



## YG-1 Uncoated, Micrograin Solid Carbide Milling Cutter Range

Cutwel's basic range of solid carbide is available ex-stock in a wide range of geometries for everyday general machining. Solid carbide tools come on either a plain or flatted shank.

### Application

General machining. They are recommended for machining mild steel, carbon steel, alloy steel, tool steel and cast iron.

They are also suitable for machining aluminium, brass, copper, plastic, stainless and titanium. The maximum recommended hardness for uncoated carbide is 40 Rockwell.

### Size Range

1.0 mm to 25 mm.

### No. of Flutes

2, 3 or 4 flutes are available.

### Coatings

For general machining coated carbide please see our K2 Coated Carbide section.

### Geometries

- Plain or flatted shank
- Stub, standard, long and extra long lengths
- Square end or ball nosed
  - Finishers
- Rippers - please see K2 range



E5424, E5425, E5432	2, 3, 4 Flute Standard Length	36	
E5553	3 Flute Throwaway	36	
E5527, E5528	2 + 3 Flute Intermediate Length	37	
E5500, E5510	2 + 4 Flute Long Length	37	
E5452, E5453	2 + 4 Flute Extra Long Length	38	
E5624, E5634	2 + 4 Flute Ball Nosed	38	
F5445, F5450	2 + 4 Flute Ball Nosed Intermediate Length	39	
F5454, F5455	2 + 4 Flute Ball Nosed Long Length	39	



### CUTWEL RECOMMENDS

X-Power ... for ultimate performance.  
Please see pages 56 - 71.

- Same day despatch until 6 pm
- Next day delivery
- 10,000 lines ex-stock
- Pre-discounted prices



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**see our index**  
at the back!

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our website?  
[www.cutwel.com](http://www.cutwel.com)  
E.Mail [sales@cutwel.net](mailto:sales@cutwel.net)



### Standard Length

STANDARD LENGTH. 2, 3 & 4 FLUTE,  
CENTRE CUTTING CARBIDE MILLING  
CUTTERS (UNCOATED)



Dia	Shank Dia	Flute Length	Overall Length	2 Flute	3 Flute	4 Flute	2007 £
<b>Uncoated</b>							
1.0	4.0	3.0	40.0	E5424010	-	-	5.51
1.5	4.0	4.5	40.0	E5424015	-	-	5.51
2.0	2.0	8.0	32.0	E5424020	E5425020	E5432020	3.67
2.5	2.5	8.0	32.0	E5424025	E5425025	E5432025	3.67
3.0	3.0	12.0	32.0	E5424030	E5425030	E5432030	3.67
3.5	3.5	12.0	32.0	E5424035	E5425035	E5432035	4.28
4.0	4.0	12.0	40.0	E5424040	E5425040	E5432040	4.28
4.5	4.5	14.0	50.0	E5424045	E5425045	E5432045	5.51
5.0	5.0	14.0	50.0	E5424050	E5425050	E5432050	5.51
5.5	5.5	16.0	50.0	E5424055	E5425055	E5432055	5.51
6.0	6.0	16.0	50.0	E5424060	E5425060	E5432060	5.51
7.0	7.0	20.0	60.0	E5424070	E5425070	E5432070	7.47
8.0	8.0	20.0	60.0	E5424080	E5425080	E5432080	7.96
9.0	9.0	20.0	60.0	E5424090	E5425090	E5432090	10.94
10.0	10.0	22.0	70.0	E5424100	E5425100	E5432100	11.62
12.0	12.0	22.0	70.0	E5424120	E5425120	E5432120	15.78
14.0	14.0	25.0	75.0	E5424140	E5425140	E5432140	26.91
16.0	16.0	25.0	75.0	E5424160	E5425160	E5432160	28.13
20.0	20.0	32.0	100.0	E5424200	E5425200	E5432200	47.70

See page 8  
for technical  
guide to YG-1  
Milling Cutters



### Throw Aways

3 FLUTE, SHORT LENGTH  
CENTRE CUTTING THROW AWAY



Dia	Shank Dia	Flute Length	Overall Length	Ordering Code	2007 £
<b>Uncoated</b>					
1.0	3.0	2.0	38.0	E5553010	3.67
1.5	3.0	2.0	38.0	E5553015	3.67
2.0	6.0	4.0	35.0	E5553020	3.67
2.5	6.0	5.0	36.0	E5553025	3.67
3.0	6.0	5.0	36.0	E5553030	3.67
3.5	6.0	6.0	37.0	E5553035	4.28
4.0	6.0	7.0	38.0	E5553040	4.28
4.5	6.0	8.0	38.0	E5553045	5.51
5.0	6.0	8.0	39.0	E5553050	5.51
5.5	6.0	8.0	39.0	E5553055	5.51
6.0	6.0	8.0	39.0	E5553060	5.51
7.0	8.0	10.0	42.0	E5553070	7.47
8.0	8.0	11.0	43.0	E5553080	7.96
9.0	10.0	11.0	48.0	E5553090	10.94
10.0	10.0	13.0	50.0	E5553100	11.62



## Intermediate Length

INTERMEDIATE LENGTH. 2 & 3 FLUTE,  
CENTRE CUTTING CARBIDE  
MILLING CUTTERS (UNCOATED)



Diameter	Shank Diameter	Flute Length	Overall Length	2 Flute	3 Flute	2007 £
				Uncoated		
3.5	3.5	7.0	50.0	E5527035	E5528035	6.21
4.0	4.0	8.0	50.0	E5527040	E5528040	6.21
4.5	4.5	8.0	50.0	E5527045	E5528045	6.57
5.0	5.0	10.0	50.0	E5527050	E5528050	6.57
5.5	5.5	10.0	57.0	E5527055	E5528055	10.00
6.0	6.0	10.0	57.0	E5527060	E5528060	10.00
6.5	6.5	13.0	60.0	E5527065	E5528065	10.68
7.0	7.0	13.0	60.0	E5527070	E5528070	10.68
7.5	7.5	16.0	63.0	E5527075	E5528075	11.76
8.0	8.0	16.0	63.0	E5527080	E5528080	11.76
8.5	8.5	16.0	67.0	E5527085	E5528085	17.71
9.0	9.0	16.0	67.0	E5527090	E5528090	17.71
9.5	9.5	19.0	72.0	E5527095	E5528095	18.95
10.0	10.0	19.0	72.0	E5527100	E5528100	18.95
11.0	11.0	22.0	83.0	E5527110	E5528110	27.14
12.0	12.0	22.0	83.0	E5527120	E5528120	27.14
13.0	13.0	22.0	83.0	E5527130	E5528130	34.95
14.0	14.0	22.0	83.0	E5527140	E5528140	34.95
15.0	15.0	26.0	92.0	E5527150	E5528150	46.87
16.0	16.0	26.0	92.0	E5527160	E5528160	46.87
18.0	18.0	26.0	92.0	E5527180	E5528180	61.67
20.0	20.0	32.0	104.0	E5527200	E5528200	76.47



## Long Length

LONG LENGTH. 2 & 4 FLUTE,  
SOLID CARBIDE  
MILLING CUTTERS (UNCOATED)



Diameter	Shank Diameter	Flute Length	Overall Length	2 Flute	4 Flute	2007 £
				Uncoated		
3.0	3.0	25.0	65.0	E5500030	E5510030	8.69
4.0	4.0	25.0	65.0	E5500040	E5510040	9.44
5.0	5.0	25.0	75.0	E5500050	E5510050	10.13
6.0	6.0	25.0	75.0	E5500060	E5510060	10.57
8.0	8.0	25.0	75.0	E5500080	E5510080	13.86
10.0	10.0	38.0	100.0	E5500100	E5510100	23.87
12.0	12.0	50.0	100.0	E5500120	E5510120	33.44
14.0	14.0	75.0	150.0	E5500140	E5510140	63.82
16.0	16.0	75.0	150.0	E5500160	E5510160	81.16
18.0	18.0	75.0	150.0	E5500180	E5510180	101.59
20.0	20.0	75.0	150.0	E5500200	E5510200	130.29
25.0	25.0	75.0	150.0	E5500250	E5510250	156.34



## Extra Long Length

EXTRA LONG LENGTH.  
2 & 4 FLUTE, CENTRE CUTTING  
CARBIDE CUTTERS (UNCOATED)



Diameter	Shank Diameter	Flute Length	Overall Length	2 Flute	4 Flute	2007 £
				Uncoated		
3.0	3.0	30.0	75.0	E5452030	E5453030	8.89
4.0	4.0	30.0	75.0	E5452040	E5453040	9.49
5.0	5.0	40.0	100.0	E5452050	E5453050	12.43
6.0	6.0	50.0	150.0	E5452060	E5453060	15.36
8.0	8.0	50.0	150.0	E5452080	E5453080	23.40
10.0	10.0	60.0	150.0	E5452100	E5453100	28.52
12.0	12.0	75.0	150.0	E5452120	E5453120	43.34

See page 8  
for technical  
guide to YG-1  
Milling Cutters

## Standard Length Ball Nosed

STANDARD LENGTH BALL NOSED.  
2 & 4 FLUTE, (UNCOATED)



Diameter	Shank Diameter	Flute Length	Overall Length	2 Flute	4 Flute	2007 £
				Uncoated		
2.0	6.0	4.0	48.0	E5624020	E5634020	4.54
3.0	6.0	4.0	48.0	E5624030	E5634030	4.54
4.0	6.0	6.0	50.0	E5624040	E5634040	5.29
5.0	6.0	7.0	51.0	E5624050	E5634050	6.71
6.0	6.0	7.0	51.0	E5624060	E5634060	7.03
8.0	8.0	9.0	59.0	E5624080	E5634080	8.40
10.0	10.0	10.0	60.0	E5624100	E5634100	14.68
12.0	12.0	14.0	71.0	E5624120	E5634120	16.92



## DO YOU WANT COATED CARBIDE?

Please see our K2 range on  
pages 40 - 47



## BRIGHT IDEAS!



Machining stainless and solid carbide tools are chipping? Tank Power coated powder metal machines stainless with the power of carbide and toughness of HSSE. See pages 28 - 33.



## Intermediate Length Ball Nosed

### INTERMEDIATE LENGTH BALL NOSED. 2 & 4 FLUTE (UNCOATED)



See page 8  
for technical  
guide to YG-1  
Milling Cutters

Diameter	Shank Diameter	Flute Length	Overall Length	2 Flute	4 Flute	2007 £
				Uncoated		
1.0	3.0	4.0	38.0	F5445010	F5450010	6.27
1.5	3.0	4.5	38.0	F5445015	F5450015	6.27
2.0	3.0	6.3	38.0	F5445020	F5450020	6.27
2.5	3.0	9.5	38.0	F5445025	F5450025	5.22
3.0	3.0	12.0	38.0	F5445030	F5450030	6.27
3.5	4.0	12.0	50.0	F5445035	F5450035	8.62
4.0	4.0	14.0	50.0	F5445040	F5450040	8.62
4.5	6.0	16.0	50.0	F5445045	F5450045	10.86
5.0	6.0	16.0	50.0	F5445050	F5450050	10.86
6.0	6.0	19.0	50.0	F5445060	F5450060	11.37
7.0	8.0	19.0	63.0	F5445070	F5450070	12.32
8.0	8.0	20.0	63.0	F5445080	F5450080	12.80
9.0	10.0	22.0	75.0	F5445090	F5450090	19.14
10.0	10.0	22.0	75.0	F5445100	F5450100	23.85
11.0	12.0	25.0	75.0	F5445110	F5450110	26.28
12.0	12.0	25.0	75.0	F5445120	F5450120	27.71
14.0	14.0	32.0	89.0	F5445140	F5450140	41.36
16.0	16.0	32.0	89.0	F5445160	F5450160	45.68
18.0	18.0	38.0	100.0	F5445180	F5450180	65.49
20.0	20.0	38.0	100.0	F5445200	F5450200	73.73
25.0	25.0	38.0	100.0	F5445250	F5450250	112.15



## Long Length Ball Nosed

### LONG LENGTH BALL NOSED. 2 & 4 FLUTE, (UNCOATED)



Diameter	Shank Diameter	Flute Length	Overall Length	2 Flute	4 Flute	2007 £
				Uncoated		
6.0	6.0	25.0	75.0	F5454060	F5455060	16.50
8.0	8.0	25.0	75.0	F5454080	F5455080	18.16
10.0	10.0	38.0	100.0	F5454100	F5455100	28.95
12.0	12.0	50.0	100.0	F5454120	F5455120	41.45
14.0	14.0	75.0	150.0	F5454140	-	103.49
16.0	16.0	75.0	150.0	F5454160	F5455160	129.82
18.0	18.0	75.0	150.0	F5454180	-	162.51
20.0	20.0	75.0	150.0	F5454200	F5455200	216.14
25.0	25.0	75.0	150.0	F5454250	F5455250	259.31



### CUTWEL RECOMMENDS

X-Power ... for ultimate machining of all steels <HRC70. Please see pages 56 - 71.