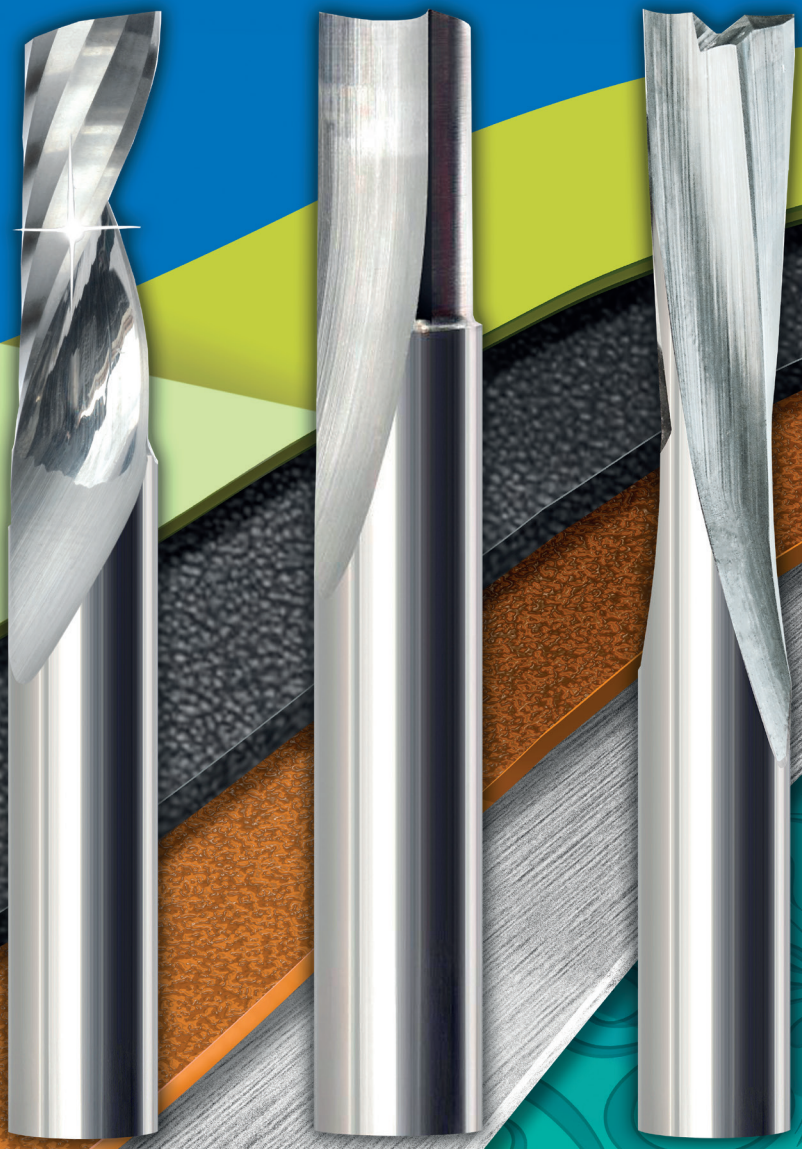
Merlin Tools Ltd

Solid Carbide Performance Routers



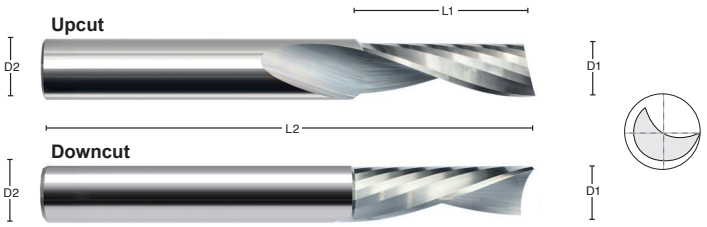
Plastics • Acrylic • ABS
Aluminium • PVC • Nylon
Polypropylene • Polycarbonate

Manufactured in the USA
Distributed in the UK

Solid Carbide 1-Flute O-Flute Routers

6010 6012 7010 7011 Solid Carbide 1-Flute Spiral O-Flute Router 21° Helix for Soft Plastics

Materials SP SS

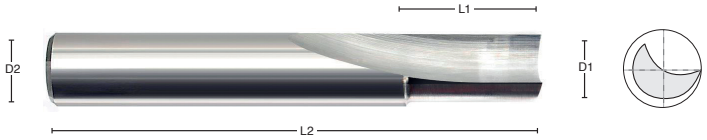


- ***Extremely Competitive Pricing***
- ***Ex Stock Delivery on All Tools***
- ***Specials & Modifications Service***

Cutter Dia D1	Shank Dia D2	FL L1	OAL L2	Upcut Part No	Downcut Part No
2	2	8	50	6010-02	6012-02
2	6	8	64	6010-04	6012-04
2.5	2.5	8	50	6010-06	6012-06
2.5	6	8	64	6010-08	6012-08
3	3	8	50	6010-10	6012-10
3	6	8	64	6010-12	6012-12
3	3	12	64	6010-14	6012-14
3	6	12	64	6010-16	6012-16
4	4	8	64	6010-18	6012-18
4	4	12	64	6010-20	6012-20
4	4	20	64	6010-22	6012-22
4	6	20	64	6010-24	6012-24
4	4	30	64	6010-26	6012-26
5	5	16	64	6010-28	6012-28
5	6	16	64	6010-30	6012-30
5	5	30	64	6010-32	6012-32
6	6	8	64	6010-34	6012-34
6	6	12	64	6010-36	6012-36
6	6	20	64	6010-38	6012-38
6	6	30	76	6010-40	6012-40
6	6	38	76	6010-42	6012-42
8	8	25	64	6010-44	6012-44
8	8	38	76	6010-46	6012-46
10	10	30	76	6010-48	6012-48
1/16	1/4	1/4	2	7010-04	7011-04
1/8	1/8	1/4	2	7010-06	7011-06
1/8	1/4	1/4	2	7010-08	7011-08
1/8	1/8	1/2	2	7010-10	7011-10
1/8	1/4	1/2	2	7010-12	7011-12
5/32	1/4	9/16	2	7010-14	7011-14
3/16	3/16	3/8	2	7010-16	7011-16
3/16	3/16	5/8	2	7010-18	7011-18
3/16	1/4	3/8	2	7010-20	7011-20
3/16	1/4	5/8	2	7010-22	7011-22
7/32	1/4	3/4	2-1/2	7010-24	7011-24
1/4	1/4	3/8	2	7010-26	7011-26
1/4	1/4	3/4	2-1/2	7010-28	7011-28
1/4	1/4	1-1/4	3	7010-30	7011-30
3/8	3/8	1-1/8	3	7010-32	7011-32

6001 7001 Solid Carbide 1-Flute Straight O-Flute Router - Crescent End

Materials SP HP AC



Cutter Dia D1	Shank Dia D2	FL L1	OAL L2	Part Number
4	6	16	64	6001-02
5	6	20	64	6001-04
6	6	25	64	6001-06
8	8	25	64	6001-08
10	10	35	88	6001-10
12	12	35	88	6001-12
1/8	1/8	1/2	2	7001-02
1/8	1/8	5/8	3	7001-04
1/8	1/4	5/16	2	7001-06
1/8	1/4	1/2	2	7001-08
1/8	1/4	1/2	2	7001-10 LH
1/8	1/4	5/8	4	7001-12
5/32	1/4	9/16	2	7001-14
3/16	3/16	5/8	2-1/2	7001-16
3/16	1/4	3/8	2	7001-18
3/16	1/4	5/8	2	7001-20
3/16	1/4	5/8	2	7001-22 LH
3/16	1/4	1	4	7001-24
7/32	1/4	5/8	2-1/2	7001-26
1/4	1/4	3/8	2-1/2	7001-28
1/4	1/4	3/4	2-1/2	7001-30
1/4	1/4	3/4	2-1/2	7001-32 LH
1/4	1/4	3/4	3-1/2	7001-34
1/4	1/4	3/4	3-1/2	7001-36 LH
1/4	1/4	1-1/4	4	7001-38
1/4	1/4	1	2-1/2	7001-40
1/4	1/4	1	3-1/4	7001-42
3/8	3/8	5/8	2-1/2	7001-44
3/8	3/8	7/8	2-1/2	7001-46
3/8	3/8	1-5/8	6	7001-48
1/2	1/2	1-5/8	4	7001-50
1/2	1/2	2-1/8	6	7001-52
1/2	1/2	1	3	7001-54

SW	Soft wood	SP	Soft plastic	GF	Glass Fibre
HW	Hard wood	HP	Hard plastic	SS	Solid surface
CW	Composite wood	AC	Acrylic	A	Aluminium
LW	Laminated wood	CP	Composite	F	Foam

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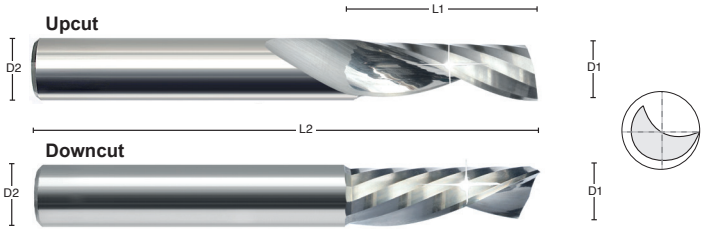
Manufactured in the USA
Distributed in the UK

Solid Carbide 1-Flute O-Flute Routers

6230 6231 7230 7231 Solid Carbide Polished 1-Flute O-Flute Xtreme Router 25° Helix

Materials SW HW CW LW A SP HP AC SS

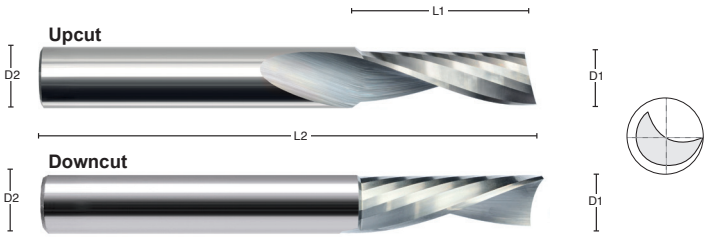


Cutter Dia D1	Shank Dia D2	FL L1	OAL L2	Upcut Part No	Downcut Part No
3	3	6	50	6230-02	6231-02
3	3	12	50	6230-04	6231-04
3	6	6	50	6230-06	6231-06
3	6	12	50	6230-08	6231-08
3	6	12	63	6230-10	6231-10
4	6	14	50	6230-12	6231-12
4	6	12	63	6230-14	6231-14
5	5	10	50	6230-16	6231-16
5	6	10	50	6230-18	6231-18
5	6	16	50	6230-20	6231-20
6	6	19	63	6230-22	6231-22
6	6	30	75	6230-24	6231-24
10	10	28	75	6230-26	6231-26
1/16	1/8	1/4	2	7230-02	7231-02
1/8	1/8	1/4	2	7230-04	7231-04
1/8	1/4	1/4	2	7230-06	7231-06
1/8	1/8	1/2	2	7230-08	7231-08
1/8	1/4	1/2	2	7230-10	7231-10
5/32	1/4	9/16	2	7230-12	7231-12
3/16	3/16	3/8	2	7230-14	7231-14
3/16	3/16	5/8	2	7230-16	7231-16
3/16	1/4	3/8	2	7230-18	7231-18
3/16	1/4	1/2	2	7230-20	7231-20
3/16	1/4	5/8	2	7230-22	7231-22
7/32	1/4	3/4	2-1/2	7230-24	7231-24
1/4	1/4	5/8	2	7230-26	7231-26
1/4	1/4	3/4	2-1/2	7230-28	7231-28
1/4	1/4	1-1/4	3	7230-30	7231-30
3/8	3/8	1-1/8	3	7230-32	7231-32
1/2	1/2	1	3	7230-34	7231-34
1/2	1/2	2	4	7230-36	7231-36

- ***Full Technical Catalogue on request***
- ***Technical Support available***

6013 6014 7013 7014 Solid Carbide 1-Flute Spiral O-Flute Router 21° Helix for Hard Plastics

Materials HP AC SS



Cutter Dia D1	Shank Dia D2	FL L1	OAL L2	Upcut Part No	Downcut Part No
2	2	8	50	6013-02	6014-02
2	6	8	64	6013-04	6014-04
2.5	2.5	8	50	6013-06	6014-06
2.5	6	8	64	6013-08	6014-08
3	3	8	50	6013-10	6014-10
3	6	8	64	6013-12	6014-12
3	3	12	64	6013-14	6014-14
3	6	12	64	6013-16	6014-16
4	4	8	64	6013-18	6014-18
4	4	12	64	6013-20	6014-20
4	4	20	64	6013-22	6014-22
4	6	20	64	6013-24	6014-24
4	4	30	64	6013-26	6014-26
5	5	16	64	6013-28	6014-28
5	6	16	64	6013-30	6014-30
5	5	30	64	6013-32	6014-32
6	6	8	64	6013-34	6014-34
6	6	12	64	6013-36	6014-36
6	6	20	64	6013-38	6014-38
6	6	30	76	6013-40	6014-40
6	6	38	76	6013-42	6014-42
8	8	25	64	6013-44	6014-44
8	8	38	76	6013-46	6014-46
10	10	30	76	6013-48	6014-48
10	10	35	76	6013-50	6014-50
1/16	1/4	1/4	2	7013-04	7014-04
1/8	1/8	1/4	2	7013-06	7014-06
1/8	1/8	1/2	2	7013-08	7014-08
1/8	1/4	1/4	2	7013-10	7014-10
1/8	1/4	1/2	2	7013-12	7014-12
5/32	1/4	9/16	2	7013-14	7014-14
3/16	3/16	3/8	2	7013-16	7014-16
3/16	3/16	5/8	2	7013-18	7014-18
3/16	1/4	3/8	2	7013-20	7014-20
3/16	1/4	5/8	2	7013-22	7014-22
7/32	1/4	3/4	2-1/2	7013-24	7014-24
1/4	1/4	3/8	2	7013-26	7014-26
1/4	1/4	3/4	2-1/2	7013-28	7014-28
1/4	1/4	1-1/4	3	7013-30	7014-30
3/8	3/8	1-1/8	3	7013-32	7014-32

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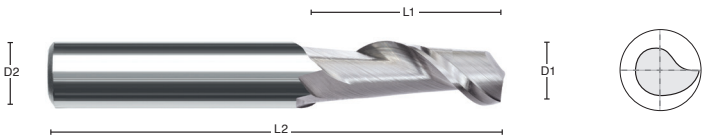
Manufactured in the USA
Distributed in the UK

Solid Carbide 1-Flute Spiral Routers

151 Solid Carbide 1-Flute Upcut Spiral Router 45° Helix

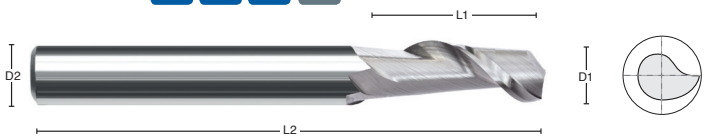
Materials SP HP AC A



Cutter Dia D1	Shank Dia D2	FL L1	OAL L2	Part Number
1	3	3	38	151-10101
1.5	3	4	38	151-10102
2.5	3	7	38	151-10104
3	3	8	38	151-10105
4	4	11	50	151-10107
5	5	13	50	151-10109
6	6	13	63	151-10110
8	8	19	63	151-10112
10	10	22	70	151-10114
12	12	26	75	151-10116

152 Solid Carbide 1-Flute Upcut Spiral Router Stub Length 45° Helix

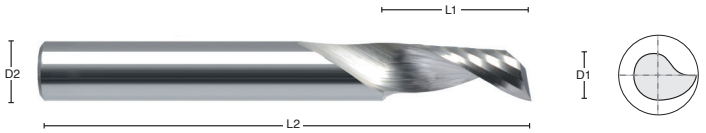
Materials SP HP AC A



Cutter Dia D1	Shank Dia D2	FL L1	OAL L2	Part Number
3	3	5	38	152-10105
4	4	6	50	152-10107
5	5	7	50	152-10109
6	6	8	50	152-10110

153 Solid Carbide 1-Flute Upcut Spiral Router Reinforced Shank 30° Helix

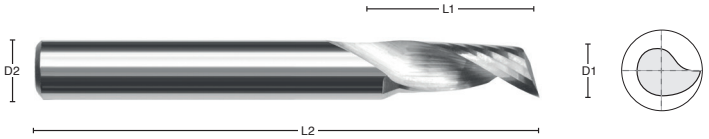
Materials SP HP AC A



Cutter Dia D1	Shank Dia D2	FL L1	OAL L2	Part Number
2	6	7	50	153-10103
2.5	6	8	50	153-10103
3	6	10	50	153-10105
3.5	6	10	50	153-10106
4	6	10	50	153-10107
4.5	6	12	50	153-10108
5	6	12	50	153-10109
5.5	6	14	50	153-10010
6	6	14	50	153-10110

154 Solid Carbide 1-Flute Upcut Spiral Router Stub Length 30° Helix

Materials SP HP AC A



Cutter Dia D1	Shank Dia D2	FL L1	OAL L2	Part Number
2	3	7	38	154-10103
3	3	8	38	154-10105
4	4	10	50	154-10107
6	6	14	50	154-10110

155 Solid Carbide 1-Flute Upcut Spiral Router Long Length 30° Helix

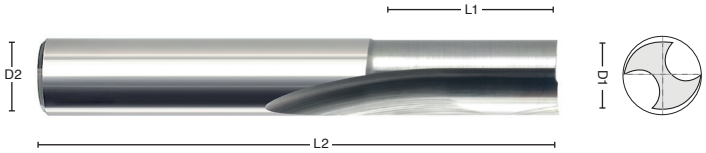
Materials SP HP AC A

Cutter Dia D1	Shank Dia D2	FL L1	OAL L2	Part Number
2	3	10	38	155-10103
3	3	10	38	155-10105
4	4	14	50	155-10107
5	5	16	60	155-10109
6	6	20	60	155-10110
8	8	30	100	155-10112
10	10	40	100	155-10114
12	12	50	100	155-10116

Solid Carbide 2 Flute Routers

6037 7037 Solid Carbide 2-Flute Straight O-Flute Router

Materials SP HP AC



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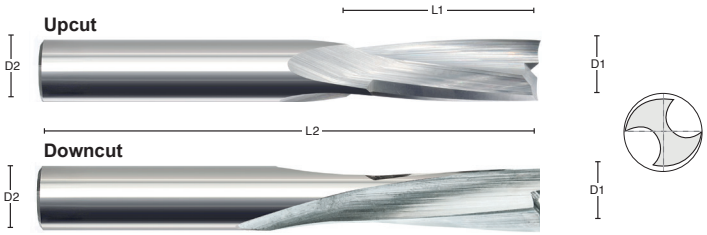
- ***Specials & Modifications Service***

Cutter Dia D1	Shank Dia D2	FL L1	OAL L2	Part Number
4	6	16	64	6037-02
5	6	20	64	6037-04
6	6	25	64	6037-06
8	8	25	76	6037-08
10	10	35	88	6037-10
12	12	35	88	6037-12
1/8	1/4	5/16	2	7037-02
1/8	1/4	1/2	2	7037-04
1/8	1/4	5/8	4	7037-06
3/16	1/4	3/8	2	7037-08
3/16	1/4	5/8	2	7037-10
3/16	1/4	1	4	7037-12
1/4	1/4	3/8	2-1/2	7037-14
1/4	1/4	1	2-1/2	7037-16
1/4	1/4	1	2-1/2	7037-18 LH
1/4	1/4	1	3-1/4	7037-20
1/4	1/4	1-1/4	4	7037-22
3/8	7/8	7/8	2-1/2	7037-24
3/8	3/8	1	4	7037-26
1/2	1/2	1	3	7037-28
1/2	1/2	1	4	7037-30
1/2	1/2	1-3/4	4	7037-32
1/2	1/2	2-1/8	6	7037-34

6060 6061 7060 7061 Solid Carbide 2-Flute Spiral O-Flute Router 11° Helix - Mill End

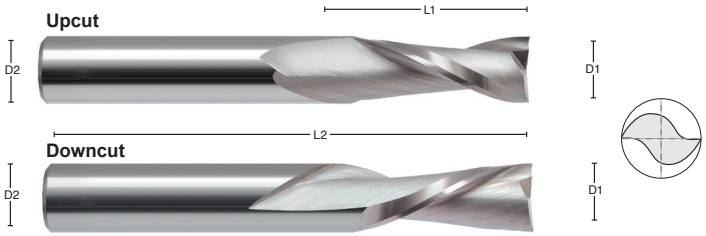
Materials SP HP AC SS



Cutter Dia D1	Shank Dia D2	FL L1	OAL L2	Upcut Part No	Downcut Part No
6	6	25	64	6060-02	6061-02
8	8	25	76	6060-04	6061-04
10	10	25	76	6060-06	6061-06
12	12	35	88	6060-08	6061-08
1/4	1/4	3/8	2-1/2	7060-02	7061-02
1/4	1/4	3/4	2-1/2	7060-04	7061-04
3/8	3/8	1	3	7060-06	7061-06
1/2	1/2	1-1/8	3-1/2	7060-08	7061-08

6050 6051 7050 7051 Solid Carbide 2-Flute Spiral Router 30° Helix - Mill End

Materials HP AC SS A CP



- ***Full Technical Catalogue on request***
- ***Technical Support available***

Cutter Dia D1	Shank Dia D2	FL L1	OAL L2	Upcut Part No	Downcut Part No
3	3	12	50	6050-02	6051-02
4	4	12	50	6050-04	6051-04
5	5	17	50	6050-06	6051-06
6	6	17	60	6050-08	6051-08
8	8	32	70	6050-10	6051-10
10	10	32	70	6050-12	6051-12
10	10	42	100	6050-14	6051-14
12	12	32	80	6050-16	6051-16
1/8	1/4	1/2	2	7050-02	7051-02
5/32	1/4	9/16	2	7050-04	7051-04
3/16	1/4	5/8	2	7050-06	7051-06
3/16	1/4	5/8	2	7050-08 LH	7051-08 LH
7/32	1/4	5/8	2-1/2	7050-10	7051-10
1/4	1/4	3/4	2-1/2	7050-12	7051-12
1/4	1/4	3/4	2-1/2	7050-14 LH	7051-14 LH
9/32	3/8	3/4	2-1/2	7050-16	7051-16
5/16	3/8	13/16	2-1/2	7050-18	7051-18
3/8	3/8	7/8	2-1/2	7050-20	7051-20
7/16	1/2	1	3	7050-22	7051-22
1/2	1/2	1	3	7050-24	7051-24

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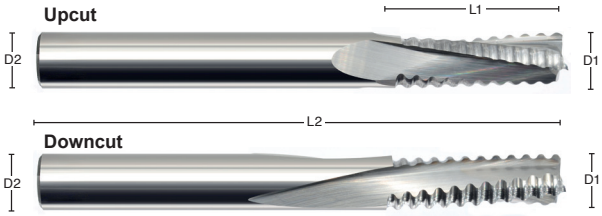
Manufactured in the USA
Distributed in the UK

Solid Carbide Rippers

6150 6151 7150 7151 Solid Carbide 3-Flute Slow Spiral Ripper 10° Helix - Mill End

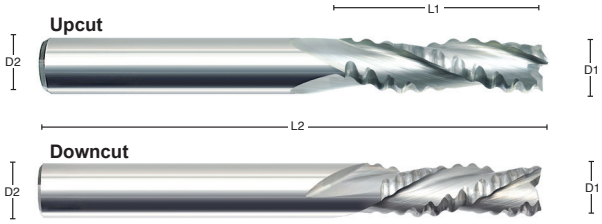
Materials SW HW CW SP HP CP



Cutter Dia D1	Shank Dia D2	FL L1	OAL L2	Upcut Part No	Downcut Part No
12	12	25	76	6150-02	6151-02
16	16	55	120	6150-04	6151-04
18	18	60	120	6150-06	6151-06
3/8	3/8	1-1/8	3-1/2	7150-02	7151-02
1/2	1/2	1-1/8	3-1/2	7150-04	7151-04
1/2	1/2	1-5/8	4	7150-06	7151-06
5/8	5/8	1-5/8	4	7150-08	7151-08
5/8	5/8	2-1/8	5	7150-10	7151-10
3/4	3/4	1-5/8	4	7150-12	7151-12
3/4	3/4	2-1/8	5	7150-14	7151-14

6152 6153 7152 7153 Solid Carbide 3-Flute Spiral Ripper 30° Helix - Mill End

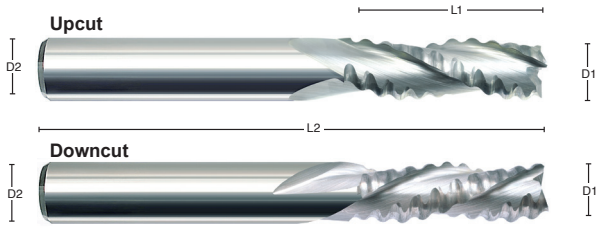
Materials SW HW CW SP HP CP



Cutter Dia D1	Shank Dia D2	FL L1	OAL L2	Upcut Part No	Downcut Part No
12	12	25	76	6152-02	6153-02
16	16	55	120	6152-04	6153-04
18	18	60	120	6152-06	6153-06
3/8	3/8	1-1/8	3-1/2	7152-02	7153-02
1/2	1/2	1-1/8	3-1/2	7152-04	7153-04
1/2	1/2	1-5/8	4	7152-06	7153-06
5/8	5/8	1-5/8	4	7152-08	7153-08
5/8	5/8	2-1/2	5	7152-10	7153-10
3/4	3/4	1-5/8	4	7152-12	7153-12
3/4	3/4	2-1/8	5	7152-14	7153-14

7154 7155 Solid Carbide 3-Flute High Impact Spiral Ripper 30° Helix - Mill End

Materials SW HW CW SP HP CP

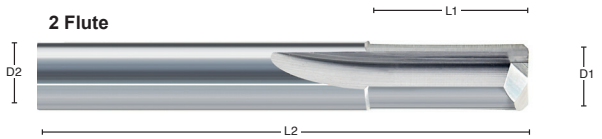


Cutter Dia D1	Shank Dia D2	FL L1	OAL L2	Upcut Part No	Downcut Part No
3/8	3/8	1-1/8	3	7154-02	7155-02
1/2	1/2	1-1/8	3	7154-04	7155-04
1/2	1/2	1-5/8	3-1/2	7154-06	7155-06
1/2	1/2	2-1/8	4	7154-08	7155-08

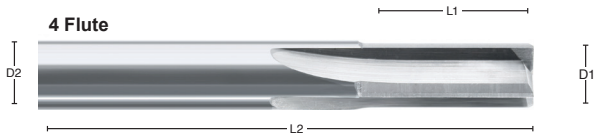
Solid Carbide Straight Flute Routers

271 471 Solid Carbide 2 and 4-Flute Straight Flute Router

Materials HP AC CP SS



Cutter Dia D1	Shank Dia D2	FL L1	OAL L2	Part Number
3	3	12	38	271-22005
4	4	14	50	271-22007
5	5	16	50	271-22009
6	6	19	63	271-22010
8	8	19	63	271-22012
10	10	22	70	271-22014
12	12	25	75	271-22016
16	16	32	88	271-22020



Cutter Dia D1	Shank Dia D2	FL L1	OAL L2	Part Number
3	3	12	38	471-44005
4	4	14	50	471-44007
5	5	16	50	471-44009
6	6	19	63	471-44010
8	8	19	63	471-44012
10	10	22	70	471-44014
12	12	25	75	471-44016
16	16	32	88	471-44020

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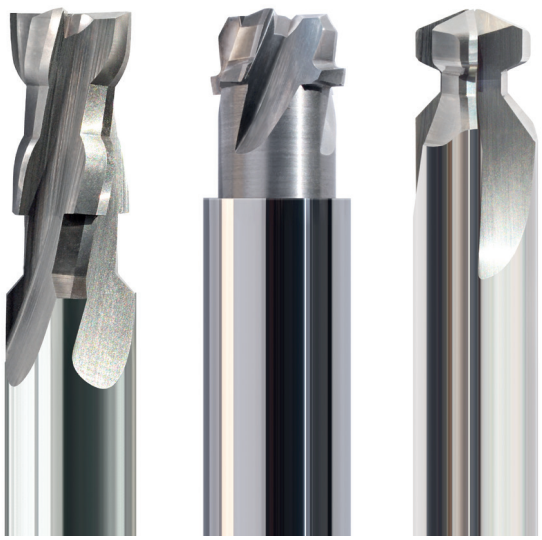
Manufactured in the USA
Distributed in the UK

Specials, Regrinds and Modification

At Merlin Tools we pride ourselves on understanding the needs of our clients. We know you expect quality and precision not only from our impressive range of ex stock tooling but also when you need something special.

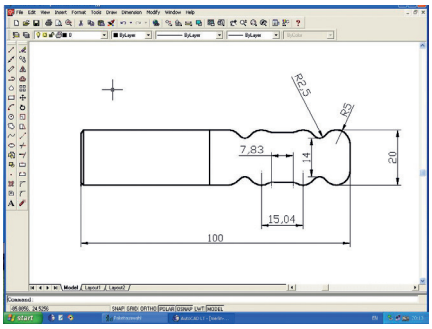
Merlin Tools provides a full service capability that is dedicated to providing you with the highest quality in precision manufactured cutting tools to meet the most demanding requirements.

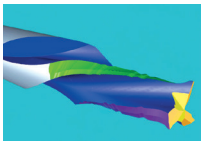
Our bespoke tool manufacturing service builds on this reputation and provides you with the exacting precision performance tool tailored for your specific needs.

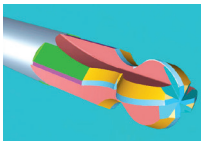


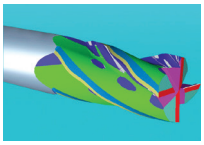
Tool Design, Simulation and Manufacture

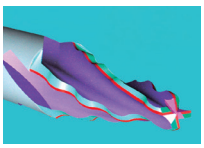
The tool development process in many ways is straight forward. The careful and precise interpretation of the component profile is transferred to CAD where adjustments can be more easily applied. Our knowledge of materials, machining speeds and tolerances are used to calculate a precise cutting profile ready to be transposed into full CAD simulation.



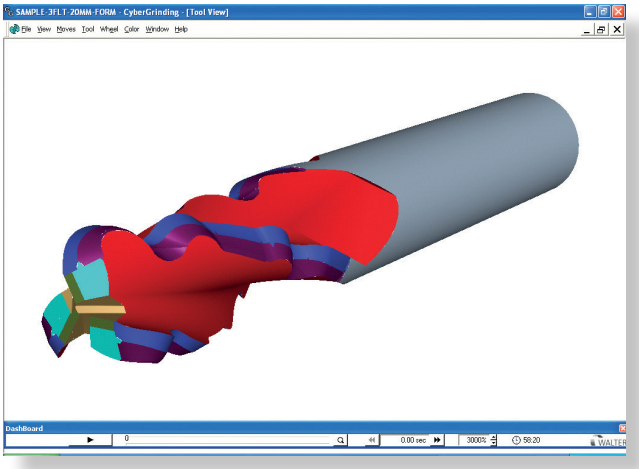








The CAD simulation is a full 3 dimensional image of the tool that can be rotated and positioned in a virtual spatial environment for client approval. It is fully colour coded for simple designation of depth and cutting angles. Working closely with our clients, we refine the design of the tool prior to manufacture.



Our CNC manufacturing equipment is state of the art. These machines calibrate perfectly with our CAD software to produce flawless precision grinding. The fully automated system can run 24/7 producing quantities of high quality, consistently accurate tools to your specification at highly competitive prices.

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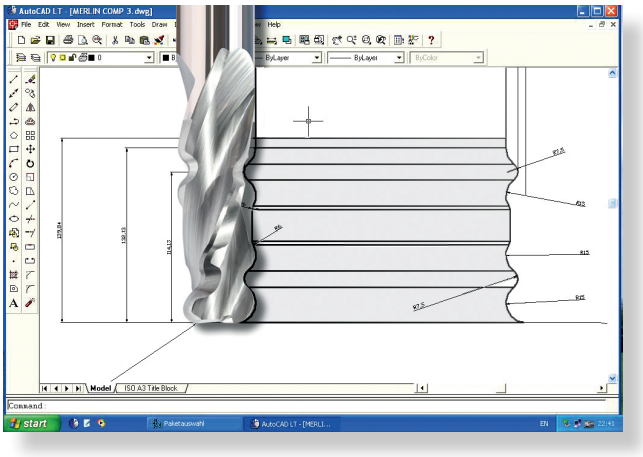
Tool Inspection

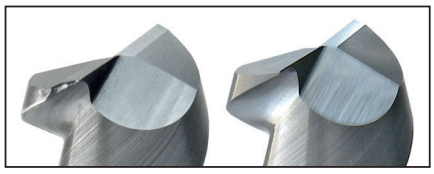
Full inspection takes place at key stages in the production process. Careful assessment of the tool, both through state-of-the art automated inspection and traditional craftsman analysis, ensure that the level of precision we have come to be recognised for is achieved every time.

From Drawing to Tool



A Full Tool Rescue Service

Our special Tool Rescue service offers the opportunity for us to Regrind, Recondition and Repair your existing tools. This service will breath new life into those tools that have worked so hard for you and produce a cost effective machining solution, returning tools to you as new. Original coating can be re-applied to tools on request.



A Tool Rescue box is available upon request. Whenever you need to use the service give our sales team a call and we will arrange courier collection of your Tool Box for delivery to our technical department.

Merlin Tools Ltd

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for the machining of Plastics, Foam, Soft Wood, Hard Wood, Glass Fibre, Aluminium, Laminates, Composites and Solid Surface.