

Cutting Tools

ToolMasters offers an unsurpassed selection of standard cutting tools to the plastics, non-ferrous and woodworking industries.



TOOLMasters LLC.™

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THANK YOU

Thank you for asking for a look at our products. We believe that we make some of the best cutting tools you will find made in the United States. And just as important to us, we whole-heartedly believe in providing you with the finest possible service. So try our company. Call us with questions. We believe we will win you over immediately!

ORDERING & SHIPPING

When ordering, please state how you want the material shipped. If your order does not include shipping instructions, we will ship as we consider best--U.P.S. for all orders weighing less than 70 pounds and by freight for 70 pounds or more.

When you order tools, please list tool number, size, quantity, and complete data as described with each tool in this catalog. Always allow time for delivery by anticipating your tool requirements.

TERMS

There are price sheets for all items appearing in the catalog. The prices are shown in USA funds, F.O.B. Plant. Prices and discounts are subject to change without notice. Terms are 30 days net. Visa and Mastercard are accepted. All other terms and conditions per ToolMasters LLC publication TC-100.

Solid Carbide Compression Spirals

PART NUMBER	CUTTING DIAMETER	CUTTING LENGTH	SHANK DIAMETER	OVERALL LENGTH
034-1234	3/8"	1-1/8"	3/8"	2-1/2"
034-1634	1/2"	1-1/8"	1/2"	3"
034-1650	1/2"	1-5/8"	1/2"	3-1/2"
034-2050	5/8"	1-1/8"	5/8"	4"
034-2448	3/4"	1-1/2"	3/4"	4"

DOUBLE FLUTE UP/DOWN COMPRESSION SPIRAL 034-S.C.

Purposely designed for cutting double laminates to prevent chipping of top and bottom of board. Used mainly on CNC routers.



PART NUMBER	CUTTING DIAMETER	CUTTING LENGTH	SHANK DIAMETER	OVERALL LENGTH
038-0824	1/4"	3/4"	1/4"	2-1/2"
038-1232	3/8"	1"	3/8"	2-1/2"
038-1632	1/2"	1"	1/2"	3"

SINGLE FLUTE UP/DOWN COMPRESSION SPIRAL 038-S.C.

Purposely designed for cutting double laminates to prevent chipping of top and bottom of board. Used mainly on CNC routers.



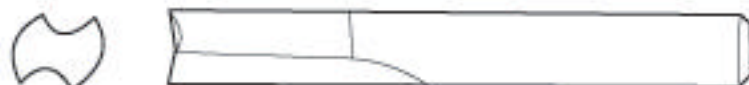
Solid Carbide Cutters

PART NUMBER	CUTTING DIAMETER	CUTTING LENGTH	SHANK DIAMETER	OVERALL LENGTH
004-0824-000P	1/4"	3/4"	1/4"	2-1/2"
004-0833-000P	1/4"	1"	1/4"	2-1/2"
004-1232-000P	3/8"	1"	3/8"	2-1/2"
004-1632-000P	1/2"	1"	1/2"	3"

DOUBLE FLUTE "O"

004-S.C.

Designed for cutting "O" flute geometrically for smooth finishing in plastics and wood composites.



Solid Carbide Cutters

TRIPLE FLUTE FINISHING UPCUT

007-S.C.

Used for smooth finishing of acrylics, specially formulated PVC material and aluminum laminates.



PART NUMBER	CUTTING DIAMETER	CUTTING LENGTH	SHANK DIAMETER	OVERALL LENGTH
007-0824	1/4"	3/4"	1/4"	2-1/2"
007-1232	3/8"	1"	3/8"	2-1/2"
007-1632	1/2"	1-1/4"	1/2"	3"

TRIPLE FLUTE DOWNCUT

008-S.C.

Designed for cutting wide variety of plastics to attain a smooth finish of acrylics, hard and durable plastics.



PART NUMBER	CUTTING DIAMETER	CUTTING LENGTH	SHANK DIAMETER	OVERALL LENGTH
008-0417-000P	1/8"	3/8"	1/4"	2"
008-0621-000P	3/16"	5/8"	1/4"	2"
008-0824-000P	1/4"	3/4"	1/4"	2-1/2"
008-1232-000P	3/8"	1"	3/8"	2-1/2"
008-1632-000P	1/2"	1-1/8"	1/2"	3"

TRIPLE FLUTE DOWNCUT DURA-PLUS COATED

008-S.C.

Designed for cutting wide variety of plastics, with special TOOLMASTERS Z100 coating for longer tool life, to attain smooth finish of acrylics, hard and durable plastics.



PART NUMBER	CUTTING DIAMETER	CUTTING LENGTH	SHANK DIAMETER	OVERALL LENGTH
008-0417-Z10P	1/8"	3/8"	1/4"	2"
008-0621-Z10P	3/16"	5/8"	1/4"	2"
008-0824-Z10P	1/4"	3/4"	1/4"	2-1/2"
008-1232-Z10P	3/8"	1"	3/8"	2-1/2"
008-1632-Z10P	1/2"	1-1/8"	1/2"	3"

FOUR FLUTE UPCUT

039-S.C.

Tool designed for cutting fiberglass laminates and other similar composites such as aluminum fiberglass laminates for smooth finishing.



PART NUMBER	CUTTING DIAMETER	CUTTING LENGTH	SHANK DIAMETER	OVERALL LENGTH
039-0824	1/4"	3/4"	1/4"	2-1/2"
039-1232	3/8"	1"	3/8"	2-1/2"
039-1632	1/2"	1"	1/2"	3"

Solid Carbide Cutters

PART NUMBER	CUTTING DIAMETER	CUTTING LENGTH	SHANK DIAMETER	OVERALL LENGTH
040-0824	1/4"	3/4"	1/4"	2-1/2"
040-1232	3/8"	1"	3/8"	2-1/2"
040-1632	1/2"	1"	1/2"	3"

FOUR FLUTE DOWNCUT

040-S.C.



PART NUMBER	CUTTING DIAMETER	CUTTING LENGTH	SHANK DIAMETER	OVERALL LENGTH
041-0208	1/16"	1/4"	1/4"	2"
041-0416	1/8"	1/2"	1/4"	2"
041-0416-000P	1/8"	1/2"	1/4"	2"
041-0518	5/32"	9/16"	1/4"	2"
041-0616	3/16"	1/2"	1/4"	2"
041-0616-000P	3/16"	1/2"	1/4"	2"
041-0720	7/32"	5/8"	1/4"	2"
041-0824	1/4"	3/4"	1/4"	2-1/2"
041-0824-000P	1/4"	3/4"	1/4"	2-1/2"
041-1032	5/16"	1"	5/16"	2-1/2"
041-1032-000P	5/16"	1"	5/16"	2-1/2"
041-1232	3/8"	1"	3/8"	2-1/2"
041-1232-000P	3/8"	1"	3/8"	2-1/2"

SINGLE "O" FLUTE

041-S.C.

Used as a free-cutting tool for abrasive wood composites and plastics. Example: Polycarbonate, PVC, ABS plastic.



*Denotes steel shank/Not guaranteed because of long cutting edge.

PART NUMBER	CUTTING DIAMETER	CUTTING LENGTH	SHANK DIAMETER	OVERALL LENGTH
042-0310	3/32"	5/16"	1/4"	2"
042-0417	1/8"	1/2"	1/4"	2"
042-0518	5/32"	9/16"	1/4"	2"
042-0621	3/16"	5/8"	1/4"	2"
042-0824	1/4"	3/4"	1/4"	2-1/2"
042-1031	5/16"	3/4"	5/16"	2-1/2"
042-1224	3/8"	3/4"	3/8"	2-1/2"
042-1632	1/2"	1"	1/2"	3"

DOUBLE "V" FLUTE

042-S.C.



*Not guaranteed because of long cutting edge.

*Denotes steel shank.

Solid Carbide Cutters

SINGLE FLUTE UPCUT

043-S.C.



PART NUMBER	CUTTING DIAMETER	CUTTING LENGTH	SHANK DIAMETER	OVERALL LENGTH
* 043-0417	1/8"	1/2"	1/4"	2"
* 043-0518	5/32"	9/16"	1/4"	2"
043-0621	3/16"	5/8"	1/4"	2"
043-0824	1/4"	3/4"	1/4"	2-1/2"
043-1028	5/16"	7/8"	5/16"	2-1/2"
043-1228	3/8"	7/8"	3/8"	2-1/2"

*Not guaranteed because of long cutting edge

SINGLE FLUTE DOWNCUT

044-S.C.



PART NUMBER	CUTTING DIAMETER	CUTTING LENGTH	SHANK DIAMETER	OVERALL LENGTH
* 044-0417	1/8"	1/2"	1/4"	2"
* 044-0621	3/16"	5/8"	1/4"	2"
044-0824	1/4"	3/4"	1/4"	2-1/2"
044-1028	5/16"	7/8"	5/16"	2-1/2"
044-1228	3/8"	7/8"	3/8"	2-1/2"

*Not guaranteed because of long cutting edge

DOUBLE FLUTE UPCUT

045-S.C.



PART NUMBER	CUTTING DIAMETER	CUTTING LENGTH	SHANK DIAMETER	OVERALL LENGTH
* 045-0417	1/8"	1/2"	1/4"	2"
045-0621	3/16"	5/8"	1/4"	2"
045-0824	1/4"	3/4"	1/4"	2-1/2"
045-1026	5/16"	13/16"	5/16"	2-1/2"
045-1228	3/8"	7/8"	3/8"	2-1/2"
045-1632	1/2"	1-1/4"	1/2"	3"

*Not guaranteed because of long cutting edge

DOUBLE FLUTE DOWNCUT

046-S.C.



PART NUMBER	CUTTING DIAMETER	CUTTING LENGTH	SHANK DIAMETER	OVERALL LENGTH
* 046-0417	1/8"	1/2"	1/4"	2"
046-0621	3/16"	5/8"	1/4"	2"
046-0824	1/4"	3/4"	1/4"	2-1/2"
046-1228	3/8"	7/8"	3/8"	2-1/2"
046-1632	1/2"	1-1/4"	1/2"	3"

*Not guaranteed because of long cutting edge

Solid Carbide Cutters

PART NUMBER	CUTTING DIAMETER	CUTTING LENGTH	SHANK DIAMETER	OVERALL LENGTH
* 0078-0824-T100	1/4"	3/4"	1/4"	3-1/2"
0078-0832-T100	1/4"	1"	1/4"	3-1/2"

*Denotes ballbearing guide
T100 = TiCN coated

STAINLESS STEEL TRIM BIT - 6 FLUTE 0078-S.S.

Our 6 flute tool is designed to cut stainless steel laminates, leaving a super clean finish.



High Speed Steel Cutters

PART NUMBER	SMALL DIAMETER	CUTTING LENGTH	SHANK DIAMETER	OVERALL LENGTH
009-0001	.081"	13/16"	.098"	2"
009-0002	.110"	7/8"	.128"	2-1/4"
009-0003	.165"	1-1/16"	.187"	2-1/2"
009-0004	.224"	1-1/4"	.250"	2-3/4"

TAPER PIN ROUTER BITS 009-H.S.S.

Used primarily in aircraft assembly operations. Used in aluminum.



PART NUMBER	CUTTING DIAMETER	CUTTING LENGTH	SHANK DIAMETER	OVERALL LENGTH
010-0412	1/8"	3/8"	1/4"	1-5/8"
010-0412-000P	1/8"	3/8"	1/4"	1-5/8"
010-0620	3/16"	5/8"	1/4"	2"
010-0620-000P	3/16"	5/8"	1/4"	2"
010-0832	1/4"	1"	1/4"	2-1/2"
010-0832-000P	1/4"	1"	1/4"	2-1/2"
010-1234	3/8"	1"	1/2"	2-1/2"
010-1234-000P	3/8"	1"	1/2"	2-1/2"
010-1640	1/2"	1-1/4"	1/2"	3"
010-1640-000P	1/2"	1-1/4"	1/2"	3"

DOUBLE "O" FLUTE 010-H.S.S.

"O" flute design used in cutting soft, flexible plastics for a smoother surface finish. 000P-Denotes special plunge points for plastics.



High Speed Steel Cutters

SINGLE "O" FLUTE

011-H.S.S.

Designed with large open flute to provide more chip room, to provide chip removal at fast feed rates for soft and hard plastics. 000P-Denotes special plunge points for plastics.



PART NUMBER	CUTTING DIAMETER	CUTTING LENGTH	SHANK DIAMETER	OVERALL LENGTH
011-0206	1/16"	3/16"	1/4"	1-5/8"
011-0309	3/32"	9/32"	1/4"	1-5/8"
011-0412	1/8"	3/8"	1/4"	1-5/8"
011-0632	3/16"	1"	1/4"	2-1/2"
011-0632-000P	3/16"	1"	1/4"	2-1/2"
011-0824	1/4"	3/4"	1/4"	2-1/2"
011-0824-000P	1/4"	3/4"	1/4"	2-1/2"
011-0833	1/4"	1"	1/4"	3"
011-0833-000P	1/4"	1"	1/4"	3"
011-0840	1/4"	1-1/4"	1/4"	3"
011-0840-000P	1/4"	1-1/4"	1/4"	3"
011-1233	3/8"	1"	3/8"	3"
011-1233-000P	3/8"	1"	3/8"	3"
011-1665	1/2"	2"	1/2"	4"
011-1665-000P	1/2"	2"	1/2"	4"

DOUBLE "V" FLUTE

012-H.S.S.

A balanced tool to produce a smoother finish. Used in medium to hard woods and non-abrasive plastics.



PART NUMBER	CUTTING DIAMETER	CUTTING LENGTH	SHANK DIAMETER	OVERALL LENGTH
012-0412	1/8"	3/8"	1/4"	1-5/8"
012-0624	3/16"	3/4"	1/4"	2"
012-0632	3/16"	1"	1/4"	2-1/2"
012-0820	1/4"	5/8"	1/4"	2"
012-0824	1/4"	3/4"	1/4"	2"
012-0832	1/4"	1"	1/4"	2-1/2"
012-0833	1/4"	1"	1/4"	3"
012-0840	1/4"	1-1/4"	1/4"	3"
012-0848	1/4"	1-1/2"	1/4"	3"
012-0864	1/4"	2"	1/4"	3-1/2"
012-0825	1/4"	3/4"	1/2"	2-1/2"
012-0841	1/4"	1-1/4"	1/2"	3"
012-0932	9/32"	1"	1/4"	2-1/2"
012-1033	5/16"	1"	5/16"	2-1/2"
012-1034	5/16"	1"	1/2"	2-1/2"
012-1048	5/16"	1-1/2"	1/2"	3"
012-1233	3/8"	1"	3/8"	2-1/2"
012-1235	3/8"	1"	1/2"	2-1/2"
012-1264	3/8"	2"	1/2"	3-1/2"
012-1440	7/16"	1-1/4"	1/2"	3"
012-1640	1/2"	1-1/4"	1/2"	3"
012-1648	1/2"	1-1/2"	1/2"	3"
012-1664	1/2"	2"	1/2"	3-1/2"
012-2040	5/8"	1-1/4"	1/2"	3"
012-2440	3/4"	1-1/4"	1/2"	3"
012-2464	3/4"	2"	1/2"	3-1/2"
012-2840	7/8"	1-1/4"	1/2"	3"
012-3240	1"	1-1/4"	1/2"	3"
012-4040	1-1/4"	1-1/4"	1/2"	3"
012-4840	1-1/2"	1-1/4"	1/2"	3"

High Speed Steel Cutters

PART NUMBER	CUTTING DIAMETER	CUTTING LENGTH	SHANK DIAMETER	OVERALL LENGTH
013-0824 (LH)	1/4"	3/4"	1/2"	2-1/8"
014-0824 (RH)	1/4"	3/4"	1/2"	2-1/8"
013-1024 (LH)	5/16"	3/4"	1/2"	2-1/8"
014-1024 (RH)	5/16"	3/4"	1/2"	2-1/8"

DOUBLE FLUTE "LOUVER SLOTTING"

013/014-H.S.S.



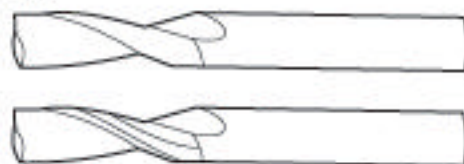
PART NUMBER	CUTTING DIAMETER	CUTTING LENGTH	SHANK DIAMETER	OVERALL LENGTH
067-0820	1/4"	5/8"	1/4"	2-1/2"
067-0821	1/4"	5/8"	1/4"	2-3/4"
067-0824	1/4"	5/8"	1/4"	2-3/4"
067-1220	3/8"	5/8"	3/8"	3"

DOUBLE FLUTE DOWNCUT DRILL POINT

067-H.S.S.

The -0820, -0821 and -1220 are designed as aircraft "throwaways." Used primarily in hand routers for trimming and routing in aluminum and non-abrasive plastics. Used for thin skinned layers.

The 0824 is designed as an aircraft "throwaway" premium bit with primary and secondary clearance for free cutting. Used for variable thickness skin.



PART NUMBER	CUTTING DIAMETER	CUTTING LENGTH	SHANK DIAMETER	OVERALL LENGTH
070-0416	1/8"	3/8"	1/4"	2-1/2"
070-0620	3/16"	5/8"	1/4"	2-7/8"
070-0824	1/4"	3/4"	1/4"	2-3/4"
070-0825	1/4"	3/4"	1/2"	3-1/4"
070-0832	1/4"	1"	1/4"	3"
070-1023	5/16"	3/4"	1/2"	3-1/4"
070-1031	5/16"	1"	1/2"	3-1/2"
070-1032	5/16"	1"	1/2"	4-1/4"
070-1131	21/64"	1"	1/2"	3-1/2"
070-1240	3/8"	1-1/4"	1/2"	3-1/2"
070-1644	1/2"	1-1/4"	1/2"	3-1/2"
070-1647	1/2"	1-1/2"	1/2"	3-1/2"
070-1680	1/2"	2-1/2"	1/2"	5-1/2"

SINGLE FLUTE UPCUT

070-H.S.S.

Designed for fixed routing applications where speed and chip removal are a primary consideration. Used in aluminum, natural wood, and non-abrasive plastics.



High Speed Steel Cutters

SINGLE FLUTE DOWNCUT

071-H.S.S.

Designed to push material and chips in a downward motion. Used where fixturing is a major consideration. Used in aluminum, natural wood, and non-abrasive plastics.



PART NUMBER	CUTTING DIAMETER	CUTTING LENGTH	SHANK DIAMETER	OVERALL LENGTH
071-0416	1/8"	3/8"	1/4"	2-1/2"
071-0620	3/16"	5/8"	1/4"	2-7/8"
071-0824	1/4"	3/4"	1/4"	2-3/4"
071-0825	1/4"	3/4"	1/2"	3-1/4"
071-0832	1/4"	1"	1/4"	3"
071-1024	5/16"	3/4"	1/2"	3-1/4"
071-1032	5/16"	1"	1/2"	3-1/2"
071-1233	3/8"	1"	1/2"	3-1/2"
071-1640	1/2"	1-1/4"	1/2"	3-1/2"

DOUBLE FLUTE UPCUT

072-H.S.S.

Designed for a smoother finish when fixture requires chip removal from the top. Used in aluminum, natural wood, and non-abrasive plastics.



PART NUMBER	CUTTING DIAMETER	CUTTING LENGTH	SHANK DIAMETER	OVERALL LENGTH
072-0416	1/8"	3/8"	1/4"	2-1/2"
072-0620	3/16"	5/8"	1/4"	2-7/8"
072-0824	1/4"	3/4"	1/4"	2-3/4"
072-0825	1/4"	3/4"	1/2"	3-1/4"
072-0832	1/4"	1"	1/4"	3"
072-1024	5/16"	3/4"	1/2"	3-1/4"
072-1033	5/16"	1"	1/2"	3-1/2"
072-1233	3/8"	1"	1/2"	3-1/2"
072-1240	3/8"	1-1/4"	1/2"	3-1/2"
072-1640	1/2"	1-1/4"	1/2"	4"
072-1644	1/2"	1-1/4"	1/2"	3-1/2"
072-1648	1/2"	1-1/2"	1/2"	4"
072-2440	3/4"	1-1/4"	1/2"	4"

DOUBLE FLUTE DOWNCUT

073-H.S.S.

Designed for a smoother finish when fixture demands that the material needs to be pushed down. Used in aluminum, natural wood, and non-abrasive plastics.



PART NUMBER	CUTTING DIAMETER	CUTTING LENGTH	SHANK DIAMETER	OVERALL LENGTH
073-0416	1/8"	3/8"	1/4"	2-1/2"
073-0620	3/16"	5/8"	1/4"	2-7/8"
073-0824	1/4"	3/4"	1/4"	2-3/4"
073-0825	1/4"	3/4"	1/2"	3-1/4"
073-0832	1/4"	1"	1/4"	3"
073-1024	5/16"	3/4"	1/2"	3-1/4"
073-1032	5/16"	1"	5/16"	3-1/4"
073-1232	3/8"	1"	3/8"	3"
073-1233	3/8"	1"	1/2"	3-1/2"
073-1240	3/8"	1-1/4"	1/2"	3-1/2"
073-1640	1/2"	1-1/4"	1/2"	4"
073-1648	1/2"	1-1/2"	1/2"	4"
073-2440	3/4"	1-1/4"	1/2"	4"

High Speed Steel Cutters

High Speed Steel Door Bits

PART NUMBER	CUTTING DIAMETER	CUTTING LENGTH	SHANK DIAMETER	OVERALL LENGTH
0079-1697-0000	1/2"	3-1/16"	1/2"	5-1/2"
0079-1697-0001	1/2"	3-1/16"	1/2"	5-1/2"

0001-Denotes flat on shank

DOUBLE FLUTE UPCUT DOOR BIT

0079-H.S.S.

Adds extended tool life in hollow metal doors or with extra tough wood lock bores.



PART NUMBER	CUTTING DIAMETER	CUTTING LENGTH	SHANK DIAMETER	OVERALL LENGTH
087-1680	1/2"	2-1/2"	1/2"	5-1/2"
087-1680-T100	1/2"	2-1/2"	1/2"	5-1/2"
087-1680-0001	1/2"	2-1/2"	1/2"	5-1/2"
087-1680-T101	1/2"	2-1/2"	1/2"	5-1/2"

All tools have drill point

T= titanium nitride coating

01= on the end of part number means flat on shank

SINGLE FLUTE DOWNCUT DOOR BIT

087-H.S.S.

General purpose door lite bit for cutting steel door or Styrofoam fill doors.



PART NUMBER	CUTTING DIAMETER	CUTTING LENGTH	SHANK DIAMETER	OVERALL LENGTH
088-1672	1/2"	2-1/4"	1/2"	5-1/4"
088-1680	1/2"	2-1/2"	1/2"	5-1/2"
088-1680-T100	1/2"	2-1/2"	1/2"	5-1/2"
088-1680-0001	1/2"	2-1/2"	1/2"	5-1/2"
088-1680-T101	1/2"	2-1/2"	1/2"	5-1/2"

All tools have drill point

T= titanium nitride coating

01= on the end of part number means flat on shank

SINGLE FLUTE DOWNCUT DOOR BIT

088-H.S.S.

For cutting door lites in steel doors. Tool used for low RPM, made from special alloy, designed for longer tool life.



Carbide Tipped Cutters

DOUBLE "V" FLUTE

032-C.T.

Designed for a smoother finish as well as longer tool life. Used in wood composites and laminated wood. Also used in natural wood, abrasive plastics and fiberglass.



PART NUMBER	CUTTING DIAMETER	CUTTING LENGTH	SHANK DIAMETER	OVERALL LENGTH
032-0828	1/4"	7/8"	1/4"	2-1/8"
032-0835	1/4"	1"	1/4"	3-1/4"
032-0932	9/32"	1"	1/4"	2-1/4"
032-1033	5/16"	1"	1/4"	2-1/4"
032-1232	3/8"	1"	3/8"	2-1/2"
032-1440	7/16"	1-1/4"	1/2"	2-3/4"
032-1624	1/2"	3/4"	1/4"	2"
032-1640	1/2"	1-1/4"	1/2"	2-3/4"
032-1648	1/2"	1-1/2"	1/2"	3"
032-1656	1/2"	1-3/4"	1/2"	3-1/4"
032-1664	1/2"	2"	1/2"	4"
032-1672	1/2"	2-1/4"	1/2"	4-3/4"
032-2040	5/8"	1-1/4"	1/2"	2-3/4"
032-2440	3/4"	1-1/4"	1/2"	2-3/4"
032-2840	7/8"	1-1/4"	1/2"	2-3/4"
032-3240	1"	1-1/4"	1/2"	2-3/4"
032-3265	1"	2"	3/4"	4"
032-4040	1-1/4"	1-1/4"	1/2"	2-3/4"
032-2840	1-1/2"	1-1/4"	1/2"	2-3/4"
032-6440	2"	1-1/4"	1/2"	2-3/4"

Carbide Tipped Saw Blades and Arbors

SAW BLADES

002

Carbide tipped saw blades designed to trim hard and soft plastics. Used by mounting on arbors. Right-hand and left-hand rotation possible. For left-hand rotation you must use a left-hand arbor.



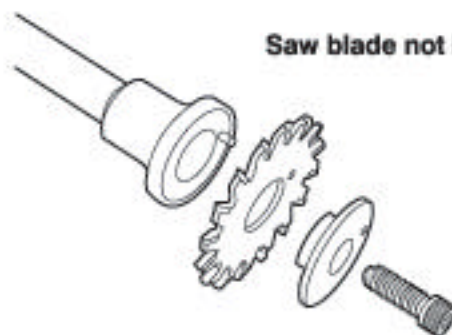
PART NUMBER	CUTTING DIAMETER	TEETH	RAKE/ KERF	KERF	GRIND	BORE
002-2016	2"	16	0	0.095	TCG	0.625
002-2020	2"	20	0	0.095	TCG	0.625
002-2516	2-1/2"	16	0	0.095	TCG	0.625
002-3016	3"	16	0	0.095	TCG	0.625

Carbide Tipped Saw Blades and Arbors

PART NUMBER	SHANK DIAMETER	OAL	ROTATION
002-1600	1/2"	3-1/4"	Right Hand
002-1601	1/2"	4-1/2"	Right Hand
002-1610	1/2"	3-1/4"	Left Hand

SAW ARBORS ASSEMBLY

002



Saw blade not included.

Bearing Guide Cutters

PART NUMBER	FLUTES	CUTTING DIAMETER	CUTTING LENGTH	SHANK DIAMETER	OVERALL LENGTH
024-1208	2	3/8"	1"	1/4"	2-5/8"
024-1609	2	1/2"	1"	1/4"	2-5/8"
024-1617	2	1/2"	1"	1/2"	3"
024-1611	3	1/2"	1"	1/4"	2-5/8"
024-1619	3	1/2"	1"	1/2"	3-1/4"

FLUSH TRIM

024-C.T.



Honeycomb Cutters

PART NUMBER	CUTTING DIAMETER	SHANK DIAMETER	OVERALL LENGTH
089-1600	1/2"	1/4"	2-1/8"
089-2400	3/4"	1/4"	2-1/8"
089-3200	1"	1/4"	2-1/8"
089-4800	1-1/2"	1/2"	2-1/2"
089-6400	2"	1/2"	2-1/2"

HONEYCOMB CUTTERS

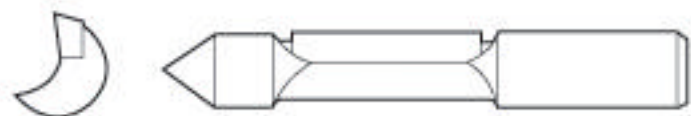
089-H.S.S.



Pilot Panel

SINGLE "V" FLUTE

052-C.T.



PART NUMBER	CUTTING DIAMETER	CUTTING LENGTH	SHANK DIAMETER	OVERALL LENGTH
052-0824	1/4"	3/4"	1/4"	2-5/8"

SINGLE FLUTE DOWNCUT PILOT PANEL

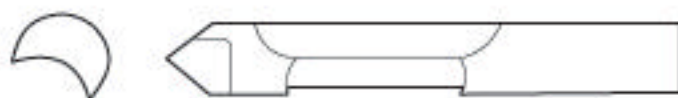
053-H.S.S.



PART NUMBER	CUTTING DIAMETER	CUTTING LENGTH	SHANK DIAMETER	OVERALL LENGTH
053-0824	1/4"	3/4"	1/4"	3-1/4"
053-1232	3/8"	1"	3/8"	3-1/2"
053-1640	1/2"	1-1/4"	1/2"	3-3/4"

SINGLE "O" FLUTE PILOT PANEL

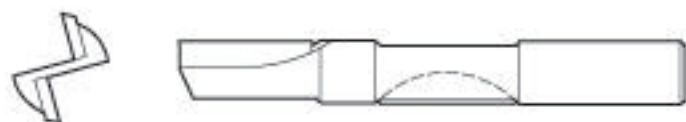
054-H.S.S.



PART NUMBER	CUTTING DIAMETER	CUTTING LENGTH	SHANK DIAMETER	OVERALL LENGTH
054-0824	1/4"	3/4"	1/4"	2-5/8"
054-1228	3/8"	7/8"	3/8"	2-3/4"
054-1640	1/2"	1-1/4"	1/2"	3-3/4"

STAGGER TOOTH

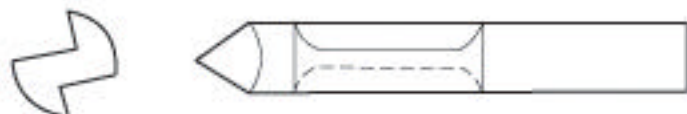
055-C.T.



PART NUMBER	CUTTING DIAMETER	CUTTING LENGTH	SHANK DIAMETER	OVERALL LENGTH
055-1664	1/2"	1-1/16"	1/2"	4"

DOUBLE "V" FLUTE

050-H.S.S.



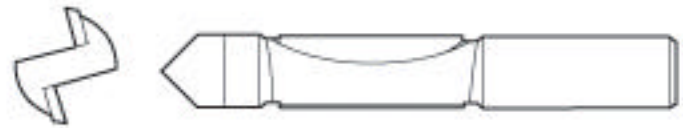
PART NUMBER	CUTTING DIAMETER	CUTTING LENGTH	SHANK DIAMETER	OVERALL LENGTH
056-0826	1/4"	13/16"	1/4"	2-5/8"

Pilot Panel

PART NUMBER	CUTTING DIAMETER	CUTTING LENGTH	SHANK DIAMETER	OVERALL LENGTH
057-0824	1/4"	3/4"	1/4"	2-5/8"
057-1226	3/8"	1"	3/8"	3-1/8"

DOUBLE "V" FLUTE

057-C.T.



Adapters and Bearing Guides

PART NUMBER	INSIDE DIAMETER	OUTSIDE DIAMETER	OVERALL LENGTH
003-0408	1/8"	1/4"	1"
003-0608	3/16"	1/4"	1"
003-0812	1/4"	3/8"	1"
003-0816	1/4"	1/2"	1"
003-1016	5/16"	1/2"	1"
003-1216	3/8"	1/2"	1-1/2"
003-1624	1/2"	3/4"	1-1/2"

FIBER ADAPTERS

003



PART NUMBER	INSIDE DIAMETER	OUTSIDE DIAMETER	WIDTH
023-0412	1/8"	3/8"	.155"
023-0612	3/16"	3/8"	.125"
023-0616	3/16"	1/2"	.196"

BALL BEARING GUIDES

023





Engineering Tool Materials Craftsmanship

HARD COATINGS



*The following are the best,
most cost-effective chemical
coatings available for cutting
tools in the last ten years.*

TOOLMASTERS T100

is a P.V.D. Titanium Nitride Coating (TiN), and is the most economical coating for cutting tools. It is used mainly for cutting steel, stainless steel, and other ferrous-based materials. It has also been used as a coating on H.S.S. and carbide tools, and to cut aluminum, some woods, plastics, and fiberglass laminates.

T100 has a hardness of 2300 on the Knoop scale (a Rockwell scale "C" of 82), and oxidizes at 500 C (1000 F).

TOOLMASTERS Z100

is a P.V.D. Zirconium Nitride Coating for use in cutting wood, and costs twice that of T100. Z100 has a hardness of 2800 on the Knoop scale (a Rockwell scale "C" of 85), and oxidizes at 700 C (1400 F).

TOOLMASTERS C400

is a P.V.D. Titanium Carbonitride Coating for use on H.S.S. and carbide tools, as well as cutting: wood composites; Kevlar; carbon laminates; fiberglass composites; particle boards; cast iron; super alloys; high silicon content aluminum alloys; Bakelite; and paper.

C400 has a hardness of 3000 on the Knoop scale (a Rockwell scale "C" of 87), and oxidizes at 450 C (900 F).

TOOLMASTERS T200

is a P.V.D. Titanium Aluminum Nitride Coating, and may be the answer to most metal cutting tool problems. It is very useful when elevated temperatures are created during the cutting application. It has also shown promise in the cutting of particle board (MDF), extending tool life three times over that of an uncoated carbide tool. T200 costs about two times the cost of TiN coating, and must be specially quoted.

T200 has a hardness of 2300 on the Knoop scale (a Rockwell scale "C" of 82), and oxidizes at 700 C (1400 F).



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