



Carbide End Mill Sets

- 1/8 in, 3/16 in, 1/4 in, 5/16 in, 3/8 in sizes included
- Center cutting

Sets contain five end mills in a range of sizes and are ideal for job sites that frequently use various sizes of end mills in machining tasks.

**Ball End Mill
45XW26**



Finish - Machining	No. of Flutes	Corner Radius	Helix Angle	Item No.
Ball				
AlTiN Finish	3	—	30°	45XV08
	4	—	30°	45XW26
	2	—	30°	45XU24
Bright (Uncoated) Finish	3	—	30°	45XV07
	4	—	30°	45XW25
TiCN Finish	2	—	30°	45XU25
Corner Radius				
Bright (Uncoated) Finish	2	0.005 to 0.010"	42°	52ZT35
	3	1/64"	42°	52ZU91
	2	1/64"	42°	52ZT36
ZrN Finish	3	1/64"	42°	52ZU92

Finish - Machining	No. of Flutes	Corner Radius	Helix Angle	Item No.
Drill Mill				
AlTiN Finish	2	—	30°	45XM45
	4	—	30°	45XM47
Bright (Uncoated) Finish	2	—	30°	45XM44
	4	—	30°	45XM46
Square				
AlTiCrN Finish	4	—	Variable	45XY16
	3	—	30°	45XJ81
AlTiN Finish	4	—	30°	45XM43
	3	—	42°	52ZL40
Bright (Uncoated) Finish	3	—	30°	45XJ80
	4	—	30°	45XM42
	4	—	Variable	45XY15
TiCN Finish	2	—	30°	45XH96
ZrN Finish	3	—	42°	52ZL41

Square End Mills

Square end mills have a square nose and create a flat-bottomed groove with 90° inside corners in milling tasks. Also called square-nose end mills, they are used for counterboring, side and face milling, and milling square shoulders.

General purpose end mills are intended for milling a wide variety of common materials.

High-performance end mills are used in production milling.

Roughing end mills remove large amounts of material from a workpiece more quickly than roughing/finishing and finishing end mills.

Roughing/finishing end mills remove large amounts of material and create a smooth finish on the workpiece at the same time.

Finishing end mills create a finer finish on the workpiece than roughing and roughing/finishing end mills.



High-Performance Finishing Carbide Square End Mills

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Helix Angle	Brand	Item No.
AlTiCrN Finish						
4 Flutes						
1/8 in	1/2 in	1 1/2 in	1/8 in	Variable	—	45XX47
1/8 in	1 in	3 in	1/8 in	Variable	—	45XX51
1/4 in	3/4 in	2 1/2 in	1/4 in	Variable	—	45XX59
1/4 in	1 1/2 in	4 in	1/4 in	Variable	—	45XX63
3/8 in	1 in	2 1/2 in	3/8 in	Variable	—	45XX71
3/8 in	1 3/4 in	4 in	3/8 in	Variable	—	45XX75
1/2 in	1 1/4 in	3 in	1/2 in	Variable	—	45XX85
1/2 in	1 in	3 in	1/2 in	Variable	—	45XX83
1/2 in	2 in	4 in	1/2 in	Variable	—	45XX89
1/2 in	3 in	6 in	1/2 in	Variable	—	45XX91
3/4 in	1 1/2 in	4 in	3/4 in	Variable	—	45XX99
3/4 in	2 1/4 in	5 in	3/4 in	Variable	—	45XY02
3/4 in	3 in	6 in	3/4 in	Variable	—	45XY04
3/4 in	4 in	7 in	3/4 in	Variable	—	45XY12
1 in	3 in	6 in	1 in	Variable	—	45XY14
1 in	4 in	7 in	1 in	Variable	—	45XY14
Bright (Uncoated) Finish						
2 Flutes						
1/8 in	1/4 in	1 1/2 in	1/8 in	30°	YG-1 Tool Company	35U873
1/8 in	3/8 in	1 1/2 in	1/8 in	30°	OSG	2TW65
1/8 in	3/8 in	1 1/2 in	1/8 in	45°	Cleveland	32ZY87
1/8 in	1/2 in	1 1/2 in	1/8 in	30°	YG-1 Tool Company	35U747
3/16 in	3/8 in	2 in	3/16 in	45°	Cleveland	32ZY88
3/16 in	9/16 in	2 in	3/16 in	30°	OSG	2TW05
1/4 in	1/4 in	4 in	1/4 in	30°	OSG	33PA47
1/4 in	3/8 in	2 1/2 in	1/4 in	45°	Cleveland	32ZY90
1/4 in	3/4 in	2 1/2 in	1/4 in	30°	OSG	2TW06
1/4 in	3/4 in	2 1/2 in	1/4 in	30°	YG-1 Tool Company	35U755
1/4 in	1 1/4 in	3 in	1/4 in	45°	Cleveland	32ZY92
3/8 in	1/2 in	2 1/2 in	3/8 in	45°	Cleveland	32ZY97
3/8 in	1 in	2 1/2 in	3/8 in	30°	YG-1 Tool Company	35U757
3/8 in	2 1/2 in	6 in	3/8 in	45°	Cleveland	32Z701
1/2 in	3/8 in	2 1/2 in	1/2 in	30°	YG-1 Tool Company	35U881
1/2 in	3/8 in	3 in	1/2 in	45°	Cleveland	32Z705
1/2 in	1 in	3 in	1/2 in	30°	YG-1 Tool Company	35U759
1/2 in	2 in	4 in	1/2 in	30°	YG-1 Tool Company	35U956
1/2 in	2 in	4 in	1/2 in	45°	Cleveland	32Z707
1/2 in	3 1/2 in	6 in	1/2 in	45°	Cleveland	32Z708
3/4 in	1 1/2 in	4 in	3/4 in	30°	YG-1 Tool Company	35U761
3/4 in	1 in	4 in	3/4 in	45°	Cleveland	32Z713
3/4 in	2 1/4 in	5 in	3/4 in	30°	YG-1 Tool Company	35U958
3/4 in	3 1/4 in	6 in	3/4 in	45°	Cleveland	32Z715
1 in	1 1/4 in	5 in	1 in	45°	Cleveland	32Z717
1 in	3 1/4 in	6 in	1 in	45°	Cleveland	32Z719
1 in	4 1/4 in	7 in	1 in	45°	Cleveland	32Z720
Diamond Finish						
2 Flutes						
1/8 in	1/2 in	1 3/4 in	1/8 in	30°	OSG	30LS23
3/8 in	7/8 in	2 1/2 in	3/8 in	30°	OSG	30LS25
4 Flutes						
1/8 in	1/2 in	1 3/4 in	1/8 in	30°	OSG	2WDL9
3/16 in	3/4 in	2 in	3/16 in	30°	OSG	30LS33
1/4 in	3/4 in	2 1/2 in	1/4 in	30°	OSG	2WDN1
3/8 in	7/8 in	2 1/2 in	3/8 in	30°	OSG	2WDN3

Milling Dia.	Length of Cut	Overall Length	Shank Dia.	Helix Angle	Brand	Item No.
DLC Finish						
3 Flutes						
1/4 in	2 1/4 in	4 1/2 in	1/4 in	35°	OSG	54LD15
1 in	2 1/4 in	4 1/2 in	1 in	35°	OSG	54LD18
20.00 mm	30.00 mm	100.00 mm	20.00 mm	35°	OSG	54LD20
20.00 mm	50.00 mm	110.00 mm	20.00 mm	35°	OSG	54LD22
20.00 mm	100.00 mm	160.00 mm	20.00 mm	35°	OSG	54LD23
25.00 mm	37.50 mm	100.00 mm	25.00 mm	35°	OSG	54LD21
GMS Finish						
5 Flutes						
1/4 in	3/4 in	2 1/2 in	1/4 in	Variable	—	36PP05
1/2 in	3/8 in	2 1/2 in	1/2 in	Variable	—	36PM80
3/4 in	1 1/2 in	4 in	3/4 in	Variable	—	36PP21
7 Flutes						
1/2 in	1/2 in	2 in	1/2 in	Variable	—	36PP08
1/2 in	3/8 in	2 1/2 in	1/2 in	Variable	—	36PN81
GMX-35 Finish						
4 Flutes						
1/4 in	3 in	6 in	1/4 in	Variable	—	36PJ61
3/8 in	1/2 in	2 1/2 in	3/8 in	Variable	—	36PK82
3/8 in	1 1/4 in	3 in	3/8 in	Variable	—	36PK84
1/2 in	1 1/4 in	3 in	1/2 in	Variable	—	36PH97
1/2 in	1 in	3 in	1/2 in	Variable	—	36PJ01
1/2 in	1 1/2 in	4 in	1/2 in	Variable	—	36PJ04
3/4 in	1 1/2 in	4 in	3/4 in	Variable	—	36PK30
3/4 in	1 in	4 in	3/4 in	Variable	—	36PK36
1 in	1 1/2 in	4 in	1 in	Variable	—	36PH34
5 Flutes						
1/4 in	3 in	6 in	1/4 in	Variable	—	36PJ62
1 in	1 1/2 in	4 in	1 in	Variable	—	36PH36
1 in	3 in	6 in	1 in	Variable	—	36PH47
TIAM Finish						
2 Flutes						
1/4 in	3/4 in	2 1/2 in	1/4 in	30°	YG-1 Tool Company	35U799
1/2 in	3/8 in	2 1/2 in	1/2 in	30°	YG-1 Tool Company	35U908
1/2 in	1 in	3 in	1/2 in	30°	YG-1 Tool Company	35U804
3/4 in	1 1/2 in	4 in	3/4 in	30°	YG-1 Tool Company	35U806
1 in	1 1/2 in	4 in	1 in	30°	YG-1 Tool Company	35U807
4 Flutes						
1/4 in	3/4 in	2 1/2 in	1/4 in	30°	YG-1 Tool Company	35U862
1/4 in	1 1/8 in	3 in	1/4 in	30°	YG-1 Tool Company	35U003
3/8 in	3/8 in	2 in	3/8 in	30°	YG-1 Tool Company	35U945
3/8 in	1 in	2 1/2 in	3/8 in	30°	YG-1 Tool Company	35U865
3/8 in	1 3/8 in	3 in	3/8 in	30°	YG-1 Tool Company	35U005
1/2 in	3/8 in	2 1/2 in	1/2 in	30°	YG-1 Tool Company	35U947
1/2 in	1 in	3 in	1/2 in	30°	YG-1 Tool Company	35U867
1/2 in	2 in	4 in	1/2 in	30°	YG-1 Tool Company	35U007
3/4 in	1 1/2 in	4 in	3/4 in	30°	YG-1 Tool Company	35U869
TIN Finish						
4 Flutes						
1/4 in	1/2 in	1 1/2 in	1/4 in	30°	YG-1 Tool Company	35U833
1/4 in	3/4 in	2 1/2 in	1/4 in	30°	YG-1 Tool Company	35U841
3/8 in	3/8 in	2 in	3/8 in	30°	YG-1 Tool Company	35U932
3/8 in	1 1/8 in	3 in	3/8 in	30°	YG-1 Tool Company	35U994
1/2 in	3/8 in	2 1/2 in	1/2 in	30°	YG-1 Tool Company	35U934
1/2 in	1 in	3 in	1/2 in	30°	YG-1 Tool Company	35U846
1/2 in	2 in	4 in	1/2 in	30°	YG-1 Tool Company	35U848
3/4 in	1 1/2 in	4 in	3/4 in	30°	YG-1 Tool Company	35U998
1 in	1 1/2 in	4 in	1 in	30°	YG-1 Tool Company	35U849
1 in	2 1/4 in	5 in	1 in	30°	YG-1 Tool Company	35U999
ZrN Finish						
3 Flutes						
1/4 in	3/8 in	1 1/2 in	1/4 in	35°	Cleveland	407H92
1/4 in	3/8 in	2 in	1/4 in	35°	Cleveland	407H95
1/4 in	3/4 in	2 1/2 in	1/4 in	35°	Cleveland	407H96
3/8 in	1/2 in	2 in	3/8 in	35°	Cleveland	407J03
3/8 in	1 in	2 1/2 in	3/8 in	35°	Cleveland	407J04
3/8 in	1 1/2 in	3 1/2 in	3/8 in	35°	Cleveland	407J05
1/2 in	3/8 in	2 1/2 in	1/2 in	35°	Cleveland	407J10
1/2 in	1 1/4 in	3 in	1/2 in	35°	Cleveland	407J11
1/2 in	2 in	4 in	1/2 in	35°	Cleveland	407J12
3/4 in	1 in	3 in	3/4 in	35°	Cleveland	407J18
3/4 in	3 1/4 in	6 in	3/4 in	35°	Cleveland	407J20
1 in	3 1/2 in	6 in	1 in	35°	Cleveland	407J23