

BX Non-Center Cutting Roughing End Mills

Coarse Pitch • 8% Cobalt Steel

Balax BX Coarse Pitch Roughing End Mills are made from 8% cobalt high speed tool steel and are designed for low carbon steel, stainless steel, and other soft to medium hard ferrous materials.



FBX Non-Center Cutting Roughing End Mills

Fine Pitch • 8% Cobalt Steel

Balax FBX Fine Pitch Roughing End Mills are made from 8% cobalt high speed tool steel and are designed for use in alloys, steel, titanium, inconel and other difficult to mill materials.



Coarse Pitch				Fine Pitch				BX and FBX Specifications				
Use for softer materials where higher machinability rating allows the formation of large chips.				Use for harder materials where low machinability rating requires the formation of small chips.				Number of Flutes	Dia. of Cutter (in.)	Dia. of Shank (in.)	Length of Cut (in.)	Overall Length (in.)
BX Stock Number	Bright Finish	Titanium Nitride (TiN)	Titanium Carbo-Nitride (TiCN)	FBX Stock Number	Bright Finish	Titanium Nitride (TiN)	Titanium Carbo-Nitride (TiCN)					
BX250-5	99000	99000T	99000C	FBX250-5	99028	99028T	99028C	4	1/4	3/8	5/8	2-7/16
BX312-6	99002	99002T	99002C	FBX312-6	99030	99030T	99030C	4	5/16	3/8	3/4	2-1/2
BX375-6	99004	99004T	99004C	FBX375-6	99032	99032T	99032C	4	3/8	3/8	3/4	2-1/2
BX437-8	99006	99006T	99006C	FBX437-8	99034	99034T	99034C	4	7/16	3/8	1	2-3/4
BX500-10	99008	99008T	99008C	FBX500-10	99036	99036T	99036C	4	1/2	1/2	1-1/4	3-1/4
BX500-16	99010	99010T	99010C	FBX500-16	99038	99038T	99038C	4	1/2	1/2	2	4
BX625-13	99013	99013T	99013C	FBX625-13	99041	99041T	99041C	4	5/8	5/8	1-5/8	3-3/4
BX625-20	99015	99015T	99015C	FBX625-20	99043	99043T	99043C	4	5/8	5/8	2-1/2	4-5/8
BX750-13	99016	99016T	99016C	FBX750-13	99044	99044T	99044C	4	3/4	3/4	1-5/8	3-3/4
BX750-24	99018	99018T	99018C	FBX750-24	99046	99046T	99046C	4	3/4	3/4	3	5-1/4
BX1000-16	99020	99020T	99020C	FBX1000-16	99048	99048T	99048C	5	1	1	2	4-1/2
BX1000-32	99022	99022T	99022C	FBX1000-32	99050	99050T	99050C	5	1	1	4	6-1/2
BX1250-16	99024	99024T	99024C	FBX1250-16	99052	99052T	99052C	6	1-1/4	1-1/4	2	4-1/2
BX1250-32	99026	99026T	99026C	FBX1250-32	99054	99054T	99054C	6	1-1/4	1-1/4	4	6-1/2

AB-Extra Roughing End Mills

3-Flute Center Cutting

Balax AB-Extra Roughing End Mills are designed for high speed milling of aluminum or other soft materials. They are made from hardened high speed tool steel and have three large polished flutes for clean chip ejection. All AB-Extra Roughers have center cutting end features.



Stock Number	Diameter of Cutter (in.)	Diameter of Shank (in.)	Length of Cut (in.)	Overall Length (in.)	EDP Number
ABX250-5	1/4	3/8	5/8	2-1/2	99300
ABX375-6	3/8	3/8	3/4	2-1/2	99302
ABX500-10	1/2	1/2	1-1/4	3-1/4	99304
ABX500-16	1/2	1/2	2	4	99306
ABX625-13	5/8	5/8	1-5/8	3-3/4	99309
ABX625-20	5/8	5/8	2-1/2	4-5/8	99311
ABX750-13	3/4	3/4	1-5/8	3-7/8	99313
ABX750-24	3/4	3/4	3	5-1/4	99314
ABX1000-16	1	1	2	4-1/2	99316
ABX1000-32	1	1	4	6-1/2	99318
ABX1250-16	1-1/4	1-1/4	2	4-1/2	99320
ABX1250-32	1-1/4	1-1/4	4	6-1/2	99322

SBX Stub Roughing End Mills

3-Flute Center Cutting Fine Pitch 8% Cobalt Steel



Stock Number	Diameter of Cutter (in.)	Diameter of Shank (in.)	Length of Cut (in.)	Overall Length (in.)	Bright Finish	Titanium Nitride (TiN)	Titanium Carbo-Nitride (TiCN)
SBX250-2	1/4	3/8	1/4	2-1/16	99400	99400T	99400C
SBX375-3	3/8	3/8	3/8	2-5/32	99402	99402T	99402C
SBX500-4	1/2	1/2	1/2	2-1/2	99404	99404T	99404C
SBX625-5	5/8	5/8	5/8	2-3/4	99406	99406T	99406C
SBX750-6	3/4	3/4	3/4	2-7/8	99408	99408T	99408C
SBX1000-8	1	1	1	3-1/2	99410	99410T	99410C

Bal-Tap "S" Tapping Fluid

For Cold Forming and Cutting Taps

Balax Bal-Tap "S" Tapping Fluid contains space age additives to help you increase tapping speeds and reduce tap wear and breakage. The result? Increased productivity and improved thread quality.

Bal-Tap "S" is a non-hazardous, petroleum-based fluid, with a dark blue-green color and non-offensive odor. It is ideal for forming or cutting tap applications in all metals except brass, bronze and copper. Available sizes include pint bottles, 1-gallon bottles, 5-gallon pails and 55-gallon drums.

Bal-Tap "S" benefits include:

- Extended tap life
- Improved part surface finish
- Faster tapping speeds
- CFC Trichloroethane-free composition
- Adheres to the wall of the part for improved horizontal tapping
- Maintains constant lubrication under extreme pressure and temperature
- Costs less than other tapping fluids

For Cold Forming Taps

- First tapping fluid designed specifically for cold form tapping
- Performs especially well in harder materials, such as steel and stainless steel
- Reduces tapping torque and tap breakage

For Cutting Taps

- Ideal for exotic and hard-to-machine materials where tapping torque exceeds tap strength
- Reduces cutting edge temperature and preserves cutting edge sharpness
- Reduces galling and tearing, leaving a smoother thread finish

- Improves thread gaging

Contact Balax for a Material Data Safety Sheet.

Stock Sizes

- Pint Bottle — EDP 00002
- Pint Bottle Case — EDP 00003 (12 per case)
- Gallon Bottle — EDP 00006 (Case only / 4 per case)
- 5-Gallon Pail — EDP 00004
- 55-Gallon Drum — EDP 00005

