2.5	0.0001"	VC13	VCN-13B VCN-13BJ	GH16	CAT50-VC13-105U-IDU	5768308	\$620.00
HSK100											
~0.512"	0.118"-0.512"	4.13"	1.58"	20,000 G2.5	0.0001"	VC13	VCN-13B VCN-13BJ	GH16	HSK100A-VC13-105	5768903	\$672.00
HSK40											
~0.25"	0.079"-0.25"	3.54"	1.08"	40,000 G2.5	0.0001"	VC6	VCN-6B VCN-6BJ	GH10	HSK40E-VC6-90	5768924	\$528.00
HSK63											
~0.512"	0.118"-0.512"	3.54"	1.58"	30,000 G2.5	0.0001"	VC13	VCN-13B VCN-13BJ	GH16	HSK63A-VC13-90-IDU	6324368	\$604.00

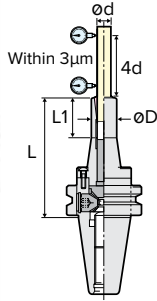


MMC MINI COLLET CHUCKS

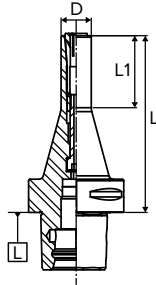
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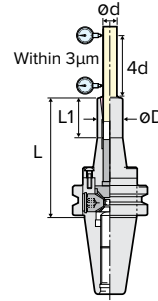
BT40



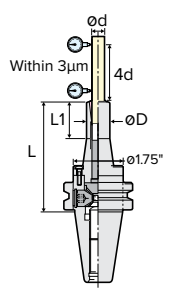
C6



CAT40



NCAT40



Featuring a slim and compact body for precision machining with small diameter tools (up to 0.5"), the MMC collet chuck is an ideal toolholder for high-speed, high precision machining applications where clearance is needed such as die mold, aerospace, and medical parts. The MMC is precision ground and pre-balanced to 30,000 RPM at G2.5 runout accuracy of 3 microns at 4 times the diameter. An internal draw-in collet clamping mechanism (no collet nut required) results in strong, high-precision gripping from the front nose.

ID	COLLET RANGE	L	OD	MAX RPM	TIR	COLLET SIZE	WRENCH REQUIRED	MFR #	A&M #	SALE PRICE
BT40										
-0.394"	0.079"-0.394"	3.54"	0.79"	30,000 G2.5	0.0001"	MMC8	ALLEN6	BT40-MMC8C-90-AA	4764627	\$718.00
C6										
-0.394"	0.079"-0.394"	4.72"	0.79"	30,000 G2.5	0.0001"	MMC8	EA573KL-15	C6-MMC8C-120-AT	5767943	\$782.00
CAT40										
-0.394"	0.079"-0.394"	4.72"	0.79"	30,000 G2.5	0.0001"	MMC8	ALLEN6	CAT40-MMC8C-120U-IDU	5768116	\$820.00
-0.394"	0.079"-0.394"	4.92"	0.79"	30,000 G2.5	0.0001"	MMC8	THEX5-3.75	CAT40-MMC8C-125U-D-IDU	4818383	\$555.00
-0.394"	0.079"-0.394"	3.54"	0.79"	30,000 G2.5	0.0001"	MMC8	ALLEN6	CAT40-MMC8C-90U-IDU	5768119	\$718.00
NCAT40										
-0.5"	0.157"-0.5"	3.54"	1.18"	30,000 G2.5	0.0001"	MMC12	ALLEN6	NCAT40-MMC12C-90U-IDU	5769731	\$846.00
-0.394"	0.079"-0.394"	4.72"	0.79"	30,000 G2.5	0.0001"	MMC8	ALLEN6	NCAT40-MMC8C-120U-IDU	5769733	\$907.00
-0.394"	0.079"-0.394"	3.54"	0.79"	30,000 G2.5	0.0001"	MMC8	ALLEN6	NCAT40-MMC8C-90U-IDU	5769735	\$777.00

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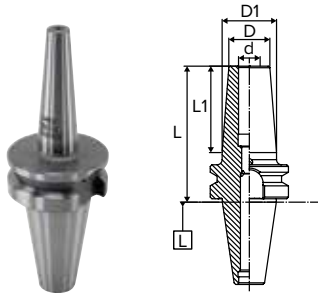
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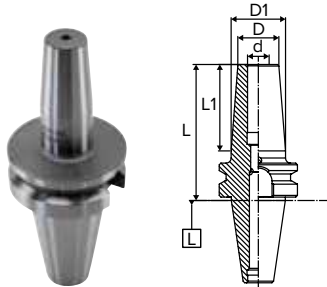


COOLANT-THRU SHRINK FIT HOLDERS

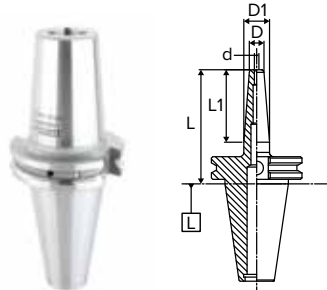
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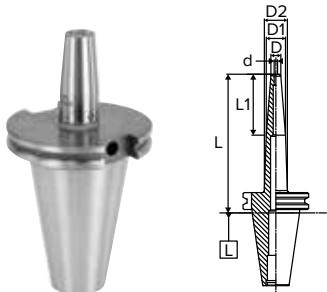
BT30



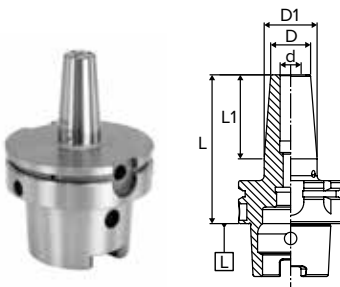
BT40



CAT40



CAT50



HSK100

ID	COLLET SIZE	L	OD	MAX RPM	TIR	COOLANT TYPE	MFR #	A&M #	SALE PRICE
BT30									
1/8"	0.125"	3.15"	0.71"	25,000	0.0002"	Sealed	BT30-SF0125-3.15	5767397	\$310.00
1/2"	0.5"	3.15"	1.51"	25,000	0.0002"	Coolant Ports	BT30-SF0500-3.15CP	5767402*	\$310.00
BT40									
1/8"	0.125"	3.54"	0.71"	25,000	0.0002"	Sealed	BT40-SF0125-3.54	5767443	\$310.00
3/16"	0.188"	3.54"	0.63"	25,000	0.0002"	Sealed	BT40-SF0187-3.54	5767448	\$310.00
1/4"	0.25"	3.54"	1.35"	25,000	0.0002"	Coolant Ports	BT40-SF0250-3.54CP	5767451	\$310.00
3/8"	0.375"	3.54"	1.51"	25,000	0.0002"	Coolant Ports	BT40-SF0375-3.54CP	5767460	\$310.00
1/2"	0.5"	3.54"	1.51"	25,000	0.0002"	Coolant Ports	BT40-SF0500-3.54CP	5767464*	\$310.00
CAT40									
1/8"	0.125"	3.15"	0.71"	25,000	0.0002"	Sealed	CAT40-SF0125-3.15	5768121	\$310.00
1/8"	0.125"	5.12"	0.71"	25,000	0.0002"	Sealed	CAT40-SF0125-5.12	4831767	\$352.00
1/8"	0.125"	6.3"	0.71"	25,000	0.0002"	Sealed	CAT40-SF0125-6.30	5768123	\$385.00
3/16"	0.188"	3.15"	0.63"	25,000	0.0002"	Sealed	CAT40-SF0187-3.15	4831766	\$310.00
1/4"	0.25"	3.15"	1.35"	25,000	0.0002"	Coolant Ports	CAT40-SF0250-3.15CP	4789014	\$310.00
1/4"	0.25"	3.15"	1.35"	25,000	0.0002"	Sealed	CAT40-SF0250-3.15MT	5768127	\$310.00
1/4"	0.25"	5.12"	1.35"	25,000	0.0002"	Coolant Ports	CAT40-SF0250-5.12CP	5768128	\$352.00
1/4"	0.25"	6.3"	1.35"	25,000	0.0002"	Coolant Ports	CAT40-SF0250-6.30CP	5768129	\$385.00
1/4"	0.25"	6.3"	1.35"	25,000	0.0002"	Sealed	CAT40-SF0250-6.30MT	5768130	\$385.00
3/8"	0.375"	3.15"	1.51"	25,000	0.0002"	Coolant Ports	CAT40-SF0375-3.15CP	4789015	\$310.00
3/8"	0.375"	5.12"	1.51"	25,000	0.0002"	Coolant Ports	CAT40-SF0375-5.12CP	5768133	\$352.00
3/8"	0.375"	6.3"	1.51"	25,000	0.0002"	Coolant Ports	CAT40-SF0375-6.30CP	4789017	\$385.00
1/2"	0.5"	3.15"	1.51"	25,000	0.0002"	Coolant Ports	CAT40-SF0500-3.15CP	4782985*	\$310.00
1/2"	0.5"	5.12"	1.51"	25,000	0.0002"	Coolant Ports	CAT40-SF0500-5.12CP	4783015*	\$352.00
1/2"	0.5"	6.3"	1.51"	25,000	0.0002"	Coolant Ports	CAT40-SF0500-6.30CP	5768137*	\$385.00
5/8"	0.625"	3.15"	1.6"	25,000	0.0002"	Coolant Ports	CAT40-SF0625-3.15CP	4831765*	\$310.00
3/4"	0.75"	3.15"	1.88"	25,000	0.0002"	Coolant Ports	CAT40-SF0750-3.15CP	4831764*	\$310.00
CAT50									
1/4"	0.25"	3.15"	1.35"	25,000	0.0002"	Coolant Ports	CAT50-SF0250-3.15CP	5768237	\$479.00
1/4"	0.25"	5.12"	1.35"	25,000	0.0002"	Coolant Ports	CAT50-SF0250-5.12CP	5768239	\$561.00
1/4"	0.25"	6.3"	1.35"	25,000	0.0002"	Coolant Ports	CAT50-SF0250-6.30CP	5768240	\$638.00
3/8"	0.375"	3.15"	1.51"	25,000	0.0002"	Coolant Ports	CAT50-SF0375-3.15CP	5768242	\$479.00
3/8"	0.375"	5.12"	1.51"	25,000	0.0002"	Coolant Ports	CAT50-SF0375-5.12CP	5768243	\$561.00
3/8"	0.375"	6.3"	1.51"	25,000	0.0002"	Coolant Ports	CAT50-SF0375-6.30CP	5768244	\$638.00
1/2"	0.5"	3.15"	1.51"	25,000	0.0002"	Coolant Ports	CAT50-SF0500-3.15CP	5768245*	\$479.00
1/2"	0.5"	6.3"	1.51"	25,000	0.0002"	Coolant Ports	CAT50-SF0500-6.30CP	5768248*	\$638.00
5/8"	0.625"	6.3"	1.6"	25,000	0.0002"	Coolant Ports	CAT50-SF0625-6.30CP	5768251*	\$638.00
3/4"	0.75"	3.15"	1.88"	25,000	0.0002"	Coolant Ports	CAT50-SF0750-3.15CP	5768252*	\$479.00
3/4"	0.75"	6.3"	1.88"	25,000	0.0002"	Coolant Ports	CAT50-SF0750-6.30CP	5768254*	\$638.00
HSK100									
1/4"	0.25"	3.54"	1.35"	25,000	0.0002"	Coolant Ports	H100A-SF0250-3.54CP	5768646	\$495.00
1/4"	0.25"	6.3"	1.35"	25,000	0.0002"	Coolant Ports	H100A-SF0250-6.30CP	5768647	\$605.00
3/8"	0.375"	3.54"	1.51"	25,000	0.0002"	Coolant Ports	H100A-SF0375-3.54CP	5768650	\$495.00
3/8"	0.375"	6.3"	1.51"	25,000	0.0002"	Coolant Ports	H100A-SF0375-6.30CP	5768651	\$605.00
1/2"	0.5"	3.74"	1.51"	25,000	0.0002"	Coolant Ports	H100A-SF0500-3.74CP	5768654*	\$495.00
1/2"	0.5"	6.3"	1.51"	25,000	0.0002"	Coolant Ports	H100A-SF0500-6.30CP	5768655*	\$605.00
5/8"	0.625"	6.3"	1.6"	25,000	0.0002"	Coolant Ports	H100A-SF0625-6.30CP	5768657*	\$605.00
3/4"	0.75"	4.13"	1.88"	25,000	0.0002"	Coolant Ports	H100A-SF0750-4.13CP	5768658*	\$528.00
3/4"	0.75"	6.3"	1.88"	25,000	0.0002"	Coolant Ports	H100A-SF0750-6.30CP	5768659*	\$605.00

*Can also be used for thread milling.



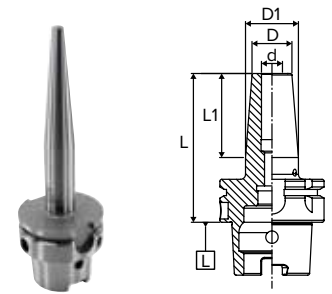
COOLANT-THRU SHRINK FIT HOLDERS

For Drilling, Milling & Reaming

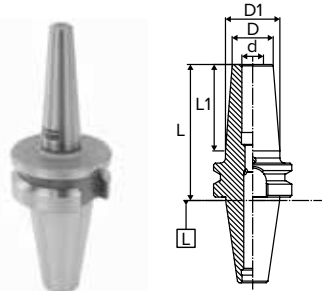
Extreme gripping and being pre-balanced for up to 25,000 RPM makes shrink fit holders ideal for high-speed applications. Additionally, due to their slim design, shrink fit holders work well for areas where clearance is an issue. Using shrink fit holders will result in excellent surface finish, and will increase cutting tool life, material removal rate, and workpiece accuracy.

ID	COLLET SIZE	L	OD	MAX RPM	TIR	COOLANT TYPE	MFR #	A&M #	SALE PRICE
HSK63									
1/8"	0.125"	6.3"	0.71"	25,000	0.0002"	Sealed	H63A-SF0125-6.30MT	5768759	\$449.00
1/4"	0.25"	3.15"	1.35"	25,000	0.0002"	Coolant Ports	H63A-SF0250-3.15CP	4761918	\$362.00
1/4"	0.25"	6.3"	1.35"	25,000	0.0002"	Coolant Ports	H63A-SF0250-6.30CP	5131154	\$462.00
3/8"	0.375"	3.35"	1.51"	25,000	0.0002"	Coolant Ports	H63A-SF0375-3.35CP	4809187	\$362.00
3/8"	0.375"	5.12"	1.51"	25,000	0.0002"	Coolant Ports	H63A-SF0375-5.12CP	5131151	\$407.00
3/8"	0.375"	6.3"	1.51"	25,000	0.0002"	Coolant Ports	H63A-SF0375-6.30CP	5131152	\$462.00
1/2"	0.5"	3.54"	1.51"	25,000	0.0002"	Coolant Ports	H63A-SF0500-3.54CP	5131146*	\$362.00
1/2"	0.5"	4.72"	1.51"	25,000	0.0002"	Coolant Ports	H63A-SF0500-4.72CP	5768769*	\$405.00
1/2"	0.5"	6.3"	1.51"	25,000	0.0002"	Coolant Ports	H63A-SF0500-6.30CP	5131149*	\$462.00
5/8"	0.625"	3.74"	1.6"	25,000	0.0002"	Coolant Ports	H63A-SF0625-3.74CP	5768770*	\$385.00
3/4"	0.75"	3.94"	1.88"	25,000	0.0002"	Coolant Ports	H63A-SF0750-3.94CP	5768774*	\$362.00
NBT30									
1/8"	0.125"	3.15"	0.71"	25,000	0.0002"	Sealed	NBT30-SF0125-3.15	5769549	\$380.00
1/2"	0.5"	3.15"	1.51"	25,000	0.0002"	Coolant Ports	NBT30-SF0500-3.15CP	5769553*	\$380.00
NBT40									
1/8"	0.125"	3.54"	0.71"	25,000	0.0002"	Sealed	NBT40-SF0125-3.54	5769586	\$407.00
1/2"	0.5"	3.54"	1.51"	25,000	0.0002"	Coolant Ports	NBT40-SF0500-3.54CP	5769592*	\$391.00
NCAT40									
1/8"	0.125"	3.15"	0.71"	25,000	0.0002"	Sealed	NCAT40-SF0125-3.15	4783917	\$387.00
1/8"	0.125"	5.12"	0.71"	25,000	0.0002"	Sealed	NCAT40-SF0125-5.12	5769738	\$462.00
1/8"	0.125"	6.3"	0.71"	25,000	0.0002"	Sealed	NCAT40-SF0125-6.30	5769739	\$495.00
3/16"	0.188"	3.15"	0.63"	25,000	0.0002"	Sealed	NCAT40-SF0187-3.15	5769740	\$387.00
3/16"	0.188"	5.12"	0.63"	25,000	0.0002"	Sealed	NCAT40-SF0187-5.12	5769741	\$462.00
1/4"	0.25"	3.15"	1.35"	25,000	0.0002"	Coolant Ports	NCAT40-SF0250-3.15CP	5769743	\$387.00
1/4"	0.25"	5.12"	1.35"	25,000	0.0002"	Coolant Ports	NCAT40-SF0250-5.12CP	5769744	\$429.00
1/4"	0.25"	6.3"	1.35"	25,000	0.0002"	Coolant Ports	NCAT40-SF0250-6.30CP	5769745	\$462.00
3/8"	0.375"	3.15"	1.51"	25,000	0.0002"	Coolant Ports	NCAT40-SF0375-3.15CP	5769748	\$387.00
3/8"	0.375"	5.12"	1.51"	25,000	0.0002"	Coolant Ports	NCAT40-SF0375-5.12CP	5769749	\$429.00
1/2"	0.5"	3.15"	1.51"	25,000	0.0002"	Coolant Ports	NCAT40-SF0500-3.15CP	5769752*	\$387.00
1/2"	0.5"	5.12"	1.51"	25,000	0.0002"	Coolant Ports	NCAT40-SF0500-5.12CP	5769753*	\$429.00
1/2"	0.5"	6.3"	1.51"	25,000	0.0002"	Coolant Ports	NCAT40-SF0500-6.30CP	5769754*	\$462.00
5/8"	0.625"	3.15"	1.6"	25,000	0.0002"	Coolant Ports	NCAT40-SF0625-3.15CP	5769755*	\$387.00
3/4"	0.75"	3.15"	1.88"	25,000	0.0002"	Coolant Ports	NCAT40-SF0750-3.15CP	5769759*	\$387.00
1/2" STRAIGHT SHANK EXTENSION									
1/8"	0.125"	6.3"	0.71"	—	0.0002"	Sealed	ST50-SF0125-6.30	5770937	\$189.00
3/16"	0.188"	6.3"	0.63"	—	0.0002"	Sealed	ST50-SF0187-6.30	5770938	\$189.00
5/8" STRAIGHT SHANK EXTENSION									
1/8"	0.125"	6.3"	0.71"	—	0.0002"	Sealed	ST62-SF0125-6.30	5770939	\$189.00
3/4" STRAIGHT SHANK EXTENSION									
1/4"	0.25"	6.3"	1.35"	—	0.0002"	Sealed	ST75-SF0250-6.30	4746537	\$189.00

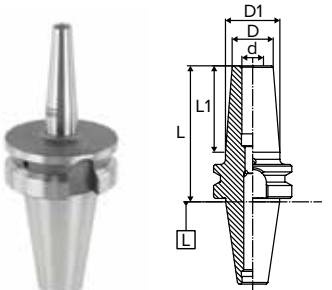
*Can also be used for thread milling.



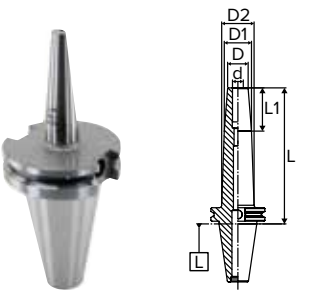
HSK63



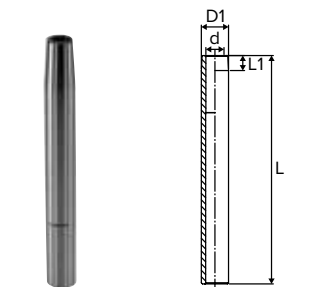
NBT30



NBT40



NCAT40



Straight Shank Extension

Headquarters & NJ Sales Office
Rahway, NJ
800.864.2660

New England Regional Office
West Lebanon, NH
800.225.6711

Northern NJ Regional Office
Fair Lawn, NJ
800.622.1363

CT Regional Office
Middletown, CT
800.771.1233

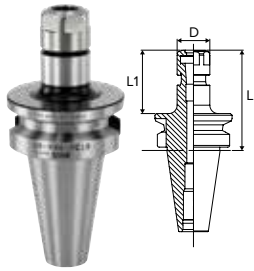
PA Regional Office
Stroudsburg, PA
855.207.0400



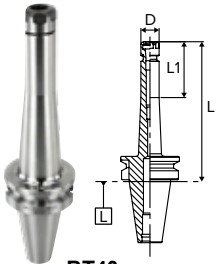


SK SLIM CHUCK HOLDERS

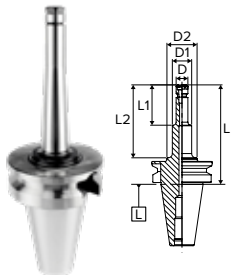
For Drilling, Milling, Reaming & Tapping



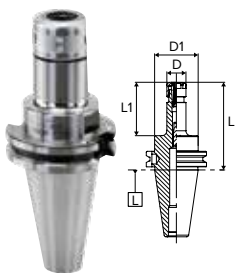
BT30



BT40



BT50



CAT40

ID	COLLET RANGE	L	OD	MAX RPM	TIR	WRENCH REQUIRED	MFR #	A&M #	SALE PRICE
BT30									
~0.394	0.035"-0.394"	1.77"	1.08"	15,000	0.0002"	SKL-10 SKJL-10 9ZFL(M4 Allen)	BT30-SK10-45	5767407	\$335.00
~0.394	0.035"-0.394"	2.36"	1.08"	15,000	0.0002"	SKL-10 SKJL-10 9ZFL(M4 Allen)	BT30-SK10-60	4785855	\$335.00
~0.394	0.035"-0.394"	2.36"	1.08"	30,000 G2.5	0.0002"	GH10 SKJL-10	BT30-SK10-60P	5767409	\$399.00
~0.394	0.035"-0.394"	3.54"	1.08"	15,000	0.0002"	SKL-10 SKJL-10 9ZFL(M4 Allen)	BT30-SK10-90	4763833	\$350.00
~0.394	0.035"-0.394"	3.54"	1.08"	30,000 G2.5	0.0002"	GH10 SKJL-10	BT30-SK10-90P	5767410	\$414.00
~0.512	0.108"-0.512"	3.54"	1.30"	15,000	0.0002"	016-SPAN SKJL-16	BT30-SK13-90	6323934	\$377.00
~0.63	0.108"-0.63"	2.36"	1.58"	15,000	0.0002"	9HC16 SKJL-16 9ZFL(M4 Allen)	BT30-SK16-60	4763935*	\$381.00
~0.63	0.108"-0.63"	2.36"	1.58"	25,000 G2.5	0.0002"	GH16 SKJL-16	BT30-SK16-60P	5767412*	\$438.00
~0.63	0.108"-0.63"	3.54"	1.58"	15,000	0.0002"	9HC16 SKJL-16 9ZFL(M4 Allen)	BT30-SK16-90	4763768*	\$390.00
~0.25	0.028"-0.25"	2.36"	0.77"	15,000	0.0002"	SKL-6W SKJL-6	BT30-SK6-60	4783243	\$333.00
~0.25	0.028"-0.25"	2.36"	0.77"	30,000 G2.5	0.0002"	GH6 SKJL-6	BT30-SK6-60P	4749756	\$396.00
~0.25	0.028"-0.25"	3.54"	0.77"	15,000	0.0002"	SKL-6W SKJL-6	BT30-SK6-90	4785854	\$348.00
~0.25	0.028"-0.25"	3.54"	0.77"	30,000 G2.5	0.0002"	GH6 SKJL-6	BT30-SK6-90P	5767417	\$412.00
BT40									
~0.394	0.035"-0.394"	4.72"	1.08"	15,000	0.0002"	SKL-10 SKJL-10 9ZFL(M4 Allen)	BT40-SK10-120	5767483	\$397.00
~0.394	0.035"-0.394"	3.54"	1.08"	15,000	0.0002"	SKL-10 SKJL-10 9ZFL(M4 Allen)	BT40-SK10-90	4751681	\$379.00
~0.394	0.035"-0.394"	3.54"	1.08"	30,000 G2.5	0.0002"	GH10 SKJL-10	BT40-SK10-90P	4764552	\$435.00
~0.63	0.108"-0.63"	3.54"	1.58"	15,000	0.0002"	9HC16 SKJL-16 9ZFL(M4 Allen)	BT40-SK16-90	4681505	\$406.00
~1	0.188"-1"	4.72"	2.17"	15,000	0.0002"	9HC22 SKJL-25	BT40-SK25-120	5767490*	\$497.00
~0.25	0.028"-0.25"	4.72"	0.77"	15,000	0.0002"	SKL-6W SKJL-6	BT40-SK6-120	5767491	\$395.00
~0.25	0.028"-0.25"	5.91"	0.77"	10,000	0.0002"	SKL-6W SKJL-6	BT40-SK6-150	5767492	\$413.00
~0.25	0.028"-0.25"	5.91"	0.77"	30,000 G2.5	0.0002"	GH6 SKJL-6	BT40-SK6-150P	5767493	\$469.00
~0.25	0.028"-0.25"	3.54"	0.77"	15,000	0.0002"	SKL-6W SKJL-6	BT40-SK6-90	5767494	\$377.00
BT50									
~0.394	0.035"-0.394"	4.13"	1.08"	15,000	0.0002"	SKL-10 SKJL-10 9ZFL(M4 Allen)	BT50-SK10-105	5767549	\$517.00
CAT40									
~0.394	0.035"-0.394"	4.72"	1.08"	20,000 G2.5	0.0002"	SKL-10 SKJL-10 9ZFL(M4 Allen)	CAT40-SK10-120U-IDU	4763832	\$397.00
~0.394	0.035"-0.394"	4.72"	1.08"	30,000 G2.5	0.0002"	GH10 SKJL-10	CAT40-SK10-120UP-IDU	5475254	\$454.00
~0.394	0.035"-0.394"	5.91"	1.08"	20,000 G2.5	0.0002"	SKL-10 SKJL-10 9ZFL(M4 Allen)	CAT40-SK10-150U-IDU	4784397	\$431.00
~0.394	0.035"-0.394"	5.91"	1.08"	30,000 G2.5	0.0002"	GH10 SKJL-10	CAT40-SK10-150UP-IDU	5768161*	\$466.00
~0.394	0.035"-0.394"	7.09"	1.08"	20,000 G2.5	0.0002"	SKL-10 SKJL-10 9ZFL(M4 Allen)	CAT40-SK10-180U-IDU	4797445	\$425.00
~0.394	0.035"-0.394"	2.36"	1.08"	20,000 G2.5	0.0002"	SKL-10 SKJL-10 9ZFL(M4 Allen)	CAT40-SK10-60U-IDU	4787753	\$379.00
~0.394	0.035"-0.394"	3.54"	1.08"	20,000 G2.5	0.0002"	SKL-10 SKJL-10 9ZFL(M4 Allen)	CAT40-SK10-90U-IDU	4767091*	\$379.00
~0.394	0.035"-0.394"	3.54"	1.08"	30,000 G2.5	0.0002"	GH10 SKJL-10	CAT40-SK10-90UP-IDU	4761641*	\$435.00
~0.63	0.108"-0.63"	4.72"	1.58"	20,000 G2.5	0.0002"	9HC16 SKJL-16 9ZFL(M4 Allen)	CAT40-SK16-120U-IDU	4762539	\$457.00
~0.63	0.108"-0.63"	4.72"	1.58"	25,000 G2.5	0.0002"	GH16 SKJL-16	CAT40-SK16-120UP-IDU	5768170*	\$509.00
~0.63	0.108"-0.63"	5.91"	1.58"	20,000 G2.5	0.0002"	9HC16 SKJL-16 9ZFL(M4 Allen)	CAT40-SK16-150U-IDU	4768023*	\$476.00
~0.63	0.108"-0.63"	5.91"	1.58"	25,000 G2.5	0.0002"	GH16 SKJL-16	CAT40-SK16-150UP-IDU	5768171*	\$529.00
~0.63	0.108"-0.63"	2.36"	1.58"	20,000 G2.5	0.0002"	9HC16 SKJL-16 9ZFL(M4 Allen)	CAT40-SK16-60U-IDU	6613903*	\$406.00
~0.63	0.108"-0.63"	3.54"	1.58"	20,000 G2.5	0.0002	9HC16 SKJL-16 9ZFL(M4 Allen)	CAT40-SK16-90U-IDU	4758846*	\$406.00
~0.63	0.108"-0.63"	3.54"	1.58"	25,000 G2.5	0.0002"	GH16 SKJL-16	CAT40-SK16-90UP-IDU	4778816*	\$459.00
~0.787	0.138"-0.787"	4.72"	1.91"	20,000 G2.5	0.0002"	9HC22 SKJL-25	CAT40-SK20-120U-IDU	4815225*	\$468.00
~0.787	0.138"-0.787"	2.56"	1.91"	20,000 G2.5	0.0002"	9HC22 SKJL-25	CAT40-SK20-65U-IDU	4800698*	\$427.00
~0.787	0.138"-0.787"	3.54"	1.91"	20,000 G2.5	0.0002"	9HC22 SKJL-25	CAT40-SK20-90U-IDU	4804673*	\$442.00
~1	0.188"-1"	4.72"	2.17"	20,000 G2.5	0.0002"	9HC22 SKJL-25	CAT40-SK25-120U-IDU	4787817*	\$497.00
~1	0.188"-1"	3.54"	2.17"	20,000 G2.5	0.0002"	9HC22 SKJL-25	CAT40-SK25-90U-IDU	4829581*	\$462.00
~0.25	0.028"-0.25"	4.72"	0.77"	20,000 G2.5	0.0002"	SKL-6W SKJL-6	CAT40-SK6-120U-IDU	4768547*	\$395.00
~0.25	0.028"-0.25"	5.91"	0.77"	20,000 G2.5	0.0002"	SKL-6W SKJL-6	CAT40-SK6-150U-IDU	4767127	\$413.00
~0.25	0.028"-0.25"	5.91"	0.77"	30,000 G2.5	0.0002"	GH6 SKJL-6	CAT40-SK6-150UP-IDU	5768178	\$469.00
~0.25	0.028"-0.25"	3.54"	0.77"	20,000 G2.5	0.0002"	SKL-6W SKJL-6	CAT40-SK6-90U-IDU	4767088*	\$377.00

*Can also be used for thread milling.

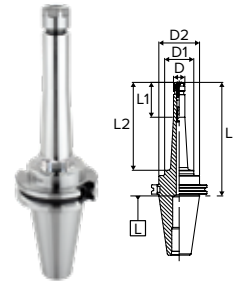


SK SLIM CHUCK HOLDERS

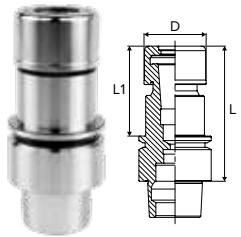
For Drilling, Milling, Reaming & Tapping

ID	COLLET RANGE	L	OD	MAX RPM	TIR	WRENCH REQUIRED	MFR #	A&M #	SALE PRICE
CAT50									
~0.394	0.035"-0.394"	4.13"	1.08"	20,000 G2.5	0.0002"	SKL-10 SKJL-10 9ZFL(M4 Allen)	CAT50-SK10-105U-IDU	4832915	\$517.00
~0.394	0.035"-0.394"	4.13"	1.08"	20,000 G2.5	0.0002"	GH10 SKJL-10	CAT50-SK10-105UP-IDU	5768282	\$569.00
~0.394	0.035"-0.394"	6.5"	1.08"	20,000 G2.5	0.0002"	SKL-10 SKJL-10 9ZFL(M4 Allen)	CAT50-SK10-165U-IDU	4766834	\$546.00
~0.63	0.108"-0.63"	4.13"	1.58"	20,000 G2.5	0.0002"	9HC16 SKJL-16 9ZFL(M4 Allen)	CAT50-SK16-105U-IDU	4744243	\$549.00
~0.63	0.108"-0.63"	6.5"	1.58"	20,000 G2.5	0.0002"	9HC16 SKJL-16 9ZFL(M4 Allen)	CAT50-SK16-165U-IDU	4779007	\$578.00
~1	0.188"-1"	4.13"	2.17"	15,000 G2.5	0.0002"	9HC22 SKJL-25	CAT50-SK25-105U-IDU	4767711*	\$559.00
HSK									
~0.394	0.035"-0.394"	2.36"	1.08"	50,000 G2.5	0.0002"	GH10 SKJL-10	HSK32E-SK10-60P	5768908	\$495.00
~0.394	0.035"-0.394"	4.72"	1.08"	30,000 G2.5	0.0002"	GH10 SKJL-10	HSK63A-SK10C-120P	5133801	\$519.00
~0.787	0.138"-0.787"	4.13"	1.91"	20,000	0.0002"	9HC22 SKJL-25	HSK63A-SK20-105	6324358*	\$479.00
NBT30									
~0.394	0.035"-0.394"	4.72"	1.08"	30,000 G2.5	0.0002"	GH10 SKJL-10	NBT30-SK10C-120P	5769557	\$512.00
~0.394	0.035"-0.394"	1.77"	1.08"	30,000 G2.5	0.0002"	GH10 SKJL-10	NBT30-SK10C-45P	5769558	\$434.00
~0.394	0.035"-0.394"	2.36"	1.08"	15,000	0.0002"	SKL-10 SKJL-10 9ZFL(M4 Allen)	NBT30-SK10C-60	4786025	\$370.00
~0.394	0.035"-0.394"	2.36"	1.08"	30,000 G2.5	0.0002"	GH10 SKJL-10	NBT30-SK10C-60P	5769559	\$434.00
~0.394	0.035"-0.394"	2.95"	1.08"	15,000	0.0002"	SKL-10 SKJL-10 9ZFL(M4 Allen)	NBT30-SK10C-75	5769560	\$364.00
~0.394	0.035"-0.394"	2.95"	1.08"	30,000 G2.5	0.0002"	GH10 SKJL-10	NBT30-SK10C-75P	5769561	\$442.00
~0.394	0.035"-0.394"	3.54"	1.08"	15,000	0.0002"	SKL-10 SKJL-10 9ZFL(M4 Allen)	NBT30-SK10C-90	4786026	\$384.00
~0.394	0.035"-0.394"	3.54"	1.08"	30,000 G2.5	0.0002"	GH10 SKJL-10	NBT30-SK10C-90P	5769562	\$448.00
~0.63	0.108"-0.63"	3.54"	1.58"	15,000	0.0002"	9HC16 SKJL-16 9ZFL(M4 Allen)	NBT30-SK16C-90	4787856*	\$424.00
~0.63	0.108"-0.63"	3.54"	1.58"	25K G2.5	0.0002"	GH16 SKJL-16	NBT30-SK16C-90P	5769570	\$481.00
~0.25	0.028"-0.25"	4.72"	0.77"	30,000 G2.5	0.0002"	GH6 SKJL-6	NBT30-SK6C-120P	5769573	\$473.00
~0.25	0.028"-0.25"	3.54"	0.77"	30,000 G2.5	0.0002"	GH6 SKJL-6	NBT30-SK6C-90P	5769575	\$447.00
NBT40									
~0.394	0.035"-0.394"	4.72"	1.08"	30,000 G2.5	0.0002"	GH10 SKJL-10	NBT40-SK10C-120P	5769603	\$488.00
~0.394	0.035"-0.394"	5.91"	1.08"	30,000 G2.5	0.0002"	GH10 SKJL-10	NBT40-SK10C-150P	5769604	\$519.00
~0.394	0.035"-0.394"	3.54"	1.08"	30,000 G2.5	0.0002"	GH10 SKJL-10	NBT40-SK10C-90P	5769609	\$470.00
~0.63	0.108"-0.63"	3.54"	1.58"	25,000 G2.5	0.0002"	GH16 SKJL-16	NBT40-SK16C-90P	5769618	\$495.00
~1	0.188"-1"	4.72"	2.17"	20,000 G2.5	0.0002"	GH25 SKJL-25	NBT40-SK25C-120P	5769619	\$585.00
~0.25	0.028"-0.25"	3.54"	0.77"	30,000 G2.5	0.0002"	GH6 SKJL-6	NBT40-SK6C-90P	5769627	\$468.00
NCAT40									
~0.394	0.035"-0.394"	4.72"	1.08"	20,000 G2.5	0.0002"	SKL-10 SKJL-10 9ZFL(M4 Allen)	NCAT40-SK10C-120U-IDU	4816340	\$432.00
~0.394	0.035"-0.394"	4.72"	1.08"	30,000 G2.5	0.0002"	GH10 SKJL-10	NCAT40-SK10C-120UP-IDU	4748581	\$488.00
~0.394	0.035"-0.394"	5.91"	1.08"	20,000 G2.5	0.0002"	SKL-10 SKJL-10 9ZFL(M4 Allen)	NCAT40-SK10C-150U-IDU	5769773	\$462.00
~0.394	0.035"-0.394"	3.54"	1.08"	20,000 G2.5	0.0002"	SKL-10 SKJL-10 9ZFL(M4 Allen)	NCAT40-SK10C-90U-IDU	5769777	\$414.00
~0.394	0.035"-0.394"	3.54"	1.08"	30,000 G2.5	0.0002"	GH10 SKJL-10	NCAT40-SK10C-90UP-IDU	5475265	\$470.00
~0.63	0.108"-0.63"	4.72"	1.58"	20,000 G2.5	0.0002"	9HC16 SKJL-16 9ZFL(M4 Allen)	NCAT40-SK16C-120U-IDU	4746516	\$491.00
~0.63	0.108"-0.63"	5.91"	1.58"	20,000 G2.5	0.0002"	9HC16 SKJL-16 9ZFL(M4 Allen)	NCAT40-SK16C-150U-IDU	5769786	\$529.00
~0.63	0.108"-0.63"	2.36"	1.58"	20,000 G2.5	0.0002"	9HC16 SKJL-16 9ZFL(M4 Allen)	NCAT40-SK16C-60U-IDU	4760620	\$442.00
~0.63	0.108"-0.63"	3.54"	1.58"	20,000 G2.5	0.0002"	9HC16 SKJL-16 9ZFL(M4 Allen)	NCAT40-SK16C-90U-IDU	4816339	\$442.00
~0.787	0.138"-0.787"	1.97"	1.91"	20,000 G2.5	0.0002"	9HC22 SKJL-25	NCAT40-SK20-50U-IDU	4765452*	\$461.00
~0.25	0.028"-0.25"	4.72"	0.77"	20,000 G2.5	0.0002"	SKL-6W SKJL-6	NCAT40-SK6C-120U-IDU	5769800	\$429.00
~0.25	0.028"-0.25"	4.72"	0.77"	30,000 G2.5	0.0002"	GH6 SKJL-6	NCAT40-SK6C-120UP-IDU	5769801	\$486.00
~0.25	0.028"-0.25"	5.91"	0.77"	20,000 G2.5	0.0002"	SKL-6W SKJL-6	NCAT40-SK6C-150U-IDU	5769802	\$501.00
~0.25	0.028"-0.25"	3.54"	0.77"	20,000 G2.5	0.0002"	SKL-6W SKJL-6	NCAT40-SK6C-90U-IDU	4946945	\$412.00
~0.25	0.028"-0.25"	3.54"	0.77"	30,000 G2.5	0.0002"	GH6 SKJL-6	NCAT40-SK6C-90UP-IDU	5769805	\$468.00
NCAT50									
~0.394	0.035"-0.394"	6.5"	1.08"	20,000 G2.5	0.0002"	SKL-10 SKJL-10 9ZFL(M4 Allen)	NCAT50-SK10C-165U-IDU	5769897	\$616.00
~0.394	0.035"-0.394"	7.68"	1.08"	20,000 G2.5	0.0002"	SKL-10 SKJL-10 9ZFL(M4 Allen)	NCAT50-SK10C-195U-IDU	5769899	\$691.00
~0.63	0.108"-0.63"	4.13"	1.58"	20,000 G2.5	0.0002"	9HC16 SKJL-16 9ZFL(M4 Allen)	NCAT50-SK16C-105U-IDU	5769901*	\$602.00

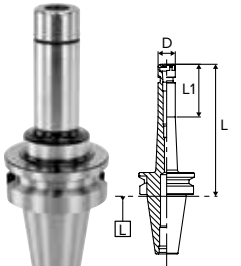
*Can also be used for thread milling.



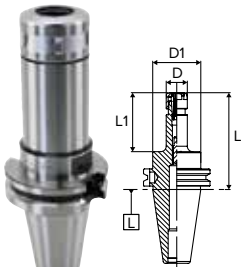
CAT50



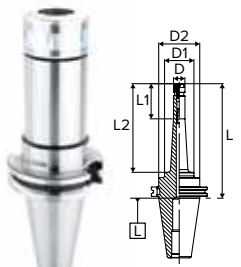
HSK



NBT40



NCAT40



NCAT50

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800.864.2660

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SK SLIM CHUCK COLLETS

For Drilling, Milling, Reaming & Tapping



SK10



SK10 5 PIECE SET



SK13

Achieve accuracy and precision for optimal machine tool performance due to a titanium nitride (TiN) bearing nut that improves rigidity, narrow body provides better clearance, and taper angle provides increased gripping power. SK collet chucks are ideal for all applications including milling, drilling, reaming, thread milling and tapping.

ID	COLLET RANGE	OD	MAX RPM	TIR	WRENCH REQUIRED	MFR #	A&M #	SALE PRICE
SK10								
1/4	0.25"	0.250"	15,000	0.0002"	SKL-10 GH10 SKJL-10	SK10-1/4AC	4746510	\$96.00
1/8	0.125"	0.125"	15,000	0.0002"	SKL-10 GH10 SKJL-10	SK10-1/8A	584958	\$67.00
1/8	0.125"	0.125"	15,000	0.0002"	SKL-10 GH10 SKJL-10	SK10-1/8AC	4763834	\$133.00
10	0.374"-0.394"	0.394 - 0.374"	15,000	0.0002"	SKL-10 GH10 SKJL-10	SK10-10	4681499	\$67.00
10	0.39"	0.394	15,000	0.0002"	SKL-10 GH10 SKJL-10	SK10-10AC	5477966	\$96.00
2	0.069"-0.079"	0.079 - 0.069"	15,000	0.0002"	SKL-10 GH10 SKJL-10	SK10-2	4733060*	\$81.00
2.25	0.079"-0.089"	0.089 - 0.079"	15,000	0.0002"	SKL-10 GH10 SKJL-10	SK10-2.25	4733064	\$81.00
2.5	0.089"-0.098"	0.098 - 0.089"	15,000	0.0002"	SKL-10 GH10 SKJL-10	SK10-2.5	4722805	\$81.00
2.75	0.098"-0.108"	0.108 - 0.098"	15,000	0.0002"	SKL-10 GH10 SKJL-10	SK10-2.75	4656205	\$81.00
3	0.108"-0.118"	0.118 - 0.108"	15,000	0.0002"	SKL-10 GH10 SKJL-10	SK10-3	4546824	\$67.00
3.5	0.118"-0.138"	0.138 - 0.118"	15,000	0.0002"	SKL-10 GH10 SKJL-10	SK10-3.5	4784398	\$67.00
3/16	0.188"	0.188"	15,000	0.0002"	SKL-10 GH10 SKJL-10	SK10-3/16A	465270*	\$67.00
3/16	0.188"	0.188"	15,000	0.0002"	SKL-10 GH10 SKJL-10	SK10-3/16AC	5770756	\$96.00
3/8	0.375"	0.375"	15,000	0.0002"	SKL-10 GH10 SKJL-10	SK10-3/8A	584961	\$67.00
3/8	0.375"	0.375"	15,000	0.0002"	SKL-10 GH10 SKJL-10	SK10-3/8AC	4746512*	\$96.00
3	0.118"	0.118"	15,000	0.0002"	SKL-10 GH10 SKJL-10	SK10-3A	5770757*	\$67.00
3	0.118"	0.118"	15,000	0.0002"	SKL-10 GH10 SKJL-10	SK10-3AC	5477964*	\$133.00
4	0.138"-0.157"	0.157 - 0.138"	15,000	0.0002"	SKL-10 GH10 SKJL-10	SK10-4	393181*	\$67.00
4.5	0.157"-0.177"	0.177 - 0.157"	15,000	0.0002"	SKL-10 GH10 SKJL-10	SK10-4.5	4733054*	\$67.00
4	0.157"	0.157"	15,000	0.0002"	SKL-10 GH10 SKJL-10	SK10-4A	6324665	\$64.00
4	0.157"	0.157"	15,000	0.0002"	SKL-10 GH10 SKJL-10	SK10-4AC	5477965	\$96.00
5	0.177"-0.197"	0.197 - 0.177"	15,000	0.0002"	SKL-10 GH10 SKJL-10	SK10-5	465271	\$67.00
5.5	0.197"-0.217"	0.217 - 0.197"	15,000	0.0002"	SKL-10 GH10 SKJL-10	SK10-5.5	4821274	\$67.00
5/16	0.312"	0.312"	15,000	0.0002"	SKL-10 GH10 SKJL-10	SK10-5/16A	584960	\$67.00
5	0.197"	0.197"	15,000	0.0002"	SKL-10 GH10 SKJL-10	SK10-5AC	5770758	\$96.00
6	0.217"-0.236"	0.236 - 0.217"	15,000	0.0002"	SKL-10 GH10 SKJL-10	SK10-6	587994	\$67.00
6.5	0.236"-0.256"	0.256 - 0.236"	15,000	0.0002"	SKL-10 GH10 SKJL-10	SK10-6.5	4751683	\$67.00
6	0.236"	0.236"	15,000	0.0002"	SKL-10 GH10 SKJL-10	SK10-6A	4829580	\$67.00
6	0.236"	0.236"	15,000	0.0002"	SKL-10 GH10 SKJL-10	SK10-6AC	4745692*	\$96.00
7	0.256"-0.276"	0.276 - 0.256"	15,000	0.0002"	SKL-10 GH10 SKJL-10	SK10-7	4590328	\$67.00
7.5	0.276"-0.295"	0.295 - 0.276"	15,000	0.0002"	SKL-10 GH10 SKJL-10	SK10-7.5	5770759	\$67.00
8	0.295"-0.315"	0.315 - 0.295"	15,000	0.0002"	SKL-10 GH10 SKJL-10	SK10-8	4591589	\$67.00
8.5	0.315"-0.335"	0.335 - 0.315"	15,000	0.0002"	SKL-10 GH10 SKJL-10	SK10-8.5	5475659	\$67.00
8	0.315"	0.315"	15,000	0.0002"	SKL-10 GH10 SKJL-10	SK10-8A	5770760	\$64.00
8	0.315"	0.315"	15,000	0.0002"	SKL-10 GH10 SKJL-10	SK10-8AC	4745691	\$96.00
9	0.335"-0.354"	0.354 - 0.335"	15,000	0.0002"	SKL-10 GH10 SKJL-10	SK10-9	5770761	\$67.00
9.5	0.354"-0.374"	0.374 - 0.354"	15,000	0.0002"	SKL-10 GH10 SKJL-10	SK10-9.5	4591237	\$67.00
SK10 5 PIECE SET								
1/8-3/8	1/8"-3/8"	1/8 - 3/8"	15,000	0.0002"	SKL-10 GH10 SKJL-10	SK10-SET-05-A	4767603*	\$335.00
SK10 19 PIECE SET								
1.75-10	0.069"-0.394"	1.75MM - 10MM	15,000	0.0002"	SKL-10 GH10 SKJL-10	SK10-SET-19-MM	4686836	\$1,329.00
SK13								
1/2	0.5"	0.500"	15,000	0.0002"	016-SPAN GH12 SKJL-16	SK13-1/2A	5770764	\$75.00
1/4	0.25"	0.250"	15,000	0.0002"	016-SPAN GH12 SKJL-16	SK13-1/4A	5770765	\$75.00
10	0.374"-0.394"	0.394 - 0.374"	15,000	0.0002"	016-SPAN GH12 SKJL-16	SK13-10	5770767	\$75.00
3/8	0.375"	0.375"	15,000	0.0002"	016-SPAN GH12 SKJL-16	SK13-3/8A	4819333	\$75.00
5	0.177"-0.197"	0.197 - 0.177"	15,000	0.0002"	016-SPAN GH12 SKJL-16	SK13-5	6324682	\$68.00
6	0.217"-0.236"	0.236 - 0.217"	15,000	0.0002"	016-SPAN GH12 SKJL-16	SK13-6	5770773	\$75.00
6.5	0.236"-0.256"	0.256 - 0.236"	15,000	0.0002"	016-SPAN GH12 SKJL-16	SK13-6.5	6324685	\$68.00

*Can also be used for thread milling.



SK SLIM CHUCK COLLETS

For Drilling, Milling, Reaming & Tapping

ID	COLLET RANGE	OD	MAX RPM	TIR	WRENCH REQUIRED	MFR #	A&M #	SALE PRICE
SK16								
1/2	0.5"	0.500"	15,000	0.0002"	9HC16 GH16 SKJL-16	SK16-1/2A	3906146	\$82.00
1/2	0.5"	0.500"	15,000	0.0002"	9HC16 GH16 SKJL-16	SK16-1/2AC	4746525	\$134.00
1/4	0.25"	0.250"	15,000	0.0002"	9HC16 GH16 SKJL-16	SK16-1/4A	4021586	\$82.00
1/8	0.125"	0.125"	15,000	0.0002"	9HC16 GH16 SKJL-16	SK16-1/8A	4545607	\$82.00
10	0.374"-0.394"	0.394 - 0.374"	15,000	0.0002"	9HC16 GH16 SKJL-16	SK16-10	4605520	\$82.00
10.5	0.394"-0.413"	0.413 - 0.394"	15,000	0.0002"	9HC16 GH16 SKJL-16	SK16-10.5	4746517	\$82.00
10	0.39"	0.394"	15,000	0.0002"	9HC16 GH16 SKJL-16	SK16-10AC	5770778	\$109.00
11	0.413"-0.433"	0.433 - 0.413"	15,000	0.0002"	9HC16 GH16 SKJL-16	SK16-11	4605247	\$82.00
11.5	0.433"-0.453"	0.453 - 0.433"	15,000	0.0002"	9HC16 GH16 SKJL-16	SK16-11.5	4669005	\$82.00
12	0.453"-0.472"	0.472 - 0.453"	15,000	0.0002"	9HC16 GH16 SKJL-16	SK16-12	4706644	\$82.00
12.5	0.472"-0.492"	0.492 - 0.472"	15,000	0.0002"	9HC16 GH16 SKJL-16	SK16-12.5	4746518*	\$82.00
12	0.472"	0.472"	15,000	0.0002"	9HC16 GH16 SKJL-16	SK16-12AC	5098883	\$109.00
13	0.492"-0.512"	0.512 - 0.492"	15,000	0.0002"	9HC16 GH16 SKJL-16	SK16-13	4669002	\$82.00
13.5	0.512"-0.531"	0.531 - 0.512"	15,000	0.0002"	9HC16 GH16 SKJL-16	SK16-13.5	4746519*	\$82.00
14	0.531"-0.551"	0.551 - 0.531"	15,000	0.0002"	9HC16 GH16 SKJL-16	SK16-14	4746520	\$82.00
14.5	0.551"-0.571"	0.571 - 0.551"	15,000	0.0002"	9HC16 GH16 SKJL-16	SK16-14.5	4669003*	\$82.00
14	0.551"	0.551"	15,000	0.0002"	9HC16 GH16 SKJL-16	SK16-14AC	5468918*	\$109.00
15	0.571"-0.591"	0.591 - 0.571"	15,000	0.0002"	9HC16 GH16 SKJL-16	SK16-15	4746521*	\$82.00
15.5	0.591"-0.61"	0.61 - 0.591"	15,000	0.0002"	9HC16 GH16 SKJL-16	SK16-15.5	4746522*	\$82.00
16	0.61"-0.63"	0.63 - 0.61"	15,000	0.0002"	9HC16 GH16 SKJL-16	SK16-16	4669004	\$82.00
16	0.63"	0.630"	15,000	0.0002"	9HC16 GH16 SKJL-16	SK16-16AC	5089569*	\$109.00
3	0.108"-0.118"	0.118 - 0.108"	15,000	0.0002"	9HC16 GH16 SKJL-16	SK16-3	4556243	\$82.00
3/16	0.188"	0.188"	15,000	0.0002"	9HC16 GH16 SKJL-16	SK16-3/16A	4544189	\$82.00
3/8	0.375"	0.375"	15,000	0.0002"	9HC16 GH16 SKJL-16	SK16-3/8A	4020906	\$82.00
3/8	0.375"	0.375"	15,000	0.0002"	9HC16 GH16 SKJL-16	SK16-3/8AC	5770782	\$180.00
4	0.138"-0.157"	0.157 - 0.138"	15,000	0.0002"	9HC16 GH16 SKJL-16	SK16-4	4808538	\$82.00
4.5	0.157"-0.177"	0.177 - 0.157"	15,000	0.0002"	9HC16 GH16 SKJL-16	SK16-4.5	5770783	\$82.00
5	0.177"-0.197"	0.197 - 0.177"	15,000	0.0002"	9HC16 GH16 SKJL-16	SK16-5	4591590	\$82.00
5/16	0.312"	0.312"	15,000	0.0002"	9HC16 GH16 SKJL-16	SK16-5/16A	4544190	\$82.00
5/8	0.625"	0.625"	15,000	0.0002"	9HC16 GH16 SKJL-16	SK16-5/8A	465274	\$82.00
5/8	0.625"	0.625"	15,000	0.0002"	9HC16 GH16 SKJL-16	SK16-5/8AC	4746528*	\$134.00
6	0.217"-0.236"	0.236 - 0.217"	15,000	0.0002"	9HC16 GH16 SKJL-16	SK16-6	4556245	\$82.00
6.5	0.236"-0.256"	0.256 - 0.236"	15,000	0.0002"	9HC16 GH16 SKJL-16	SK16-6.5	4764607	\$82.00
6	0.236"	0.236"	15,000	0.0002"	9HC16 GH16 SKJL-16	SK16-6AC	5770786	\$180.00
7	0.256"-0.276"	0.276 - 0.256"	15,000	0.0002"	9HC16 GH16 SKJL-16	SK16-7	4764608	\$82.00
7.5	0.276"-0.295"	0.295 - 0.276"	15,000	0.0002"	9HC16 GH16 SKJL-16	SK16-7.5	4965662	\$82.00
7/16	0.438"	0.438"	15,000	0.0002"	9HC16 GH16 SKJL-16	SK16-7/16A	4545608	\$82.00
7	0.276"	0.276"	15,000	0.0002"	9HC16 GH16 SKJL-16	SK16-7AC	5836658	\$232.00
8	0.295"-0.315"	0.315 - 0.295"	15,000	0.0002"	9HC16 GH16 SKJL-16	SK16-8	4591592	\$82.00
8.5	0.315"-0.335"	0.335 - 0.315"	15,000	0.0002"	9HC16 GH16 SKJL-16	SK16-8.5	4769597	\$82.00
8	0.315"	0.315"	15,000	0.0002"	9HC16 GH16 SKJL-16	SK16-8A	5770787	\$82.00
8	0.315"	0.315"	15,000	0.0002"	9HC16 GH16 SKJL-16	SK16-8AC	5098926	\$180.00
9	0.335"-0.354"	0.354 - 0.335"	15,000	0.0002"	9HC16 GH16 SKJL-16	SK16-9	5770788	\$82.00
9.5	0.354"-0.374"	0.374 - 0.354"	15,000	0.0002"	9HC16 GH16 SKJL-16	SK16-9.5	5770789	\$82.00
9/16	0.563"	0.563"	15,000	0.0002"	9HC16 GH16 SKJL-16	SK16-9/16A	4545609*	\$82.00
SK16 9 PIECE SET								
1/8-5/8	1/8"-5/8"	1/8 - 5/8"	15,000	0.0002"	9HC16 GH16 SKJL-16	SK16-SET-09-A	4766600	\$738.00
SK16 27 PIECE SET								
2.5-16	0.098"-0.63"	0.098-0.630"	15,000	0.0002"	9HC16 GH16 SKJL-16	SK16-SET-27-MM	4784399*	\$2,214.00

*Can also be used for thread milling.



SK16



SK16 9 PIECE SET

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SK SLIM CHUCK COLLETS

For Drilling, Milling, Reaming & Tapping



SK20



SK25



SK6

Achieve accuracy and precision for optimal machine tool performance due to a titanium nitride (TiN) bearing nut that improves rigidity, narrow body provides better clearance, and taper angle provides increased gripping power. SK collet chucks are ideal for all applications including milling, drilling, reaming, thread milling and tapping.

ID	COLLET RANGE	OD	MAX RPM	TIR	WRENCH REQUIRED	MFR #	A&M #	SALE PRICE
SK20								
1/2	0.5"	0.500"	15,000	0.0002	9HC22 GH20 SKJL-25	SK20-1/2A	4748698	\$88.00
1/4	0.25"	0.250"	15,000	0.0002	9HC22 GH20 SKJL-25	SK20-1/4A	4811467	\$88.00
1/8	0.125"	0.125"	15,000	0.0002	9HC22 GH20 SKJL-25	SK20-1/8A	4815227	\$88.00
20	0.768"-0.787"	0.787 - 0.768"	15,000	0.0002	9HC22 GH20 SKJL-25	SK20-20	5770797	\$88.00
20	0.787"	0.787"	15,000	0.0002	9HC22 GH20 SKJL-25	SK20-20AC	5629170	\$161.00
3/4	0.75"	0.750"	15,000	0.0002	9HC22 GH20 SKJL-25	SK20-3/4A	4808651	\$88.00
3/8	0.375"	0.375"	15,000	0.0002	9HC22 GH20 SKJL-25	SK20-3/8A	4794354	\$88.00
5/16	0.312"	0.312"	15,000	0.0002	9HC22 GH20 SKJL-25	SK20-5/16A	5770800	\$88.00
5/8	0.625"	0.625"	15,000	0.0002	9HC22 GH20 SKJL-25	SK20-5/8A	4801847	\$88.00
SK25								
1/2	0.5"	0.500"	15,000	0.0002	9HC22 GH25 SKJL-25	SK25-1/2A	4697821	\$100.00
17	0.65"-0.669"	0.669 - 0.65"	15,000	0.0002	9HC22 GH25 SKJL-25	SK25-17	5770812	\$100.00
18	0.689"-0.709"	0.709 - 0.689"	15,000	0.0002	9HC22 GH25 SKJL-25	SK25-18	5770814	\$100.00
19	0.728"-0.748"	0.748 - 0.728"	15,000	0.0002	9HC22 GH25 SKJL-25	SK25-19	5770816	\$100.00
19.5	0.748"-0.768"	0.768 - 0.748"	15,000	0.0002	9HC22 GH25 SKJL-25	SK25-19.5	4764613	\$100.00
20	0.768"-0.787"	0.787 - 0.768"	15,000	0.0002	9HC22 GH25 SKJL-25	SK25-20	5770817	\$100.00
22.5	0.866"-0.886"	0.886 - 0.866"	15,000	0.0002	9HC22 GH25 SKJL-25	SK25-22.5	5770822	\$100.00
23	0.886"-0.906"	0.906 - 0.886"	15,000	0.0002	9HC22 GH25 SKJL-25	SK25-23	5770823	\$100.00
24	0.925"-0.945"	0.945 - 0.925"	15,000	0.0002	9HC22 GH25 SKJL-25	SK25-24	5770824	\$100.00
25	0.965"-0.984"	0.984 - 0.965"	15,000	0.0002	9HC22 GH25 SKJL-25	SK25-25	4764615	\$100.00
25.4	0.984"-1"	1 - 0.984"	15,000	0.0002	9HC22 GH25 SKJL-25	SK25-25.4	4684219	\$100.00
1	1"	1"	15,000	0.0002	9HC22 GH25 SKJL-25	SK25-25.4AC	4829582	\$187.00
3/4	0.75"	0.750"	15,000	0.0002	9HC22 GH25 SKJL-25	SK25-3/4A	4684218	\$100.00
3/4	0.75"	0.750"	15,000	0.0002	9HC22 GH25 SKJL-25	SK25-3/4AC	5089568	\$187.00
5/8	0.625"	0.625"	15,000	0.0002	9HC22 GH25 SKJL-25	SK25-5/8A	4681508	\$100.00
SK6								
0.8	0.028"-0.031"	0.031 - 0.028"	15,000	0.0002	SKL-6W GH6 SKJL-6	SK6-0.8	4783240	\$122.00
1	0.035"-0.039"	0.039 - 0.035"	15,000	0.0002	SKL-6W GH6 SKJL-6	SK6-1	4723076	\$88.00
1.25	0.045"-0.049"	0.049 - 0.045"	15,000	0.0002	SKL-6W GH6 SKJL-6	SK6-1.25	4723077	\$88.00
1.5	0.051"-0.059"	0.059 - 0.051"	15,000	0.0002	SKL-6W GH6 SKJL-6	SK6-1.5	4723078	\$83.00
1.75	0.061"-0.069"	0.069 - 0.061"	15,000	0.0002	SKL-6W GH6 SKJL-6	SK6-1.75	4723080	\$83.00
1/4	0.25"	0.250"	15,000	0.0002	SKL-6W GH6 SKJL-6	SK6-1/4A	5608251	\$65.00
1/8	0.125"	0.125"	15,000	0.0002	SKL-6W GH6 SKJL-6	SK6-1/8A	4555103	\$65.00
1/8	0.125"	0.125"	15,000	0.0002	SKL-6W GH6 SKJL-6	SK6-1/8AC	5770831	\$129.00
2	0.071"-0.079"	0.079 - 0.071"	15,000	0.0002	SKL-6W GH6 SKJL-6	SK6-2	4723081	\$83.00
2.25	0.081"-0.089"	0.089 - 0.081"	15,000	0.0002	SKL-6W GH6 SKJL-6	SK6-2.25	4722811	\$83.00
2.5	0.091"-0.098"	0.098 - 0.091"	15,000	0.0002	SKL-6W GH6 SKJL-6	SK6-2.5	4604747	\$83.00
2.75	0.1"-0.108"	0.108 - 0.1"	15,000	0.0002	SKL-6W GH6 SKJL-6	SK6-2.75	4723082	\$83.00
3	0.110"-0.118"	0.118 - 0.110"	15,000	0.0002	SKL-6W GH6 SKJL-6	SK6-3	4546057	\$65.00
3.5	0.118"-0.138"	0.138 - 0.118"	15,000	0.0002	SKL-6W GH6 SKJL-6	SK6-3.5	465266	\$65.00
3/16	0.188"	0.188"	15,000	0.0002	SKL-6W GH6 SKJL-6	SK6-3/16A	4591239	\$65.00
4	0.138"-0.157"	0.157 - 0.138"	15,000	0.0002	SKL-6W GH6 SKJL-6	SK6-4	464917	\$65.00
4.5	0.157"-0.177"	0.177 - 0.157"	15,000	0.0002	SKL-6W GH6 SKJL-6	SK6-4.5	4016812	\$65.00
4	0.157"	0.157"	15,000	0.0002	SKL-6W GH6 SKJL-6	SK6-4AC	5770834	\$93.00
5	0.177"-0.197"	0.197 - 0.177"	15,000	0.0002	SKL-6W GH6 SKJL-6	SK6-5	465268	\$65.00
5.5	0.197"-0.217"	0.217 - 0.197"	15,000	0.0002	SKL-6W GH6 SKJL-6	SK6-5.5	5770835	\$65.00
6	0.217"-0.236"	0.236 - 0.217"	15,000	0.0002	SKL-6W GH6 SKJL-6	SK6-6	588468	\$65.00
6	0.236"	0.236"	15,000	0.0002	SKL-6W GH6 SKJL-6	SK6-6A	5770836	\$64.00
6	0.236"	0.236"	15,000	0.0002	SKL-6W GH6 SKJL-6	SK6-6AC	5770837	\$93.00

*Can also be used for thread milling.



COOLANT-THRU DISKS

For SK Collet Chucks • For Drilling, Milling, Reaming & Tapping



SK10 COOLANT CAP



SK13/SK16 COOLANT CAP



SK6 COOLANT CAP

DESCRIPTION	ID	COLLET RANGE	OD	MAX RPM	TIR	WRENCH REQUIRED	MFR #	A&M #	SALE PRICE
SK10 Coolant Cap With 1/4" Jet Slots	1/4	0.25"	.125"	15,000	0.0002"	SKJL-10	SKJ10-1/4	4695697*	\$32.00
SK13/SK16 Coolant Cap With 1/2" Jet Slots	1/2	0.5"	0.5"	15,000	0.0002"	SKJL-16	SKJ16-1/2	4748590*	\$35.00
SK6 Coolant Cap 6mm	6	0.236"	0.236"	15,000	0.0002"	SKJL-6	SKJ6-6C	5770895	\$40.00

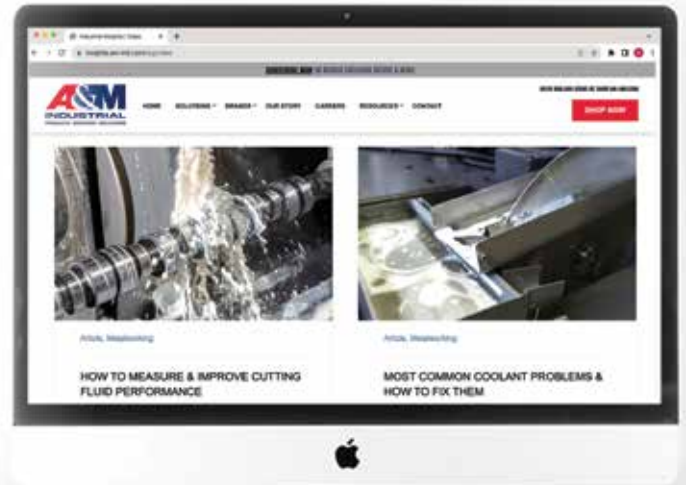
*Can also be used for thread milling.

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DOVETAIL FIXTURES

RAPTOR IS SIMPLE.

Simply load your workpiece onto the fixture and hand-tighten the spring-loaded clamp. Unloading is just as easy.

**1 - SIMPLE DOVETAIL**

A simple workpiece prep creates a dovetail that locks into the Raptor spring-loaded clamp.

**2 - SPRING-LOADED CLAMP**

The Raptor spring-loaded clamp strongly holds the part and makes releasing easy.

**3 - HAND TIGHTENED**

Use a T-wrench to hand-tighten the clamp and you're done. It's quick, simple and strong.

**4 - STRONG BY DESIGN**

Solid, super-strong stainless-steel or lightweight aluminum ensures that Raptor will hold up to repeated use.

**5 - FITS ANY MACHINE**

Raptor offers adapters, risers and specific fixture designs to fit any machine. "Yes, even that one."

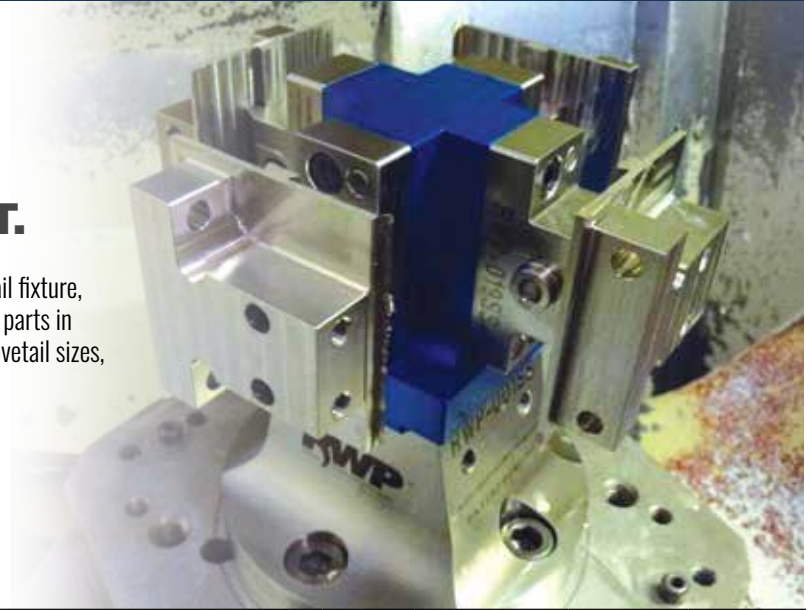
♦ Metric Options Available.

DESCRIPTION	7075 ALUMINUM FIXTURE				17-4 STAINLESS FIXTURE			
	WEIGHT	MFR #	A&M #	SALE PRICE	WEIGHT	MFR #	A&M #	SALE PRICE
0.75" DOVETAIL FIXTURE								
Workpiece size min: 2.00" L x 1.75" W x 0.50" H Workpiece size max: 5.75" cube (18 lb. max) Dovetail width: 0.75" Dovetail height: 0.125" Fixture diameter: 4.97" Fixture height: 3.0" Bolt circle diameter: 3.80" (Raptor interface) This part is a direct mount to a Matsuura MAM72-35V English Table/Pallet configuration. If you have the Metric Version, please order #RWP-002-METRIC (aluminum) or #RWP-002SS-METRIC (stainless)								
	4 lbs.	RWP-002	6636896	\$998.70	9 lbs.	RWP-002SS	6636897	\$1,849.60
1.5" DOVETAIL FIXTURE								
Workpiece size min: 2.35" L x 2.35" W x 0.50" H Workpiece size max: 6.75" cube (30 lb. max) Dovetail width: 1.5" Dovetail height: 0.125" Fixture diameter: 4.97" Fixture height: 3.0" Bolt circle diameter: 3.80" (Raptor interface) This part is a direct mount to a Matsuura MAM72-35V English Table/Pallet configuration. If you have the Metric Version, please order #RWP-001SS-METRIC (aluminum) or #RWP-001SS-METRIC (stainless)								
	4 lbs.	RWP-001	6636894	\$998.70	9 lbs.	RWP-001SS	6636895	\$1,832.30
2.25" DOVETAIL FIXTURE								
Workpiece size min: 5.9" L x 3.96" W x 0.50" H Workpiece size max: 8.0" L x 10.0" W x 10.0" H (80 lb. max) Dovetail width: 2.25" Dovetail height: 0.1875" Fixture dimensions: 5.950" L x 3.957" W x 2.500" H Bolt circle diameter: 3.80" (Raptor interface) This part is a direct mount to a Matsuura MAM72-35V English Table								
	10 lbs.	RWP-006	6636900	\$1,399.00	21 lbs.	RWP-006SS	6636901	\$2,895.00

RAPTOR MULTI-FIXTURES
WORKHOLDING PRODUCTS

QUICK AND EASY CHANGE OUT.

Raptor multi-fixtures provide a foundation to attach more than one Raptor dovetail fixture, which allows machinists to manufacture longer part runs or program for multiple parts in one setup. Providing a method to hold parts at different angles and in different dovetail sizes, multi-fixtures reduce changeover time and allow for increased productivity.



DESCRIPTION	WEIGHT	MFR #	A&M #	SALE PRICE
0.75" DOVETAIL 60° MULTI-FIXTURE WITH RAPTOR INTERFACE MOUNTING				
Workpiece size min: 1.30" L x 1.30" W x 0.50" H Workpiece size max: 3.0" cube (3 lb. max @ each fixture) Fixture swing diameter: 7.135" (without workpieces) Fixture height: 3.327" (without workpieces) Fixture body diameter: 4.970" Bolt circle diameter: 3.800" (Raptor interface) Boss: 1.250" dia. x 0.25" boss Includes: (4) RWP-003 dovetail fixtures. Designed specifically for five-axis machining applications. Mounts to: Raptor risers with Raptor interface mounting.				
	6 lbs.	RWP-003-4X	6636899	\$3,750.70
0.375" DOVETAIL 45° MULTI-FIXTURE WITH A 1.50" DOVETAIL BOTTOM				
Workpiece size min: 1.25" L x 0.750" W x 0.50" H Workpiece size max: 2.50" cube (2 lb. max @ each fixture) Fixture swing diameter: 5.431" (without workpieces) Fixture height: 2.692" (without workpieces) Includes: (4) RWP-019SS dovetail fixtures. Mounts to the following 1.50" dovetail fixtures: RWP-001, RWP-001SS, RWP-013, RWP-013SS, RWP-026 & RWP-027				
	5 lbs.	RWP-019-4X45T	6636911	\$3,225.40
0.375" DOVETAIL 90° MULTI-FIXTURE WITH A 1.50" DOVETAIL BOTTOM				
Workpiece size min: 1.25" L x 0.750" W x 0.50" H Workpiece size max: 2.50" cube (2 lb. max @ each fixture) Fixture swing diameter: 4.554" (without workpieces) Fixture height: 3.126" (without workpieces) Includes: (4) RWP-019SS dovetail fixtures. Mounts to the following 1.50" dovetail fixtures: RWP-001, RWP-001SS, RWP-013, RWP-013SS, RWP-026 & RWP-027				
	6 lbs.	RWP-019-4X90T	6636912	\$2,999.70
0.375" DOVETAIL 90° MULTI-FIXTURE WITH A 1.50" DOVETAIL BOTTOM				
Workpiece size min: 2.50" L x 0.75" W x 0.50" H Workpiece size max: 4.00" L x 2.50" W x 2.50" H (7 lb. max @ each fixture) Fixture swing diameter: 4.554" (without workpieces) Fixture height: 4.375" (without workpieces) Includes: (4) RWP-042SS dovetail fixtures. Mounts to the following 1.50" dovetail fixtures: RWP-001, RWP-001SS, RWP-013, RWP-013SS, RWP-026 & RWP-027				
	6 lbs.	RWP-042-4X90T	6636930	\$4,502.70

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RAPTOR ADAPTERS WORKHOLDING PRODUCTS

Adapters are designed to accept multiple dovetail fixtures, allowing for many easy machining options when tooling up your CNC.

DESCRIPTION	WEIGHT	MFR #	A&M #	SALE PRICE
RWP-202 ADAPTER Adapter material: Aircraft grade aluminum Adapter height: 2.00" Adapter diameter: 8.20" Bolt circle diameter: 6.50" for (6) 1/2" SHCS Boss/hole: 2.000" dia. x 0.375" boss Mounts: All fixtures with a Raptor interface. Enables compatible fixtures to be mounted on the Haas TR-210, HRT210 & HRC210.	9 lbs.	RWP-202	6636951	\$750.00
RWP-203 ADAPTER Adapter material: Aircraft grade aluminum Adapter height: 1.50" Adapter diameter: 6.30" Slotted bolt circle diameters: 5.400" to 5.512" for (6) 3/8-16" SHCS Boss/hole: 1.500" dia. x 0.313" boss Includes: (6) 3/8-16 x 1.00" long SHCS, (6) 41406T TE-CO t-nuts Mounts: All fixtures with a Raptor interface. Enables compatible fixtures to be mounted on the Haas TR-160, TR160-2, TR200Y, TRT-160, HRT160 & HRC160.	5 lbs.	RWP-203	6636952	\$732.70
RWP-208 SMALL EMERGENCY ADAPTER Adapter material: Aircraft grade aluminum Adapter height: 1.50" Adapter diameter: 7.95" Boss/hole: 1.00" dia. x 0.30" receiving hole Available plugs: RWP-810 (1.25" dia.), RWP-811 (30mm dia.) & RWP-PLUG-208 (2.50" machinable dia.) Includes: Raptor interface mounting on top. Mounts: All fixtures with a Raptor interface. Enables compatible fixtures to be mounted on the pallet of your machine by simply adding the mounting holes.	9 lbs.	RWP-208	6636953	\$405.20
RWP-209 LARGE EMERGENCY ADAPTER Adapter height: 1.500" Adapter diameter: 9.055" Boss/hole: 1.00" dia. x 0.30" receiving hole Available plugs: RWP-810 (1.25" dia.), RWP-811 (30mm dia.) & RWP-PLUG-208 (2.50" machinable dia.) Includes: Raptor interface mounting on top. Mounts: All fixtures with a Raptor interface. Enables compatible fixtures to be mounted on the pallet of your machine by simply adding the mounting holes.	9 lbs.	RWP-209	6636954	\$600.00
RWP-222 SMALL UNIVERSAL ADAPTER Adapter material: Aircraft grade aluminum Adapter height: 2.00" Adapter diameter: 9.875" Bolt circle diameter: 5.50" to 8.50" for M10 or 3/8" SHCS Boss/hole: 1.00" dia. x 0.30" receiving hole Available plugs: RWP-810 (1.25" dia.), RWP-811 (30mm dia.) & RWP-PLUG-208 (2.50" machinable dia.) Mounts: All fixtures with a Raptor interface. Mounts directly to your machine table/pallet using slotted counterbores. The Raptor RWP-PLUG-208 (machinable 2.5" dia. plug) is available for locating this adapter to your machine table and is sold separately.	15 lbs.	RWP-222	6636958	\$900.00
RWP-223 LARGE UNIVERSAL ADAPTER Adapter material: Aircraft grade aluminum Adapter height: 2.00" Adapter diameter: 11.95" Bolt circle diameter: 6.00" to 10.00" for M12 or 1/2" SHCS Boss/hole: 1.00" dia. x 0.30" receiving hole Available plugs: RWP-810 (1.25" dia.), RWP-811 (30mm dia.) & RWP-PLUG-208 (2.50" machinable dia.) Mounts: All fixtures with a Raptor interface. Mounts directly to your machine table/pallet using slotted counterbores. The Raptor RWP-PLUG-208 (machinable 2.5" dia. plug) is available for locating this adapter to your machine table and is sold separately.	22 lbs.	RWP-223	6636960	\$1,275.60

RAPTOR[®] PLUGS

DESCRIPTION	6061 ALUMINUM MACHINABLE PLUG				17-4 STAINLESS STEEL MACHINABLE PLUG			
	WEIGHT	MFR #	A&M #	SALE PRICE	WEIGHT	MFR #	A&M #	SALE PRICE
BLANK 2.50" DIAMETER PLUG								
This blank 2.50" diameter allows customer to modify to fit a specific application. The slip fit 1.00" diameter fits in the bottom of fixtures/ risers that have a 1.00" diameter receiving hole.								
	1 lb.	RWP-PLUG-208	6637011	\$41.00	1 lb.	RWP-PLUG-208SS	6637012	\$75.68

RAPTOR[®] RISERS

Risers are designed to accept multiple dovetail fixtures, allowing for many easy machining options when tooling up your CNC.

DESCRIPTION	WEIGHT	MFR #	A&M #	SALE PRICE
RWP-262 MEDIUM UNIVERSAL RISER				
Riser material: Aircraft grade aluminum Riser height: 3.50" Riser diameter: 8.98" Bolt circle diameter: 6.00" to 7.03" slotted counterbores for M12 or 1/2" SHCS Boss/hole: 1.00" dia. x 0.30" receiving hole Available plugs: RWP-810 (1.250" dia.), RWP-811 (30mm dia.) & RWP-PLUG-208 (2.50" machinable dia.) Mounts: All fixtures with a Raptor interface Enables compatible fixtures to be mounted on the pallet of the following machines: Mori Seiki NMV5000, DMU50 / 50eco, NMV3000 metric / english & multiple other machines.				
	14 lbs.	RWP-262	6636974	\$1,299.00
RWP-224 RISER				
Riser material: Aircraft grade aluminum Riser height: 6.00" Riser diameter: 11.95" Bolt circle diameter: 10.15" for M12 or 1/2" SHCS Boss/hole: 1.00" dia. x 0.30" receiving hole Available plugs: RWP-810 (1.25" dia.), RWP-811 (30mm dia.) & RWP-PLUG-208 (2.50" machinable dia.) Mounts: All fixtures with a Raptor interface Can be used in a modular configuration when used with the universal adapter part number RWP-223.				
	44 lbs.	RWP-224	6636962	\$4,068.20
RWP-234 RISER				
Riser material: Aircraft grade aluminum Riser height: 4.5" Riser diameter: 11.40" Bolt circle diameter: 9.92" for M12 or 1/2" SHCS Boss/hole: 1.97" (50mm) dia. x 0.75" receiving hole Mounts: All fixtures with a Raptor interface Enables compatible fixtures to be mounted on the following: Haas UMC-750M/UMC-750SS or Matsuura MX-520 300mm.				
	31 lbs.	RWP-234	6636963	\$2,821.70
RWP-237 MULTI-FIXTURE NEST RISER (45° FACES)				
Riser material: Aircraft grade aluminum Riser height: 6.55" Riser diameter: 14.75" Bolt circle diameter: 13.20" for M12 or 1/2" SHCS Boss/hole: 1.97" dia. x 0.75" receiving hole Mounts: All fixtures with a Raptor interface Designed to fit the following machines: Haas UMC-750/UMC-750SS or Matsuura MX-520 500mm.				
	70 lbs.	RWP-209	6636954	\$600.00
RWP-272 MULTI-FIXTURE NEST RISER (30° FACES)				
Riser material: Aircraft grade aluminum Riser height: 4.50" Riser diameter: 15.75" Bolt circle diameter: 12.665" and 9.921" for M12 or 1/2" SHCS Mounts: All fixtures with a Raptor interface Designed to fit machines with the following spacings: 100mm, 80mm & 63mm				
	65 lbs.	RWP-272	6636975	\$5,044.60

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TRIM® MICROSOL® 692XT

Semi-Synthetic • Premium • High-Lubricity • Low-Foam Microemulsion



- Improved lubricity for longer tool life.
- Dramatically extends life without the need for tank-side biocides or fungicides.
- Halogen free.
- Low foaming for todays demanding high-pressure, high-volume applications.
- Excellent alternative to chlorinated soluble oils on high-silica aluminum alloys.
- Provides superior corrosion inhibition on all ferrous and nonferrous metals.
- Keeps machines very clean while leaving a soft fluid film for ease of cleaning and reduced maintenance.
- Requires no special disposal or recycling techniques.

DESCRIPTION	MFR #	A&M #	SALE PRICE
5 GALLON PAIL	MS692XT-5G	4825793	\$252.45
54 GALLON DRUM	MS692XT-54G	4816294	\$2,101.69
270 GALLON TOTE	MS692XT-270G	5468488	PLEASE CALL



TRIM® MICROSOL® 585XT

Semi-Synthetic • Extended-Life • Non-Chlorinated



- Dramatically extends life without the need for tank-side biocides or fungicides.
- Low foaming for todays demanding high-pressure, high-volume applications.
- Compatible with a very wide range of material including cast iron, steels, copper, titanium, and aluminum alloys, and many plastics and composites.
- Optimized combination of cooling & lubricity for titanium machining applications.
- Provides superior corrosion inhibition on cast iron and eliminates "hot chip" and clinkering problems.
- Excellent alternative to chlorinated soluble oils on high-silica aluminum alloys.
- Contains no nitrites, triazines, phenols, and chlorinated or sulfurized EP additives.
- Provides superior corrosion inhibition on all ferrous and nonferrous metals.
- Keeps machines very clean while leaving a soft fluid film for ease of cleaning and reduced maintenance.
- Uses standard metalworking recycling and disposal techniques.

DESCRIPTION	MFR #	A&M #	SALE PRICE
5 GALLON PAIL	MS585XT-5G	4585794	\$228.90
54 GALLON DRUM	MS585XT-54G	4585865	\$1,882.98
270 GALLON TOTE	MS585XT-270G	4631355	PLEASE CALL



TRIM® E715

Soluble Oil • Multi-Metal Machining Emulsion



- Very stable formula provides long operational life with consistent performance.
- Extremely hard water tolerant.
- Non-chlorinated and non-sulfurized extreme pressure (EP) additives control built-up edge (BUE).
- Extremely fine soluble oil emulsion reduces carry-off for low total operating cost.
- Fast wetting to get the fluid to the point of cut and fully coat the work piece and chips for superior corrosion prevention.
- Suitable for machining aluminum alloys, steel alloys, nickel alloys, cast iron, and yellow metals.
- Easily recycled or disposed of without special handling or equipment.
- Will run effectively for long periods without the need for costly additives.

DESCRIPTION	MFR #	A&M #	SALE PRICE
5 GALLON PAIL	E715-5G	6205344	\$224.48
54 GALLON DRUM	E715-54G	6205345	\$2,100.97
270 GALLON TOTE	E715-270G	6205346	PLEASE CALL



TRIM® C270CG High-Performance Synthetic

- Provides excellent corrosion inhibition on all common ferrous alloys.
- Does a great job in form grinding, drilling, tapping, and reaming operations without chlorine or sulfur-based EP additives.
- Extremely low carry-off for very low total operation costs.
- Very low foam and mist.
- Keeps your machines clean while leaving a soft, fluid film that protects the bare metal parts. This residual film is easily resoluble in coolant working solution to facilitate easy machine cleaning and minimize the buildup of sticky residues that can hold machine-destroying chips.
- Exceptional sump life and very good tramp oil rejection.
- A very low initial odor which usually disappears after one to two days.

DESCRIPTION	MFR #	A&M #	SALE PRICE
5 GALLON PAIL	C270CG-5G	4669160	\$213.20
54 GALLON DRUM	C270CG-54G	4757334	\$1,737.18
270 GALLON TOTE	C270CG-270G	6205322	PLEASE CALL



5 GALLON

54 GALLON



MASTER STAGES™ WHAMEX™ Machine Tool Sump & System Cleaner

- A very specialized formula that draws many years of hands-on experience in machine clean outs.
- Quickly breaks down and lifts off insoluble scum deposits hidden in lines and difficult to reach areas — getting rid of these residues is one of the best ways to extend coolant life in your system.
- Very hard water tolerant allowing it to be effective in raw water or used coolant.
- Environmental approvals are simplified because Whamex contains no nitrites, phosphates, barium, phenols, or butyl cellulose; this formula has very low V.O.C. content and no SARA 313 reportable ingredients.
- When used as directed below, this product is compatible with TRIM brand semi-synthetic and soluble oil coolants, as well as most competitive coolants. Will remove heavy soils from machines without affecting paints, coatings, seals, hoses, or skirting, and it won't leave a slippery residue.
- Short-term corrosion inhibitors prevent flash rusting of machine surfaces and ways.

DESCRIPTION	MFR #	A&M #	SALE PRICE
5 GALLON PAIL	WHAMEX-5G	4571352	\$222.91
54 GALLON DRUM	WHAMEX-54G	4592649	\$1,827.36
270 GALLON TOTE	WHAMEX-270G	6205645	PLEASE CALL



5 GALLON

54 GALLON



MASTER STAGES™ CLEAN F2™ Non-Butyl Floor & Multi-Purpose Cleaner

- With a mild pH and low conductivity, CLEAN F2 will not cause splitting of TRIM coolants.
- Formulated without silicates, CLEAN F2 is compatible with ultra-filtration systems and bioremediation.
- CLEAN F2 has been proven non-irritating to skin at 20% concentration.
- Excellent choice for use in spray bottles up to 20%.
- Operators like CLEAN F2's mild, pleasant citrus scent.
- Environmental approvals are simplified because CLEAN F2 contains no nitrites, barium, phenols, or butyl cellulose; and has very low V.O.C. content and no SARA 313 reportable ingredients.
- Effective mop bucket cleaner or for use in floor scrubber machines.
- Will remove heavy soils from floors without lifting off floor paints, coatings, or leaving a slippery residue; suitable for concrete, painted, tile, or linoleum floors.

DESCRIPTION	MFR #	A&M #	SALE PRICE
5 GALLON PAIL	CLEANF2-5G	4606586	\$90.94
54 GALLON DRUM	CLEANF2-54G	4592374	\$601.57
270 GALLON TOTE	CLEANF2-270G	6205603	PLEASE CALL



5 GALLON

54 GALLON

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855.207.0400





TAPMATIC® #1 GOLD CUTTING FLUID

Great For All Metals, Including Aluminum



- Does not contain water, solvents, or inactive fillers.
- Reduces cutting torque and improves cutting efficiency.
- Does not contain chlorinated solvents or chlorinated paraffins.
- Requires less product usage than traditional cutting fluids.
- Increases tool life and improves surface finish.
- For all metals including aluminum.
- Excellent for tapping applications.

DESCRIPTION	MFR #	A&M #	SALE PRICE
11 OZ. AEROSOL	40312	25280	\$18.47
16 OZ. SQUEEZE BOTTLE	40320	25745	\$16.30
1 GALLON	40330	26332	\$94.13
5 GALLON PAIL	40340	26927†	\$379.65

†Non-stock item.



EDGE LUBE CUTTING FLUID

High-Efficiency Lubricant That Extends Grinding Wheel, Saw Blade & Belt Life



- Low toxic, biodegradable, low odor.
- Extends grinding wheel life.
- Does not contain any hazardous chemicals.
- Eliminates heat build-up and belt loading.
- Excellent for belt, wheel or disc grinding, and sawing applications.
- Biodegradable, solid, white, waxy bar.
- Recognized by the USDA BioPreferred™ program.
- Water rinsable.
- Safe on all metals.

DESCRIPTION	MFR #	A&M #	SALE PRICE
13 OZ. TUBE	43200	4645879	\$24.24



TAPMATIC® DUAL ACTION PLUS #2 CUTTING FLUID

A Metal-Cutting Fluid Safe For Tapping, Drilling, Reaming, Threading, Or Finishing On Aluminum



- Provides superior extreme pressure lubricity in machining aluminum and its alloys.
- Improves surface finish and extends tool life.
- Reduces friction and eliminates chip welding.
- No chlorinated solvents.



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DESCRIPTION	MFR #	A&M #	SALE PRICE
16 OZ. AEROSOL	40220	20248	\$15.48
1 GALLON	40320	20837	\$133.02



ALL-METAL CUTTING FLUID



MFR #01G-NRT

- Greatly extends tool life.
- Super-fine machined finish in operation after operation.
- Anti-mist protection for a healthier work environment.
- No special labeling or reporting.
- Excels in tough materials.
- Contains no 1, 1, 1 - trichloroethane or other ozone-depleting chemicals.

DESCRIPTION	MFR #	A&M #	SALE PRICE
4 OZ BOTTLE	04Z-NRT	6410263	\$3.63
16 OZ BOTTLE	PNT-NRT	421078	\$11.58
1 GALLON BOTTLE	01G-NRT	6410265	\$65.25



A-9 ALUMINUM CUTTING FLUID



- Eases all operations on aluminum: milling, broaching, drilling, threading, tapping, reaming, sawing, etc.
- Contains anti-mist component for a healthier work environment.
- Contains a scientific blend of chemicals that attach to aluminum surfaces, forming an extreme-pressure boundary lubricant between tool and work surface.

DESCRIPTION	MFR #	A&M #	SALE PRICE
4 OZ BOTTLE	04Z-A9	6410271	\$3.63
16 OZ BOTTLE	PNT-A9	4609695	\$11.58
1 GALLON BOTTLE	01G-A9	6410273	\$65.25



OPTION 1® BIODEGRADABLE METAL-CUTTING FLUID

- Leaves no oily residue.
- Water-based.
- Contains no 1, 1, 1 - trichloroethane or other ozone-depleting chemicals.
- Cleans up with clean dry cloth or water.
- Great for use in computer clean rooms, hospitals, or when a weld operation follows machine operations.



DESCRIPTION	MFR #	A&M #	SALE PRICE
4 OZ BOTTLE	04Z-OP	6410276	\$3.63
16 OZ BOTTLE	PNT-OP	6410277	\$11.58
1 GALLON BOTTLE	01G-OP	4570854	\$65.25



REL SAW BAND-SAW COOLANT CONCENTRATE

- Improves blade life and reduces machine wear.
- Stable over a wide variety of water conditions.
- Promotes cleaner-running machines compared to soluble oils.
- Long emulsion life.
- Contains rust and corrosion inhibitors.
- Fortified with boundary lubricants.



DESCRIPTION	MFR #	A&M #	SALE PRICE
1 GALLON	01G-RS	6410290	\$39.00



TUBETASTIC!™ TUBE OIL SKIMMER

The Abanaki TubeTastic!™ oil skimmer can be used on machining centers with little or no access to the coolant sump from above. This unit can skim oil from chip conveyors or even totally enclosed machining centers. The TubeTastic!™ can be easily mounted on the side of virtually any machining center coolant sump. By use of an existing opening or by making a small access cutout, the collector tube runs through the surface of the coolant and collects the unwanted oils. The oil then flows out the discharge tube into any waste oil container for easy disposal.

DESCRIPTION	MFR #	A&M #	SALE PRICE
8" TUBE SKIMMER	STUBE1-08	6426073†	\$415.00
10" TUBE SKIMMER	STUBE1-10	6426074†	\$415.00
12" TUBE SKIMMER	STUBE1-12	6426075	\$415.00
18" TUBE SKIMMER	STUBE1-18	6426076	\$415.00
24" TUBE SKIMMER	STUBE1-24	6426077†	\$415.00
30" TUBE SKIMMER	STUBE1-30	6426078†	\$415.00

†Non-stock item.



TCO-14 DARK & TCO-16 LIGHT THREAD-CUTTING OILS

- Ready to cut clean, smooth threads on all pipe materials.
- Extreme-pressure, anti-weld additive.
- Excellent protection of tools and machined parts against corrosion.
- Contains anti-mist component for a healthier work environment.
- Dark (TCO-14) and Light (TCO-16) are operationally interchangeable.



MFR #01G-TCO14



MFR #01G-TCO16

DESCRIPTION	MFR #	A&M #	SALE PRICE
TCO-14 DARK			
1 GALLON BOTTLE	01G-TCO14	6410280	\$27.50
5 GALLON PAIL	05G-TCO14	6410281	\$123.00
TCO-16 LIGHT			
1 GALLON BOTTLE	01G-TCO16	6410283	\$27.50
5 GALLON PAIL	05G-TCO16	6410284	\$123.00



STICK-KUT LUBRICATING STICK WAX

- Safe and effective lubricant for grinding wheels, sanding belts, and saw blades.
- Eliminates heat build-up and belt loading.
- Extends wheel life.
- Provides smooth, cool cutting.
- Reduces loading, stops binding, and prevents burring.



DESCRIPTION	MFR #	A&M #	SALE PRICE
15 OZ STICK WAX	15-SK	6410270	\$13.58



- Works in machining center sumps with little or no overhead space.
- 110v continuous duty fan cooled motor.
- Capacity: 1.5 gallons/hour
- Standard tube lengths of 8", 12", 18", 24" and 30" available.

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800.771.1233

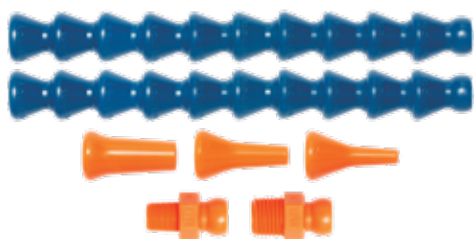
PA Regional Office
Stroudsburg, PA
855.207.0400





1/4" HOSE ASSEMBLY KIT

Contains All Of The Parts Required To Make A Basic 1/4" Hose



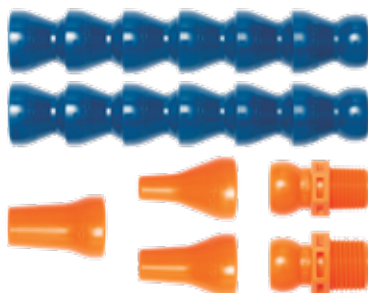
- Compatible will all 1/4" system parts.
- Threads directly into a 1/8" or 1/4" pipe thread supply.
- Can be extended using additional segments.
- Can accept Male, Female or Inline valves for video control.
- Can be modified with Y' Elbows and Nozzles to change shape ad flow pattern.

INCLUDES	MFR #	A&M #	SALE PRICE
(1) 1/8" NPT, (1) 1/4" NPT, (2) 1/4" W x 5-1/2" L Hose Segments, (1) each: 1/16", 1/8", 1/4" Diameter Round Nozzles	40413	5261383	\$9.85



1/2" HOSE ASSEMBLY KIT

Contains All Of The Parts Required To Make A Basic 1/2" Hose



- Compatible will all 1/2" system parts.
- Threads directly into a 3/8" or 1/2" pipe thread supply.
- Can be extended using additional 1/2" segments.
- Can accept Male, Female or Inline valves for video control.
- Can be modified with Y's, Elbows and Nozzles to change shape and flow pattern.

INCLUDES	MFR #	A&M #	SALE PRICE
(1) 3/8" NPT, (1) 1/2" NPT, (2) 1/2" W x 5-1/2" L Hose Segments, (1) each: 1/4", 3/8", 1/2" Diameter Round Nozzles	50813	277753	\$11.09



3/4" HOSE ASSEMBLY KIT

Contains All Of The Parts Required To Make A Basic 3/4" Hose



- Compatible will all 3/4" system parts.
- Threads directly into a 3/4" pipe thread supply.
- Can be extended using additional 3/4" segments.
- Can accept Male, Female or Inline valves for video control.
- Can be modified with Y's, Elbows and Nozzles to change shape and flow pattern.

INCLUDES	MFR #	A&M #	SALE PRICE
(1) 3/4" NPT, (2) 3/4" W x 5-1/2" L Hose Segments, (1) each: 5/8", 3/4" Diameter Round Nozzles	60513	5261517	\$13.74



HOSES



MFR #41401



MFR #51801



MFR #61501



MFR #49420



MFR #59859



MFR #49419



MFR #49421

SIZE	INCLUDES	MFR #	A&M #	SALE PRICE
1/4"	(2) 5-3/4" Long Hose Segments	41401	4604776	\$7.42
1/4"	(55) 1/4" Hose Segments	49420	5261422	\$163.06
1/4"	(1) 5' Coil	49419	4713429	\$34.93
1/4"	(1) 50' Coil	49421	5261423	\$326.11
1/2"	(2) 5-1/2" Long Hose Segments	51801	63151	\$8.35
1/2"	(1) 5' Coil	59859	4947420	\$45.91
3/4"	(2) 5-3/4" Long Hose Segments	61501	6068299	\$10.40

• Color: blue



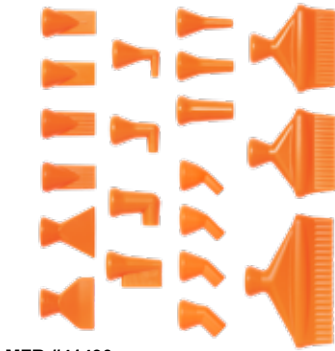
NPT CONNECTORS

SIZE	INCLUDES	MFR #	A&M #	SALE PRICE
1/8"	(4) NPT Connectors	41405	162078	\$4.88
1/4"	(4) NPT Connectors	41406	621665	\$4.88
3/8"	(4) NPT Connectors	51804	4590021	\$5.58
1/2"	(4) NPT Connectors	51805	639442	\$5.58

• Color: orange



NOZZLES



MFR #41490
NOZZLE-RAMA 20 PIECE KIT



ROUND NOZZLE



FLARE NOZZLE



90° NOZZLE



SWIVEL NOZZLE

• Color: orange

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CUSTOMIZING YOUR
COOLANT DELIVERY WITH



SIZE	DESCRIPTION	INCLUDES	MFR #	A&M #	SALE PRICE
1/4"	Nozzle-Rama 20 Piece Kit	All 90° Nozzles for the 1/4" system (41402, 41403, 41404, 41407, 41460, 41461, 41462, 41463, 41470, 41471, 41472, 41473, 41481, 41482, 41483, 41484, 41485, 41486, 41488 & 41489)	41490	4812585	\$31.30
1/16"	Round Nozzle	(4) Round Nozzles	41402	4694613	\$4.88
1/8"	Round Nozzle	(4) Round Nozzles	41403	4694614	\$4.88
1/4"	Round Nozzle	(4) Round Nozzles	41404	4590387	\$4.88
1/4"	1/4" Round Nozzle For 1/2"	(4) Round Nozzles	51806	4590022	\$5.58
3/8"	Round Nozzle	(4) Round Nozzles	51802	5261456	\$5.58
3/8"	Round Nozzle	(4) Round Nozzles	51803	639441	\$5.58
1"	Flare Nozzle	(2) Flare Nozzles	41407	41427	\$7.42
1-1/4"	Flare Nozzle	(2) Flare Nozzles	51807	409705	\$8.35
2-1/2"	Flare Nozzle	(2) Flare Nozzles	51809	5261462	\$9.61
1/8"	90° Nozzle	(4) 90° Nozzles	41471	2437090	\$6.84
1/4"	90° Nozzle	(4) 90° Nozzles	41472	445124	\$6.84
1/4"	Swivel Nozzle 60 (0.060" Hole Diameter)	(2) Swivel Nozzles	41482	5261416	\$10.97



QUICK-SET SHIELD KITS

Positions Easily For Optimal Viewing In Any Application

DESCRIPTION	INCLUDES	MFR #	A&M #	SALE PRICE
7-1/2" x 10" Kit	(1) 7-1/2" x 10" Shield, (1) 4" Adjustable 3/4" Arm, (1) Magnetic Base & (1) Fitting For Fixed Mounting	60526	5261519	\$38.57
8-1/2" x 12" Kit	(1) 8-1/2" x 12" Shield, (1) 4" Adjustable 3/4" Arm, (1) Magnetic Base & (1) Fitting For Fixed Mounting	60527	166109	\$41.32
8-1/2" x 12" Replacement Shield	(1) 8-1/2" x 12" Replacement Shield Only	60530	5261523	\$15.11



MFR #60526



MFR #60527



MFR #60530

Headquarters & NJ Sales Office
Rahway, NJ
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Northern NJ Regional Office
Fair Lawn, NJ
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Middletown, CT
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VALVES & ACCESSORIES



MALE NPT VALVE



IN-LINE VALVE



Y FITTING



DOUBLE SOCKET



ELBOW



1/2" TO 1/4" REDUCER



HOSE ASSEMBLY PLIERS

SIZE	DESCRIPTION	INCLUDES	COLOR	MFR #	A&M #	SALE PRICE
VALVES						
1/4"	Male NPT Valve	Two Male NPT Valves	Blue/Orange	21192	294152	\$12.35
1/4"	Male NPT Valve	Ten Male NPT Valves	Blue/Orange	29452	5261370	\$55.13
1/4"	In-Line Valve	Two In-Line Valves	Blue/Orange	21194	391111	\$12.35
1/4"	In-Line Valve	Ten In-Line Valves	Blue/Orange	29454	45426	\$55.13
1/2"	Male NPT Valve	Two Male NPT Valves	Blue/Orange	32092	4827554	\$15.11
1/2"	In-Line Valve	Two In-Line Valves	Blue/Orange	32094	5261376	\$15.11
ACCESSORIES						
1/4"	Y	(2) Y's	Orange	41408	4590388	\$7.42
1/2"	Y	(2) Y's	Orange	51808	4584172	\$8.35
1/4"	Double Socket	(4) Double Sockets	Orange	41409	621666	\$5.45
1/4"	Elbow	(2) Elbows	Orange	41415	41907	\$6.84
1/4"	Elbow	(20) Elbows	Orange	49435	5261434	\$53.25
1/2"	Elbow	(2) Elbows	Orange	51824	5261467	\$7.78
1/2"	1/2" to 1/4" Reducer	(2) Reducers	Yellow	51821	5261464	\$6.15
1/4"	Hose Assembly Pliers	(1) 1/4" Plier	Blue	78001	795881	\$13.74
1/2"	Hose Assembly Pliers	(1) 1/2" Plier	Blue	78002	639508	\$13.74
1/4" & 1/2"	Hose Assembly Pliers	(1) 1/4" and one 1/2" Plier	Blue	78003	72875	\$24.76
3/4"	Hose Assembly Pliers	(1) 3/4" Plier	Blue	78004	5261561*	\$17.51

*3/4" Assembly pliers will not assemble the 3/4" Y fitting. The 3/4" fixed mount or the 3/4" valves.



INSPECTION MIRROR KIT

Positions Easily For Optimal Viewing In Any Application



- The arm length can be easily adjusted by adding or removing hose (#51801).
- For a permanent installation the included magnetic base can be replaced with a fixed mount (#51895).
- The arm can be lengthened using Loc-Line 1/2" system hose (#51801, #59860, #59859, or #59861).
- Two mirrors can be attached using a Loc-Line 1/2" system "Y" (#51808).
- Use of Loc-Line Pliers are recommend for easy adding or removing parts from the 1/2" Loc-Line arm (#51808).

INCLUDES	MFR #	A&M #	SALE PRICE
(1) 2.125" x 3.5" Mirror, (1) Mirror Mount Nozzle, (1) Mirror Link, (1) 1/2" x 11" Hose, (1) 1/2" Magnetic Base	50501	6497133	\$46.68

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