

LAMARCHE
LMMI
MACHINERY INC.

MORE THAN JUST

MACHINE TOOLS!

Tooling / Accessories

Stock Reference Guide

Toll Free 1-866-437-7315

Fax (780) 437-7328

**8821-60 ave
Edmonton, AB
T6E 6L9**

EMAIL :

sales@newusedmachines.com

www.newusedmachines.com



Filtermist has been established as a World leader in the manufacture of oil mist collectors for forty years.

Filtermist supplies oil mist collectors to many of the World's largest industrial and manufacturing organizations. Filtermist Xcel oil mist filters are also fitted as original equipment by many of the best known machine tool manufacturers

CALL LMI TODAY FOR MORE
INFORMATION, PRICE AND DELIVERY
INCLUDING INSTALLATION OPTIONS.

FiltermistXcel2 is the most advanced and effective systems available for removing oil mist from the work shop environment and returning it to the machine tool for re-use.

Extremely quiet operation, highly advanced filtration performance and energy efficient motors ensure lower operating costs and the best possible work environment.

FiltermistXcel2 provides the complete solution to meeting occupational health and safety requirements.



FILTERMIST XCEL
OIL MIST FILTER



FILTERMIST
INTERNATIONAL LIMITED
A TRULY GLOBAL ADVANTAGE

FiltermistXcel2 has seven different models to meet your machine sizes.

All models can be installed vertically or horizontally, machine or floor mounted.

Models are available in 230/460/3//60 or 575/3/6





Hitachi Tool Engineering

As the sole manufacturer among the Hitachi Group of companies,

Hitachi Tool Engineering is the leader and enjoys the top market share for Milling tools in Japan.

A producer of high-performance cutting tools, **Hitachi Tool Engineering** utilizes the latest in coating technology with advanced engineering, defining solutions for difficult applications:



Cutter Bodies

Hitachi Tool Indexable Inserts

Indexable Cutting Tools for maximum metal removal rates and high feed cutting

Hitachi Tool's indexable milling tools are designed for maximum removal rates and high-feed cutting. Hitachi Tool's innovations in substrates, cutting geometries and coatings will help you to expanding the limits of your machines. A variety of face mill and shank style indexable tools are available in sizes ranging from 3/8" to 10" in diameter. Several insert coatings are offered, making these tools ideal for a wide range of materials including mild steels, cast iron, alloy steels and pre-hardened steels up to 55HRC.

IASF: New Generation Face Mills dramatically reduce roughing time

- Size Range: 2.5" - 12.0"
- Face Mill style only



Four corner inserts

IASRF: Radius Mill with highly-efficient four-corner inserts

- Size Range: 1.25" - 4.0"
- Face Mill and Shank styles available



Four corner inserts

IASRT: New Generation Face Mills dramatically reduce roughing time

- Size Range: 1.0" - 4.0"
- Face Mill style only



Three corner inserts



IASR Multi: Innovative Indexable Multi-Flute Mills for high-efficiency machining

- Size Range: 0.625" - 2.5"
- Face Mill and Shank styles available



Two corner inserts

IASR: Special Radius Cutting Edge for highest-efficiency milling

- Size Range: 0.75" - 4.0"
- Face Mill and Shank styles available



Two corner inserts

IASM: Small diameter, ultra high-efficiency Indexable End Mills

- Size Range: 0.375" - 0.750"
- Shank style only



Two corner inserts

IAR: Ideal for three-dimensional rough milling and direct milling

- Size Range: 1.0" - 6.0"
- Face Mill and Shank styles available



Round inserts

IAHU: Advanced design End Mills and Face Mills radically reduce cutting force

- Size Range: 0.75" - 3.0"
- Face Mill and Shank styles available



Two corner inserts





A COST EFFECTIVE SOLUTION FOR YOUR THREADING NEEDS!

FULL PROFILE CARBIDE UN THREADING INSERTS

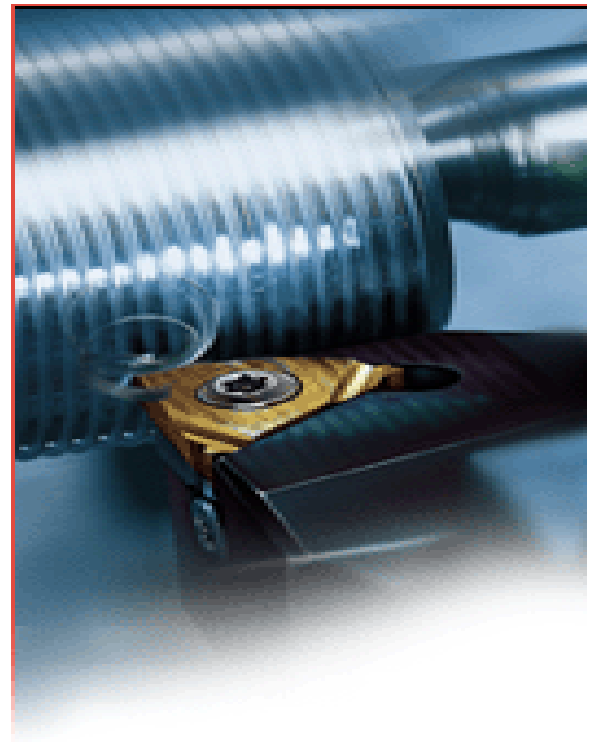
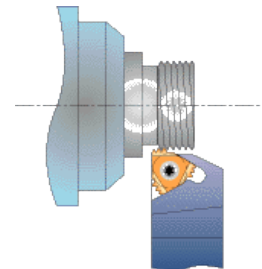
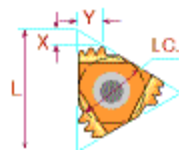
Size MM (inch)	Pitch TPI	External ARM Grade	External LEM Grade	Internal ARM Grade	Internal LEM Grade
11 (1/4)	44	400-075	400-076	400-195	400-196
11 (1/4)	40	400-078	400-079	400-198	400-199
11 (1/4)	36	400-081	400-082	400-201	400-202
11 (1/4)	32	400-084	400-085	400-204	400-205
11 (1/4)	28	400-087	400-088	400-207	400-208
11 (1/4)	27	400-090	400-091	400-210	400-211
11 (1/4)	24	400-093	400-094	400-213	400-214
11 (1/4)	20	400-096	400-097	400-216	400-217
11 (1/4)	18	400-099	400-100	400-219	400-220
11 (1/4)	16	400-102	400-103	400-222	400-223
11 (1/4)	14	400-105	400-106	400-225	400-226
16 (3/8)	72	400-108	400-109	400-228	400-229
16 (3/8)	64	400-111	400-112	400-231	400-232
16 (3/8)	56	400-114	400-115	400-234	400-235
16 (3/8)	48	400-117	400-118	400-237	400-238
16 (3/8)	44	400-120	400-121	400-240	400-241
16 (3/8)	40	400-123	400-124	400-243	400-244
16 (3/8)	36	400-126	400-127	400-246	400-247
16 (3/8)	32	400-129	400-130	400-249	400-250
16 (3/8)	28	400-132	400-133	400-252	400-253
16 (3/8)	27	400-135	400-136	400-255	400-256
16 (3/8)	24	400-138	400-139	400-258	400-259
16 (3/8)	20	400-141	400-142	400-261	400-262
16 (3/8)	18	400-144	400-145	400-264	400-265
16 (3/8)	16	400-147	400-148	400-267	400-268
16 (3/8)	14	400-150	400-151	400-270	400-271
16 (3/8)	13	400-153	400-154	400-273	400-274
16 (3/8)	12	400-156	400-157	400-276	400-277
16 (3/8)	11.5	400-159	400-160	400-279	400-280
16 (3/8)	11	400-162	400-163	400-282	400-283
16 (3/8)	10	400-165	400-166	400-285	400-286
16 (3/8)	9	400-168	400-169	400-288	400-289
16 (3/8)	8	400-171	400-172	400-291	400-292
22 (1/2)	7	400-174	400-175	400-294	400-295
22 (1/2)	6	400-177	400-178	400-297	400-298
22 (1/2)	5	400-180	400-181	400-300	400-301

TYPE C (chip breaker)

Carbide Grades:

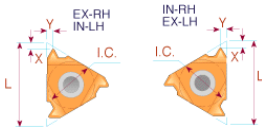
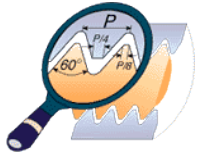
LEM- TiN coated micrograin for low HRc materials, cast irons and aluminum.
Recommended for manual or low speed CNC cutting conditions.

ARM-TiAlN coated sub-micrograin for high alloy materials, stainless steel, 4130, 4140, 4340, 8620
Recommended for high cutting speeds on CNC machines.



A COST EFFECTIVE SOLUTION FOR YOUR THREADING NEEDS!

FULL PROFILE CARBIDE ISO METRIC THREADING INSERTS



Size MM (inch)	Pitch mm	External ARM Grade	External LEM Grade	Internal ARM Grade	Internal LEM Grade
16 (3/8)	0.35	400-303	400-304	400-357	400-358
16 (3/8)	0.4	400-306	400-307	400-360	400-361
16 (3/8)	0.45	400-309	400-310	400-363	400-364
16 (3/8)	0.5	400-312	400-313	400-366	400-367
16 (3/8)	0.6	400-315	400-316	400-369	400-370
16 (3/8)	0.75	400-318	400-319	400-372	400-373
16 (3/8)	0.8	400-321	400-322	400-375	400-376
16 (3/8)	1.0	400-324	400-325	400-378	400-379
16 (3/8)	1.25	400-327	400-328	400-381	400-382
16 (3/8)	1.5	400-330	400-331	400-384	400-385
16 (3/8)	1.75	400-333	400-334	400-387	400-388
16 (3/8)	2.0	400-336	400-337	400-390	400-391
16 (3/8)	2.5	400-339	400-340	400-393	400-394
16 (3/8)	3.0	400-342	400-343	400-396	400-397
22 (1/2)	3.5	400-345	400-346	400-399	400-400
22 (1/2)	4.0	400-348	400-349	400-402	400-403
22 (1/2)	4.5	400-351	400-352	400-405	400-406
22 (1/2)	5.0	400-354	400-355	400-408	400-409

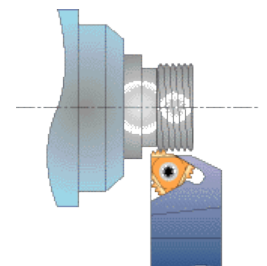
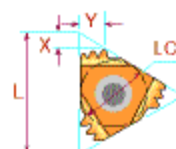


TYPE C (chip breaker)

Size MM (inch)	Pitch mm	External ARM Grade	Internal ARM Grade
16 (3/8)	0.8	400-531	-
16 (3/8)	1.0	400-532	400-533
16 (3/8)	1.25	400-534	400-535
16 (3/8)	1.5	400-536	400-537
16 (3/8)	1.75	400-538	400-539
16 (3/8)	2.0	400-540	400-541
16 (3/8)	2.5	400-542	400-543
16 (3/8)	3.0	400-544	400-545

MULTITOOTH

Size MM (inch)	Pitch mm	# Teeth	External ARM Grade	Internal ARM Grade
16 (3/8)	1.0	3	400-546	400-547
16 (3/8)	1.5	2	400-548	400-549
22 (1/2)	1.5	3	400-550	400-551
22 (1/2)	2.0	2	400-552	400-553
22 (1/2)	2.0	3	400-554	400-555
27 (5/8)	3.0	2	400-556	400-557



A COST EFFECTIVE SOLUTION FOR YOUR THREADING NEEDS!

FULL PROFILE CARBIDE ACME THREADING INSERTS



Size MM (inch)	Pitch TPI	External ARM Grade	External LEM Grade	Internal ARM Grade	Internal LEM Grade
16 (3/8)	16	400-441	400-442	400-462	400-463
16 (3/8)	14	400-444	400-445	400-465	400-466
16 (3/8)	12	400-447	400-448	400-468	400-469
16 (3/8)	10	400-450	400-451	400-471	400-472
16 (3/8)	8	400-453	400-454	400-474	400-475
22 (1/2)	6	400-456	400-457	400-477	400-478
22 (1/2)	5	400-459	400-460	400-480	400-481

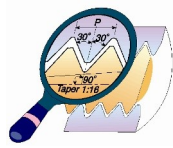
FULL PROFILE CARBIDE STUB ACME THREADING INSERTS



Size MM (inch)	Pitch TPI	External ARM Grade	External LEM Grade	Internal ARM Grade	Internal LEM Grade
16 (3/8)	16	400-483	400-485	-	-
16 (3/8)	14	400-489	400-490	400-509	400-510
16 (3/8)	12	400-492	400-493	400-512	400-513
16 (3/8)	10	400-495	400-496	400-515	400-516
16 (3/8)	8	400-498	400-499	400-518	400-519
16 (3/8)	6	400-501	400-502	400-521	400-522
22 (1/2)	5	400-504	400-505	400-524	440-525

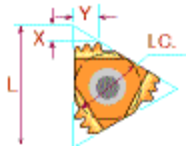


FULL PROFILE CARBIDE API ROUND THREADING INSERTS

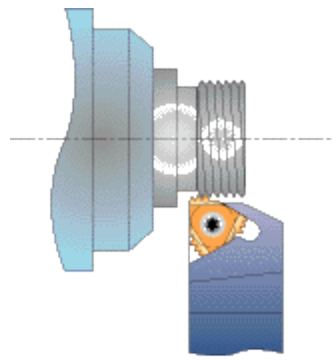


Size MM (inch)	Pitch TPI	External ARM Grade	Internal ARM Grade
16 (3/8)	8	400-528	400-527
16 (3/8)	10	400-530	400-529

MULTITOOTH



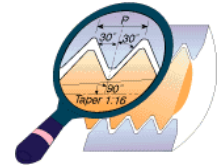
Size MM (inch)	Pitch TPI	# Teeth	External ARM Grade	Internal ARM Grade
22 (1/2)	10	2	400-606	400-607
27 (5/8)	10	3	400-608	400-609
27 (5/8)	8	2	400-610	400-611



A COST EFFECTIVE SOLUTION FOR YOUR THREADING NEEDS!

FULL PROFILE CARBIDE NPT PIPE THREADING INSERTS

Size MM (inch)	Pitch TPI	External ARM Grade	External LEM Grade	Internal ARM Grade	Internal LEM Grade
16 (3/8)	27	400-411	400-412	400-426	400-427
16 (3/8)	18	400-414	400-415	400-429	400-430
16 (3/8)	14	400-417	400-418	400-432	400-433
16 (3/8)	11.5	400-420	400-421	400-435	400-436
16 (3/8)	8	400-423	400-424	400-438	400-439

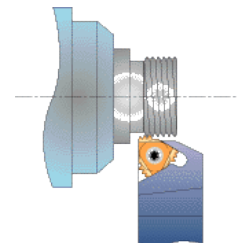
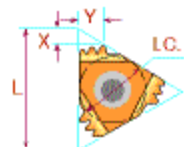
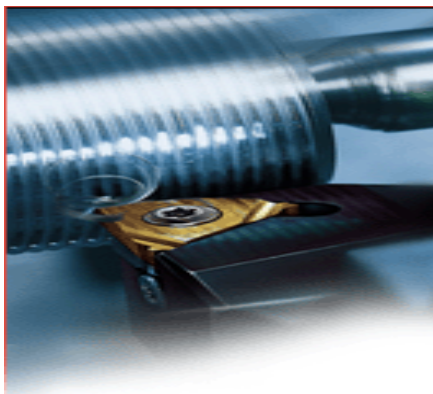


TYPE C (chip breaker)

Size MM (inch)	Pitch TPI	External ARM Grade	Internal ARM Grade
16 (3/8)	18	400-592	400-593
16 (3/8)	14	400-594	400-595
16 (3/8)	11.5	400-596	400-597
16 (3/8)	8	400-598	400-599

MULTITOOTH

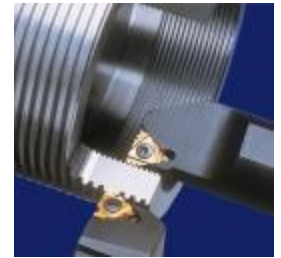
Size MM (inch)	Pitch TPI	# Teeth	External ARM Grade	Internal ARM Grade
22 (1/2)	11.5	2	400-600	400-601
27 (5/8)	11.5	3	400-602	400-603
27 (5/8)	8	2	400-604	400-605



Website: www.newusedmachines.com

E-mail sales@newusedmachines.com

A COST EFFECTIVE SOLUTION FOR YOUR THREADING NEEDS!



LAYDOWN THREADING INSERT CUTTING PARAMATERS		
Materials	Cutting Speed (ft/min.)	
	LEM	ARM
Low and medium carbon steels	330-590	295-520
High carbon steels	260-520	260-490
Alloy steels	260-390	260-390
Cast steel	390-520	330-460
Stainless steels	295-390	230-430
Non-ferrous metal, Aluminum	980-1970	980-2620
Super alloys and titanium	130-260	130-330
Hardened steel	65-130	65-160
Cast iron	260-490	260-430

MINI TOOL CUTTING PARAMATERS	
Materials	Cutting Speed (ft/min.)
Low and medium carbon steels	65-460
High carbon steels	100-330
Alloy steels	130-300
Cast steel	130-300
Stainless steels	65-300
Non-ferrous metal, Aluminum	160-390
Super alloys and titanium	50-100
Hardened steel	40-100
Cast iron	130-390

Website: www.newusedmachines.com

E-mail sales@newusedmachines.com

ALSO REPRESENTING-



Landis[®]
Threading Systems



Thread Making Answers™ For over a century, Landis has been setting global standards for excellence in high volume thread cutting and thread rolling applications.

It is safe to say that if you already machine threads, you will already know the Landis name. What you may not know is that Landis Threading Systems is using its threading knowledge to bring new, sophisticated threading technology to the metalworking market. Threading rolling, Reamers, die chasers, and tap technology.

CANELA Corp.

The CANELA group company, manufacturer of cutting tools, established in 1967, has become into one of the world leaders in the manufacturing of milling, turning, threading and parting tools. The R+D, design, marketing, finances and export departments are situated in the headquarters in Badalona, from where it gives support to their subsidiary companies, distributors and customers all over the five continents. CANELA Corp. offers to their customers a large range of standard and special products for all sectors of the metal cutting industry.

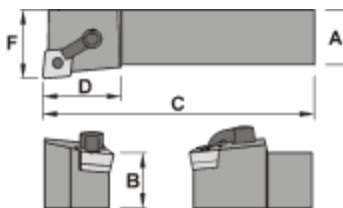
A cost effective solution for your turning tool needs!

Inquire with LMI for information and Pricing.



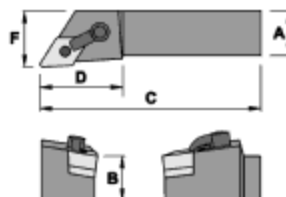
MCLN 95° negative rake

Reference	A	B	C	SHIM	SCREW	CLAMP	CLAMP SCREW
MCLN R/L 16-4D	1.00	1.00	6.00	ICSN-432	NL-46	CL-20	XNS-48
MCLN R/L 16-5D				ICSN-533	NL-58	CL-12	XNS-510
MCLN R/L 16-6D				ICSN-633	NL-68		
MCLN R/L 20-4D	1.25	1.25	6	ICSN-432	NL-46	CL-20	XNS-48
MCLN R/L 20-5D				ICSN-533	NL-58	CL-12	XNS-510
MCLN R/L 20-6D				ICSN-633	NL-68		
MCLN R/L 24-5D	1.50	1.50	6	ICSN-533	NL-58	CL-12	XNS-510
MCLN R/L 24-6D				ICSN-633	NL-68		



MDJN 93° negative rake

Reference	A	B	C	SHIM	SCREW	CLAMP	CLAMP SCREW
MDJN R/L 16-4D	1.00	1.00	6.00	IDSN-432	NL-46	CL-20	XNS-48
MDJN R/L 20-4D	1.25	1.25					

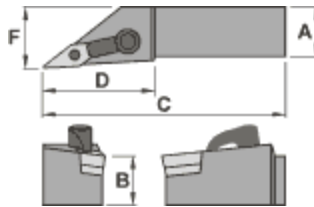


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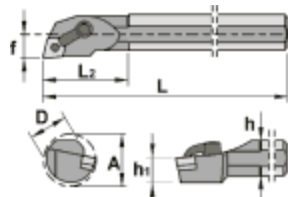
MVJN 93° negative rake

Reference	A	B	C	SHIM	SCREW	CLAMP	CLAMP SCREW
MVJN R/L 16-3D	1.00	1.00	6.00	IVSN-322	NL-34L	CL-22	XNS-48
MVJN R/L 20-3D	1.25	1.25					



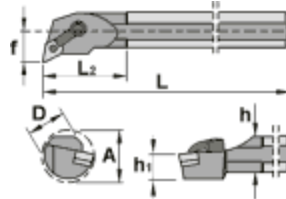
MCLN 95° Boring Bars

Reference	D	L	A	SHIM	SCREW	CLAMP	CLAMP SCREW
S16T MCLN R/L 4	1.00	12.00	1.280	-	NL-44	CL-20	XNS-47
S20U MCLN R/L 4	1.25	14.00	1.530	ICSN-432	NL-46		XNS-48
S24U MCLN R/L 4	1.50	14.00	1.780				
S28U MCLN R/L 4	1.75	14.00	2.030				
S32V MCLN R/L 4	2.00	16.00	2.562				
S40V MCLN R/L 4	2.50	16.00	3.062				
S32V MCLN R/L 5	2.00	16.00	2.562	ICSN-533	NL-58	CL-12	XNS-510
S40V MCLN R/L 5	2.50	16.00	3.062				
S32V MCLN R/L 6	2.00	16.00	2.562	ICSN-633	NL-68		
S40V MCLN R/L 6	2.50	16.00	3.062				



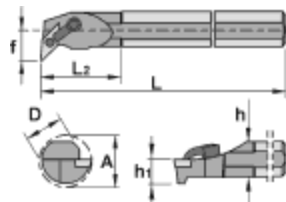
MDUN 93° Boring Bars

Reference	D	L	A	SHIM	SCREW	CLAMP	CLAMP SCREW
S16T MDUN R/L 4	1.00	12.00	1.750	-	NL-44	CL-20	XNS-47
S20U MDUN R/L 4	1.25	14.00	2.000	IDSN-433	NL-46		XNS-48
S24U MDUN R/L 4	1.50	14.00	2.250				
S32V MDUN R/L 4	2.00	16.00	3.000				



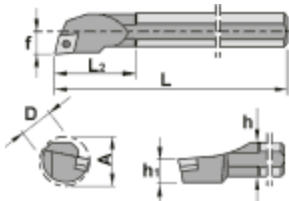
MVUN 93° Boring Bars

Reference	D	L	A	SHIM	SCREW	CLAMP	CLAMP SCREW
S16T MVUN R/L 3	1.00	12.00	2.000	IVSN-322	NL34L	CL-20	XNS-47
S20U MVUN R/L 3	1.25	14.00	2.250				XNS-48
S24U MVUN R/L 3	1.50	14.00	2.50				



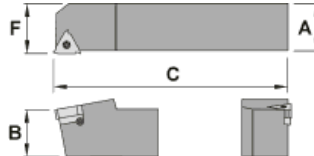
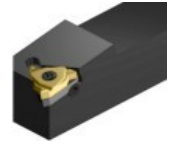
SCLC 95° Boring Bars

Reference	D	L	A	SCREW
S06M SCLC R/L 2	0.37 5	6.00	0.500	1425
S08M SCLC R/L 2	0.50 0		0.625	
S10R SCLC R/L 3	0.62 5	8.00	0.812	1440
S12S SCLC R/L 3	0.75 0	10.00	1.000	
S16T SCLC R/L 3	1.00 0	12.00	1.280	



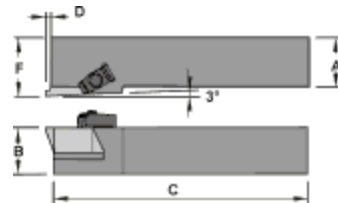
SE OD LAYDOWN THREADING HOLDERS

Reference	A=B	C	F	RH SHIM	LH SHIM	INSERT SCREW	SHIM SCREW
SER/L 1000 M16	1.00	6.00	1.00	YI3	YE3	SA3	SY3
SER/L 1250 P16	1.25	7.00	1.25				
SER/L 1000 M22	1.00	6.00	1.00	YI4	YE4	SA4	SY4
SER/L 1250 P22	1.25	7.00	1.25				



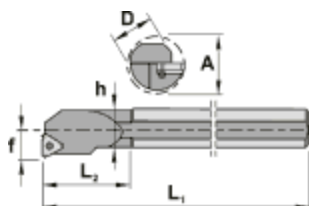
CLS OD TOP NOTCH THREADING HOLDERS

Reference	A=B	C	F	SHIM	RH CLAMP	LH CLAMP	CLAMP SCREW	SHIM SCREW
CLSR/L 16-3D	1.00	6.00	1.25	-	TF-72	TF-73	1297	-
CLSR/L 20-3D	1.25		1.50	3521				1625
CLSR/L 16-4D	1.00		1.25	-				-
CLSR/L 16-4D	1.25		1.50	3521				1625

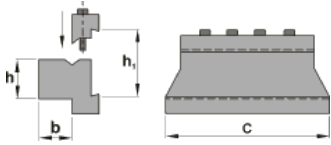


SI ID LAYDOWN THREADING HOLDERS

Reference	D	L1	A	RH SHIM	LH SHIM	INSERT SCREW	SHIM SCREW
SIR/L 0500 M16	0.500	6.00	.640	-	-	SN-3	-
SIR/L 0625 P16	0.625	7.00	.750				
SIR/L 0750 P16	0.750		1.00				
SIR/L 1000 R16	1.00	8.00	1.20	YI3	YE3	SA3	SY3
SIR/L 1250 S16	1.25	10.00	1.42				
SIR/L 1500 T16	1.50	12.00	1.65				

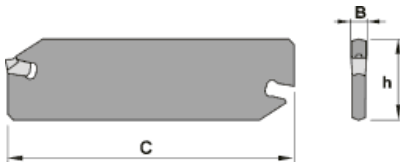


DPTS TOOL BLOCKS



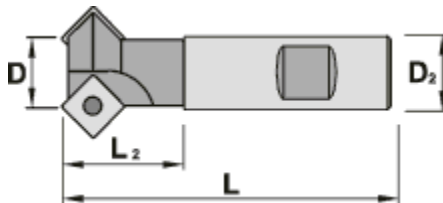
Reference	h=b	C	h1	SCREW
DPTS 1632	1.00	4.330	1.250	1076
DPTS 2032	1.25	4.750		

XLCFN PART OFF BLADES



Reference	B	C	h	Wrench	Insert
XLCFN 3201 M02	0.083	5.906	1.250	5732	PTNT02
XLCFN 3202 M03	0.122				PTNT03
XLCFN 3203 M04	0.161				PTNT04
XLCFN 3204 M05	0.201				PTNT05
XLCFN 3205 M06	0.240				PTNT06
XLCFN 3207 M08	0.319				PTNT08
XLCFN 3208 M09	0.358				PTNT09

Chamfer Cutter



Reference	D	D2	L	Teeth	Screw	Insert
0740.21.0020	0.203	.750	3.50	1	1550	SPMW 433
0740.21.0075	0.750	.750	3.50	2	1550	SPMW 433



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SHORT LENGTH SPADE DRILL HOLDERS
STRAIGHT SHANK

<u>Insert Series</u>	<u>Item No.</u>	<u>A</u> Size Range	<u>B</u> Overall Length	<u>C</u> Max. Depth	<u>D</u> Flute Length	<u>E</u> Shank Dia.	<u>F</u> Shank Length	<u>G</u> Pipe Tap
Y	TSD300-000	.375"-.421"	4-13/32"	1-1/4"	2-1/32"	3/4"	2-3/8"	1/8"
Z	TSD300-001	.437"-.500"	4-13/32"	1-1/4"	2-1/32"	3/4"	2-3/8"	1/8"
0	TSD300-002	.515"-.687"	4-9/16"	1-3/8"	2-3/16"	3/4"	2-3/8"	1/8"
0.5	TSD300-003	.609"-.687"	4-9/16"	1-3/8"	2-3/16"	3/4"	2-3/8"	1/8"
1	TSD300-004	.703"-.937"	6-7/8"	2-5/8"	3-7/8"	3/4"	3"	1/8"
1	TSD300-005	.703"-.937"	6-7/8"	2-5/8"	3-7/8"	1"	3"	1/8"
1.5	TSD300-006	.859"-.937"	6-7/8"	2-5/8"	3-7/8"	3/4"	3"	1/8"
1.5	TSD300-007	.859"-.937"	6-7/8"	2-5/8"	3-7/8"	1"	3"	1/8"
2	TSD300-008	.968"-.1.375"	8"	3-3/8"	4-1/2"	1"	3-1/2"	1/8"
2	TSD300-009	.968"-.1.375"	8"	3-3/8"	4-1/2"	1-1/4"	3-1/2"	1/8"
2.5	TSD300-010	1.187"-.1.375"	8"	3-3/8"	4-1/2"	1"	3-1/2"	1/8"
2.5	TSD300-011	1.187"-.1.375"	8"	3-3/8"	4-1/2"	1-1/4"	3-1/2"	1/8"
3	TSD300-012	1.406"-1.875"	10"	4-3/4"	6"	1-1/4"	4"	1/4"
3	TSD300-013	1.406"-1.875"	10"	4-3/4"	6"	1-1/2"	4"	1/4"

STANDARD LENGTH SPADE DRILL HOLDERS
STRAIGHT SHANK

<u>Insert Series</u>	<u>Item No.</u>	<u>A</u> Size Range	<u>B</u> Overall Length	<u>C</u> Max. Depth	<u>D</u> Flute Length	<u>E</u> Shank Dia.	<u>F</u> Shank Length	<u>G</u> Pipe Tap
Y	TSD300-014	.375"-.421"	5-17/32"	2-3/8"	3-5/32"	3/4"	2-3/8"	1/8"
Z	TSD300-015	.437"-.500"	5-17/32"	2-3/8"	3-5/32"	3/4"	2-3/8"	1/8"
0	TSD300-016	.515"-.687"	5-11/16"	2-1/2"	3-5/16"	3/4"	2-3/8"	1/8"
0.5	TSD300-017	.609"-.687"	5-11/16"	2-1/2"	3-5/16"	3/4"	2-3/8"	1/8"

INTERMEDIATE LENGTH SPADE DRILL HOLDERS
STRAIGHT SHANK

<u>Insert Series</u>	<u>Item No.</u>	<u>A</u> Size Range	<u>B</u> Overall Length	<u>C</u> Max. Depth	<u>D</u> Flute Length	<u>E</u> Shank Dia.	<u>F</u> Shank Length	<u>G</u> Pipe Tap
1	TSD300-018	.703"-.937"	8-7/8"	4-5/8"	5-7/8"	1"	3"	1/8"
1.5	TSD300-019	.859"-.937"	8-7/8"	4-5/8"	5-7/8"	1"	3"	1/8"
2	TSD300-020	.968"-.1.375"	10"	5-3/8"	6-1/2"	1-1/4"	3-1/2"	1/8"
2.5	TSD300-021	1.187"-.1.375"	10"	5-3/8"	6-1/2"	1-1/4"	3-1/2"	1/8"
3	TSD300-022	1.406"-1.875"	11-3/4"	6-1/2"	7-3/4"	1-1/2"	4"	1/4"

OTHER SIZES AND STYLES OF HOLDERS AVAILABLE THAT IS NOT SHOWN HERE

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Spade Drill Inserts



**SERIES Y (.374" TO .436")
SUPER HSCO (T15)**

Inch	Description	Tin Coated Part No.
3/8	.3750/T-15/TIN	TSD600-001
25/64	.3906/T-15/TIN	TSD600-003
13/32	.4063/T-15/TIN	TSD600-006
27/64	.4219/T-15/TIN	TSD600-008

**SERIES Y (.374" TO .436")
SUPER HSCO (T15)**

Inch	Description	TiAlN Coated Part No.
3/8	.3750/T-15/TiAlN	TSD700-001
25/64	.3906/T-15/TiAlN	TSD700-003
13/32	.4063/T-15/TiAlN	TSD700-006
27/64	.4219/T-15/TiAlN	TSD700-008

**SERIES Z (.437" TO .510")
SUPER HSCO (T15)**

Inch	Description	Tin Coated Part No.
7/16	.4375/T-15/TIN	TSD600-011
29/64	.4531/T-15/TIN	TSD600-013
15/32	.4688/T-15/TIN	TSD600-014
31/64	.4844/T-15/TIN	TSD600-016
1/2	.5000/T-15/TIN	TSD600-018

**SERIES Z (.437" TO .510")
SUPER HSCO (T15)**

Inch	Description	TiAlN Coated Part No.
7/16	.4375/T-15/TiAlN	TSD700-011
29/64	.4531/T-15/TiAlN	TSD700-013
15/32	.4688/T-15/TiAlN	TSD700-014
31/64	.4844/T-15/TiAlN	TSD700-016
1/2	.5000/T-15/TiAlN	TSD700-018

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**SERIES O (.511" TO .695")
SUPER HSCO (T15)**

Inch	Description	Tin Coated Part No.
33/64	.5156/T-15/TIN	TSD600-020
17/32	.5313/T-15/TIN	TSD600-021
9/16	.5625/T-15/TIN	TSD600-024
37/64	.5781/T-15/TIN	TSD600-026
19/32	.5938/T-15/TIN	TSD600-028
39/64	.6102/T-15/TIN	TSD600-029
5/8	.6250/T-15/TIN	TSD600-030
21/32	.6563/T-15/TIN	TSD600-033
11/16	.6875/T-15/TIN	TSD600-036

**SERIES O (.511" TO .695")
SUPER HSCO (T15)**

Inch	Description	TiAlN Coated Part No.
33/64	.5156/T-15/TiAlN	TSD700-020
17/32	.5313/T-15/TiAlN	TSD700-021
9/16	.5625/T-15/TiAlN	TSD700-024
37/64	.5781/T-15/TiAlN	TSD700-026
19/32	.5938/T-15/TiAlN	TSD700-028
39/64	.6102/T-15/TiAlN	TSD700-029
5/8	.6250/T-15/TiAlN	TSD700-030
21/32	.6563/T-15/TiAlN	TSD700-033
11/16	.6875/T-15/TiAlN	TSD700-036



CALL LMI FOR MORE INFORMATION
TOLL FREE: 1-866-437-7315



Spade Drill Inserts



SERIES 1 (.690" TO .960") SUPER HSCO (T15)

Inch	Description	Tin Coated Part No.
45/64	.7031/T-15/TIN	TSD600-038
23/32	.7188/T-15/TIN	TSD600-040
47/64	.7344/T-15/TIN	TSD600-042
3/4	.7500/T-15/TIN	TSD600-044
49/64	.7656/T-15/TIN	TSD600-045
25/32	.7813/T-15/TIN	TSD600-047
13/16	.8125/T-15/TIN	TSD600-050
27/32	.8438/T-15/TIN	TSD600-053
7/8	.8750/T-15/TIN	TSD600-055
29/32	.9063/T-15/TIN	TSD600-057
59/64	.9219/T-15/TIN	TSD600-058
15/16	.9375/T-15/TIN	TSD600-059

SERIES 1 (.690" TO .960") SUPER HSCO (T15)

Inch	Description	TiAlN Coated Part No.
45/64	.7031/T-15/TiALN	TSD700-038
23/32	.7188/T-15/TiALN	TSD700-040
47/64	.7344/T-15/TiALN	TSD700-042
3/4	.7500/T-15/TiALN	TSD700-044
49/64	.7656/T-15/TiALN	TSD700-045
25/32	.7813/T-15/TiALN	TSD700-047
13/16	.8125/T-15/TiALN	TSD700-050
27/32	.8438/T-15/TiALN	TSD700-053
7/8	.8750/T-15/TiALN	TSD700-055
29/32	.9063/T-15/TiALN	TSD700-057
59/64	.9219/T-15/TiALN	TSD700-058
15/16	.9375/T-15/TiALN	TSD700-059

SERIES 2 (.961" TO 1.380") SUPER HSCO (T15)

Inch	Description	Tin Coated Part No.
31/32	.9688/T-15/TIN	TSD600-061
63/64	.9843/T-15/TIN	TSD600-062
1	1.0000/T-15/TIN	TSD600-063
1 1/64	1.0156/T-15/TIN	TSD600-064
1 1/32	1.0313/T-15/TIN	TSD600-066
1 1/16	1.0625/T-15/TIN	TSD600-068
1 3/32	1.0938/T-15/TIN	TSD600-070
1 1/8	1.1250/T-15/TIN	TSD600-072
1 5/32	1.1563/T-15/TIN	TSD600-074
1 3/16	1.1875/T-15/TIN	TSD600-075
1 7/32	1.2188/T-15/TIN	TSD600-078
1 1/4	1.2500/T-15/TIN	TSD600-080
1 9/32	1.2813/T-15/TIN	TSD600-082
1 5/16	1.3125/T-15/TIN	TSD600-084
1 11/32	1.3438/T-15/TIN	TSD600-086
1 3/8	1.3750/T-15/TIN	TSD600-087

SERIES 2 (.961" TO 1.380") SUPER HSCO (T15)

Inch	Description	TiAlN Coated Part No.
31/32	.9688/T-15/TiALN	TSD700-061
63/64	.9843/T-15/TiALN	TSD700-062
1	1.0000/T-15/TiALN	TSD700-063
1 1/64	1.0156/T-15/TiALN	TSD700-064
1 1/32	1.0313/T-15/TiALN	TSD700-066
1 1/16	1.0625/T-15/TiALN	TSD700-068
1 3/32	1.0938/T-15/TiALN	TSD700-070
1 1/8	1.1250/T-15/TiALN	TSD700-072
1 5/32	1.1563/T-15/TiALN	TSD700-074
1 3/16	1.1875/T-15/TiALN	TSD700-075
1 7/32	1.2188/T-15/TiALN	TSD700-078
1 1/4	1.2500/T-15/TiALN	TSD700-080
1 9/32	1.2813/T-15/TiALN	TSD700-082
1 5/16	1.3125/T-15/TiALN	TSD700-084
1 11/32	1.3438/T-15/TiALN	TSD700-086
1 3/8	1.3750/T-15/TiALN	TSD700-087

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Spade Drill Inserts



SERIES 3 (1.380" TO 1.882") SUPER HSCO (T15)

Inch	Description	Tin Coated Part No.
1 13/32	1.4063/T-15/TIN	TSD600-089
1 7/16	1.4375/T-15/TIN	TSD600-091
1 15/32	1.4688/T-15/TIN	TSD600-093
1 1/2	1.5000/T-15/TIN	TSD600-095
1 17/32	1.5313/T-15/TIN	TSD600-096
1 9/16	1.5656/T-15/TIN	TSD600-098
1 19/32	1.5938/T-15/TIN	TSD600-100
1 5/8	1.6250/T-15/TIN	TSD600-102
1 21/32	1.6563/T-15/TIN	TSD600-104
1 11/16	1.6875/T-15/TIN	TSD600-105
1 23/32	1.7188/T-15/TIN	TSD600-107
1 3/4	1.7500/T-15/TIN	TSD600-109
1 25/32	1.7813/T-15/TIN	TSD600-112
1 13/16	1.8125/T-15/TIN	TSD600-114
1 27/32	1.8438/T-15/TIN	TSD600-115
1 7/8	1.8750/T-15/TIN	TSD600-117

SERIES 3 (1.380" TO 1.882") SUPER HSCO (T15)

Inch	Description	TiAlN Coated Part No.
1 13/32	1.4063/T-15/TiALN	TSD700-089
1 7/16	1.4375/T-15/TiALN	TSD700-091
1 15/32	1.4688/T-15/TiALN	TSD700-093
1 1/2	1.5000/T-15/TiALN	TSD700-095
1 17/32	1.5313/T-15/TiALN	TSD700-096
1 9/16	1.5656/T-15/TiALN	TSD700-098
1 19/32	1.5938/T-15/TiALN	TSD700-100
1 5/8	1.6250/T-15/TiALN	TSD700-102
1 21/32	1.6563/T-15/TiALN	TSD700-104
1 11/16	1.6875/T-15/TiALN	TSD700-105
1 23/32	1.7188/T-15/TiALN	TSD700-107
1 3/4	1.7500/T-15/TiALN	TSD700-109
1 25/32	1.7813/T-15/TiALN	TSD700-112
1 13/16	1.8125/T-15/TiALN	TSD700-114
1 27/32	1.8438/T-15/TiALN	TSD700-115
1 7/8	1.8750/T-15/TiALN	TSD700-117

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Spade Drill Inserts



SERIES 4 (1.850" TO 2.570") SUPER HSCO (T15)		
Inch	Description	Tin Coated Part No.
1 -29/32	1.9063/T-15/TIN	TSD600-119
1 -15/16	1.9375/T-15/TIN	TSD600-121
1 -31/32	1.9688/T-15/TIN	TSD600-123
2	2.0000/T-15/TIN	TSD600-124
2- 1/32	2.0313/T-15/TIN	TSD600-127
2-3/64	2.0472/T-15/TIN	TSD600-128
2-1/16	2.0625/T-15/TIN	TSD600-129
2-3/32	2.0938/T-15/TIN	TSD600-131
2-1 /8	2.1250/T-15/TIN	TSD600-132
2-5/32	2.1563/T-15/TIN	TSD600-134
2-3/16	2.1875/T-15/TIN	TSD600-136
2-7/32	2.2188/T-15/TIN	TSD600-138
2-1/4	2.2500/T-15/TIN	TSD600-140
2-17/64	2.2813/T-15/TIN	TSD600-141
2-5/16	2.3125/T-15/TIN	TSD600-144
2- 11/32	2.3438/T-15/TIN	TSD600-146
2-3/8	2.3750/T-15/TIN	TSD600-148
2- 13/32	2.4063/T-15/TIN	TSD600-150
2-7/16	2.4375/T-15/TIN	TSD600-151
2-1/2	2.5000/T-15/TIN	TSD600-154
2-17/32	2.5313/T-15/TIN	TSD600-157
2-9/16	2.5625/T-15/TIN	TSD600-159

SERIES 4 (1.850" TO 2.570") SUPER HSCO (T15)		
Inch	Description	TiAlN Coated Part No.
1 29/32	1.9063/T-15/TiALN	TSD700-119
1 15/16	1.9375/T-15/TiALN	TSD700-121
1 31/32	1.9688/T-15/TiALN	TSD700-123
2	2.0000/T-15/TiALN	TSD700-124
2 1/32	2.0313/T-15/TiALN	TSD700-127
2 3/64	2.0472/T-15/TiALN	TSD700-128
2 1/16	2.0625/T-15/TiALN	TSD700-129
2 3/32	2.0938/T-15/TiALN	TSD700-131
2 1/8	2.1250/T-15/TiALN	TSD700-132
2 5/32	2.1563/T-15/TiALN	TSD700-134
2 3/16	2.1875/T-15/TiALN	TSD700-136
2 7/32	2.2188/T-15/TiALN	TSD700-138
2 1/4	2.2500/T-15/TiALN	TSD700-140
2 9/32	2.2813/T-15/TiALN	TSD700-141
2 5/16	2.3125/T-15/TiALN	TSD700-144
2 11/32	2.3438/T-15/TiALN	TSD700-146
2 3/8	2.3750/T-15/TiALN	TSD700-148
2 13/32	2.4063/T-15/TiALN	TSD700-150
2 7/16	2.4375/T-15/TiALN	TSD700-151
2 15/32	2.5000/T-15/TiALN	TSD700-154
2 1/2	2.5313/T-15/TiALN	TSD700-157
2 17/32	2.5625/T-15/TiALN	TSD700-159

OTHER SIZES UP TO 4" AVAILABLE THAT IS NOT SHOWN HERE!

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Website: www.newusedmachines.com

E-mail orderdesk@newusedmachines.com





SPEED & FEED RECOMMENDATIONS

Material	Hardness	Steel Grade Recommend	TiN SFM	TiALN SFM	Y	Z	0	1	2	3	4
Low Carbon Steel 1010,1020,1025, etc	85-125	T-15	170	220	.006	.009	.012	.015	.019	.023	.027
	126-175	T-15	160	210	.006	.009	.012	.015	.019	.023	.027
	176-225	T-15	150	195	.005	.008	.010	.014	.018	.021	.025
	226-275	T-15	140	180	.005	.008	.010	.014	.018	.021	.025
Medium Carbon Steel 1030,1040,etc	125-175	T-15	160	240	.006	.009	.012	.015	.019	.023	.027
	176-225	T-15	150	225	.005	.008	.010	.014	.018	.021	.024
	226-275	T-15	140	210	.005	.008	.010	.014	.018	.021	.024
	276-325	T15	130	195	.004	.007	.009	.012	.016	.019	.022
Alloy Steel 4130,4140,8640, Etc	125-176	T-15	150	210	.006	.008	.010	.014	.017	.019	.022
	176-225	T-15	140	195	.005	.008	.010	.014	.017	.019	.022
	226-275	T-15	130	180	.005	.007	.010	.014	.017	.019	.022
	276-325	T-15	120	170	.004	.006	.009	.012	.015	.017	.020
	326-375	T-15	110	155	.003	.006	.009	.012	.015	.017	.020
High Strength Alloy 4340	225-300	T-15	80	110	.005	.007	.009	.010	.014	.017	.020
	301-350	T-15	60	85	.004	.007	.009	.010	.014	.017	.020
	351.400	T-15	50	70	.003	.006	.008	.009	.012	.015	.018
Structural Steel A36, A285, A516	100-250	T-15	130	180	.005	.009	.012	.014	.016	.019	.024
	250-300	T-15	100	140	.004	.008	.010	.012	.014	.017	.020
Stainless Steel 303,316,416, 17-4PH	135-185	T-15	75	105	.006	.008	.009	.011	.014	.016	.020
	185-275	T-15	60	90	.005	.007	.008	.010	.012	.014	.018
Tool Steel H-1 3, H-21, A-4 Etc	150-200	T-15	80	110	.004	.006	.008	.010	.012	.015	.017
	200-250	T-15	60	90	.004	.006	.008	.010	.012	.015	.017
Cast Iron Gray, Ductile, Nodular	120-150	T-15	170	250	.007	.012	.016	.020	.024	.027	.030
	150-200	T-15	150	225	.006	.011	.014	.018	.022	.025	.028
	200-220	T-15	130	195	.006	.009	.012	.016	.018	.021	.024
	221-260	T-15	110	165	.005	.007	.009	.014	.014	.017	.020
	260-320	T-15	90	135	.004	.006	.007	.012	.012	.014	.016



JOBBER LENGTH DRILLS GENERAL PURPOSE - BRIGHT FINISH

<u>Part#</u>	<u>Dia</u>	<u>Fractional</u>		<u>Flute Length</u>	<u>Qty Pack</u>
		<u>Decimal Equiv.</u>	<u>O.A.L.</u>		
TSD100-000	1/64	0.0156	3/4	3/16	12
TSD100-001	1/32	0.0313	1 3/8	1/2	12
TSD100-002	3/64	0.0469	1 3/4	3/4	12
TSD100-003	1/16	0.0625	1 5/8	7/8	12
TSD100-004	5/64	0.0781	2	1	12
TSD100-005	3/32	0.0938	2 1/4	1 1/4	12
TSD100-006	7/64	0.1094	2 5/8	1 1/2	12
TSD100-007	1/8	0.1250	2 3/4	1 5/8	12
TSD100-008	9/64	0.1406	2 5/8	1 3/4	12
TSD100-009	5/32	0.1563	3 1/8	2	12
TSD100-010	11/64	0.1719	3 1/4	2 1/8	12
TSD100-011	3/16	0.1875	3 1/2	2 5/16	12
TSD100-012	13/64	0.2031	3 5/8	2 7/16	12
TSD100-013	7/32	0.2188	3 3/4	2 1/2	12
TSD100-014	15/64	0.2344	3 7/8	2 5/8	12
TSD100-015	1/4	0.2500	4	2 3/4	12
TSD100-016	17/64	0.2656	4 1/8	2 7/8	12
TSD100-017	9/32	0.2813	4 1/4	2 15/16	12
TSD100-018	19/64	0.2969	4 3/8	3 1/16	6
TSD100-019	5/16	0.3125	4 1/2	3 3/16	6
TSD100-020	21/64	0.3281	4 5/8	3 5/16	6
TSD100-021	11/32	0.3438	4 3/4	3 7/16	6
TSD100-022	23/64	0.3594	4 7/8	3 1/2	6
TSD100-023	3/8	0.3750	5	3 5/8	6
TSD100-024	25/64	0.3906	5 1/8	3 3/4	6
TSD100-025	13/32	0.4063	5 1/4	3 7/8	6
TSD100-026	27/64	0.4219	5 3/8	3 15/16	6
TSD100-027	7/16	0.4375	5 1/2	4 1/16	6
TSD100-028	29/64	0.4531	5 5/8	4 3/16	6
TSD100-029	15/32	0.4688	5 3/4	4 5/16	6
TSD100-030	31/64	0.4844	5 7/8	4 3/8	6
TSD100-031	1/2	0.5000	6	4 1/2	6

<u>Part#</u>	<u>Letter</u>	<u>Letter</u>			<u>Qty Pack</u>
		<u>Dec. Equiv.</u>	<u>O.A.L.</u>	<u>Flute Length</u>	
TSD100-032	A	0.234	3 7/8	2 5/8	12
TSD100-033	B	0.238	4	2 3/4	12
TSD100-034	C	0.242	4	2 3/4	12
TSD100-035	D	0.246	4	2 3/4	12
TSD100-036	E	0.250	4	2 3/4	12
TSD100-037	F	0.257	4 1/8	2 7/8	12
TSD100-038	G	0.261	4 1/8	2 7/8	12
TSD100-039	H	0.266	4 1/8	2 7/8	12
TSD100-040	I	0.272	4 1/8	2 7/8	12
TSD100-041	J	0.277	4 1/8	2 7/8	12
TSD100-042	K	0.281	4 1/4	2 15/16	12
TSD100-043	L	0.290	4 1/4	2 15/16	12
TSD100-044	M	0.295	4 3/8	3 3/16	6
TSD100-045	N	0.302	4 3/8	3 1/16	6
TSD100-046	O	0.316	4 1/2	3 3/16	6
TSD100-047	P	0.323	4 5/8	3 5/16	6
TSD100-048	Q	0.332	4 3/4	3 7/16	6
TSD100-049	R	0.339	4 3/4	3 7/16	6
TSD100-050	S	0.348	4 7/8	3 1/2	6
TSD100-051	T	0.358	4 7/8	3 1/2	6
TSD100-052	U	0.368	5	3 5/8	6
TSD100-053	V	0.377	5	3 5/8	6
TSD100-054	W	0.386	5 1/8	3 3/4	6
TSD100-055	X	0.397	5 1/8	3 3/4	6
TSD100-056	Y	0.404	5 1/4	3 7/8	6
TSD100-057	Z	0.413	5 1/4	3 7/8	6



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ALSO AVAILABLE IN SETS



JOBBER LENGTH DRILLS GENERAL PURPOSE - BRIGHT FINISH

<u>Part#</u>	<u>Wire</u>	<u>Wire</u>		<u>Flute Length</u>	<u>Qty Pack</u>
		<u>Dec. Equiv.</u>	<u>O.A.L.</u>		
TSD100-058	1	0.2280	3 7/8	2 5/8	12
TSD100-059	2	0.2210	3 7/8	2 1/2	12
TSD100-060	3	0.2130	3 3/4	2 1/2	12
TSD100-061	4	0.2090	3 3/4	2 1/2	12
TSD100-062	5	0.2055	3 3/4	2 1/2	12
TSD100-063	6	0.2040	3 3/4	2 1/2	12
TSD100-064	7	0.2010	3 5/8	2 7/16	12
TSD100-065	8	0.1990	3 5/8	2 7/16	12
TSD100-066	9	0.1960	3 5/8	2 7/16	12
TSD100-067	10	0.1935	3 5/8	2 7/16	12
TSD100-068	11	0.1910	3 1/2	2 5/16	12
TSD100-069	12	0.1890	3 1/2	2 5/16	12
TSD100-070	13	0.1850	3 1/2	2 5/16	12
TSD100-071	14	0.1820	3 3/8	2 3/16	12
TSD100-072	15	0.1800	3 3/8	2 3/16	12
TSD100-073	16	0.1770	3 3/8	2 3/16	12
TSD100-074	17	0.1730	3 3/8	2 3/16	12
TSD100-075	18	0.1695	3 1/4	2 1/8	12
TSD100-076	19	0.1660	3 1/4	2 1/8	12
TSD100-077	20	0.1610	3 1/4	2 1/8	12
TSD100-078	21	0.1590	3 1/4	2 1/8	12
TSD100-079	22	0.1570	3 1/8	2	12
TSD100-080	23	0.1540	3 1/8	2	12
TSD100-081	24	0.1520	3 1/8	2	12
TSD100-082	25	0.1495	3	1 7/8	12
TSD100-083	26	0.1470	3	1 7/8	12
TSD100-084	27	0.1440	3	1 7/8	12
TSD100-085	28	0.1405	2 7/8	1 3/4	12
TSD100-086	29	0.1360	2 7/8	1 3/4	12
TSD100-087	30	0.1285	2 3/4	1 5/8	12
TSD100-088	31	0.1200	2 3/4	1 5/8	12
TSD100-089	32	0.1160	2 3/4	1 5/8	12
TSD100-090	33	0.1130	2 5/8	1 1/2	12
TSD100-091	34	0.1110	2 5/8	1 1/2	12
TSD100-092	35	0.1100	2 5/8	1 1/2	12
TSD100-093	36	0.1065	2 1/2	1 7/16	12

<u>Part#</u>	<u>Wire</u>	<u>Wire</u>		<u>Flute Length</u>	<u>Qty Pack</u>
		<u>Dec. Equiv.</u>	<u>O.A.L.</u>		
TSD100-094	37	0.1040	2 1/2	1 7/16	12
TSD100-095	38	0.1015	2 1/2	1 7/16	12
TSD100-096	39	0.0995	2 3/8	1 3/8	12
TSD100-097	40	0.0980	2 3/8	1 3/8	12
TSD100-098	41	0.0960	2 3/8	1 3/8	12
TSD100-099	42	0.0935	2 1/4	1 1/4	12
TSD100-100	43	0.0890	2 1/4	1 1/4	12
TSD100-101	44	0.0860	2 1/8	1 1/8	12
TSD100-102	45	0.0820	2 1/8	1 1/8	12
TSD100-103	46	0.0810	2 1/8	1 1/8	12
TSD100-104	47	0.0785	2	1	12
TSD100-105	48	0.0760	2	1	12
TSD100-106	49	0.0730	2	1	12
TSD100-107	50	0.0700	2	1	12
TSD100-108	51	0.0670	2	1	12
TSD100-109	52	0.0635	1 7/8	7/8	12
TSD100-110	53	0.0595	1 7/8	7/8	12
TSD100-111	54	0.0550	1 7/8	7/8	12
TSD100-112	55	0.0520	1 7/8	7/8	12
TSD100-113	56	0.0465	1 3/4	3/4	12
TSD100-114	57	0.0430	1 3/4	3/4	12
TSD100-115	58	0.0420	1 5/8	11/16	12
TSD100-116	59	0.0410	1 5/8	11/16	12
TSD100-117	60	0.0400	1 5/8	11/16	12
TSD100-118	61	0.0390	1 5/8	11/16	12
TSD100-119	62	0.0380	1 1/2	5/8	12
TSD100-120	63	0.0370	1 1/2	5/8	12
TSD100-121	64	0.0360	1 1/2	5/8	12
TSD100-122	65	0.0350	1 1/2	5/8	12
TSD100-123	66	0.0330	1 3/8	1/2	12
TSD100-124	67	0.0320	1 3/8	1/2	12
TSD100-125	68	0.0310	1 3/8	1/2	12
TSD100-126	69	0.0292	1 3/8	1/2	12
TSD100-127	70	0.0280	1 1/4	3/8	12
TSD100-128	71	0.0260	1 1/4	3/8	12
TSD100-129	72	0.0250	1 1/8	5/16	12

SCREW MACHINE LENGTH DRILLS

Type 260-UB

Ultra Bor Super Premium, 135° Split Point

Special Hi-Moybdenum tool steel. Gold surface treated body and clearance for maximum lubricity. Heavy-duty construction, 135° split point, no center punch needed - will not walk. Recommended for work hardening grades of stainless steel and other hard metal drilling applications.



FRACTIONAL

Part No.	Diameter Inches	Overall Length Inches	Flute Length Inches	Qty. per/pack
87710	1/16	1-5/8	5/8	12
87720	5/64	1-11/16	11/16	12
87730	3/32	1-3/4	3/4	12
87740	7/64	1-13/16	13/16	12
87750	1/8	1-7/8	7/8	12
87760	9/64	1-15/16	15/16	12
87770	5/32	2-1/16	1	12
87780	11/64	2-1/8	1-1/16	12
87790	3/16	2-3/16	1-1/8	12
87800	13/64	2-1/4	1-3/16	12
87810	7/32	2-3/8	1-1/4	12
87820	15/64	2-7/16	1-5/16	12
87830	1/4	2-1/2	1-3/8	12
87840	17/64	2-5/8	1-7/16	12
87850	9/32	2-11/16	1-1/2	12
87860	19/64	2-3/4	1-9/16	6
87870	5/16	2-13/16	1-5/8	6
87880	21/64	2-15/16	1-11/16	6
87890	11/32	3	1-11/16	6
87900	23/64	3-1/16	1-3/4	6
87910	3/8	3-1/8	1-13/16	6
87920	25/64	3-1/4	1-7/8	6
87930	13/32	3-5/16	1-15/16	6
87940	27/64	3-3/8	2	6
87950	7/16	3-7/16	2-1/16	6
87960	29/64	3-9/16	2-1/8	6
87970	15/32	3-5/8	2-1/8	6
87980	31/64	3-11/16	2-3/16	6
87990	1/2	3-3/4	2-1/4	6
88000	33/64	3-7/8	2-3/8	1
88010	17/32	3-7/8	2-3/8	1
88020	35/64	4	2-1/2	1
88030	9/16	4	2-1/2	1
88040	37/64	4-1/8	2-5/8	1
88050	19/32	4-1/8	2-5/8	1
88060	39/64	4-1/4	2-3/4	1
88070	5/8	4-1/4	2-3/4	1
88080	41/64	4-1/2	2-7/8	1
88090	21/32	4-1/2	2-7/8	1
89210	43/64	4-1/2	2-7/8	1
89220	11/16	4-1/2	2-7/8	1
89230	45/64	4-3/4	3	1
89240	23/32	4-3/4	3	1
89250	47/64	5	3-1/8	1
89260	3/4	5	3-1/8	1

WIRE

Part No.	Wire Sizes	Overall Length Inches	Flute Length Inches	Qty. per/pack
87600	1	2-7/16	1-5/16	12
87590	2	2-7/16	1-5/16	12
87580	3	2-3/8	1-1/4	12
87570	4	2-3/8	1-1/4	12
87560	5	2-3/8	1-1/4	12
87550	6	2-3/8	1-1/4	12
87540	7	2-1/4	1-3/16	12
87530	8	2-1/4	1-3/16	12
87520	9	2-1/4	1-3/16	12
87510	10	2-1/4	1-3/16	12
87500	11	2-1/4	1-3/16	12
87490	12	2-1/4	1-3/16	12
87480	13	2-3/16	1-1/8	12
87470	14	2-3/16	1-1/8	12
87460	15	2-3/16	1-1/8	12
87450	16	2-3/16	1-1/8	12
87440	17	2-3/16	1-1/8	12
87430	18	2-1/8	1-1/16	12
87420	19	2-1/8	1-1/16	12
87410	20	2-1/8	1-1/16	12
87400	21	2-1/8	1-1/16	12
87390	22	2-1/8	1-1/16	12
87380	23	2-1/16	1	12
87370	24	2-1/16	1	12
87360	25	2-1/16	1	12
87350	26	2-1/16	1	12
87340	27	2-1/16	1	12
87330	28	1-15/16	15/16	12
87320	29	1-15/16	15/16	12
87310	30	1-15/16	15/16	12
87300	31	1-7/8	7-8	12
87290	32	1-7/8	7-8	12
87280	33	1-7/8	7-8	12
87270	34	1-7/8	7-8	12
87260	35	1-7/8	7-8	12
87250	36	1-13/16	13/16	12
87240	37	1-13/16	13/16	12
87230	38	1-13/16	13/16	12
87220	39	1-13/16	13/16	12
87210	40	1-13/16	13/16	12
23360	41	1-13/16	13/16	12
23370	42	1-3/4	3/4	12
23380	43	1-3/4	3/4	12
23390	44	1-3/4	3/4	12
23400	45	1-3/4	3/4	12
23410	46	1-3/4	3/4	12
23420	47	1-3/4	3/4	12
23430	48	1-11/16	11/16	12
23440	49	1-11/16	11/16	12
23450	50	1-11/16	11/16	12
23460	51	1-11/16	11/16	12
23470	52	1-11/16	11/16	12
23480	53	1-5/8	5/8	12
23490	54	1-5/8	5/8	12
23500	55	1-5/8	5/8	12
23510	56	1-3/8	1/2	12
23520	57	1-3/8	1/2	12
23530	58	1-3/8	1/2	12
23540	59	1-3/8	1/2	12
23550	60	1-3/8	1/2	12

Letter sizes continued on page 22.

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JOBBER LENGTH DRILLS

Type 240-UB

Ultra Bor Super Premium - 135° Split Point

Special Hi-Molybdenum tool steel. 135° split point for fast penetration and accurate starting without a center punch. Precision ground point, flutes, body, clearance and drill diameter for the ultimate in accuracy and performance. Body and clearance are gold surface treated for maximum lubricity. Drills are heat treated at 2185° F and then nitro-carburize



finished at 950° F to be measurably harder than high-speed steel. Space age nitro-carburized steel withstands substantially higher drilling temperatures while maintaining sharpness. Recommended for use in work hardening grades of stainless steel and other hard metal drilling applications. Sizes smaller than #52 have non-split points.

FRACTIONAL

Part No.	Diameter Inches	Overall Length Inches	Flute Length Inches	Qty. per/pack
05580	1/16	1-7/8	7/8	12
05590	5/64	2	1	12
05600	3/32	2-1/4	1-1/4	12
05610	7/64	2-5/8	1-1/2	12
05620	1/8	2-3/4	1-5/8	12
05630	9/64	2-7/8	1-3/4	12
05640	5/32	3-1/8	2	12
05650	11/64	3-1/4	2-1/8	12
05660	3/16	3-1/2	2-5/16	12
05670	13/64	3-5/8	2-7/16	12
05680	7/32	3-3/4	2-1/2	12
05690	15/64	3-7/8	2-5/8	12
05700	1/4	4	2-3/4	12
05710	17/64	4-1/8	2-7/8	12
05720	9/32	4-1/4	2-15/16	12
05730	19/64	4-3/8	3-1/16	6
05740	5/16	4-1/2	3-3/16	6
05750	21/64	4-5/8	3-5/16	6
05760	11/32	4-3/4	3-7/16	6
05770	23/64	4-7/8	3-1/2	6
05780	3/8	5	3-5/8	6
05790	25/64	5-1/8	3-3/4	6
05800	13/32	5-1/4	3-7/8	6
05810	27/64	5-3/8	3-15/16	6
05820	7/16	5-1/2	4-1/16	6
05830	29/64	5-5/8	4-3/16	6
05840	15/32	5-3/4	4-5/16	6
05850	31/64	5-7/8	4-3/8	6
05860	1/2	6	4-1/2	6
22210	33/64	6-5/8	4-13/16	1
22220	17/32	6-5/8	4-13/16	1
22230	35/64	6-5/8	4-13/16	1
22240	9/16	6-5/8	4-13/16	1
22250	37/64	6-5/8	4-13/16	1
22260	19/32	7-1/8	5-3/16	1
22270	39/64	7-1/8	5-3/16	1
22280	5/8	7-1/8	5-3/16	1
22290	41/64	7-1/8	5-3/16	1
22300	21/32	7-1/8	5-3/16	1
22310	43/64	7-3/8	5-5/8	1
22320	11/16	7-3/8	5-5/8	1
22330	45/64	7-3/8	5-5/8	1
22340	23/32	7-3/8	5-5/8	1
22350	47/64	7-3/8	5-5/8	1
22360	3/4	7-3/8	5-5/8	1

LETTER

Part No.	Letter Size	Overall Length Inches	Flute Length Inches	Qty. per/pack
39460	A	3-7/8	2-5/8	12
39470	B	4	2-3/4	12
39480	C	4	2-3/4	12
39490	D	4	2-3/4	12
39500	E	4	2-3/4	12
39510	F	4-1/8	2-7/8	12
39520	G	4-1/8	2-7/8	12
39530	H	4-1/8	2-7/8	12
39540	I	4-1/8	2-7/8	12
39550	J	4-1/8	2-7/8	12
39560	K	4-1/4	2-15/16	12
39570	L	4-1/4	2-15/16	12
39580	M	4-3/8	3-1/16	6
39590	N	4-3/8	3-1/16	6
39600	O	4-1/2	3-3/16	6
39610	P	4-5/8	3-5/16	6
39620	Q	4-3/4	3-7/16	6
39630	R	4-3/4	3-7/16	6
39640	S	4-7/8	3-1/2	6
39650	T	4-7/8	3-1/2	6
39660	U	5	3-5/8	6
39670	V	5	3-5/8	6
39680	W	5-1/8	3-3/4	6
39690	X	5-1/8	3-3/4	6
39700	Y	5-1/4	3-7/8	6
39710	Z	5-1/4	3-7/8	6

WIRE

Part No.	Wire Size	Overall Length Inches	Flute Length Inches	Qty. per/pack
38940	1	3-7/8	2-5/8	12
38950	2	3-7/8	2-5/8	12
38960	3	3-3/4	2-1/2	12
38970	4	3-3/4	2-1/2	12
38980	5	3-3/4	2-1/2	12
38990	6	3-3/4	2-1/2	12
39000	7	3-5/8	2-7/16	12
39010	8	3-5/8	2-7/16	12
39020	9	3-5/8	2-7/16	12
39030	10	3-5/8	2-7/16	12
39040	11	3-1/2	2-5/16	12
39050	12	3-1/2	2-5/16	12
39060	13	3-1/2	2-5/16	12
39070	14	3-3/8	2-3/16	12
39080	15	3-3/8	2-3/16	12
39090	16	3-3/8	2-3/16	12
39100	17	3-3/8	2-3/16	12
39110	18	3-1/4	2-1/8	12
39120	19	3-1/4	2-1/8	12
39130	20	3-1/4	2-1/8	12

Wire sizes continued on page 6.

Toll Free- 1-866-437-7315

Proudly Manufactured in the U.S.A.

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REDUCED SHANK DRILL
Super Premium Heavy Duty Coated for Maximum Lubricity
1/2" Shank - Silver & Deming
3-Flats on Shank 135 deg split point

<u>Part#</u>	<u>Dia</u>	<u>Decimal Equiv.</u>	<u>O.A.L.</u>	<u>Flute Length</u>
TSD200-000	33/64	0.5156	6	3
TSD200-001	17/32	0.5315	6	3
TSD200-002	35/64	0.5469	6	3
TSD200-003	9/16	0.5625	6	3
TSD200-004	37/64	0.5781	6	3
TSD200-005	19/32	0.5938	6	3
TSD200-006	39/64	0.6094	6	3
TSD200-007	5/8	0.6250	6	3
TSD200-008	41/64	0.6406	6	3
TSD200-009	21/32	0.6563	6	3
TSD200-010	43/64	0.6719	6	3
TSD200-011	11/16	0.6875	6	3
TSD200-012	45/64	0.7031	6	3
TSD200-013	23/32	0.7188	6	3
TSD200-014	47/64	0.7344	6	3
TSD200-015	3/4	0.7500	6	3
TSD200-016	49/64	0.7656	6	3
TSD200-017	25/32	0.7813	6	3
TSD200-018	51/64	0.7969	6	3
TSD200-019	13/16	0.8125	6	3
TSD200-020	53/64	0.8281	6	3
TSD200-021	27/32	0.8438	6	3

<u>Part#</u>	<u>Dia</u>	<u>Dec. Equiv.</u>	<u>O.A.L.</u>	<u>Flute Lengt h</u>
TSD200-022	55/64	0.8594	6	3
TSD200-023	7/8	0.8750	6	3
TSD200-024	57/64	0.8906	6	3
TSD200-025	29/32	0.9063	6	3
TSD200-026	59/64	0.9219	6	3
TSD200-027	15/16	0.9375	6	3
TSD200-028	61/64	0.9531	6	3
TSD200-029	31/32	0.9688	6	3
TSD200-030	63/64	0.9844	6	3
TSD200-031	1	1.0000	6	3
TSD200-032	1.1/32	1.0313	6	3
TSD200-033	1.1/16	1.0625	6	3
TSD200-034	1.1/32	1.0938	6	3
TSD200-035	1.1/8	1.1250	6	3
TSD200-036	1.5/32	1.1563	6	3
TSD200-037	1.3/16	1.1875	6	3
TSD200-038	1.7/32	1.2188	6	3
TSD200-039	1.1/4	1.2500	6	3
TSD200-040	1.5/16	1.3125	6	3
TSD200-041	1.3/8	1.3875	6	3
TSD200-042	1.7/16	1.4375	6	3
TSD200-043	1.1/2	1.5000	6	3

Flats are for holding in 3-jaw drill chucks.
For use in stainless steel and other hard metal drilling applications.

Toll Free 1-866-437-7315
 Fax (780) 437-7328
 8821-60 Ave Edmonton,
 AB T6E 6L9

EMAIL :
SALES@NEWUSEDMACHINES.COM

WWW.NEWUSEDMACHINES.COM



REDUCED SHANK DRILL
General Purpose High Speed Steel
1/2" Shank - Silver & Deming
118 deg point

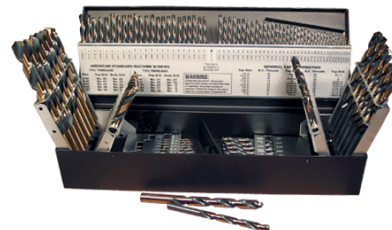
<u>Part#</u>	<u>Dia</u>	<u>Decimal</u> <u>Equiv.</u>	<u>O.A.L.</u>	<u>Flute</u> <u>Length</u>
TSD200-044	33/64	0.5156	6	3
TSD200-045	17/32	0.5315	6	3
TSD200-046	35/64	0.5469	6	3
TSD200-047	9/16	0.5625	6	3
TSD200-048	37/64	0.5781	6	3
TSD200-049	19/32	0.5938	6	3
TSD200-050	39/64	0.6094	6	3
TSD200-051	5/8	0.6250	6	3
TSD200-052	41/64	0.6406	6	3
TSD200-053	21/32	0.6563	6	3
TSD200-054	43/64	0.6719	6	3
TSD200-055	11/16	0.6875	6	3
TSD200-056	45/64	0.7031	6	3
TSD200-057	23/32	0.7188	6	3
TSD200-058	47/64	0.7344	6	3
TSD200-059	3/4	0.7500	6	3
TSD200-060	49/64	0.7656	6	3
TSD200-061	25/32	0.7813	6	3

<u>Part#</u>	<u>Dia</u>	<u>Dec.</u> <u>Equiv.</u>	<u>O.A.L.</u>	<u>Flute</u> <u>Length</u>
TSD200-062	51/64	0.7969	6	3
TSD200-063	13/16	0.8125	6	3
TSD200-064	53/64	0.8281	6	3
TSD200-065	27/32	0.8438	6	3
TSD200-066	55/64	0.8594	6	3
TSD200-067	7/8	0.8750	6	3
TSD200-068	57/64	0.8906	6	3
TSD200-069	29/32	0.9063	6	3
TSD200-070	59/64	0.9219	6	3
TSD200-071	15/16	0.9375	6	3
TSD200-072	61/64	0.9531	6	3
TSD200-073	31/32	0.9688	6	3
TSD200-074	63/64	0.9844	6	3
TSD200-075	1	1.0000	6	3
TSD200-076	1.1/16	1.0625	6	3
TSD200-077	1.1/8	1.1250	6	3
TSD200-078	1.5/32	1.1563	6	3
TSD200-079	1.3/16	1.1875	6	3
TSD200-080	1.1/4	1.2500	6	3

ALSO AVAILABLE IN SETS



TOLL FREE: 1-866-437-7315





TAPER SHANK DRILLS
High Speed Steel
Regular Shank Surface Treated

<u>Part#</u>	<u>Dia</u>	<u>Decimal Equiv.</u>	<u>O.A.L.</u>	<u>Taper Shank</u>	<u>Flute Length</u>
TSD300-000	1/8	0.1250	5 1/8	1	1 7/8
TSD300-001	9/64	0.1406	5 3/8	1	2 1/8
TSD300-002	5/32	0.1562	5 3/8	1	2 1/8
TSD300-003	11/64	0.1719	5 3/4	1	2 1/2
TSD300-004	3/16	0.1875	5 3/4	1	2 1/2
TSD300-005	13/64	0.2031	6	1	2 3/4
TSD300-006	7/32	0.2188	6	1	2 3/4
TSD300-007	15/64	0.2344	6 1/8	1	2 7/8
TSD300-008	1/4	0.2500	6 1/8	1	2 7/8
TSD300-009	17/64	0.2656	6 1/4	1	3
TSD300-010	9/32	0.2812	6 1/4	1	3
TSD300-011	19/64	0.2969	6 3/8	1	3 1/8
TSD300-012	5/16	0.3125	6 3/8	1	3 1/8
TSD300-013	21/64	0.3281	6 1/2	1	3 1/4
TSD300-014	11/32	0.3438	6 1/2	1	3 1/4
TSD300-015	23/64	0.3594	6 3/4	1	3 1/2
TSD300-016	3/8	0.3750	6 3/4	1	3 1/2
TSD300-017	25/64	0.3906	7	1	3 5/8
TSD300-018	13/32	0.4062	7	1	3 5/8
TSD300-019	27/64	0.4219	7 1/4	1	3 7/8
TSD300-020	7/16	0.4375	7 1/4	1	3 7/8
TSD300-021	29/64	0.4531	7 1/2	1	4 1/8
TSD300-022	15/32	0.4688	7 1/2	1	4 1/8
TSD300-023	31/64	0.4844	8 1/4	2	4 3/8
TSD300-024	1/2	0.5000	8 1/4	2	4 3/8
TSD300-025	33/64	0.5156	8 1/2	2	4 5/8
TSD300-026	17/32	17/32	8 1/2	2	4 5/8
TSD300-027	35/64	35/64	8 3/4	2	4 7/8
TSD300-028	9/16	0.5625	8 3/4	2	4 7/8
TSD300-029	37/64	0.5781	8 3/4	2	4 7/8
TSD300-030	19/32	0.5938	8 3/4	2	4 7/8

<u>Part#</u>	<u>Dia</u>	<u>Decimal Equiv.</u>	<u>O.A.L.</u>	<u>Taper Shank</u>	<u>Flute Length</u>
TSD300-031	39/64	0.6094	8 3/4	2	4 7/8
TSD300-032	5/8	0.6250	8 3/4	2	4 7/8
TSD300-033	41/64	0.6406	8 3/4	2	5 1/8
TSD300-034	21/32	0.6563	9	2	5 1/8
TSD300-035	43/64	0.6719	9	2	5 3/8
TSD300-036	11/16	0.6875	9 1/4	2	5 3/8
TSD300-037	45/64	0.7031	9 1/4	2	5 5/8
TSD300-038	23/32	0.7188	9 1/2	2	5 5/8
TSD300-039	47/64	0.7344	9 1/2	2	5 7/8
TSD300-040	3/4	0.7500	9 3/4	2	5 7/8
TSD300-041	49/64	0.7656	9 3/4	2	6
TSD300-042	25/32	0.7813	9 7/8	2	6
TSD300-043	51/64	0.7969	9 7/8	3	6 1/8
TSD300-044	13/16	0.8125	10 3/4	3	6 1/8
TSD300-045	53/64	0.8281	10 3/4	3	6 1/8
TSD300-046	27/32	0.8438	10 3/4	3	6 1/8
TSD300-047	55/64	0.8594	10 3/4	3	6 1/8
TSD300-048	7/8	0.8750	10 3/4	3	6 1/8
TSD300-049	57/64	0.8906	10 3/4	3	6 1/8
TSD300-050	29/32	0.9063	10 3/4	3	6 1/8
TSD300-051	59/64	0.9219	10 3/4	3	6 1/8
TSD300-052	15/16	0.9375	10 3/4	3	6 1/8
TSD300-053	61/64	0.9531	11	3	6 3/8
TSD300-054	31/32	0.9688	11	3	6 3/8
TSD300-055	63/64	0.9844	11	3	6 3/8
TSD300-056	1	1.0000	11	3	6 3/8
TSD300-057	1 1/64	1.0156	11 1/8	3	6 1/2
TSD300-058	1 1/32	1.0312	11 1/8	3	6 1/2
TSD300-059	1 3/64	1.0469	11 1/4	3	6 5/8
TSD300-060	1 1/16	1.0625	11 1/4	3	6 5/8
TSD300-061	1 5/64	1.0781	12 1/2	4	6 7/8



TAPER SHANK DRILLS
High Speed Steel
Regular Shank Surface Treated

<u>Part#</u>	<u>Dia</u>	<u>Decimal Equiv.</u>	<u>O.A.L.</u>	<u>Taper Shank</u>	<u>Flute Length</u>
TSD300-062	1 3/32	1.0938	12 1/2	4	6 7/8
TSD300-063	1 7/64	1.1094	12 3/4	4	7 1/8
TSD300-064	1 1/8	1.1250	12 3/4	4	7 1/8
TSD300-065	1 9/64	1.1406	12 7/8	4	7 1/4
TSD300-066	1 5/32	1.1563	12 7/8	4	7 1/4
TSD300-067	1 11/64	1.1719	13	4	7 3/8
TSD300-068	1 3/16	1.1875	13	4	7 3/8
TSD300-069	1 13/64	1.2031	13 1/8	4	7 1/2
TSD300-070	1 7/32	1.2188	13 1/8	4	7 1/2
TSD300-071	1 15/64	1.2344	13 1/2	4	7 7/8
TSD300-072	1 1/4	1.2500	13 1/2	4	7 7/8
TSD300-073	1 17/64	1.2656	14 1/8	4	8 1/2
TSD300-074	1 9/32	1.2813	14 1/8	4	8 1/2
TSD300-075	1 19/64	1.2969	14 1/4	4	8 5/8
TSD300-076	1 5/16	1.3125	14 1/4	4	8 5/8
TSD300-077	1 21/64	1.3281	14 1/4	4	8 3/4
TSD300-078	1 11/32	1.3438	14 3/8	4	8 3/4
TSD300-079	1 23/64	1.3594	14 3/8	4	8 7/8
TSD300-080	1 3/8	1.3750	14 1/2	4	8 7/8
TSD300-081	1 25/64	1.3906	14 1/2	4	9
TSD300-082	1 13/32	1.4063	14 3/4	4	9
TSD300-083	1 27/64	1.4219	14 3/4	4	9 1/8
TSD300-084	1 7/16	1.4375	14 7/8	4	9 1/8
TSD300-085	1 29/64	1.4531	14 7/8	4	9 1/4
TSD300-086	1 15/32	1.4688	15	4	9 1/4
TSD300-087	1 31/64	1.4844	15	4	9 3/8
TSD300-088	1 1/2	1.5000	16 3/8	4	9 3/8
TSD300-089	1 17/32	1.5313	16 5/8	4	9 3/8
TSD300-090	1 9/16	1.5625	16 7/8	5	9 5/8
TSD300-091	1 19/32	1.5938	17	5	9 7/8
TSD300-092	1 5/8	1.6250	17 1/8	5	10

<u>Part#</u>	<u>Dia</u>	<u>Decimal Equiv.</u>	<u>O.A.L.</u>	<u>Taper Shank</u>	<u>Flute Length</u>
TSD300-093	1 21/32	1.6563	17 1/8	5	10 1/8
TSD300-094	1 11/16	1.6875	17 1/8	5	10 1/8
TSD300-095	1 23/32	1.7188	17 1/8	5	10 1/8
TSD300-096	1 3/4	1.7500	17 1/8	5	10 1/8
TSD300-097	1 25/32	1.7813	17 1/8	5	10 1/8
TSD300-098	1 13/16	1.8125	17 1/8	5	10 1/8
TSD300-099	1 27/32	1.8438	17 1/8	5	10 1/8
TSD300-100	1 7/8	1.8750	17 1/8	5	10 3/8
TSD300-101	1 29/32	1.9063	17 3/8	5	10 3/8
TSD300-102	1 15/16	1.9375	17 3/8	5	10 3/8
TSD300-103	1 31/32	1.9688	17 3/8	5	10 3/8
TSD300-104	2	2.0000	17 3/8	5	10 3/8
TSD300-105	2 1/32	2.0313	17 3/8	5	10 3/8
TSD300-106	2 1/16	2.0625	17 3/8	5	10 1/4
TSD300-107	2 3/32	2.0938	17 3/8	5	10 1/4
TSD300-108	2 1/8	2.1250	17 3/8	5	10 1/4
TSD300-109	2 5/32	2.1563	17 3/8	5	10 1/4
TSD300-110	2 3/16	2.1875	17 3/8	5	10 1/4
TSD300-111	2 7/32	2.2188	17 3/8	5	10 1/8
TSD300-112	2 1/4	2.2500	17 3/8	5	10 1/8
TSD300-113	2 5/16	2.3125	17 3/8	5	10 1/8
TSD300-114	2 3/8	2.3750	17 3/8	5	10 1/8
TSD300-115	2 7/16	2.4375	18 3/4	5	11 1/4
TSD300-116	2 1/2	2.5000	18 3/4	5	11 1/4
TSD300-117	2 9/16	2.5625	19 1/2	5	11 7/8
TSD300-118	2 5/8	2.6250	19 1/2	5	11 7/8
TSD300-119	2 11/16	2.6875	20 3/8	5	12 3/4
TSD300-120	2 3/4	2.7500	20 3/8	5	12 3/4
TSD300-121	2 13/16	2.8125	21 1/8	5	13 3/8
TSD300-122	2 7/8	2.8750	21 1/8	5	13 3/8
TSD300-123	2 15/16	2.9375	21 3/4	5	14
TSD300-124	3	3.0000	21 3/4	5	14
TSD300-125	3 1/8	3.1250	24 1/2	6	14 5/8
TSD300-126	3 1/4	3.2500	24 1/2	6	15 1/2

Vega Cutting Tools

High Performance Taps for a variety of applications

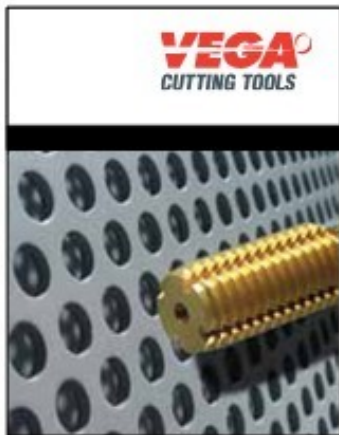
XHP-MB: Modified Bottoming Spiral Fluted Taps

- Spiral flute provides good chip evacuation in deep holes
- Free cutting geometry provides excellent tool life
- Available in both Steam Oxide Finish and TiN Coating



XHP-P: Plug Spiral Pointed Taps

- Spiral flute provides good chip evacuation
- Free cutting geometry provides excellent tool life
- Available in both Steam Oxide Finish and TiN Coating



XHP-MB Taps



XHP MODIFIED BOTTOMING SPIRAL FLUTED TAPS



Steam Oxide Finish - INCH

NOMINAL SIZE	TPI		NO. OF FLUTES	THREAD LIMITS								
	NC/UNC	NF/UNF		H2	H3	H4	H5	H6	H7	H8	H11*	
2	56		2	84623								
3	48		2	84600								
4	40		2	84601	84602	84629	84634					
		48	2	84683								
5	40		3	84603								
6	32		3	84604	84605	84636	84635	84659	84665			
		40	3	84684	84685							
8	32		3	84606	84607	84638	84637	84660	84667			
		36	3		84687							
10	24		3	84624	84609		84639	84690	84669			
		32	3	84611	84610	84630	84640	84662	84670			
12	24		3		84688							
		28	3		84689							
1/4	20		3		84613		84643		84673			89002
		28	3		84614	84631	84644	84664	84674			89004
5/16	18		3		84615		84645		84675			89006
		24	3		84616	84632	84646		84676			89008
3/8	16		3		84617		84647		84677			89010
		24	3		84618	84633	84648		84678			89012
7/16	14		3		84619		84649		84679			
		20	3		84620		84650	84691	84680			
1/2	13		3		84621		84651		84681			89014
		20	3		84622		84652	84692	84682			89016
9/16	12		3		84653							
		18	3		84654							
		24	3		84641							
5/8	11		3		84625		84655					89018
		18	3		84626		84656					89020
3/4	10		4		84627		84657					89022
		16	4		84628		84658		84686			89024
7/8	9		4			84695						
		14	4			84696		84694				
1	8		4			84697						
		12	4			84698						
1-1/8	7		4			84661		846616				
		12	4				846625					
1-1/4	7		4			84693		846936				
		12	4				846945					
1-3/8	6		4			84671			846716			
		12	4					846725				
1-1/2	6		4			84672			846726			
		12	4					846735				
1-3/4	5		5								846367	
2	4.5		5				84699				846997	

* H11 ... +0.005 Oversize

XHP-P Taps



XHP PLUG SPIRAL POINTED TAPS

Steam Oxide Finish - INCH



NOMINAL SIZE	TPI		NO. OF FLUTES	THREAD LIMITS						
	NC/UNC	NF/UNF		H2	H3	H4	H5	H6	H7	H8
2	56		2	82623						
3	48		2	82600						
4	40		2	82601	82602	82612	82634			
		48	2	82683						
5	40		3	82603						
6	32		3	82604	82605	82608	82635	82659	82665	
		40	3	82684						
8	32		3	82606	82607	82629	82637	82660	82667	
		36	3	82686				82693		
10	24		3		82609		82639	82690	82669	
		32	3	82611	82610	82630	82640	82661	82670	
12	24		3		82688					
		28	3	82689						
1/4	20		3		82613		82643		82673	
		28	3	82614	82631		82644	82662	82674	
5/16	18		3	82615			82645		82675	
		24	3	82616	82632		82646	82663	82676	
3/8	16		3	82617			82647			
		24	3	82618	82633		82648	82664	82678	
		32	3				82671	82672	82677	
7/16	14		3		82619		82649			
		20	3	82620			82650	82691	82680	
		24	3				82679			
1/2	13		3		82621		82651		82681	
		20	3	82622			82652	82692	82682	
9/16	12		3	82653						
		18	3	82654			82666			
5/8	11		3	82625			82655			
		18	3	82626	82636		82656	82694		
3/4	10		3	82627			82657			
		16	3	82628			82658			
7/8	9		3			82695				
		14	3			82696		82699		
1	8		3			82697				
		12	3			826984				
1-1/8	7		4					826616		
		12	4				826625			
1-1/4	7		4			82698		826986		
		12	4				826945			
1-3/8	6		4						826716	
		12	4					826725		
1-1/2	6		4						826726	
		12	4					826735		
1-3/4	5		4							826367
2	4.5		4							826997

XHP Modified Bottoming Taps TiN Coated - Spiral and Straight Fluted

Tap Size	NC	NF	Overall Length	Spiral Point	Spiral Flute
				Code	Code
4	40		1.875	TV82901	TV84901
6	32		2.000	TV82905	TV84905
8	32		2.125	TV82907	TV84907
10	24		2.375	TV82909	TV84909
		32	2.375	TV82910	TV84910
1/4	20		2.500	TV82913	TV84913
		28	2.500	TV82914	TV84914
5/16	18		2.719	TV82915	TV84915
		24	2.719	TV82916	TV84916
3/8	16		2.937	TV82917	TV84917
		24	2.937	TV82918	TV84918
7/16	14		3.157	TV82919	TV84919
		20	3.157	TV82920	TV84920
1/2	13		3.375	TV82921	TV84921
		20	3.375	TV82922	TV84922
5/8	11		3.813	TV82925	TV84925
		18	3.813	TV82926	TV84926
3/4	10		4.250	TV82927	TV84927
		16	4.250	TV82928	TV84928
7/8	9		4.687	TV82995	TV84995
1	8		5.125	TV82997	TV84997



THRU-HOLE



BLIND HOLE

RECOMMENDED USEABLE

- Stainless Steel
- Carbon Steel
- Alloy Steel
- Die Steel
- Cast Iron



THRU-HOLE

XLT - Extension Taps

Tap Size	NC	NF	Overall Length	Spiral Point	Spiral Flute
				Code	Code
4	40	-	6	TV82802	TV84802
6	32	-	6	TV82803	TV84803
8	32	-	6	TV82804	TV84804
10	24	-	6	TV82805	TV84805
	-	32		TV82806	TV84806
1/4	20	-	6	TV82807	TV84807
	-	28		TV82808	TV84808
5/16	18	-	6	TV82809	TV84809
	-	24		TV82810	TV84810
3/8	16	-	6	TV82811	TV84811
	-	24		TV82812	TV84812
1/2	13	-	6	TV82815	TV84815
	-	20		TV82816	TV84816

HSSE Vanadium
Bright Finish



BLIND HOLE

TOLL FREE: 1-866-437-7315

XHP - Pipe Taps

- Excellent performance in steel, stainless steel and cast iron
- Free cutting geometry provides excellent tool life
- 15° spiral flute for good chip evacuation
- Sizes ranging from 1/16"-27 to 1"-11.5



Size	TPI	Code	Shank Dia	O.A.L.
1/16	27	TV83640	.3125	2.1250
1/8	27	TV83641	.4375	2.1250
1/8	27	TV83642	.3125	2.1250
1/4	18	TV83643	.5625	2.4375
3/8	18	TV83644	.7000	2.5625
1/2	14	TV83645	.6875	3.1250
3/4	14	TV83646	.9063	3.250
1	11.5	TV83647	1.1250	3.7500

15° Spiral Fluted Taps

HSSE Vanadium
Steam Oxide Finish

Stainless Steel
Carbon Steel
Alloy Steel
Die Steel

RECOMMENDED USEABLE

XCM Mold Pipe Taps

- Excellent performance in steel and tool steels up to 38 RC
- Special geometry provides excellent strength in difficult tool steels
- Straight flutes provide strong cutting edge
- Sizes ranging from 1/8"-27 to 3/4"-14



Size	TPI	Code	Shank Dia	O.A.L.
1/8	27	TV89641	.4375	2.1250
1/4	18	TV89643	.5625	2.4375
3/8	18	TV89644	.7000	2.5625
1/2	14	TV89645	.6875	3.1250
3/4	14	TV89646	.9063	3.250

XCM-M (P) Straight Flute Pipe Taps

HSS Cobalt
Nitride Finish

Die Steel
Alloy Steel
Cast Iron
Carbon Steel

RECOMMENDED USEABLE

orderdesk@newusedmachines.com

TOLL FREE: 1-866-437-7315



XEN Taps for Nickel Based Alloys

Alloy Steel
 Nickel Base Alloy
 Tool Steel
 Stainless Steel
 17-4 PH

- Excellent performance in Inconel, Hastalloy and other exotic materials
- Free cutting geometry provides excellent tool life
- Spiral point provides good chip evacuation
- Sizes ranging from 2-56 to 3/4"-16 in inch sizes and M3x0.5 to M12x1.75 in metric sizes

Spiral Pointed Taps
 HSSE V-Co Powdered Metal
 Steam Oxide

Inch Sizes

Tap Size	NC	NF	Overall Length	Spiral Point	Spiral Flute
				Code	Code
4	40		1.875	TV85501	TV87501
6	32	-	2.000	TV85505	TV87505
8	32	-	2.125	TV85507	TV87507
10	24	-	2.375	TV85509	TV87509
	-	32		TV85510	TV87510
1/4	20	-	2.500	TV85513	TV87513
	-	28		TV85514	TV87514
5/16	18	-	2.719	TV85515	TV87515
	-	24		TV85516	TV87516
3/8	16	-	2.937	TV85517	TV87517
	-	24		TV85518	TV87518
7/16	14	-	3.157	TV85519	TV87519
	-	20		TV85520	TV87520
1/2	13	-	3.375	TV85521	TV87521
	-	20		TV85522	TV87522
5/8	11	-	3.813	TV85525	TV87525
	-	18		TV85526	TV87526
3/4	10	-	4.250	TV85527	TV87527
	-	16		TV85528	TV87528



BLIND HOLE



THRU-HOLE

Excellent performance in Inconel, Hastelloy and other exotic metals. Free cutting geometry provides excellent tool life.

Metric Sizes

Nominal Size	TPI	Spiral Point		Spiral Flute Code
		Code	Price	
M3	0.50	TV75515	\$18.79	TV77515
M4	0.70	TV75517	\$15.53	TV77517
M5	0.80	TV75519	\$15.92	TV77519
M6	1.00	TV75520	\$20.15	TV77520
M8	1.25	TV75523	\$22.04	TV77523
M10	1.50	TV75525	\$31.78	TV77525
M12	1.75	TV75527	\$36.87	TV77527

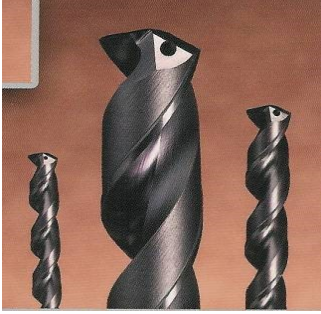


TOLL FREE: 1-866-437-7315

XCD Rapid Feed Drills

General Purpose
High Feed Drilling

Coolant Through
HSS Cobalt
TiAlN Coating



- All drills are jobbers length for deep holes
- Ground between centers (.0008" T.I.R) means straight, accurate holes
- Coolant-through for accelerated speeds & feeds
- Self-centering point geometry eliminates the need for a center drill
- HSS/cobalt means excellent tool durability in deep holes (>5 x D)



Size	Code	Flute Length	Overall Length	Shank Dia
3/16"	TV10050	2-5/16"	3-3/4"	.1875
7/32"	TV10054	2-1/2"	4-5/16"	.2188
1/4"	TV10016	2-3/4"	4-9/16"	.2500
9/32"	TV10018	2-7/8"	4-11/16"	.2812
5/16"	TV10020	3-3/16"	5"	.3125
11/32"	TV10022	3-5/16"	5-1/4"	.3438
3/8"	TV10024	3-5/8"	5-7/16"	.3750
13/32"	TV10026	3-7/8"	5-31/32"	.4062
7/16"	TV10028	4-1/16"	6-5/32"	.4375
15/32"	TV10030	4-5/16"	6-13/16"	.4688
1/2"	TV10032	4-1/2"	6-19/32"	.5000

Size	Code	Flute Length	Overall Length	Shank Dia
17/32"	TV10034	4-13/16"	7-3/16"	.6250
9/16"	TV10036	4-13/16"	7-3/16"	.6250
19/32"	TV10038	5-3/16"	7-9/16"	.6250
5/8"	TV10040	5-3/16"	7-9/16"	.6250
21/32"	TV10042	5-3/16"	7-27/32"	.7500
43/64"	TV10083	5-5/8"	8-9/32"	.7500
11/16"	TV10044	5-5/8"	8-9/32"	.7500
45/64"	TV10085	5-5/8"	8-9/32"	.7500
23/32"	TV10046	5-5/8"	8-9/32"	.7500
47/64"	TV10088	5-7/8"	8-17/32"	.8750
3/4"	TV10048	5-7/8"	8-11/32"	.7500

Carbide Thread Mills

Non-Ferrous
Carbon Steel
Stainless Steel



Spiral Fluted
Solid Carbide
TiAlN Coating

Thread Dia.	TPI	Cut Dia.	Overall Length	Cut Length	Shank Dia.	Code
1/4	20	.160	1.978	.4000	.250	TV52002
	28	.177	1.971	.3930		TV53002
3/8	16	.246	2.141	.5630	.250	TV52007
	24	.246	2.078	.5000		TV53005
1/2	13	.350	2.756	.8500	.375	TV52001
	20	.334	2.706	.8000		TV53001
5/8	11	.448	3.141	1.0000	.500	TV52009
	18	.444	3.141	1.0000		TV53006
3/4	10	.567	3.090	1.2000	.625	TV52006
	16	.614	3.765	1.5000		TV53004

- Free cutting 30 degree helix for quiet, chatter-free cuts and excellent tool life
- All tools feature thread lengths of 1.5 x nominal thread diameter for excellent versatility
- Optimized shank lengths ensure a stable, chatter free cut
- Sub-micro grain substrate with cobalt for excellent wear resistance combined with outstanding edge toughness

ULTRATOOL Variable Geometry End Mill with Patented "Tuned Flute"

Series 323 • Patented Tuned Flute
Ultra-Grain® Variable Geometry End Mill
new! 4 "Tuned-Flutes" with Radius
& SmoothCoat® AT



ULTRATOOL
PERFORMANCE

The Ultra-Tool® Series 323 "Tuned Flute" represents a culmination of design, features, and execution. Our unique patented version of a variable geometry configuration offers industry-leading chatter & vibration reduction, superb part finish, and deep axial cuts. The 323 is ideal for slotting and pocketing, and the same end mill can be utilized for roughing and finishing. Each 323 Tuned Flute is standard with radius & Tool Alliance's proprietary AT coating, and is precision ground from a specialized Ultra-Grain® carbide grade. Most importantly, the Series 323 Tuned Flute benefits from the Tool Alliance® triad of proprietary & value-added features: SmoothGrind®, SmoothCoat® & SmoothConcricity®.

NOTE: The 323TF is designed for maximizing Axial Depth of Cut, and maximizes geometry when used at up to approximately 75% LOC.

This product is manufactured under U.S. Patent No. 7,284,935.

A word about Tool Holding: The 323 Tuned Flute is capable of very high metal removal rates. Shrink fit or milling chuck holders are preferred methods of secure and concentric tool holding. If a set screw style holder must be used, all Series 323 end mills 1/2" and larger in diameter are manufactured with a flat as a standard feature.



1/2"
& up.



Slot Milling



Pocket Milling



Peripheral Milling



Series 323 Tuned Flute.
Surface Feet Per Minute (SFPM) and Feed Per Tooth (FPT)
recommendations by tool diameter and material:

SFR 323 Series End Mill Specs:
Cutting Diam +.000/-0C2
Shank Diam -.0001A-.0003



Diam	LOC	OAL	Shank	Radius	EDP#
1/8	3/8	1-1/2"	1/8	.010	23008
3/16	7/16	2"	3/16	.010	23012
1/4	3/8	2"	1/4	.015	23015
1/4	3/4	2-1/2	1/4	.015	23016
5/16	13/16	2-1/2	5/16	.020	23020
3/8	1/2	2"	3/8	.020	23023
3/8	1"	2-1/2	3/8	.020	23024
7/16	1"	2-3/4	7/16	.020	23028
1/2	5/8	2-1/2	1/2	.030	23031
1/2	1-1/4	3"	1/2	.030	23032
5/8	1-1/4	3-1/2	5/8	.030	23040
3/4	7/8	4"	3/4	.030	23047
3/4	1-1/2	4"	3/4	.030	23048
1"	1-1/2	4"	1"	.030	23064

SFR 323 Series End Mill Specs- Metric
Cutting Diam -0.000/-0.051mm
Shank Diam -0.002/-0.003mm

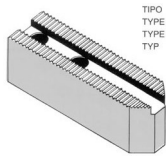


Diam	LOC	OAL	Shank	Radius	EDP#
3.0mm	12	38	3.0	0.2	23080
4.0mm	14	50	4.0	0.2	23081
5.0mm	16	50	5.0	0.3	23082
6.0mm	19	50	6.0	0.3	23083
8.0mm	20	63	8.0	0.3	23084
10.0mm	22	70	10.0	0.5	23085
12.0mm	16	74	12.0	0.5	23086
12.0mm	30	74	12.0	0.5	23087
14.0mm	32	89	14.0	0.5	23088
16.0mm	38	89	16.0	0.5	23089
20.0mm	38	100	20.0	0.5	23090
25.0mm	38	100	25.0	0.5	23091

Material	SFPM	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	5/8"	3/4"	1"
Steel											
1018 / 1020	400 to 600	.0007	.0012	.0015	.0018	.002	.0025	.003	.0035	.004	.0045
4140	350 to 500	.0005	.001	.0012	.0015	.0018	.0022	.0025	.003	.0035	.004
Stainless Steel											
303	400 to 600	.0007	.001	.0012	.0015	.002	.0025	.003	.0035	.004	.004
304 / 316	300 to 500	.0006	.0008	.001	.0012	.0018	.0022	.0025	.003	.0035	.0038
410 / 420	300 to 500	.0006	.0008	.001	.0012	.0018	.0022	.0025	.003	.0035	.0038
15-5 / 17-4	250 to 400	.0006	.0008	.001	.0012	.0018	.0022	.0025	.003	.0035	.0038
13-8 / 316L	250 to 350	.0005	.0007	.0008	.001	.0012	.0015	.002	.0025	.003	.0035
Tool Steel											
A2 / D2 / H13 / P20	350 to 500	.0005	.0008	.001	.0012	.0018	.0022	.0025	.003	.0035	.0035
Titanium											
6Al-4V	150 to 250	.0005	.0008	.001	.001	.0012	.0018	.002	.002	.003	.003
High Temp Alloys											
Inconel 625	100 to 150	.0005	.0008	.001	.001	.0012	.0015	.002	.002	.0025	.003
Inconel 718	75 to 125	.0005	.0007	.0008	.0009	.0012	.0015	.002	.002	.0025	.0025



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Power Chuck Serrated Jaws

For Kitagawa style and other Power Chucks!



JAW TYPE- 1.5 x 60 serrations

STANDARD HEIGHT

<u>CHUCK SIZE</u>	<u>PART #</u>
8"	TSK 132139
10"	TSK 132140
12"	TSK 132131
15"	TSK 132132

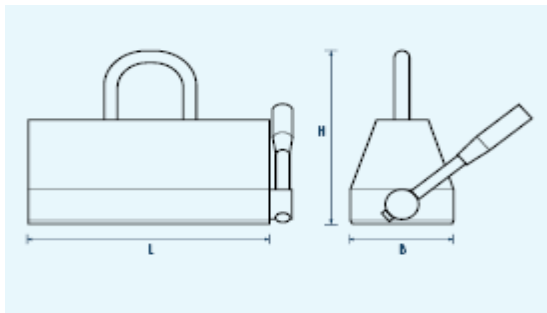
EXTRA HEIGHT

<u>CHUCK SIZE</u>	<u>PART #</u>
12" (B212) 80M H	TSK 132154
12" (B212) 100M H	TSK 132148
15" (B215) 120M H	TSK132156

HARD JAWS

<u>CHUCK SIZE</u>	<u>PART #</u>
8"	TSK 133-109
10"	TSK 133-111
12"	TSK 133-105
15"	TSK 133-114

LIFTING MAGNETS



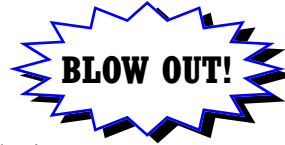
Type	Part No.	Nominal Dimensions (mm)			Nominal Holding Force Flat	Nominal Holding Force Round
		L	B	H		
MHM-IT- 125	0421000	93	60	110	125kg (250lbs)	40kg (80lbs)
MHM-IT-250	0421001	152	100	164	250kg (550lbs)	125kg (275lbs)
MHM-IT-500	0421002	246	120	164	500kg (1100lbs)	250kg (550lbs)
MHM-IT-1000	0421003	305	140	216	1000kg (2200lbs)	500kg (1100lbs)
MHM-IT-2000	0421004	480	165	251	2000kg (4400lbs)	1000kg (2200lbs)

Other jaw types and sizes along with other work holding tooling available for quick delivery from Schunk Canada!

LMI Industrial Tooling & Supply Center is the leading Western Canadian supplier for Chuck jaws!
Soft jaws, Hard jaws, Pie Jaws, Specials and accessories.

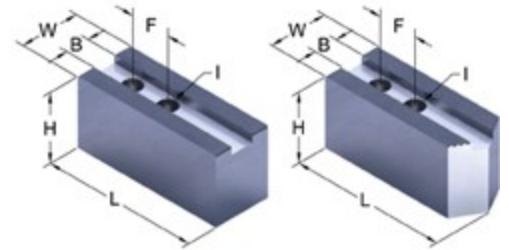


We stock over \$10,000.00 worth of jaws for all types and sizes of chucks; hydraulic, pneumatic and manual.



JAWS
Huron offers over 4,000 different styles of Soft Jaws, Hard Jaws, Full Grips, Jaw Nuts, Keys, etc. to fit most foreign and domestic chucks.

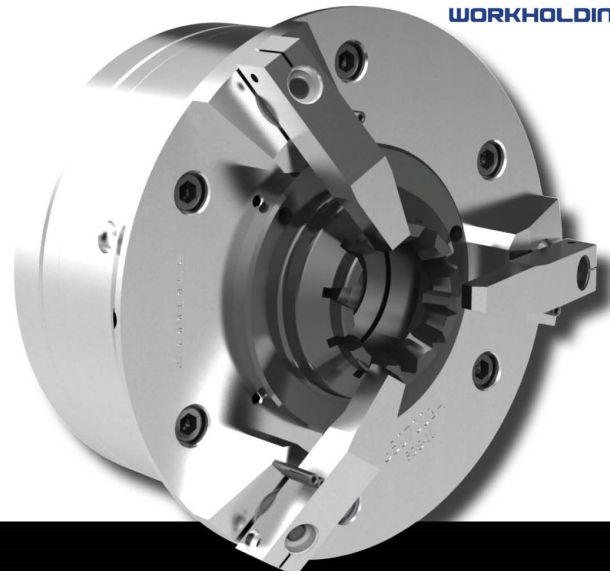
H&R Mfg. and Supply, Inc is an industry leader in the design and manufacturing of standard and special chucks, both hard and soft jaws and other custom holding devices to fit any special requirements. We proudly maintain that all H&R products and manufacturing are *Made in America*



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| SOWA TOOL | ITW WORK HOLDING |
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LMI Machinery is your complete Retention Knob / Pull Stud source to service your requirements. We can supply over 500 different varieties of retention knobs that is manufactured to U.S., German and Japanese standards as well as a myriad of specials. LMI Machinery is the leader in supplying certified, quality Retention Knobs and Pull Studs.

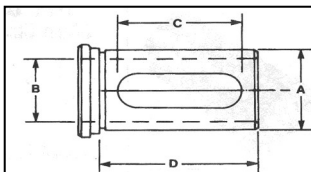
LMI has a multitude of retention knob/ pull studs in stock for all makes and models
Call today !



VDI TOOLHOLDERS



SLOTTED STYLE

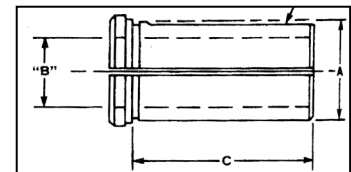


Code	A(in)	B (in)	C(in)	D(in)
TGL86-12C	1-1/4	3/8,1/2,3/4,1	2-3/4	3-1/4
TGL86-13C	1-1/2	3/8,1/2,3/4,1,1-1/4	3	3-3/8
TGL86-14C	1-3/4	1/2,3/4,1,1-1/4,1-1/2	3-1/8	3-1/2
TGL86-15C	2	1/2,3/4,1,1-1/4,1-1/2,1-3/4	3-5/8	4
TGL86-16C	2-1/2	3/4,1,1-1/4,1-1/2,1-3/4,2,2-1/4	4-1/8	4-1/2

BUSHINGS

Designed for universal use on all CNC machines.
Precision machined, hardened then ground to be concentric

SPLIT STYLE



Code	A(in)	B (in)	C(in)
TGL86-12B	1-1/4	3/8,1/2,3/4,1	2-1/8
TGL86-03B	1-1/2	3/8,1/2,3/4,1,1-1/4	2-1/2
TGL86-04B	1-3/4	1/2,3/4,1,1-1/4,1-1/2	3
TGL86-05B	2	1/2,3/4,1,1-1/4,1-1/2,1-3/4	3-1/2
TGL86-06B	2-1/2	3/4,1,1-1/4,1-1/2,1-3/4,2,2-1/4	4



LAMARCHE
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MACHINERY INC.



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WATER SOLUBLE COOLANT

SOLUABLE OIL COOLANT

SEMI SYNTHETIC COOLANT

FULL SYNTHETIC COOLANT

WAYLUBE

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HYDRAULIC OIL

GEAR OIL

GREASE

NEAT OIL

NEAT OIL

ANTICORITIS/RUST INHIBITORS



NO DRUM DEPOSIT ON 205L DRUMS
NO DELIVERY CHARGES ON ALL FUCHS
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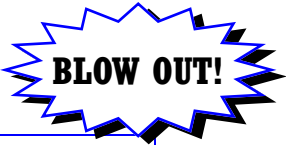


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- Is the leading manufacturer of metalworking fluids
- Is the leading manufacturer of corrosion preventatives
- Is the leading manufacturer of biodegradable lubricants
- Is a leading manufacturer of forging lubricants
- Is a leading manufacturer of greases
- Provides leading edge petroleum oil replacement technology for stamping and cutting fluids
- Provides leading edge chlorinated paraffin replacement technology for stamping and cutting fluids
- Provides leading edge technology to reduce cutting and stamping fluid emissions
- Is a leading supplier of Automotive OEM BIW approved stamping lubricants
- Manufactures aerospace OEM approved cutting fluids
- Manufactures over 150 different types of greases
- Manufactures OEM approved specialty greases
- Manufactures the most comprehensive industrial lubricants and chemicals product line in the industry



Metal cutting and industrial lubricants



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Skimpy Standard Belt Oil Skimmer

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TCC 2009	1.18" x 9"
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BLOW OUT!



1.18" wide polyurethane belt reinforced with

Two sealed ball bearings on driver pulley

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