

2 FLUTE ENDMILLS



TWO FLUTE ENDMILL ~ SINGLE END HIGH SPEED STEEL

Regularly furnished with right hand cut - right hand spiral.
(Endmills with left hand cut - left hand spiral shown in following series.)

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	List Price
17431-T304	1/8	3/8	3/8	2 5/16	\$10.35
17432-T305	5/32	3/8	3/8	2 5/16	11.35
17433-T306	3/16	3/8	3/8	2 5/16	10.35
17434-T307	7/32	3/8	1/2	2 5/16	11.35
17435-T308	1/4	3/8	1/2	2 5/16	10.35
17436-T309	9/32	3/8	9/16	2 5/16	11.35
17437-T310	5/16	3/8	9/16	2 5/16	10.35
17438-T311	11/32	3/8	9/16	2 5/16	11.35
17439-T312	3/8	3/8	9/16	2 3/8	10.35
17440-T314	7/16	3/8	13/16	2 1/2	13.75
17441-T316	1/2	3/8	13/16	2 1/2	13.75
17442-T318	1/2	1/2	1	3	14.30
17443-T320	9/16	1/2	1 1/8	3 1/8	19.15
17444-T322	5/8	1/2	1 1/8	3 1/8	21.50
17447-T328	5/8	5/8	1 5/16	3 7/16	22.00
17445-T324	11/16	1/2	1 5/16	3 5/16	23.45
17448-T330	11/16	5/8	1 5/16	3 7/16	23.45
17446-T326	3/4	1/2	1 5/16	3 5/16	25.00
17449-T332	3/4	5/8	1 5/16	3 7/16	25.00
17458-T341	3/4	3/4	1 5/16	3 9/16	25.00
17450-T333	13/16	1/2	1 1/2	3 5/8	30.70
17451-T334	13/16	5/8	1 1/2	3 5/8	30.70
17459-T341A	13/16	3/4	1 1/2	3 3/4	30.65
17452-T335	7/8	1/2	1 1/2	3 1/2	30.80
17453-T336	7/8	5/8	1 1/2	3 5/8	30.80
17460-T341B	7/8	3/4	1 1/2	3 3/4	34.10

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	List Price
17461-T342	7/8	7/8	1 1/2	3 3/4	\$34.10
17454-T337	15/16	1/2	1 1/2	3 1/2	34.80
17455-T338	15/16	5/8	1 1/2	3 5/8	34.80
17462-T343	15/16	3/4	1 1/2	3 3/4	34.80
17463-T344	15/16	7/8	1 1/2	3 3/4	34.80
17456-T339	1	1/2	1 1/2	3 1/2	35.55
17457-T340	1	5/8	1 1/2	3 5/8	35.55
17464-T345	1	3/4	1 1/2	3 3/4	35.55
17465-T346	1	7/8	1 1/2	3 3/4	35.55
17472-T352	1	1	1 5/8	4 1/8	39.60
17466-T347	1 1/8	3/4	1 5/8	3 7/8	55.80
17467-T348	1 1/8	7/8	1 5/8	3 7/8	55.80
17473-T354	1 1/8	1	1 5/8	4 1/8	56.60
17468-T349	1 1/4	3/4	1 5/8	3 7/8	55.80
17469-T350	1 1/4	7/8	1 5/8	3 7/8	55.80
17474-T356	1 1/4	1	1 5/8	4 1/8	62.90
17477-T362	1 1/4	1 1/4	1 5/8	4 1/8	63.50
17470-T351	1 3/8	3/4	1 5/8	3 7/8	68.70
17475-T358	1 3/8	1	1 5/8	4 1/8	68.80
17471-T351A	1 1/2	3/4	1 5/8	3 7/8	77.45
17476-T360	1 1/2	1	1 5/8	4 1/8	75.30
17478-T364	1 1/2	1 1/4	1 5/8	4 1/8	75.30
17479-T366	1 5/8	1 1/4	1 5/8	4 1/8	83.15
17480-T368	1 3/4	1 1/4	1 5/8	4 1/8	92.70
17481-T370	1 7/8	1 1/4	1 5/8	4 1/8	99.85
17482-T372	2	1 1/4	1 5/8	4 1/8	109.35
17483-T374	2	2	2	5 3/4	168.30

TWO FLUTE ENDMILL ~ SINGLE END ~ LONG HIGH SPEED STEEL

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	List Price
17701-TL308	1/4	3/8	1	3 1/16	\$13.30
17702-TL310	5/16	3/8	1 1/4	3 5/16	13.30
17703-TL312	3/8	3/8	1	2 13/16	12.70
17704-TL712	3/8	3/8	1 1/2	3 5/16	13.30
17705-TL314	7/16	1/2	1 1/2	3 9/16	16.65
17706-TL318	1/2	1/2	1 1/2	3 9/16	17.65
17707-TL718	1/2	1/2	2	4 1/16	19.30
17708-TL818	1/2	1/2	2 1/2	4 9/16	23.00
17709-TL918	1/2	1/2	3	5 1/16	24.00
17710-TL322	5/8	1/2	2 3/8	4 1/2	28.40
17711-TL326	3/4	1/2	3 1/8	5 1/8	39.40
17712-TL328	5/8	5/8	2	4 1/8	25.20
17713-TL728	5/8	5/8	2 1/2	4 5/8	39.40
17714-TL928	5/8	5/8	3	5 1/8	30.70
17715-TL341	3/4	3/4	2 1/4	4 1/2	30.35
17716-TL741	3/4	3/4	2 1/2	5	34.90
17717-TL841	3/4	3/4	3	5 1/2	39.40
17718-TL941	3/4	3/4	3 1/2	6	39.05
17719-TL342	7/8	7/8	2 1/2	4 3/4	37.00



Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	List Price
17720-TL742	7/8	7/8	3 5/8	6 1/16	\$48.60
17721-TL352	1	1	2	4 7/16	45.80
17722-TL552	1	1	2 1/2	5 1/16	47.85
17723-TL652	1	1	3	5 9/16	50.30
17724-TL752	1	1	3 1/2	6 1/16	57.10
17725-TL852	1	1	4	6 9/16	62.40
17726-TL952	1	1	4 5/8	7 5/16	67.85
17727-TL354	1 1/8	1	3	5 1/2	71.40
17728-TL356	1 1/4	1	3	5 1/2	81.05
17729-TL362	1 1/4	1 1/4	3	5 9/16	78.30
17730-TL762	1 1/4	1 1/4	3 1/2	6 1/16	85.85
17731-TL962	1 1/4	1 1/4	4 3/4	7 5/16	97.90
17732-TL358	1 3/8	1	3	5 1/2	84.70
17733-TL764	1 1/2	1 1/4	3	5 1/2	93.70
17734-TL766	1 5/8	1 1/4	3	5 1/2	107.40
17735-TL768	1 3/4	1 1/4	3	5 1/2	117.45
17736-TL770	1 7/8	1 1/4	3	5 1/2	133.30
17737-TL772	2	1 1/4	3	5 1/2	141.70

COATINGS AVAILABLE ON EVERY TOOL ** See Page 161 for details



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TWO FLUTE ENDMILL SINGLE END HIGH SPEED STEEL



Regularly furnished with left hand cut-left hand spiral.
(Endmills with right hand cut-right hand spiral are shown in preceding series.)

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	List Price
17551-T304L	1/8	3/8	3/8	2 3/8	\$18.10
17552-T306L	3/16	3/8	3/8	2 3/8	18.10
17553-T308L	1/4	3/8	1/2	2 3/8	18.10
17554-T310L	5/16	3/8	9/16	2 3/8	18.10
17555-T312L	3/8	3/8	9/16	2 3/8	18.10
17556-T314L	7/16	3/8	13/16	2 1/2	23.45
17557-T318L	1/2	1/2	1	3	23.45
17558-T328L	5/8	5/8	1 5/16	3 7/16	37.35
17559-T332L	3/4	5/8	1 1/2	3 7/16	42.50
17560-T334L	13/16	5/8	1 1/2	3 5/8	52.35
17561-T336L	7/8	5/8	1 1/2	3 5/8	53.90
17562-T338L	15/16	5/8	1 1/2	3 5/8	63.20
17563-T340L	1	5/8	1 1/2	3 5/8	63.20
17564-T342L	7/8	7/8	1 1/2	3 3/4	53.85
17565-T344L	15/16	7/8	1 1/2	3 3/4	63.20
17566-T346L	1	7/8	1 1/2	3 3/4	63.20



TWO FLUTE ENDMILL SINGLE END ~ STRAIGHT FLUTE HIGH SPEED STEEL

Regularly furnished with right hand straight flutes.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	List Price
17611-T608	1/4	1/4	3/8	1 7/16	\$12.50
17612-T610	5/16	5/16	15/32	1 9/16	13.80
17613-T612	3/8	3/8	9/16	1 5/8	14.30
17614-T614	7/16	7/16	21/32	2	16.55
17615-T618	1/2	1/2	3/4	2 1/16	19.15
17616-T628	5/8	5/8	15/16	2 5/16	23.45
17617-T632	3/4	3/4	1 1/8	2 1/2	25.20
17618-T642	7/8	7/8	1 1/2	3 3/4	41.55
17619-T646	1	7/8	1 1/2	3 3/4	54.60
17620-T648	1 1/8	7/8	1 5/8	3 7/8	68.30
17621-T650	1 1/4	7/8	1 5/8	3 7/8	76.00



TWO FLUTE ENDMILL SHORT SERIES HIGH SPEED STEEL

Regularly furnished with right hand cut-right hand spiral.
Diameter of shank is the same as diameter of cut.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	List Price
17581-T508	1/4	1/4	3/8	1 7/16	\$12.90
17582-T510	5/16	5/16	15/32	1 9/16	14.50
17583-T512	3/8	3/8	9/16	1 5/8	14.70
17584-T514	7/16	7/16	21/32	2	17.45
17585-T518	1/2	1/2	3/4	2 1/16	20.00
17586-T528	5/8	5/8	15/16	2 5/16	24.45
17587-T532	3/4	3/4	1 1/8	2 1/2	26.15



TWO FLUTE ENDMILL SINGLE END LONG ~ EXTENSION TYPE HIGH SPEED STEEL

These mills are designed for longer reach required to mill some slots or pockets.
Regularly furnished with right hand cut-right hand spiral.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	List Price
17641-T708	1/4	3/8	5/8	3 1/16	\$12.70
17642-T710	5/16	3/8	3/4	3 5/16	12.95
17643-T712	3/8	3/8	3/4	3 5/16	12.95
17644-T718	1/2	1/2	1	4 1/16	18.60
17645-T728	5/8	5/8	1 3/8	4 11/16	27.35
17646-T732	3/4	3/4	1 5/8	5 7/16	34.80
17647-T742	7/8	7/8	2	6 1/16	44.80
17648-T752	1	1	2 1/2	7 5/16	60.65
17649-T762	1 1/4	1 1/4	3	7 5/16	82.45

COATINGS AVAILABLE ON EVERY TOOL ** See Page 161 for details

2 FLUTE ENDMILLS



TWO FLUTE ENDMILL – DOUBLE END HIGH SPEED STEEL

Regularly furnished with right hand cut-right hand spiral.
(Endmills with left hand cut-left hand spiral are shown in the following series.)

**64th
Sizes**



Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	List Price
17341-T204	1/8	3/8	3/8	3 1/8	\$14.40
17342-T204A	9/64	3/8	7/16	3 1/8	15.25
17343-T205	5/32	3/8	7/16	3 1/8	15.25
17344-T205A	11/64	3/8	7/16	3 1/8	15.25
17345-T206	3/16	3/8	7/16	3 1/8	14.40
17346-T206A	13/64	3/8	1/2	3 1/8	15.25
17347-T207	7/32	3/8	1/2	3 1/8	15.25
17348-T207A	15/64	3/8	1/2	3 1/8	15.25
17349-T208	1/4	3/8	1/2	3 1/8	14.40
17350-T208A	17/64	3/8	9/16	3 1/8	14.70
17351-T209	9/32	3/8	9/16	3 1/8	15.25
17352-T209A	19/64	3/8	9/16	3 1/8	16.80
17353-T210	5/16	3/8	9/16	3 1/8	14.40
17354-T210A	21/64	3/8	9/16	3 1/8	17.10
17355-T211	11/32	3/8	9/16	3 1/8	15.25
17356-T211A	23/64	3/8	9/16	3 1/8	18.45
17357-T212	3/8	3/8	9/16	3 1/8	14.40
17358-T212A	25/64	1/2	13/16	3 3/4	20.40
17359-T213	13/32	1/2	13/16	3 3/4	22.40
17360-T213A	27/64	1/2	13/16	3 3/4	23.30
17361-T214	7/16	1/2	13/16	3 3/4	21.60
17362-T214A	29/64	1/2	13/16	3 3/4	23.55
17363-T215	15/32	1/2	13/16	3 3/4	22.40

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	List Price
17364-T216	31/64	1/2	13/16	3 3/4	\$23.90
17365-T218	1/2	1/2	13/16	3 3/4	21.60
17366-T219	17/32	5/8	1 1/8	4 1/2	28.65
17367-T220	9/16	5/8	1 1/8	4 1/2	31.60
17368-T224	19/32	5/8	1 1/8	4 1/2	32.70
17369-T228	5/8	5/8	1 1/8	4 1/2	31.60
17370-T229	21/32	3/4	1 5/16	5	38.15
17371-T230	11/16	3/4	1 5/16	5	39.60
17372-T231	23/32	3/4	1 5/16	5	41.15
17373-T232	3/4	3/4	1 5/16	5	39.60
17374-T233	25/32	7/8	1 9/16	5 1/2	45.70
17375-T234	13/16	7/8	1 9/16	5 1/2	50.10
17376-T238	27/32	7/8	1 9/16	5 1/2	54.60
17377-T242	7/8	7/8	1 9/16	5 1/2	50.10
17378-T243	29/32	1	1 5/8	5 7/8	57.45
17379-T244	15/16	1	1 5/8	5 7/8	61.15
17380-T248	31/32	1	1 5/8	5 7/8	62.00
17381-T252	1	1	1 5/8	5 7/8	61.15
17382-T254	1 1/8	1 1/8	1 5/8	6 1/4	109.90
17383-T256	1 1/4	1 1/4	1 3/4	6 1/2	138.15
17384-T258	1 3/8	1 3/8	2	7 1/2	163.70
17385-T260	1 1/2	1 1/2	2	7 1/2	208.70

TWO FLUTE ENDMILL – DOUBLE END HIGH SPEED STEEL

Regularly furnished with left hand cut-left hand spiral.
(Endmills with right hand cut-right hand spiral are shown in preceding series.)

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Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	List Price
17401-T204L	1/8	3/8	3/8	3 1/8	\$23.85
17402-T205L	5/32	3/8	7/16	3 1/8	23.85
17403-T206L	3/16	3/8	7/16	3 1/8	23.85
17404-T207L	7/32	3/8	1/2	3 1/8	23.85
17405-T208L	1/4	3/8	1/2	3 1/8	23.85
17406-T209L	9/32	3/8	9/16	3 1/8	23.85
17407-T210L	5/16	3/8	9/16	3 1/8	23.85
17408-T211L	11/32	3/8	9/16	3 1/8	23.85
17409-T212L	3/8	3/8	9/16	3 1/8	23.85

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	List Price
17410-T213L	13/32	1/2	13/16	3 3/4	\$28.90
17411-T214L	7/16	1/2	13/16	3 3/4	28.90
17412-T215L	15/32	1/2	13/16	3 3/4	28.90
17413-T218L	1/2	1/2	13/16	3 3/4	28.90
17414-T220L	9/16	5/8	1 1/8	4 1/2	37.35
17415-T228L	5/8	5/8	1 1/8	4 1/2	46.60
17416-T232L	3/4	3/4	1 5/16	5	73.70
17417-T242L	7/8	7/8	1 9/16	5 1/2	93.35
17418-T252L	1	1	1 5/8	5 7/8	113.65

TWO FLUTE SMALL DIAMETER ENDMILL – DOUBLE END HIGH SPEED STEEL

Regularly furnished with right hand cut-right hand spiral.



Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	List Price
17291-T12	1/16	3/16	7/32	2 1/4	\$11.80
17292-T12A	5/64	3/16	1/4	2 1/4	11.80
17293-T13	3/32	3/16	5/16	2 1/4	11.80
17294-T13A	7/64	3/16	11/32	2 1/4	11.80

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	List Price
17295-T14	1/8	3/16	3/8	2 1/4	\$11.80
17296-T14A	9/64	3/16	13/32	2 1/4	11.80
17297-T15	5/32	3/16	7/16	2 1/4	11.80
17298-T15A	11/64	3/16	15/32	2 1/4	11.80
17299-T16	3/16	3/16	1/2	2 1/4	11.80

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2 FLUTE ENDMILLS



TWO FLUTE SMALL DIAMETER ENDMILL DOUBLE END ~ LONG HIGH SPEED STEEL

Regularly furnished with right hand cut - right hand spiral.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	List Price
17321-T102	1/16	3/16	7/32	2 1/2	\$15.00
17322-T103	3/32	3/16	9/32	2 5/8	15.00
17323-T104	1/8	3/16	3/4	3 1/8	15.00
17324-T105	5/32	3/16	7/8	3 1/4	15.00
17325-T106	3/16	3/16	1	3 3/8	15.00



TWO FLUTE ENDMILL DOUBLE END – HIGH SPEED STEEL

Regularly furnished with right hand cut, straight flutes

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	List Price
17671-T804	1/8	3/8	3/8	3	\$27.15
17672-T806	3/16	3/8	7/16	3	27.15
17673-T808	1/4	3/8	1/2	3	27.15
17674-T810	5/16	3/8	9/16	3	27.15
17675-T812	3/8	3/8	9/16	3	27.15
17676-T814	7/16	1/2	13/16	3 3/4	38.70
17677-T818	1/2	1/2	13/16	3 3/4	40.05
17678-T828	5/8	5/8	1 1/8	4 1/2	47.65
17679-T832	3/4	3/4	1 5/16	5	62.90
17680-T842	7/8	7/8	1 9/16	5 1/2	83.15
17681-T852	1	1	1 5/8	5 7/8	109.15



TWO FLUTE BALL ENDMILL DOUBLE END ~ HIGH SPEED STEEL

Regularly furnished with right hand cut-right hand spiral.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	List Price
17761-T1004	1/8	3/8	3/8	3 1/16	\$23.45
17762-T1006	3/16	3/8	7/16	3 1/8	23.45
17763-T1008	1/4	3/8	1/2	3 3/16	23.45
17764-T1010	5/16	3/8	9/16	3 3/16	23.45
17765-T1012	3/8	3/8	9/16	3 3/16	23.45
17766-T1014	7/16	1/2	13/16	3 7/8	34.30
17767-T1018	1/2	1/2	13/16	3 7/8	34.30
17768-T1028	5/8	5/8	1 1/8	4 9/16	47.10
17769-T1032	3/4	3/4	1 5/16	5	59.95
17770-T1042	7/8	7/8	1 9/16	5 1/2	73.95
17771-T1052	1	1	1 5/8	5 7/8	91.10



TWO FLUTE BALL ENDMILLS SINGLE END HIGH SPEED STEEL

Regularly furnished with right hand cut-right hand spiral

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	List Price
17821-T1104	1/8	3/8	3/8	2 1/4	\$13.80
17822-T1106	3/16	3/8	1/2	2 3/8	13.80
17823-T1108	1/4	3/8	5/8	2 1/2	13.80
17824-T1110	5/16	3/8	3/4	2 9/16	15.40
17825-T1112	3/8	3/8	3/4	2 9/16	15.40
17826-T1114	7/16	1/2	1	3 1/16	21.90
17827-T1118	1/2	1/2	1	3 1/16	21.90
17828-T1120	9/16	1/2	1	3 1/16	28.30
17829-T1122	5/8	1/2	1 3/8	3 3/8	32.45
17830-T1126	3/4	1/2	1 5/8	3 5/8	38.45
17831-T1128	5/8	5/8	1 3/8	3 9/16	32.45
17832-T1132	3/4	3/4	1 5/8	3 15/16	38.45
17833-T1141A	13/16	3/4	2	4 1/4	48.80
17834-T1141B	7/8	3/4	2	4 1/4	48.80
17835-T1142	7/8	7/8	2	4 5/16	48.80
17836-T1143	15/16	3/4	2 1/4	4 1/2	61.15
17837-T1145	1	3/4	2 1/4	4 1/2	61.15
17838-T1147	1 1/8	3/4	2 1/4	4 1/2	75.30
17839-T1149	1 1/4	3/4	2 1/2	4 3/4	86.55
17840-T1151	1 3/8	3/4	2 1/2	4 3/4	93.65
17841-T1151A	1 1/2	3/4	2 1/2	4 3/4	105.90
17842-T1152	1	1	2 1/4	4 13/16	61.15
17843-T1154	1 1/8	1	2 1/4	4 13/16	73.90
17844-T1162	1 1/4	1 1/4	2 1/2	5 1/16	83.15
17845-T1163	1 3/8	1 1/4	2 1/2	5 1/16	91.30
17846-T1164	1 1/2	1 1/4	2 1/2	5 1/16	102.60



TWO FLUTE BALL ENDMILL SINGLE END LONG ~ EXTENSION TYPE HIGH SPEED STEEL

Regularly furnished with right hand cut-right hand spiral

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	List Price
17791-T1218	1/2	1/2	1	4 1/16	\$26.30
17792-T1228	5/8	5/8	1 3/8	4 11/16	36.35
17793-T1232	3/4	3/4	1 5/8	5 7/16	46.60
17794-T1242	7/8	7/8	2	6 1/16	59.40
17795-T1252	1	1	2 1/2	7 5/16	80.80
17796-T1262	1 1/4	1 1/4	3	7 5/16	103.10

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2 FLUTE ENDMILLS



TWO FLUTE ENDMILL FOR ALUMINUM SINGLE END ~ HIGH SPEED STEEL

Regularly furnished with fast spiral polished flutes; right hand cut.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	List Price
17091-AT308	1/4	3/8	5/8	2 7/16	\$11.90
17092-AT310	5/16	3/8	3/4	2 1/2	11.90
17093-AT312	3/8	3/8	3/4	2 1/2	11.90
17094-AT314	7/16	3/8	1	2 11/16	15.25
17095-AT318	1/2	1/2	1 1/4	3 1/4	16.60
17096-AT322	5/8	1/2	1 3/8	3 3/8	21.60
17097-AT326	3/4	1/2	1 5/8	3 5/8	26.10
17098-AT328	5/8	5/8	1 5/8	3 3/4	21.60
17099-AT341	3/4	3/4	1 5/8	3 7/8	24.75
17100-AT341B	7/8	3/4	1 7/8	4 1/8	32.80
17101-AT342	7/8	7/8	1 7/8	4 1/8	32.80
17102-AT345	1	3/4	1 7/8	4 1/8	40.60
17103-AT347	1 1/8	3/4	2	4 1/4	61.60
17104-AT349	1 1/4	3/4	2	4 1/4	70.40
17105-AT351	1 3/8	3/4	2	4 1/4	82.90
17106-AT351A	1 1/2	3/4	2	4 1/4	88.10
17107-AT352	1	1	2	4 1/2	40.60
17108-AT362	1 1/4	1 1/4	2	4 1/2	68.80
17109-AT364	1 1/2	1 1/4	2	4 1/2	86.55
17110-AT368	1 3/4	1 1/4	2	4 1/2	105.65
17111-AT372	2	1 1/4	2	4 1/2	125.15



TWO FLUTE BALL ENDMILL FOR ALUMINUM SINGLE END ~ HIGH SPEED STEEL

Regularly furnished with fast spiral polished flutes; right hand cut.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	List Price
17191-AT1308	1/4	3/8	5/8	2 1/2	\$22.10
17192-AT1310	5/16	3/8	3/4	2 1/2	22.10
17193-AT1312	3/8	3/8	3/4	2 1/2	22.10
17194-AT1314	7/16	3/8	1	2 11/16	30.95
17195-AT1318	1/2	1/2	1 1/4	3 1/4	31.90
17196-AT1322	5/8	1/2	1 3/8	3 3/8	42.20
17197-AT1326	3/4	1/2	1 5/8	3 5/8	49.75
17198-AT1328	5/8	5/8	1 5/8	3 3/4	42.20
17199-AT1332	3/4	3/4	1 5/8	3 7/8	49.75
17200-AT1341B	7/8	3/4	1 7/8	4 1/8	62.45
17201-AT1342	7/8	7/8	1 7/8	4 1/8	62.45
17202-AT1345	1	3/4	1 7/8	4 1/8	79.30
17203-AT1347	1 1/8	3/4	2	4 1/4	96.75
17204-AT1349	1 1/4	3/4	2	4 1/4	111.35
17205-AT1351	1 3/8	3/4	2	4 1/4	123.10
17206-AT1351A	1 1/2	3/4	2	4 1/4	135.05
17207-AT1352	1	1	2	4 1/2	79.30
17208-AT1362	1 1/4	1 1/4	2	4 1/2	106.80
17209-AT1364	1 1/2	1 1/4	2	4 1/2	130.55
17210-AT1368	1 3/4	1 1/4	2	4 1/2	174.35
17211-AT1372	2	1 1/4	2	4 1/2	206.70



TWO FLUTE FOR ALUMINUM SINGLE END ~ LONG HIGH SPEED STEEL

Regularly furnished with fast spiral polished flutes; right hand cut.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	List Price
17131-AT708	1/4	3/8	1 1/4	3 1/8	\$13.80
17132-AT710	5/16	3/8	1 3/8	3 1/8	13.80
17133-AT712	3/8	3/8	1 1/2	3 1/4	13.80
17134-AT714	7/16	1/2	1 3/4	3 3/4	19.15
17135-AT718	1/2	1/2	2	4	19.70
17136-AT728	5/8	5/8	2 1/2	4 5/8	26.70
17137-AT732	3/4	3/4	3	5 1/4	34.30
17138-AT742	7/8	7/8	3 1/2	5 3/4	43.50
17139-AT752	1	1	4	6 1/2	59.40
17140-AT762	1 1/4	1 1/4	4	6 1/2	92.25
17141-AT764	1 1/2	1 1/4	4	6 1/2	118.00
17142-AT768	1 3/4	1 1/4	4	6 1/2	150.05
17143-AT772	2	1 1/4	4	6 1/2	186.25



TWO FLUTE ENDMILL FOR ALUMINUM SINGLE END ~ EXTRA LONG HIGH SPEED STEEL

Regularly furnished with fast spiral polished flutes; right hand cut.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	List Price
17161-AT908	1/4	3/8	1 3/4	3 1/2	\$15.10
17162-AT910	5/16	3/8	2	3 3/4	15.50
17163-AT912	3/8	3/8	2 1/2	4 1/4	16.45
17164-AT914	7/16	1/2	2 3/4	4 3/4	22.00
17165-AT918	1/2	1/2	3	5	23.20
17166-AT928	5/8	5/8	4	6 1/8	32.80
17167-AT932	3/4	3/4	4	6 1/4	40.60
17168-AT942	7/8	7/8	5	7 1/4	52.70
17169-AT952	1	1	6	8 1/2	72.65
17170-AT962	1 1/4	1 1/4	6	8 1/2	115.55
17171-AT964	1 1/2	1 1/4	8	10 1/2	197.50

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TWO FLUTE BALL ENDMILL FOR ALUMINUM SINGLE END ~ LONG HIGH SPEED STEEL

Regularly furnished with fast spiral polished flutes; right hand cut.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	List Price
17231-AT1708	1/4	3/8	1 1/4	3 1/8	\$25.60
17232-AT1710	5/16	3/8	1 3/8	3 1/8	25.60
17233-AT1712	3/8	3/8	1 1/2	3 1/4	25.60
17234-AT1714	7/16	1/2	1 3/4	3 3/4	36.05
17235-AT1718	1/2	1/2	2	4	36.05
17236-AT1728	5/8	5/8	2 1/2	4 5/8	51.80
17237-AT1732	3/4	3/4	3	5 1/4	65.80
17238-AT1742	7/8	7/8	3 1/2	5 3/4	78.80
17239-AT1752	1	1	4	6 1/2	106.00
17240-AT1762	1 1/4	1 1/4	4	6 1/2	146.85
17241-AT1764	1 1/2	1 1/4	4	6 1/2	183.45
17242-AT1768	1 3/4	1 1/4	4	6 1/2	237.45
17243-AT1772	2	1 1/4	4	6 1/2	289.65



TWO FLUTE BALL ENDMILL FOR ALUMINUM SINGLE END ~ EXTRA LONG HIGH SPEED STEEL

Regularly furnished with fast spiral polished flutes; right hand cut.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	List Price
17261-AT1908	1/4	3/8	1 3/4	3 1/2	\$29.95
17262-AT1910	5/16	3/8	2	3 3/4	29.95
17263-AT1912	3/8	3/8	2 1/2	4 1/4	31.40
17264-AT1914	7/16	1/2	2 3/4	4 3/4	42.10
17265-AT1918	1/2	1/2	3	5	44.40
17266-AT1928	5/8	5/8	4	6 1/8	65.75
17267-AT1932	3/4	3/4	4	6 1/4	71.55
17268-AT1942	7/8	7/8	5	7 1/4	99.30
17269-AT1952	1	1	6	8 1/2	134.10
17270-AT1962	1 1/4	1 1/4	6	8 1/2	319.95
17271-AT1960	1 1/2	1 1/4	6	8 1/2	332.50
17272-AT1964	1 1/2	1 1/4	8	10 1/2	362.60



TWO FLUTE SLOTTING ENDMILL B&S TAPER SHANK ~ HIGH SPEED STEEL

These endmills are ideally suited for slotting operations.
Regularly furnished in right hand cut-right hand spiral.
#5 B&S shank furnished with plain end - all others with tang.

LHC & LHS also available from stock*

Catalog EDI-Number	Dia. of Mill	B&S Taper Shank	Flute Length	Overall Length	List Price
18781-S607	1/4	#5	3/8	2 9/16	\$27.80
18782-S608	1/4	#7	3/8	4 3/8	41.85
18783-S609	5/16	#5	15/32	2 21/32	27.80
18784-S610	5/16	#7	15/32	4 15/32	41.85
18785-S612	3/8	#7	9/16	4 9/16	42.60
18786-S614	7/16	#7	21/32	4 21/32	45.55
18787-S618	1/2	#7	3/4	4 3/4	41.40
18788-S628	5/8	#7	15/16	4 15/16	43.95
18789-S632	3/4	#7	1 1/8	5 1/8	45.55
18790-S642	7/8	#7	1 5/16	5 5/16	59.95
18791-S652	1	#9	1 1/2	6 3/4	78.30
18792-S662	1 1/4	#9	1 7/8	7 1/8	95.20
18793-S664	1 1/2	#9	2 1/4	7 1/2	128.85

* Prices upon application

See Our Multi-Flute Taper Endmills on pages 70-71



TWO FLUTE SLOTTING ENDMILL B&S TAPER SHANK ~ HIGH SPEED STEEL

These endmills are furnished with straight flutes.
#5 B&S shank furnished with plain end - all others with tang.

Catalog EDI-Number	Dia. of Mill	B&S Taper Shank	Flute Length	Overall Length	List Price
18811-S707	1/4	#5	3/8	2 9/16	\$27.80
18812-S708	1/4	#7	3/8	4 3/8	41.85
18813-S709	5/16	#5	15/32	2 21/32	27.80
18814-S710	5/16	#7	15/32	4 15/32	41.85
18815-S712	3/8	#7	9/16	4 9/16	42.60
18816-S714	7/16	#7	21/32	4 21/32	45.55
18817-S716	1/2	#7	3/4	4 3/4	41.40
18818-S728	5/8	#7	15/16	4 15/16	43.95
18819-S732	3/4	#7	1 1/8	5 1/8	45.55
18820-S742	7/8	#7	1 5/16	5 5/16	59.95
18821-S752	1	#9	1 1/2	6 3/4	78.30
18822-S762	1 1/4	#9	1 7/8	7 1/8	95.20
18823-S764	1 1/2	#9	2 1/4	7 1/2	128.85

COATINGS AVAILABLE ON EVERY TOOL ** See Page 161 for details

3 FLUTE ENDMILLS



THREE FLUTE ENDMILL – DOUBLE END

R. H. CUT  R. H. SPIRAL

HIGH SPEED STEEL

Regularly furnished center cutting with right hand cut, right hand spiral. F&D 3 flute mills have a one tooth to center design with chip-free action.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	List Price
17861-FF204	1/8	3/8	3/8	3 1/8	\$18.60
17862-FF206	3/16	3/8	1/2	3 1/8	18.60
17863-FF208	1/4	3/8	5/8	3 3/8	18.60
17864-FF210	5/16	3/8	3/4	3 3/8	18.60
17865-FF212	3/8	3/8	3/4	3 3/8	18.60
17866-FF214	7/16	1/2	1	4 1/4	28.10
17867-FF218	1/2	1/2	1	4 1/4	28.10
17868-FF220	9/16	5/8	1 3/8	5	39.60
17869-FF228	5/8	5/8	1 3/8	5	39.60
17870-FF232	3/4	3/4	1 5/8	5 5/8	50.30
17871-FF242	7/8	7/8	1 7/8	6 1/4	64.00
17872-FF252	1	1	1 7/8	6 1/2	77.60



THREE FLUTE ENDMILL – SINGLE END – LONG

R. H. CUT  R. H. SPIRAL

HIGH SPEED STEEL

Regularly furnished center cutting with right hand cut, right hand spiral. F&D 3 flute mills have a one tooth to center design with chip-free action.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	List Price
17941-FF708	1/4	3/8	1 1/4	3 1/8	\$19.90
17942-FF710	5/16	3/8	1 3/8	3 1/8	19.90
17943-FF712	3/8	3/8	1 1/2	3 1/4	20.40
17944-FF714	7/16	1/2	1 3/4	3 3/4	28.25
17945-FF718	1/2	1/2	2	4	28.45
17946-FF728	5/8	5/8	2 1/2	4 5/8	39.80
17947-FF732	3/4	3/4	3	5 1/4	49.45
17948-FF742	7/8	7/8	3 1/2	5 3/4	60.50
17949-FF752	1	1	4	6 1/2	80.90
17950-FF762	1 1/4	1 1/4	4	6 1/2	119.35
17951-FF764	1 1/2	1 1/4	4	6 1/2	153.75
17952-FF768	1 3/4	1 1/4	4	6 1/2	198.95
17953-FF772	2	1 1/4	4	6 1/2	242.30



THREE FLUTE ENDMILL – SINGLE END

R. H. CUT  R. H. SPIRAL

HIGH SPEED STEEL

Regularly furnished center cutting with right hand cut, right hand spiral. F&D 3 flute mills have a one tooth to center design with chip-free action.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	List Price
17891-FF304	1/8	3/8	3/8	2 5/16	\$12.95
17892-FF306	3/16	3/8	1/2	2 3/8	12.95
17893-FF308	1/4	3/8	5/8	2 1/2	12.95
17894-FF310	5/16	3/8	3/4	2 1/2	12.95
17895-FF312	3/8	3/8	3/4	2 1/2	12.95
17896-FF314	7/16	3/8	1	2 11/16	16.85
17897-FF316	1/2	3/8	1	2 11/16	16.85
17898-FF318	1/2	1/2	1 1/4	3 1/4	19.55
17899-FF320	9/16	1/2	1 3/8	3 3/8	24.75
17900-FF322	5/8	1/2	1 3/8	3 3/8	24.75
17901-FF326	3/4	1/2	1 5/8	3 5/8	27.70
17902-FF328	5/8	5/8	1 5/8	3 3/4	24.75
17903-FF332	3/4	5/8	1 5/8	3 3/4	27.70
17904-FF336	7/8	5/8	1 7/8	4	35.05
17905-FF340	1	5/8	1 7/8	4	42.35
17906-FF341	3/4	3/4	1 5/8	3 7/8	27.70
17907-FF341B	7/8	3/4	1 7/8	4 1/8	35.05
17908-FF342	7/8	7/8	1 7/8	4 1/8	35.05
17909-FF345	1	3/4	1 7/8	4 1/8	42.35
17910-FF346	1	7/8	1 7/8	4 1/8	42.35
17911-FF352	1	1	2	4 1/2	42.35
17912-FF354	1 1/8	1	2	4 1/2	61.60
17913-FF356	1 1/4	1	2	4 1/2	67.55
17914-FF358	1 3/8	1	2	4 1/2	74.95
17915-FF360	1 1/2	1	2	4 1/2	81.60
17916-FF362	1 1/4	1 1/4	2	4 1/2	67.55
17917-FF364	1 1/2	1 1/4	2	4 1/2	81.60
17918-FF368	1 3/4	1 1/4	2	4 1/2	87.05
17919-FF372	2	1 1/4	2	4 1/2	101.35
17920-FF374	2	2	2	5 3/4	168.30

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MULTIPLE FLUTE ENDMILLS

MULTIPLE FLUTE ENDMILL – SINGLE END HIGH SPEED STEEL

Regularly furnished with right hand cut-right hand spiral. Endmills with left hand cut-left hand spiral are shown on page 60.



Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	# of Flutes	List Price
18101-F304	1/8	3/8	3/8	2 5/16	4	\$10.30
18102-F305	5/32	3/8	7/16	2 5/16	4	11.25
18103-F306	3/16	3/8	1/2	2 3/8	4	10.30
18104-F307	7/32	3/8	9/16	2 3/8	4	11.25
18105-F308	1/4	3/8	5/8	2 1/2	4	10.30
18106-F309	9/32	3/8	11/16	2 1/2	4	11.25
18107-F310	5/16	3/8	3/4	2 1/2	4	10.30
18108-F311	11/32	3/8	3/4	2 1/2	4	11.25
18109-F312	3/8	3/8	3/4	2 1/2	4	10.30
18110-F314	7/16	3/8	1	2 11/16	4	13.30
18111-F316	1/2	3/8	1	2 11/16	4	13.30
18112-F318	1/2	1/2	1 1/4	3 1/4	4	13.85
18113-F320	9/16	1/2	1 3/8	3 3/8	4	17.90
18114-F322	5/8	1/2	1 3/8	3 3/8	4	19.55
18117-F328	5/8	5/8	1 5/8	3 3/4	4	21.50
18115-F324	11/16	1/2	1 5/8	3 5/8	4	22.40
18118-F330	11/16	5/8	1 5/8	3 3/4	4	22.40
18116-F326	3/4	1/2	1 5/8	3 5/8	4	23.45
18119-F332	3/4	5/8	1 5/8	3 3/4	4	23.45
18128-F341	3/4	3/4	1 5/8	3 3/4	4	24.10
18120-F333	13/16	1/2	1 7/8	3 7/8	4	28.90
18121-F334	13/16	5/8	1 7/8	4	6	28.90
18129-F341A	13/16	3/4	1 7/8	4 1/8	4	28.90
18122-F335	7/8	1/2	1 7/8	3 7/8	4	29.55
18123-F336	7/8	5/8	1 7/8	4	6	29.55
18130-F341B	7/8	3/4	1 7/8	4 1/8	4	30.70

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	# of Flutes	List Price
18131-F342	7/8	7/8	1 7/8	4 1/8	4	\$29.50
18124-F337	15/16	1/2	1 7/8	3 7/8	4	32.80
18125-F338	15/16	5/8	1 7/8	4	6	29.55
18132-F343	15/16	3/4	1 7/8	4 1/8	4	35.05
18133-F344	15/16	7/8	1 7/8	4 1/8	4	35.05
18126-F339	1	1/2	1 7/8	3 7/8	4	34.80
18127-F340	1	5/8	1 7/8	4	6	34.80
18134-F345	1	3/4	1 7/8	4 1/8	4	35.05
18135-F346	1	7/8	1 7/8	4 1/8	4	35.05
18142-F352	1	1	2	4 1/2	4	37.00
18136-F347	1 1/8	3/4	2	4 1/4	6	51.75
18137-F348	1 1/8	7/8	2	4 1/4	6	51.75
18143-F354	1 1/8	1	2	4 1/2	6	53.05
18138-F349	1 1/4	3/4	2	4 1/4	6	56.05
18139-F350	1 1/4	7/8	2	4 1/4	6	56.05
18144-F356	1 1/4	1	2	4 1/2	6	58.10
18147-F362	1 1/4	1 1/4	2	4 1/2	6	58.10
18140-F351	1 3/8	3/4	2	4 1/4	6	63.20
18145-F358	1 3/8	1	2	4 1/2	6	63.20
18141-F351A	1 1/2	3/4	2	4 1/4	6	71.10
18146-F360	1 1/2	1	2	4 1/2	6	71.10
18148-F364	1 1/2	1 1/4	2	4 1/2	6	71.10
18149-F366	1 5/8	1 1/4	2	4 1/2	6	77.60
18150-F368	1 3/4	1 1/4	2	4 1/2	6	86.55
18151-F370	1 7/8	1 1/4	2	4 1/2	8	89.30
18152-F372	2	1 1/4	2	4 1/2	8	99.85
18153-F374	2	2	2	5 3/4	6	156.85



FOUR FLUTE ENDMILL – SHORT SERIES HIGH SPEED STEEL

Regularly furnished with right hand cut-right hand spiral.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	# of Flutes	List Price
18251-F504	1/8	1/8	5/16	1 1/4	4	\$8.65
18252-F505	5/32	5/32	5/16	1 1/4	4	8.65
18253-F506	3/16	3/16	1/2	1 3/8	4	9.40
18254-F507	7/32	7/32	9/16	1 5/8	4	9.40
18255-F508	1/4	1/4	5/8	1 11/16	4	10.30
18256-F510	5/16	5/16	11/16	1 3/4	4	10.30
18257-F512	3/8	3/8	3/4	1 13/16	4	11.25
18258-F514	7/16	7/16	7/8	2 3/16	4	13.80
18259-F518	1/2	1/2	15/16	2 1/4	4	15.25
18260-F520	9/16	9/16	1	2 5/16	4	20.00
18261-F528	5/8	5/8	1 1/8	2 1/2	4	22.60
18262-F532	3/4	3/4	1 1/4	2 5/8	4	26.70



MULTIPLE FLUTE ENDMILL – SINGLE END MEDIUM LENGTH HIGH SPEED STEEL

Regularly furnished with right hand cut-right hand spiral.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	# of Flutes	List Price
18281-F652	1	1	3	5 1/2	4	\$46.25
18282-F662	1 1/4	1 1/4	3	5 1/2	4	64.60
18283-F664	1 1/2	1 1/4	3	5 1/2	4	78.60
18284-F668	1 3/4	1 1/4	3	5 1/2	4	99.85
18285-F672	2	1 1/4	3	5 1/2	4	122.50
18286-F672A	2	1 1/4	3	5 1/2	6	122.50

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MULTIPLE FLUTE ENDMILLS



MULTIPLE FLUTE ENDMILL – SINGLE END LONG ~ HIGH SPEED STEEL

Regularly furnished with right hand cut-right hand spiral.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	# of Flutes	List Price
18301-F708	1/4	3/8	1 1/4	3 1/8	4	\$11.90
18302-F710	5/16	3/8	1 3/8	3 1/8	4	11.90
18303-F712	3/8	3/8	1 1/2	3 1/4	4	11.90
18304-F714	7/16	1/2	1 3/4	3 3/4	4	17.65
18305-F718	1/2	1/2	2	4	4	17.65
18306-F728	5/8	5/8	2 1/2	4 5/8	4	25.70
18307-F732	3/4	3/4	3	5 1/4	4	31.60
18308-F742	7/8	7/8	3 1/2	5 3/4	4	39.60
18309-F752	1	1	4	6 1/2	4	52.35
18310-F754	1 1/8	1	4	6 1/2	6	71.95
18311-F756	1 1/4	1	4	6 1/2	6	80.90
18312-F758	1 3/8	1	4	6 1/2	6	95.00
18313-F760	1 1/2	1	4	6 1/2	6	98.45
18314-F762	1 1/4	1 1/4	4	6 1/2	6	80.80
18315-F764	1 1/2	1 1/4	4	6 1/2	6	98.45
18316-F768	1 3/4	1 1/4	4	6 1/2	6	127.45
18317-F772	2	1 1/4	4	6 1/2	8	154.80
18318-F782	2	2	4	7 3/4	4	160.70
18319-F784	2	2	4	7 3/4	6	160.70
18320-F786	2	2	6	9 3/4	4	197.80
18321-F788	2	2	8	11 3/4	6	235.10
18322-F794	2 1/2	2	4	7 5/8	6	226.20
18323-F796	2 1/2	2	6	9 5/8	6	277.00



MULTIPLE FLUTE ENDMILL – SINGLE END HIGH SPEED STEEL

Regularly furnished with right hand cut-left hand spiral.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	# of Flutes	List Price
18211-F408	1/4	3/8	5/8	2 1/2	4	\$12.95
18212-F410	5/16	3/8	3/4	2 1/2	4	12.95
18213-F412	3/8	3/8	3/4	2 1/2	4	12.95
18214-F414	7/16	3/8	1	2 11/16	4	16.85
18215-F418	1/2	1/2	1 1/4	3 1/4	4	19.55
18216-F428	5/8	5/8	1 5/8	3 3/4	4	26.15
18217-F432	3/4	3/4	1 3/4	4	4	39.05
18218-F442	7/8	7/8	1 7/8	4 1/8	4	37.00
18219-F452	1	1	2	4 1/2	4	44.80
18220-F454	1 1/8	1	2	4 1/2	6	61.55
18221-F456	1 1/4	1	2	4 1/2	6	67.55
18222-F458	1 3/8	1	2	4 1/2	6	72.40
18223-F460	1 1/2	1	2	4 1/2	6	81.60
18224-F462	1 1/4	1 1/4	2	4 1/2	6	67.55
18225-F464	1 1/2	1 1/4	2	4 1/2	6	81.60
18226-F466	1 5/8	1 1/4	2	4 1/2	6	88.80
18227-F468	1 3/4	1 1/4	2	4 1/2	6	99.70
18228-F470	1 7/8	1 1/4	2	4 1/2	8	103.10
18229-F472	2	1 1/4	2	4 1/2	8	115.55



MULTIPLE FLUTE ENDMILL – SINGLE END LONG ~ HIGH SPEED STEEL

Regularly furnished with right hand cut-left hand spiral.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	# of Flutes	List Price
18341-F805	1/4	3/8	1 1/4	3 1/8	4	\$14.40
18342-F810	5/16	3/8	1 3/8	3 1/8	4	14.40
18343-F812	3/8	3/8	1 1/2	3 1/4	4	14.40
18344-F814	7/16	1/2	1 3/4	3 3/4	4	20.90
18345-F818	1/2	1/2	2	4	4	21.05
18346-F828	5/8	5/8	2 1/2	4 5/8	4	27.65
18347-F832	3/4	3/4	3	5 1/4	4	34.10
18348-F842	7/8	7/8	3 1/2	5 3/4	4	42.35
18349-F852	1	1	4	6 1/2	4	57.35
18350-F854	1 1/8	1	4	6 1/2	6	79.00
18351-F856	1 1/4	1	4	6 1/2	6	88.40
18352-F858	1 3/8	1	4	6 1/2	6	104.50
18353-F860	1 1/2	1	4	6 1/2	6	107.80
18354-F862	1 1/4	1 1/4	4	6 1/2	6	88.40
18355-F864	1 1/2	1 1/4	4	6 1/2	6	107.80
18356-F868	1 3/4	1 1/4	4	6 1/2	6	139.20
18357-F872	2	1 1/4	4	6 1/2	8	170.90



MULTIPLE FLUTE ENDMILL – SINGLE END HIGH SPEED STEEL

Regularly furnished with left hand cut-left hand spiral.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	# of Flutes	List Price
18171-F304L	1/8	3/8	3/8	2 5/16	4	\$20.55
18172-F306L	3/16	3/8	1/2	2 3/8	4	20.55
18173-F308L	1/4	3/8	5/8	2 1/2	4	20.55
18174-F310L	5/16	3/8	3/4	2 1/2	4	20.55
18175-F312L	3/8	3/8	3/4	2 1/2	4	20.55
18176-F314L	7/16	3/8	1	2 11/16	4	22.25
18177-F318L	1/2	1/2	1 1/4	3 1/4	4	23.65
18178-F322L	5/8	1/2	1 3/8	3 3/8	4	26.10
18179-F326L	3/4	1/2	1 5/8	3 5/8	4	29.85
18180-F328L	5/8	5/8	1 5/8	3 3/4	4	32.00
18181-F330L	11/16	5/8	1 5/8	3 3/4	4	34.90
18182-F332L	3/4	5/8	1 5/8	3 3/4	4	36.10
18183-F334L	13/16	5/8	1 7/8	4	6	44.25
18184-F335L	7/8	1/2	1 7/8	3 7/8	4	45.35
18185-F336L	7/8	5/8	1 7/8	4	6	46.65
18186-F339L	1	1/2	1 7/8	3 7/8	4	49.90
18187-F340L	1	5/8	1 7/8	4	6	53.45
18188-F342L	7/8	7/8	1 7/8	4 1/8	4	46.65
18189-F344L	15/16	7/8	1 7/8	4 1/8	4	53.45
18190-F346L	1	7/8	1 7/8	4 1/8	4	53.45

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MULTIPLE FLUTE ENDMILLS



MULTIPLE FLUTE ENDMILL – SINGLE END EXTRA LONG ~ HIGH SPEED STEEL

Regularly furnished with right hand cut-right hand spiral.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	# of Flutes	List Price
18381-F908	1/4	3/8	1 3/4	3 1/2	4	\$13.30
18382-F910	5/16	3/8	2	3 3/4	4	14.10
18383-F912	3/8	3/8	2 1/2	4 1/4	4	14.70
18384-F918	1/2	1/2	3	5	4	20.95
18385-F928	5/8	5/8	4	6 1/8	4	31.20
18386-F932	3/4	3/4	4	6 1/4	4	36.60
18387-F942	7/8	7/8	5	7 1/4	4	48.15
18388-F952	1	1	6	8 1/2	4	64.00
18389-F962	1 1/4	1 1/4	6	8 1/2	6	98.45
18390-F964	1 1/2	1 1/4	8	10 1/2	6	164.65



MULTIPLE FLUTE CENTER CUTTING ENDMILL SINGLE END ~ EXTRA LONG HIGH SPEED STEEL

Regularly furnished with right hand cut-right hand spiral, with two flutes cutting to center for plunge cutting.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	# of Flutes	List Price
18591-FC908	1/4	3/8	1 3/4	3 1/2	4	\$16.10
18592-FC910	5/16	3/8	2	3 3/4	4	16.60
18593-FC912	3/8	3/8	2 1/2	4 1/4	4	17.65
18594-FC918	1/2	1/2	3	5	4	24.75
18595-FC928	5/8	5/8	4	6 1/8	4	36.35
18596-FC932	3/4	3/4	4	6 1/4	4	42.35
18597-FC942	7/8	7/8	5	7 1/4	4	54.80
18598-FC952	1	1	6	8 1/2	4	72.65
18599-FC962	1 1/4	1 1/4	6	8 1/2	4	109.80
18600-FC962A	1 1/4	1 1/4	6	8 1/2	6	127.05
18601-FC964	1 1/2	1 1/4	6	8 1/2	4	180.20
18602-FC964A	1 1/2	1 1/4	6	8 1/2	6	193.90
18603-FC964B	1 1/2	1 1/4	8	10 1/2	6	204.35



MULTIPLE FLUTE BALL ENDMILL – SINGLE END LONG ~ HIGH SPEED STEEL

Regularly furnished with right hand cut-right hand spiral.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	# of Flutes	List Price
18441-F1208	1/4	3/8	1 1/4	3 1/8	4	\$19.70
18442-F1208A	1/4	3/8	1 3/4	3 1/2	4	21.90
18443-F1210	5/16	3/8	1 3/8	3 1/8	4	20.95
18444-F1210A	5/16	3/8	2	3 3/4	4	21.90
18445-F1212	3/8	3/8	1 1/2	3 1/4	4	22.20
18446-F1212A	3/8	3/8	2 1/2	4 1/4	4	24.75
18447-F1218	1/2	1/2	2	4	4	30.80
18448-F1218A	1/2	1/2	3	5	4	36.35
18449-F1228	5/8	5/8	2 1/2	4 5/8	4	43.95
18450-F1228A	5/8	5/8	4	6 1/8	4	52.85
18451-F1232	3/4	3/4	3	5 1/4	4	54.80
18452-F1232A	3/4	3/4	4	6 1/4	4	60.30
18453-F1242	7/8	7/8	3 1/2	5 3/4	4	68.30
18454-F1242A	7/8	7/8	5	7 1/4	4	75.15
18455-F1252	1	1	4	6 1/2	4	88.80
18456-F1252A	1	1	6	8 1/2	4	104.10
18457-F1262	1 1/4	1 1/4	4	6 1/2	4	120.95
18458-F1262A	1 1/4	1 1/4	4	6 1/2	6	136.85
18459-F1262B	1 1/4	1 1/4	6	8 1/2	4	161.15
18460-F1262C	1 1/4	1 1/4	6	8 1/2	6	161.15
18461-F1264	1 1/2	1 1/4	4	6 1/2	4	140.15
18462-F1264A	1 1/2	1 1/4	4	6 1/2	6	140.15
18463-F1264B	1 1/2	1 1/4	6	8 1/2	6	208.95

MULTIPLE FLUTE BALL ENDMILL SINGLE END HIGH SPEED STEEL



Regularly furnished with right hand cut-right hand spiral.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	# of Flutes	List Price
18411-F1108	1/4	3/8	5/8	2 1/2	4	\$17.20
18412-F1110	5/16	3/8	3/4	2 1/2	4	17.90
18413-F1112	3/8	3/8	3/4	2 1/2	4	21.10
18414-F1118	1/2	1/2	1 1/4	3 1/4	4	29.40
18415-F1128	5/8	5/8	1 5/8	3 3/4	4	40.00
18416-F1132	3/4	3/4	1 5/8	3 7/8	4	46.25
18417-F1142	7/8	7/8	1 7/8	4 1/8	4	64.95
18418-F1152	1	1	2	4 1/2	4	77.30
18419-F1162	1 1/4	1 1/4	2	4 1/2	4	98.35
18420-F1164	1 1/2	1 1/4	2	4 1/2	4	140.15

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MULTIPLE FLUTE ENDMILL CENTER CUTTING ~ SINGLE END HIGH SPEED STEEL

Regularly furnished with right hand cut-right hand spiral with two flutes cutting to center for plunge cutting.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	# of Flutes	List Price
18511-FC304	1/8	3/8	3/8	2 5/16	4	\$12.95
18512-FC306	3/16	3/8	1/2	2 3/8	4	12.95
18513-FC308	1/4	3/8	5/8	2 1/2	4	12.95
18514-FC310	5/16	3/8	3/4	2 1/2	4	12.95
18515-FC312	3/8	3/8	3/4	2 1/2	4	12.95
18534-FC314	7/16	3/8	1	2 3/4	4	18.80
18516-FC318	1/2	1/2	1 1/4	3 1/4	4	19.55
18517-FC318A	1/2	1/2	1 1/4	3 1/4	6	22.40
18518-FC328	5/8	5/8	1 5/8	3 3/4	4	24.75
18519-FC328A	5/8	5/8	1 5/8	3 3/4	6	28.75
18520-FC330	11/16	5/8	1 5/8	3 3/4	4	26.15
18521-FC341	3/4	3/4	1 5/8	3 7/8	4	27.70
18522-FC341A	3/4	3/4	1 5/8	3 7/8	6	31.90
18523-FC342	7/8	7/8	1 7/8	4 1/8	4	35.05
18524-FC342A	7/8	7/8	1 7/8	4 1/8	6	40.20
18525-FC352	1	1	2	4 1/2	4	42.35
18526-FC352A	1	1	2	4 1/2	6	49.20
18527-FC354	1 1/8	1	2	4 1/2	4	61.45
18528-FC362	1 1/4	1 1/4	2	4 1/2	4	67.55
18529-FC362A	1 1/4	1 1/4	2	4 1/2	6	78.10
18530-FC364	1 1/2	1 1/4	2	4 1/2	4	81.60
18531-FC364A	1 1/2	1 1/4	2	4 1/2	6	94.20
18532-FC368	1 3/4	1 1/4	2	4 1/2	6	99.30
18533-FC372	2	1 1/4	2	4 1/2	6	115.55



MULTIPLE FLUTE ENDMILL CENTER CUTTING ~ SINGLE END ~ LONG HIGH SPEED STEEL

Regularly furnished with right hand cut-right hand spiral with two flutes cutting to center for plunge cutting.



FOUR FLUTE ENDMILL DOUBLE END – HIGH SPEED STEEL

Regularly furnished in left hand cut-left hand spiral.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	List Price
18071-F204L	1/8	3/8	3/8	3 1/4	\$25.75
18072-F205L	5/32	3/8	7/16	3 1/4	25.75
18073-F206L	3/16	3/8	1/2	3 1/4	25.75
18074-F207L	7/32	3/8	9/16	3 1/4	25.75
18075-F208L	1/4	3/8	5/8	3 3/8	25.75
18076-F209L	9/32	3/8	11/16	3 3/8	26.25
18077-F210L	5/16	3/8	3/4	3 3/8	26.25
18078-F211L	11/32	3/8	3/4	3 3/8	26.90
18079-F212L	3/8	3/8	3/4	3 3/8	26.90
18080-F214L	7/16	1/2	1	4 1/8	34.70
18081-F218L	1/2	1/2	1	4 1/8	34.70
18082-F220L	9/16	5/8	1 3/8	5	45.75
18083-F228L	5/8	5/8	1 3/8	5	45.75
18084-F232L	3/4	3/4	1 5/8	5 5/8	62.85
18085-F242L	7/8	7/8	1 7/8	6 1/4	70.15
18086-F252L	1	1	1 7/8	6 1/2	97.25

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	# of Flutes	List Price
18551-FC708	1/4	3/8	1 1/4	3 1/8	4	\$14.70
18552-FC710	5/16	3/8	1 3/8	3 1/8	4	14.70
18553-FC712	3/8	3/8	1 1/2	3 1/4	4	14.70
18554-FC718	1/2	1/2	2	4	4	21.10
18555-FC718A	1/2	1/2	2	4	6	24.75
18556-FC728	5/8	5/8	2 1/2	4 5/8	4	29.45
18557-FC728A	5/8	5/8	2 1/2	4 5/8	6	33.85
18558-FC732	3/4	3/4	3	5 1/4	4	36.60
18559-FC732A	3/4	3/4	3	5 1/4	6	40.80
18560-FC742	7/8	7/8	3 1/2	5 3/4	4	44.80
18561-FC742A	7/8	7/8	3 1/2	5 3/4	6	51.30
18562-FC752	1	1	4	6 1/2	4	59.95
18563-FC752A	1	1	4	6 1/2	6	67.65
18564-FC762	1 1/4	1 1/4	4	6 1/2	4	88.40
18565-FC762A	1 1/4	1 1/4	4	6 1/2	6	102.20
18566-FC764	1 1/2	1 1/4	4	6 1/2	4	110.70
18567-FC764A	1 1/2	1 1/4	4	6 1/2	6	131.00
18568-FC768	1 3/4	1 1/4	4	6 1/2	6	147.30
18569-FC772	2	1 1/4	4	6 1/2	6	179.45

COATINGS AVAILABLE ON EVERY TOOL ** See Page 161 for details



MULTIPLE FLUTE ENDMILLS



FOUR FLUTE ENDMILL DOUBLE END HIGH SPEED STEEL

Regularly furnished with right hand cut-right hand spiral.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	List Price
18011-F204	1/8	3/8	3/8	3 1/4	\$14.10
18012-F204A	9/64	3/8	7/16	3 1/4	15.00
18013-F205	5/32	3/8	7/16	3 1/4	15.00
18014-F205A	11/64	3/8	1/2	3 1/4	15.00
18015-F206	3/16	3/8	1/2	3 1/4	14.10
18016-F206A	13/64	3/8	9/16	3 1/4	15.00
18017-F207	7/32	3/8	9/16	3 1/4	15.00
18018-F207A	15/64	3/8	5/8	3 3/8	15.00
18019-F208	1/4	3/8	5/8	3 3/8	14.10
18020-F208A	17/64	3/8	11/16	3 3/8	15.60
18021-F209	9/32	3/8	11/16	3 3/8	15.00
18022-F209A	19/64	3/8	3/4	3 3/8	17.00
18023-F210	5/16	3/8	3/4	3 3/8	14.10
18024-F210A	21/64	3/8	3/4	3 3/8	17.95
18025-F211	11/32	3/8	3/4	3 3/8	15.00
18026-F211A	23/64	3/8	3/4	3 3/8	20.55
18027-F212	3/8	3/8	3/4	3 3/8	14.10
18028-F212A	25/64	1/2	1	4 1/8	21.60
18029-F213	13/32	1/2	1	4 1/8	22.00
18030-F213A	27/64	1/2	1	4 1/8	22.40
18031-F214	7/16	1/2	1	4 1/8	21.20
18032-F214A	29/64	1/2	1	4 1/8	23.30
18033-F215	15/32	1/2	1	4 1/8	22.00
18034-F216	31/64	1/2	1	4 1/8	25.20
18035-F218	1/2	1/2	1	4 1/8	21.20
18036-F219	17/32	5/8	1 3/8	5	27.45
18037-F220	9/16	5/8	1 3/8	5	29.10
18038-F224	19/32	5/8	1 3/8	5	30.20
18039-F228	5/8	5/8	1 3/8	5	29.10
18040-F229	21/32	3/4	1 5/8	5 5/8	33.50
18041-F230	11/16	3/4	1 5/8	5 5/8	36.60
18042-F231	23/32	3/4	1 5/8	5 5/8	37.35
18043-F232	3/4	3/4	1 5/8	5 5/8	36.60
18044-F233	25/32	7/8	1 7/8	6 1/4	43.50
18045-F234	13/16	7/8	1 7/8	6 1/4	46.60
18046-F238	27/32	7/8	1 7/8	6 1/4	51.15
18047-F242	7/8	7/8	1 7/8	6 1/4	46.60
18048-F243	29/32	1	1 7/8	6 3/8	54.75
18049-F244	15/16	1	1 7/8	6 3/8	56.60
18050-F248	31/32	1	1 7/8	6 1/2	62.80
18051-F252	1	1	1 7/8	6 1/2	73.70
18052-F256	1 1/4	1 1/4	2	7 1/4	128.65
18053-F258	1 3/8	1 3/8	2 1/8	7 3/8	152.20
18054-F260	1 1/2	1 1/2	2 1/4	8	194.05



FOUR FLUTE SMALL DIAMETER ENDMILL DOUBLE END ~ HIGH SPEED STEEL

Regularly furnished with right hand cut-right hand spiral.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	List Price
17971-F13	3/32	3/16	5/16	2 1/4	\$11.80
17972-F14	1/8	3/16	3/8	2 1/4	11.80
17973-F15	5/32	3/16	7/16	2 1/4	11.80
17974-F16	3/16	3/16	1/2	2 1/4	11.80



FOUR FLUTE SMALL DIAMETER ENDMILL DOUBLE END ~ LONG HIGH SPEED STEEL

Regularly furnished with right hand cut-right hand spiral.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	# of Flutes	List Price
17991-F103	3/32	3/16	1/2	9/32	2 5/8	\$15.00
17992-F104	1/8	3/16	3/4	3/4	3 1/8	15.00
17993-F105	5/32	3/16	7/8	7/8	3 1/4	15.00
17994-F106	3/16	3/16	1	1	3 3/8	15.00



FOUR FLUTE ENDMILL CENTER CUTTING ~ DOUBLE END HIGH SPEED STEEL

Regularly furnished with right hand cut-right hand spiral.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	List Price
18481-FC204	1/8	3/8	3/8	3 1/8	\$18.60
18482-FC206	3/16	3/8	1/2	3 1/8	18.60
18483-FC208	1/4	3/8	5/8	3 3/8	18.60
18484-FC210	5/16	3/8	3/4	3 3/8	18.60
18485-FC212	3/8	3/8	3/4	3 3/8	18.60
18486-FC218	1/2	1/2	1	4 1/4	28.10
18487-FC228	5/8	5/8	1 3/8	5	39.60
18488-FC232	3/4	3/4	1 5/8	5 5/8	50.30
18489-FC242	7/8	7/8	1 7/8	6 1/4	64.85
18490-FC252	1	1	1 7/8	6 1/2	77.60

COATINGS AVAILABLE ON EVERY TOOL ** See Page 161 for details



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MORSE TAPER SHANK ENDMILLS



MULTIPLE FLUTE HEAVY DUTY ENDMILL MORSE TAPER SHANK HIGH SPEED STEEL

F & D heavy duty endmills are designed and constructed especially for use when large cuts and extra lengths of flutes are desired. These mills are made of solid high speed steel. Regularly furnished with right hand cut-right hand spiral.

Catalog EDI-Number	Mill Dia.	Morse Taper Shank	Flute Length	Overall Length	# of Flutes	List Price
18751-S502	2	#5	4	6	6	\$316.95
18752-S503	2	#5	6	6	6	420.10
18753-S504	2	#5	8	6	6	485.70
18754-S512	2 1/2	#5	6	6	6	502.65
18755-S513	2 1/2	#5	8	6	6	658.75
18756-S514	2 1/2	#5	10	6	6	777.15
18757-S522	3	#6	6	8	8	891.30
18758-S523	3	#6	8	8	8	1,022.10
18759-S524	3	#6	10	8	8	1,186.95
18760-S532	3 1/2	#6	6	8	8	1,115.15
18761-S533	3 1/2	#6	8	8	8	1,263.00
18762-S534	3 1/2	#6	10	8	8	1,410.45

MULTIPLE FLUTE LIGHT DUTY ENDMILL MORSE TAPER SHANK HIGH SPEED STEEL

F&D light duty endmills are designed with fine flutes for light finishing cuts. Regularly furnished with right hand cut-right hand spiral.

Catalog EDI-Number	Mill Dia.	Morse Taper Shank	Flute Length	Overall Length	# of Flutes	List Price
18651-SF308	1/4	#1	5/8	3 1/2	6	\$31.00
18652-SF310	5/16	#1	11/16	3 9/16	6	32.80
18653-SF312	3/8	#1	3/4	3 5/8	6	32.80
18654-SF314	7/16	#1	7/8	3 3/4	6	30.60
18655-SF316	1/2	#1	15/16	3 13/16	6	30.60
18656-SF318	1/2	#2	15/16	4 7/16	6	36.80
18657-SF328	5/8	#2	1 1/8	4 5/8	6	39.15
18658-SF332	3/4	#2	1 1/4	4 3/4	6	43.00
18659-SF334	3/4	#3	1 1/4	5 9/16	6	57.35
18660-SF336	7/8	#2	1 7/16	4 15/16	8	59.95
18661-SF342	7/8	#3	1 7/16	5 3/4	8	64.15
18662-SF346	1	#2	1 5/8	5 1/8	8	57.35
18663-SF352	1	#3	1 5/8	5 15/16	8	73.90
18664-SF354	1 1/8	#3	1 3/4	6 1/16	8	87.40
18665-SF362	1 1/4	#3	2	6 5/16	8	99.15



MULTIPLE FLUTE HEAVY DUTY ENDMILL MORSE TAPER SHANK HIGH SPEED STEEL

Regularly furnished with right hand cut-right hand spiral. Coarse flutes permit heavier cuts. LHC, LHS also available from stock.

Catalog EDI-Number	Mill Dia.	Morse Taper Shank	Flute Length	Overall Length	# of Flutes	List Price
18681-S308	1/4	#1	5/8	3 1/2	4	\$31.00
18682-S310	5/16	#1	11/16	3 9/16	4	32.80
18683-S312	3/8	#1	3/4	3 5/8	4	32.80
18684-S314	7/16	#1	7/8	3 3/4	4	30.60
18685-S316	1/2	#1	15/16	3 13/16	4	30.60
18686-S318	1/2	#2	15/16	4 7/16	4	36.80
18687-S328	5/8	#2	1 1/8	4 5/8	4	39.15
18688-S332	3/4	#2	1 1/4	4 3/4	4	43.10
18689-S334	3/4	#3	1 1/4	5 9/16	4	57.35
18690-S336	7/8	#2	1 7/16	4 15/16	4	59.95
18691-S342	7/8	#3	1 7/16	5 3/4	4	64.15
18692-S346	1	#2	1 5/8	5 1/8	4	57.35
18693-S352	1	#3	1 5/8	5 15/16	4	73.90
18694-S354	1 1/8	#3	1 3/4	6 1/16	6	87.40
18695-S362	1 1/4	#3	2	6 5/16	6	99.15



MULTIPLE FLUTE FINISHING ENDMILL MORSE TAPER SHANK HIGH SPEED STEEL

Recommended for fine finishing cuts. Regularly furnished with right hand cut-left hand spiral.

Catalog EDI-Number	Mill Dia.	Morse Taper Shank	Flute Length	Overall Length	# of Flutes	List Price
18721-S408	1/4	#1	5/8	3 1/2	4	\$34.10
18722-S410	5/16	#1	11/16	3 9/16	4	36.10
18723-S412	3/8	#1	3/4	3 5/8	4	36.10
18724-S414	7/16	#1	7/8	3 3/4	4	33.50
18725-S416	1/2	#1	15/16	3 13/16	4	33.50
18726-S418	1/2	#2	15/16	4 7/16	4	40.40
18727-S428	5/8	#2	1 1/8	4 5/8	4	42.60
18728-S432	3/4	#2	1 1/4	4 3/4	4	47.35
18729-S434	3/4	#3	1 1/4	5 9/16	4	63.00
18730-S436	7/8	#2	1 7/16	4 15/16	4	65.80
18731-S442	7/8	#3	1 7/16	5 3/4	4	69.80
18732-S446	1	#2	1 5/8	5 1/8	4	63.00
18733-S452	1	#3	1 5/8	5 15/16	4	81.05
18734-S454	1 1/8	#3	1 3/4	6 1/16	6	95.95
18735-S462	1 1/4	#3	2	6 5/16	6	109.30

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TAPER SHANK ENDMILLS



MULTIPLE FLUTE LIGHT DUTY ENDMILL B & S TAPER SHANK HIGH SPEED STEEL

Designed with fine flutes for light finishing cuts. Regularly furnished with right hand cut-right hand spiral. #5 B & S shank furnished with plain end. All others with tang.

*See Our Two-Flute
B&S Taper Shank
Endmills on Page 63*



MULTIPLE FLUTE HEAVY DUTY ENDMILL B & S TAPER SHANK HIGH SPEED STEEL

Regularly furnished with right hand cut-right hand spiral-coarse flute. #5 B & S shank furnished with plain end. All others with tang. LHC, LHS are also available from stock.

Catalog EDI-Number	B&S						List Price
	Mill Dia.	Taper Shank	Flute Length	Overall Length	# of Flutes		
18841-S108	1/4	#5	5/8	2 13/16	4	\$25.90	
18842-S110	5/16	#5	11/16	2 7/8	4	25.90	
18843-S112	3/8	#5	3/4	2 15/16	4	26.25	
18844-S114	7/16	#5	7/8	3 1/16	4	29.65	
18845-S116	1/2	#5	15/16	3 1/8	4	29.65	
18846-S118	1/2	#7	15/16	4 15/16	4	39.50	
18847-S120	9/16	#7	1	5	4	40.90	
18848-S128	5/8	#7	1 1/8	5 1/8	4	41.70	
18849-S132	3/4	#7	1 1/4	5 1/4	4	41.85	
18850-S142	7/8	#7	1 7/16	5 7/16	4	48.15	
18851-S152	1	#7	1 5/8	5 5/8	4	57.35	
18852-S154	1 1/8	#9	1 3/4	7	6	76.15	
18853-S162	1 1/4	#9	2	7 1/4	6	86.20	
18854-S164	1 1/2	#9	2 1/4	7 1/2	6	126.05	
18855-S168	1 3/4	#9	2 1/2	7 3/4	6	161.00	
18856-S172	2	#9	2 3/4	8	8	203.85	

Catalog EDI-Number	B&S						List Price
	Mill Dia.	Taper Shank	Flute Length	Overall Length	# of Flutes		
18876-SF108	1/4	#5	5/8	2 13/16	6	\$25.90	
18877-SF110	5/16	#5	11/16	2 7/8	6	25.90	
18878-SF112	3/8	#5	3/4	2 15/16	6	26.25	
18879-SF114	7/16	#5	7/8	3 1/16	6	29.65	
18880-SF116	1/2	#5	15/16	3 1/8	6	29.65	
18881-SF118	1/2	#7	15/16	4 15/16	6	39.50	
18882-SF120	9/16	#7	1	5	6	40.90	
18883-SF128	5/8	#7	1 1/8	5 1/8	6	41.70	
18884-SF132	3/4	#7	1 1/4	5 1/4	6	41.85	
18885-SF142	7/8	#7	1 7/16	5 7/16	8	48.15	
18886-SF152	1	#7	1 5/8	5 5/8	8	57.35	
18887-SF154	1 1/8	#9	1 3/4	7	8	76.15	
18888-SF162	1 1/4	#9	2	7 1/4	8	86.20	
18889-SF164	1 1/2	#9	2 1/4	7 1/2	10	126.05	
18890-SF168	1 3/4	#9	2 1/2	7 3/4	10	161.00	
18891-SF172	2	#9	2 3/4	8	12	203.85	



MULTIPLE FLUTE FINISHING ENDMILL B & S TAPER SHANK HIGH SPEED STEEL

Recommended for fine finishing cuts. Regularly furnished with right hand cut-left hand spiral.

Catalog EDI-Number	B&S						List Price
	Mill Dia.	Taper Shank	Flute Length	Overall Length	# of Flutes		
18621-S208	1/4	#5	5/8	2 13/16	4	\$28.35	
18622-S210	5/16	#5	11/16	2 7/8	4	28.35	
18623-S212	3/8	#5	3/4	2 15/16	4	28.90	
18624-S214	7/16	#5	7/8	3 1/16	4	32.70	
18625-S216	1/2	#5	15/16	3 1/8	4	32.70	
18626-S218	1/2	#7	15/16	4 15/16	4	43.50	
18627-S220	9/16	#7	1	5	4	44.80	
18628-S228	5/8	#7	1 1/8	5 1/8	4	45.55	
18629-S232	3/4	#7	1 1/4	5 1/4	4	46.00	
18630-S242	7/8	#7	1 7/16	5 7/16	4	53.05	
18631-S252	1	#7	1 5/8	5 5/8	4	63.00	
18632-S254	1 1/8	#9	1 3/4	7	6	83.70	
18633-S262	1 1/4	#9	2	7 1/4	6	95.05	
18634-S264	1 1/2	#9	2 1/4	7 1/2	6	141.60	
18635-S268	1 3/4	#9	2 1/2	7 3/4	6	180.95	
18636-S272	2	#9	2 3/4	8	6	224.55	

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MULTIPLE FLUTE SINGLE END STRAIGHT SHANK ROUGHING ENDMILL PREMIUM COBALT STEEL

Roughing endmills are designed for hogging large amounts of metal prior to a finish milling operation.



LIST NO. FCR 300

Catalog EDI-Number	Mill Dia.	Shank Dia.	LOC	Overall Length	# of Flutes	List Price
19301	3/16	3/8	1/2	2 3/8	4	\$25.35
19271	1/4	3/8	5/8	2 7/16	4	26.05
19302	1/4	3/8	1 1/4	3 1/16	4	29.25
19272	5/16	3/8	3/4	2 1/2	4	27.05
19303	5/16	3/8	1 3/8	3 1/8	4	30.10
19273	3/8	3/8	3/4	2 1/2	4	27.30
19305	3/8	3/8	1 1/2	3 1/4	4	30.80
19306	7/16	3/8	1	2 11/16	4	37.35
19274	1/2	1/2	1 1/4	3 1/4	4	32.60
19275	1/2	1/2	2	4	4	43.60
19308	9/16	1/2	1 3/8	3 3/8	4	37.80
19276	5/8	5/8	1 5/8	3 3/4	4	41.95
19277	5/8	5/8	2 1/2	4 5/8	4	52.45
19279	3/4	3/4	1 5/8	3 3/4	4	49.45
19280	3/4	3/4	3	5 1/4	4	61.25
19310	3/4	3/4	3/4	3	4	47.40
19278	3/4	5/8	1 5/8	3 3/4	4	52.05
19281	7/8	3/4	1 5/8	3 5/8	5	64.75
19311	7/8	3/4	3 1/2	5 3/4	5	75.40
19312	7/8	7/8	1 7/8	4 1/8	5	66.10
19314	7/8	7/8	3 1/2	5 3/4	5	78.35
19283	1	1	2	4 1/2	5	74.10
19315	1	1	3	5 1/2	5	93.35
19284	1	1	4	6 1/2	5	97.55
19316	1	1	6	8 1/2	5	137.25
19282	1	3/4	2	4	5	72.60
19318	1	3/4	3/4	3	5	57.55
19285	1 1/8	1	2	4 1/2	6	93.60
19286	1 1/4	1 1/4	2	4 1/2	6	96.95
19319	1 1/4	1 1/4	3	5 1/2	6	130.60
19321	1 1/4	1 1/4	4	6 1/2	6	143.40
19322	1 1/4	1 1/4	6	8 1/2	6	206.05
19323	1 1/4	3/4	1 1/2	3 3/4	6	103.45
19324	1 1/4	3/4	3/4	3	6	93.35

Catalog EDI-Number	Mill Dia.	Shank Dia.	LOC	Overall Length	# of Flutes	List Price
19287	1 1/2	1 1/4	2	4 1/2	6	\$128.65
19326	1 1/2	1 1/4	3	5 1/2	6	163.60
19327	1 1/2	1 1/4	4	6 1/2	6	181.60
19328	1 1/2	1 1/4	5	7 1/2	6	236.70
19329	1 1/2	1 1/4	6	8 1/2	6	287.80
19331	1 1/2	1 1/4	8	10 1/2	6	331.40
19332	1 1/2	3/4	1 1/2	3 3/4	6	120.50
19333	1 1/2	3/4	3/4	3	6	102.55
19288	1 3/4	1 1/4	2	4 1/2	6	163.75
19334	1 3/4	1 1/2	2 1/2	5 3/8	6	195.85
19336	1 3/4	1 1/4	4	6 1/2	6	226.25
19337	1 3/4	1 1/2	4 1/2	7 3/8	8	264.20
19338	2	3/4	3/4	3	8	190.40
19339	2	1 1/4	2	4 1/2	8	201.85
19340	2	1 1/4	4	6 1/2	8	255.60
19289	2	2	2	5 1/2	8	233.25
19342	2	2	3	6 3/4	8	254.65
19290	2	2	4	7 3/4	8	276.65
19343	2	2	5	8 3/4	8	325.85
19291	2	2	6	9 3/4	8	343.70
19345	2	2	7	10 3/4	8	342.30
19292	2	2	8	11 3/4	8	487.65
19346	2	2	10	13 3/4	8	579.90
19347	2	2	12	15 3/4	8	698.70
19348	2 1/2	2	4	7 3/4	8	503.50
19350	2 1/2	2	6	9 3/4	8	597.30
19351	2 1/2	2	8	11 3/4	8	700.50
19352	2 1/2	2	10	13 3/4	8	814.50
19353	2 1/2	2	12	15 3/4	8	982.10
19354	3	2 1/2	4	7 3/4	10	836.95
19356	3	2 1/2	6	9 3/4	10	1,004.75
19357	3	2 1/2	8	11 3/4	10	1,213.75
19358	3	2 1/2	10	13 3/4	10	1,359.70
19359	3	2 1/2	12	15 3/4	10	1,400.75

COATINGS AVAILABLE ON EVERY TOOL ** See Page 161 for details



TWO FLUTE COBALT ENDMILL SINGLE END

PREMIUM COBALT STEEL

Regularly furnished with right hand cut-right hand spiral.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	List Price
19021-TXL304	1/8	3/8	3/8	2 5/16	\$20.25
19022-TXL306	3/16	3/8	3/8	2 5/16	20.25
19023-TXL308	1/4	3/8	1/2	2 5/16	20.25
19024-TXL310	5/16	3/8	9/16	2 5/16	20.25
19025-TXL312	3/8	3/8	9/16	2 3/8	20.25
19026-TXL318	1/2	1/2	1	3	28.30
19027-TXL328	5/8	5/8	1 5/16	3 7/16	38.00
19028-TXL341	3/4	3/4	1 5/16	3 9/16	47.90
19029-TXL341B	7/8	3/4	1 1/2	3 3/4	64.65
19030-TXL345	1	3/4	1 1/2	3 3/4	75.50
19031-TXL347	1 1/8	3/4	1 5/8	3 7/8	102.40
19032-TXL349	1 1/4	3/4	1 5/8	3 7/8	109.80
19033-TXL351	1 3/8	3/4	1 5/8	3 7/8	132.50
19034-TXL351A	1 1/2	3/4	1 5/8	3 7/8	159.90
19035-TXL352	1	1	1 5/8	4 1/8	75.50
19036-TXL362	1 1/4	1 1/4	1 5/8	4 1/8	102.85
19037-TXL364	1 1/2	1 1/4	1 5/8	4 1/8	145.80
19038-TXL368	1 3/4	1 1/4	1 5/8	4 1/8	186.90
19039-TXL372	2	1 1/4	1 5/8	4 1/8	206.25



T-15 Endmills
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Solid Carbide
Endmills
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TWO FLUTE COBALT BALL ENDMILL SINGLE END

PREMIUM COBALT STEEL

Regularly furnished with right hand cut-right hand spiral.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	List Price
19061-TXL1104	1/8	3/8	3/8	2 1/4	\$25.00
19062-TXL1106	3/16	3/8	1/2	2 3/8	26.30
19063-TXL1108	1/4	3/8	5/8	2 1/2	26.30
19064-TXL1110	5/16	3/8	3/4	2 9/16	28.15
19065-TXL1112	3/8	3/8	3/4	2 9/16	28.15
19066-TXL1118	1/2	1/2	1	3 1/16	36.35
19067-TXL1128	5/8	5/8	1 3/8	3 9/16	54.75
19068-TXL1132	3/4	3/4	1 5/8	3 15/16	64.05
19069-TXL1145	1	3/4	2 1/4	4 9/16	94.20
19070-TXL1149	1 1/4	3/4	2 1/2	4 13/16	135.40
19071-TXL1151	1 1/2	3/4	2 1/2	4 13/16	175.35
19072-TXL1152	1	1	2 1/4	4 13/16	94.20
19073-TXL1162	1 1/4	1 1/4	2 1/2	5 1/16	135.40
19074-TXL1164	1 1/2	1 1/4	2 1/2	5 1/16	175.35



TWO FLUTE T-15 COBALT BALL ENDMILL SINGLE END

T-15 COBALT STEEL

Regularly furnished with right hand cut-right hand spiral.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	List Price
19151-TXV1104	1/8	3/8	3/8	2 5/16	\$44.45
19152-TXV1106	3/16	3/8	1/2	2 3/8	44.45
19153-TXV1108	1/4	3/8	5/8	2 7/16	44.45
19154-TXV1110	5/16	3/8	3/4	2 1/2	44.45
19155-TXV1112	3/8	3/8	3/4	2 1/2	44.45
19156-TXV1118	1/2	1/2	1	3	59.80
19157-TXV1128	5/8	5/8	1 3/8	3 1/2	89.75
19158-TXV1132	3/4	3/4	1 5/8	3 7/8	99.15
19159-TXV1152	1	1	2 1/4	4 3/4	160.25
19160-TXV1162	1 1/4	1 1/4	2 1/2	5	227.85
19161-TXV1164	1 1/2	1 1/4	2 1/2	5	284.15

COATINGS AVAILABLE ON EVERY TOOL ** See Page 161 for details

COBALT MULTIPLE FLUTE ENDMILLS



MULTIPLE FLUTE ENDMILL SINGLE END PREMIUM COBALT STEEL

Regularly furnished with center cutting and right hand cut-right hand spiral.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	# of Flutes	List Price
18911-XL304	1/8	3/8	3/8	2 5/16	4	\$19.30
18912-XL306	3/16	3/8	1/2	2 3/8	4	19.30
18913-XL308	1/4	3/8	5/8	2 1/2	4	19.30
18914-XL310	5/16	3/8	3/4	2 1/2	4	19.30
18915-XL312	3/8	3/8	3/4	2 1/2	4	19.30
18916-XL314	7/16	3/8	1	2 11/16	4	27.30
18917-XL318	1/2	1/2	1 1/4	3 1/4	4	29.70
18918-XL318A	1/2	1/2	1 1/4	3 1/4	6	29.70
18919-XL328	5/8	5/8	1 5/8	3 3/4	4	44.45
18920-XL328A	5/8	5/8	1 5/8	3 3/4	6	44.45
18921-XL341	3/4	3/4	1 5/8	3 3/4	4	55.95
18922-XL341C	3/4	3/4	1 5/8	3 3/4	6	55.95
18923-XL341B	7/8	3/4	1 7/8	4 1/8	4	69.15
18924-XL342	7/8	7/8	1 7/8	4 1/8	4	71.25
18925-XL345	1	3/4	1 7/8	4 1/8	4	86.55
18926-XL347	1 1/8	3/4	2	4 1/4	6	134.30
18927-XL349	1 1/4	3/4	2	4 1/4	6	139.20
18928-XL351	1 3/8	3/4	2	4 1/4	6	164.25
18929-XL351A	1 1/2	3/4	2	4 1/4	6	173.10
18930-XL352	1	1	2	4 1/2	4	86.55
18931-XL352A	1	1	2	4 1/2	6	86.55
18932-XL362	1 1/4	1 1/4	2	4 1/2	4	118.00
18933-XL362A	1 1/4	1 1/4	2	4 1/2	6	118.00
18934-XL364	1 1/2	1 1/4	2	4 1/2	4	152.05
18935-XL364A	1 1/2	1 1/4	2	4 1/2	6	152.05
18936-XL368	1 3/4	1 1/4	2	4 1/2	6	224.00
18937-XL372	2	1 1/4	2	4 1/2	8	245.65



MULTIPLE FLUTE ENDMILL SINGLE END ~ EXTRA LONG PREMIUM COBALT STEEL

Regularly furnished with right hand cut-right hand spiral.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	# of Flutes	List Price
18991-XL912	3/8	3/8	2 1/2	4 1/4	4	\$30.20
18992-XL918	1/2	1/2	3	5	4	43.70
18993-XL928	5/8	5/8	4	6 1/8	4	68.80
18994-XL932	3/4	3/4	4	6 1/4	4	81.40
18995-XL932A	3/4	3/4	4	6 1/4	6	81.40
18996-XL942	7/8	7/8	5	7 1/4	4	104.10
18997-XL94252	1	1	6	8 1/2	4	136.65
18998-XL952A	1	1	6	8 1/2	6	136.65
18999-XL960	1 1/4	1 1/4	6	8 1/2	4	201.20
19000-XL962	1 1/4	1 1/4	6	8 1/2	6	201.20



MULTIPLE FLUTE BALL ENDMILL SINGLE END PREMIUM COBALT STEEL

Regularly furnished with right hand cut-right hand spiral.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	# of Flutes	List Price
19091-XL1104	1/8	3/8	3/8	2 5/16	4	\$32.65
19092-XL1106	3/16	3/8	1/2	2 3/8	4	35.50
19093-XL1108	1/4	3/8	5/8	2 7/16	4	35.15
19094-XL1110	5/16	3/8	3/4	2 1/2	4	38.70
19095-XL1112	3/8	3/8	3/4	2 1/2	4	38.70
19096-XL1118	1/2	1/2	1 1/4	3 1/4	4	51.15
19097-XL1128	5/8	5/8	1 5/8	3 3/4	4	67.95
19098-XL1132	3/4	3/4	1 5/8	3 7/8	4	77.80
19099-XL1145	1	3/4	1 7/8	4 1/8	4	118.00
19100-XL1149	1 1/4	3/4	2	4 1/4	6	186.35
19101-XL1151	1 1/2	3/4	2	4 1/4	6	235.70
19102-XL1152	1	1	2	4 1/2	4	118.00
19103-XL1162	1 1/4	1 1/4	2	4 1/2	6	169.30
19104-XL1164	1 1/2	1 1/4	2	4 1/2	6	214.20
19106-XL1166	1 3/4	1 1/4	2	4 1/2	6	364.50
19108-XL1168	2	2	6	9 3/4	6	669.80



MULTIPLE FLUTE ENDMILL SINGLE END ~ LONG PREMIUM COBALT STEEL

Regularly furnished with center cutting and right hand cut-right hand spiral.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	# of Flutes	List Price
18961-XL712	3/8	3/8	1 1/2	3 1/4	4	\$26.40
18962-XL714	7/16	1/2	1 3/4	3 3/4	4	38.45
18963-XL718	1/2	1/2	2	4	4	38.45
18964-XL728	5/8	5/8	2 1/2	4 5/8	4	56.05
18965-XL732	3/4	3/4	3	5 1/4	4	69.45
18966-XL732A	3/4	3/4	3	5 1/4	6	69.45
18967-XL752	1	1	4	6 1/2	4	113.65
18968-XL752A	1	1	4	6 1/2	6	113.65
18969-XL760	1 1/4	1	4	6 1/2	6	165.80
18970-XL762	1 1/4	1 1/4	4	6 1/2	4	165.80
18971-XL762A	1 1/4	1 1/4	4	6 1/2	6	165.80
18972-XL764	1 1/2	1 1/4	4	6 1/2	4	224.45
18973-XL764A	1 1/2	1 1/4	4	6 1/2	6	224.45
18974-XL772	2	1 1/4	4	6 1/2	8	319.55

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T-15 MULTIPLE FLUTE ENDMILLS



MULTIPLE FLUTE ENDMILL SINGLE END T-15 COBALT STEEL

Regularly furnished with center cutting and right hand cut-right hand spiral.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	# of Flutes	List Price
19181-XV304	1/8	3/8	3/8	2 5/16	4	\$28.90
19182-XV306	3/16	3/8	1/2	2 3/8	4	28.90
19183-XV308	1/4	3/8	5/8	2 1/2	4	28.90
19184-XV310	5/16	3/8	3/4	2 1/2	4	28.90
19185-XV312	3/8	3/8	3/4	2 1/2	4	28.90
18186-XV314	7/16	3/8	1	2 11/16	4	38.15
19187-XV318	1/2	1/2	1 1/4	3 1/4	4	41.10
19188-XV328	5/8	5/8	1 5/8	3 3/4	4	54.40
19189-XV341	3/4	3/4	1 5/8	3 3/4	4	68.65
19190-XV342	7/8	7/8	1 7/8	4 1/8	4	86.75
19191-XV352	1	1	2	4 1/2	4	105.15
19192-XV362	1 1/4	1 1/4	2	4 1/2	6	152.50
19193-XV364	1 1/2	1 1/4	2	4 1/2	6	185.75
19194-XV368	1 3/4	1 1/4	2	4 1/2	6	272.70
19195-XV372	2	1 1/4	2	4 1/2	6	294.75
19196-XV372A	2	1 1/4	2	4 1/2	8	294.75



TWO FLUTE T-15 COBALT ENDMILL SINGLE END T-15 COBALT STEEL

Regularly furnished with center cutting and right hand cut-right hand spiral.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	List Price
19121-TXV304	1/8	3/8	3/8	2 5/16	\$28.30
19122-TXV306	3/16	3/8	7/16	2 5/16	28.30
19123-TXV308	1/4	3/8	1/2	2 5/16	28.30
19124-TXV310	5/16	3/8	9/16	2 5/16	28.30
19125-TXV312	3/8	3/8	9/16	2 5/16	28.30
19126-TXV314	7/16	3/8	13/16	2 1/2	36.10
19127-TXV316	1/2	1/2	1	3	37.75
19128-TXV318	5/8	5/8	1 5/16	3 7/16	55.00
19129-TXV341	3/4	3/4	1 5/16	3 9/16	62.90
19130-TXV342	7/8	7/8	1 1/2	3 3/4	81.70
19131-TXV352	1	1	1 5/8	4 1/8	101.65
19132-TXV362	1 1/4	1 1/4	1 5/8	4 1/8	144.65
19133-TXV364	1 1/2	1 1/4	1 5/8	4 1/8	180.80
19134-TXV372	2	1 1/4	1 5/8	4 1/8	249.35



MULTIPLE FLUTE ENDMILL SINGLE END ~ LONG T-15 COBALT STEEL

Regularly furnished with center cutting and right hand cut-right hand spiral.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	# of Flutes	List Price
19216-XV708	1/4	3/8	1 1/4	3 1/16	4	\$35.25
19217-XV710	5/16	3/8	1 3/8	3 1/8	4	35.25
19218-XV712	3/8	3/8	1 1/2	3 1/4	4	35.25
19219-XV718	1/2	1/2	2	4	4	43.95
19220-XV728	5/8	5/8	2 1/2	4 5/8	4	60.85
19221-XV732	3/4	3/4	3	5 1/4	4	72.25
19222-XV742	7/8	7/8	3 1/2	5 3/4	4	107.30
19223-XV752	1	1	4	6 1/2	4	124.95
19224-XV762	1 1/4	1 1/4	4	6 1/2	6	202.55
19225-XV764	1 1/2	1 1/4	4	6 1/2	6	280.70
19226-XV772	2	1 1/4	4	6 1/2	6	373.55
19227-XV772A	2	1 1/4	4	6 1/2	8	373.55



MULTIPLE FLUTE ENDMILL SINGLE END ~ EXTRA LONG T-15 COBALT STEEL

Regularly furnished with center cutting and right hand cut-right hand spiral.

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	# of Flutes	List Price
19241-XV910	5/16	3/8	2	3 3/4	4	\$42.10
19242-XV912	3/8	3/8	2 1/2	4 1/4	4	42.10
19243-XV918	1/2	1/2	3	5	4	56.05
19244-XV928	5/8	5/8	4	6 1/8	4	74.00
19245-XV932	3/4	3/4	4	6 1/8	4	83.15
19246-XV942	7/8	7/8	5	7 1/4	4	129.20
19247-XV952	1	1	6	8 1/2	4	162.35
19248-XV962	1 1/4	1 1/4	6	8 1/2	6	299.75
19249-XV964	1 1/2	1 1/4	6	8 1/2	4	386.95

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CARBIDE 2 FLUTE ENDMILLS



SOLID CARBIDE ENDMILLS – CENTER CUTTING



**2 FLUTE – SINGLE END
LIST NO. TCE-300**

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	List Price
23001	1/32	1/8	1/8	1 1/2	\$12.90
23002	1/16	1/8	3/16	1 1/2	11.10
23003	5/64	1/8	3/16	1 1/2	14.85
23004	3/32	1/8	3/8	1 1/2	11.10
23005	7/64	1/8	3/8	1 1/2	14.85
23006	1/8	1/8	1/2	1 1/2	11.10
23007	9/64	3/16	9/16	2	20.70
23008	5/32	3/16	9/16	2	17.95
23009	11/64	3/16	5/8	2	21.30
23010	3/16	3/16	5/8	2	17.95
23011	13/64	1/4	5/8	2 1/2	26.25
23012	7/32	1/4	5/8	2 1/2	21.25
23013	15/64	1/4	3/4	2 1/2	27.45
23014	1/4	1/4	3/4	2 1/2	21.25
23015	17/64	5/16	3/4	2 1/2	29.80
23016	9/32	5/16	3/4	2 1/2	25.75
23017	19/64	5/16	13/16	2 1/2	30.90
23018	5/16	5/16	13/16	2 1/2	25.75
23019	21/64	3/8	7/8	2 1/2	39.25
23020	11/32	3/8	7/8	2 1/2	39.25
23021	23/64	3/8	7/8	2 1/2	39.25
23022	3/8	3/8	7/8	2 1/2	33.85
23023	25/64	7/16	7/8	2 1/2	50.40
23024	13/32	7/16	7/8	2 1/2	50.40
23025	27/64	7/16	7/8	2 1/2	50.40
23026	7/16	7/16	7/8	2 1/2	43.75
23027	29/64	1/2	1	3	63.90
23028	15/32	1/2	1	3	63.90
23029	31/64	1/2	1	3	63.90
23030	1/2	1/2	1	3	55.30
23031	9/16	9/16	1 1/4	3 1/2	83.10
23032	5/8	5/8	1 1/4	3 1/2	101.15
23033	11/16	3/4	1 1/2	4	154.60
23034	3/4	3/4	1 1/2	4	157.10
23035	1	1	1 1/2	4	268.40



**2 FLUTE – DOUBLE END - BALL
LIST NO. TCE-1000**

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	List Price
23261	1/16	1/8	1/4	1 1/2	\$24.65
23262	3/32	1/8	3/8	2	24.65
23263	1/8	1/8	1/2	2	24.65
23264	5/32	3/16	1/2	2	32.70
23265	3/16	3/16	1/2	2	32.70
23266	1/4	1/4	5/8	2 1/2	40.25
23267	5/16	5/16	5/8	2 1/2	40.25
23268	3/8	3/8	3/4	3	51.35
23269	7/16	7/16	3/4	3	62.75
23270	1/2	1/2	3/4	3	74.50



**TWO FLUTE – SINGLE END – BALL
LIST NO. TCE-1100**

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	List Price
23181	1/32	1/8	1/8	1 1/2	\$16.50
23182	1/16	1/8	1/4	1 1/2	14.65
23183	3/32	1/8	3/8	1 1/2	14.65
23184	1/8	1/8	1/2	1 1/2	14.65
23185	5/32	3/16	9/16	2	22.35
23186	3/16	3/16	5/8	2	22.35
23187	7/32	1/4	5/8	2 1/2	27.75
23188	1/4	1/4	3/4	2 1/2	27.75
23189	9/32	5/16	3/4	2 1/2	30.45
23190	5/16	5/16	13/16	2 1/2	31.70
23191	3/8	3/8	7/8	2 1/2	36.25
23192	7/16	7/16	1	3	54.65
23193	1/2	1/2	1	3	58.60
23194	9/16	9/16	1 1/4	3 1/2	90.55
23195	5/8	5/8	1 1/4	3 1/2	118.40
23196	11/16	3/4	1 1/2	4	136.30
23197	3/4	3/4	1 1/2	4	164.35
23199	1	1	1 1/2	4	211.65



**TWO FLUTE – DOUBLE END
LIST NO. TCE-200**

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	List Price
23121	1/16	1/8	1/4	1 1/2	\$20.10
23122	3/32	1/8	3/8	2	20.10
23123	1/8	1/8	1/2	2	20.10
23124	5/32	3/16	1/2	2	27.30
23125	3/16	3/16	1/2	2	27.30
23126	7/32	1/4	5/8	2 1/2	34.75
23127	1/4	1/4	5/8	2 1/2	34.75
23128	5/16	5/16	5/8	2 1/2	43.95
23129	3/8	3/8	3/4	3	53.55
23130	7/16	7/16	3/4	3	72.00
23131	1/2	1/2	3/4	3	82.45

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CARBIDE 4 FLUTE ENDMILLS

SOLID CARBIDE ENDMILLS – CENTER CUTTING



FOUR FLUTE – SINGLE END LIST NO. FCE-300

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	List Price
23061	1/32	1/8	1/8	1 1/2	\$12.40
23062	1/16	1/8	3/16	1 1/2	10.80
23063	5/64	1/8	3/16	1 1/2	14.85
23064	3/32	1/8	3/8	1 1/2	10.80
23065	7/64	1/8	3/8	1 1/2	14.85
23066	1/8	1/8	1/2	1 1/2	10.80
23067	9/64	3/16	9/16	2	20.70
23068	5/32	3/16	9/16	2	17.95
23069	11/64	3/16	5/8	2	21.30
23070	3/16	3/16	5/8	2	17.95
23071	13/64	1/4	5/8	2 1/2	26.25
23072	7/32	1/4	5/8	2 1/2	21.25
23073	15/64	1/4	3/4	2 1/2	27.45
23074	1/4	1/4	3/4	2 1/2	21.25
23075	17/64	5/16	3/4	2 1/2	29.80
23076	9/32	5/16	3/4	2 1/2	25.75
23077	19/64	5/16	13/16	2 1/2	30.90
23078	5/16	5/16	13/16	2 1/2	25.75
23079	21/64	3/8	7/8	2 1/2	39.25
23080	11/32	3/8	7/8	2 1/2	39.25
23081	23/64	3/8	7/8	2 1/2	39.25
23082	3/8	3/8	7/8	2 1/2	33.85
23083	25/64	7/16	7/8	2 1/2	50.40
23084	13/32	7/16	7/8	2 1/2	50.40
23085	27/64	7/16	7/8	2 1/2	50.40
23086	7/16	7/16	7/8	2 1/2	43.75
23087	29/64	1/2	1	3	63.90
23088	15/32	1/2	1	3	63.90
23089	31/64	1/2	1	3	63.90
23090	1/2	1/2	1	3	55.30
23091	9/16	9/16	1 1/4	3 1/2	83.10
23092	5/8	5/8	1 1/4	3 1/2	101.15
23093	11/16	3/4	1 1/2	4	154.60
23094	3/4	3/4	1 1/2	4	157.10
23095	1	1	1 1/2	4	268.40

*SPECIAL CARBIDE ENDMILLS
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FOUR FLUTE – SINGLE END – BALL LIST NO. FCE-1100

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	List Price
23221	1/32	1/8	1/8	1 1/2	\$16.50
23222	1/16	1/8	1/4	1 1/2	14.50
23223	3/32	1/8	3/8	1 1/2	14.50
23224	1/8	1/8	1/2	1 1/2	14.50
23225	5/32	3/16	9/16	2	21.75
23226	3/16	3/16	5/8	2	21.75
23227	7/32	1/4	5/8	2 1/2	27.10
23228	1/4	1/4	3/4	2 1/2	27.10
23229	9/32	5/16	3/4	2 1/2	35.10
23230	5/16	5/16	13/16	2 1/2	26.25
23231	3/8	3/8	7/8	2 1/2	46.15
23232	7/16	7/16	1	3	59.50
23233	1/2	1/2	1	3	68.05
23234	9/16	9/16	1 1/4	3 1/2	90.55
23235	5/8	5/8	1 1/4	3 1/2	118.40
23236	11/16	3/4	1 1/2	4	136.30
23237	3/4	3/4	1 1/2	4	164.35
23239	1	1	1 1/2	4	311.65



FOUR FLUTE – DOUBLE END LIST NO. FCE-200

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	List Price
23151	1/16	1/8	1/4	1 1/2	\$20.10
23152	3/32	1/8	3/8	2	20.10
23153	1/8	1/8	1/2	2	20.10
23154	5/32	3/16	1/2	2	27.30
23155	3/16	3/16	1/2	2	27.30
23156	7/32	1/4	5/8	2 1/2	32.40
23157	1/4	1/4	5/8	2 1/2	32.40
23158	5/16	5/16	5/8	2 1/2	43.05
23159	3/8	3/8	3/4	3	53.55
23160	7/16	7/16	3/4	3	65.25
23161	1/2	1/2	3/4	3	82.45



FOUR FLUTE – DOUBLE END – BALL LIST NO. FCE-1000

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	List Price
23291	1/16	1/8	1/4	1 1/2	\$26.10
23292	3/32	1/8	3/8	2	26.10
23294	1/8	1/8	1/2	2	26.10
23295	5/32	3/16	1/2	2	37.05
23296	3/16	3/16	1/2	2	37.05
23297	1/4	1/4	5/8	2 1/2	43.35
23298	5/16	5/16	5/8	2 1/2	57.00
23299	3/8	3/8	3/4	3	67.90
23300	7/16	7/16	3/4	3	95.25
23301	1/2	1/2	3/4	3	108.00

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METRIC TWO FLUTE – SINGLE END

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	List Price
20100	1 mm	3 mm	4 mm	38 mm	\$13.85
20102	1.5 mm	3 mm	5 mm	38 mm	13.50
20104	2 mm	3 mm	8 mm	38 mm	13.50
20106	2.5 mm	3 mm	9.5 mm	38 mm	13.50
20108	3 mm	3 mm	12 mm	38 mm	12.95
20110	3.5 mm	4 mm	12 mm	50 mm	17.25
20112	4 mm	4 mm	14 mm	50 mm	17.25
20114	4.5 mm	6 mm	16 mm	63 mm	21.40
20116	5 mm	6 mm	16 mm	63 mm	21.15
20118	6 mm	6 mm	19 mm	63 mm	20.70
20120	7 mm	8 mm	19 mm	63 mm	31.50
20122	8 mm	8 mm	20 mm	63 mm	30.45
20124	9 mm	10 mm	25 mm	70 mm	44.10
20126	10 mm	10 mm	25 mm	70 mm	41.85
20128	11 mm	12 mm	25 mm	76 mm	57.40
20130	12 mm	12 mm	25 mm	76 mm	54.90
20132	14 mm	14 mm	32 mm	89 mm	105.30
20134	16 mm	16 mm	32 mm	89 mm	112.40
20136	18 mm	18 mm	38 mm	100 mm	155.70
20138	20 mm	20 mm	38 mm	100 mm	220.50
20140	25 mm	25 mm	38 mm	100 mm	266.40



METRIC TWO FLUTE – SINGLE END – BALL

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	List Price
20160	1 mm	3 mm	4 mm	38 mm	\$18.45
20162	1.5 mm	3 mm	5 mm	38 mm	17.90
20164	2 mm	3 mm	8 mm	38 mm	17.90
20166	2.5 mm	3 mm	9.5 mm	38 mm	17.90
20168	3 mm	3 mm	12 mm	38 mm	16.65
20170	3.5 mm	4 mm	12 mm	50 mm	20.70
20172	4 mm	4 mm	14 mm	50 mm	20.70
20174	4.5 mm	6 mm	16 mm	63 mm	26.10
20176	5 mm	6 mm	16 mm	63 mm	25.55
20178	6 mm	6 mm	19 mm	63 mm	24.65
20180	7 mm	8 mm	19 mm	63 mm	35.90
20182	8 mm	8 mm	20 mm	63 mm	34.50
20184	9 mm	10 mm	25 mm	70 mm	49.95
20186	10 mm	10 mm	25 mm	70 mm	48.15
20188	11 mm	12 mm	25 mm	76 mm	75.95
20190	12 mm	12 mm	25 mm	76 mm	73.60
20192	14 mm	14 mm	32 mm	89 mm	109.80
20194	16 mm	16 mm	32 mm	89 mm	124.20
20196	18 mm	18 mm	38 mm	100 mm	174.95
20198	20 mm	20 mm	38 mm	100 mm	268.20
20200	25 mm	25 mm	38 mm	100 mm	304.20



COATINGS AVAILABLE ON EVERY TOOL ** See Page 161 for details

METRIC FOUR FLUTE – SINGLE END

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	List Price
20300	1 mm	3 mm	4 mm	38 mm	\$13.85
20302	1.5 mm	3 mm	5 mm	38 mm	13.50
20304	2 mm	3 mm	8 mm	38 mm	13.50
20306	2.5 mm	3 mm	9.5 mm	38 mm	13.50
20308	3 mm	3 mm	12 mm	38 mm	12.95
20310	3.5 mm	4 mm	12 mm	50 mm	17.25
20312	4 mm	4 mm	14 mm	50 mm	17.25
20314	4.5 mm	6 mm	16 mm	63 mm	21.40
20316	5 mm	6 mm	16 mm	63 mm	21.15
20318	6 mm	6 mm	19 mm	63 mm	20.70
20320	7 mm	8 mm	19 mm	63 mm	31.50
20322	8 mm	8 mm	20 mm	63 mm	30.45
20324	9 mm	10 mm	25 mm	70 mm	44.10
20326	10 mm	10 mm	25 mm	70 mm	41.85
20328	11 mm	12 mm	25 mm	76 mm	57.40
20330	12 mm	12 mm	25 mm	76 mm	54.90
20332	14 mm	14 mm	32 mm	89 mm	105.30
20334	16 mm	16 mm	32 mm	89 mm	112.40
20336	18 mm	18 mm	38 mm	100 mm	155.70
20339	20 mm	20 mm	38 mm	100 mm	220.50
20340	25 mm	25 mm	38 mm	100 mm	266.40



METRIC FOUR FLUTE – SINGLE END – BALL

Catalog EDI-Number	Mill Dia.	Shank Dia.	Flute Length	Overall Length	List Price
20341	1 mm	3 mm	4 mm	38 mm	\$18.45
20342	1.5 mm	3 mm	5 mm	38 mm	17.90
20344	2 mm	3 mm	8 mm	38 mm	17.90
20346	2.5 mm	3 mm	9.5 mm	38 mm	17.90
20348	3 mm	3 mm	12 mm	38 mm	16.65
20350	3.5 mm	4 mm	12 mm	50 mm	20.70
20352	4 mm	4 mm	14 mm	50 mm	20.70
20354	4.5 mm	6 mm	16 mm	63 mm	26.10
20356	5 mm	6 mm	16 mm	63 mm	25.55
20358	6 mm	6 mm	19 mm	63 mm	24.65
20360	7 mm	8 mm	19 mm	63 mm	35.90
20362	8 mm	8 mm	20 mm	63 mm	34.50
20364	9 mm	10 mm	25 mm	70 mm	49.95
20366	10 mm	10 mm	25 mm	70 mm	48.15
20368	11 mm	12 mm	25 mm	76 mm	75.95
20370	12 mm	12 mm	25 mm	76 mm	73.60
20372	14 mm	14 mm	32 mm	89 mm	109.80
20374	16 mm	16 mm	32 mm	89 mm	124.20
20376	18 mm	18 mm	38 mm	100 mm	174.95
20378	20 mm	20 mm	38 mm	100 mm	268.20
20380	25 mm	25 mm	38 mm	100 mm	304.20



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APFD1604 ENDMILL & AP1604 INSERTS



APFD1604 ENDMILL WITH WELDON SHANK (No coolant through hole)



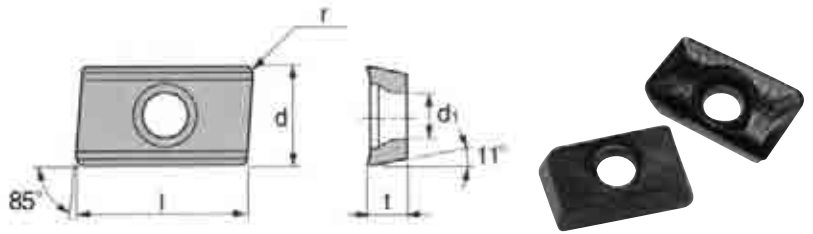
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Catalog EDI-#	Description	Dia.	Shank Dia.	Length	Overall Depth of Cut	Max. Depth of Cut	Teeth	Insert	List Price
56611	AP1604 EM 7/8x3/4x2FL	.875	.750	3.94	1.38	.57	2	AP1604	\$113.20
56612	AP1604 EM 1x1x2FL	1.000	1.000	3.94	1.57	.57	2	AP1604	70.00
56613	AP1604 EM 1 1/4x1 1/4x 3FL	1.250	1.250	4.92	1.57	.57	3	AP1604	153.30
56614	AP1604 EM 1 1/4x1x3FL	1.250	1.000	4.92	1.57	.57	3	AP1604	153.30

AP1604 MILLING INSERTS FOR APFD1604 ENDMILL UNCOATED FOR ALUMINUM

INSERTS ORDERED IN PACKS OF TEN!

Catalog EDI-#	l	d	t	r	d1	List Price
56601	.646	.375	.187	.008	.173	\$11.25
56602	.646	.375	.187	.016	.173	11.25
56603	.646	.375	.187	.031	.173	11.25
56604	.646	.375	.187	.063	.173	11.25
56605	.646	.375	.187	.126	.173	11.25



AP1604 MILLING INSERTS FOR APFD1604 ENDMILL WITH CHIP BREAKER TiAlN COATED FOR STAINLESS STEEL

AP1604 MILLING INSERTS FOR APFD1604 ENDMILL WITH CHIP BREAKER TiAlN COATED FOR CAST IRON

Catalog EDI-#	l	d	t	r	d1	List Price
56606	.650	.376	.227	.031	.175	\$12.95
56607	.650	.376	.227	.063	.175	12.95
56608	.650	.376	.227	.126	.175	12.95

Catalog EDI-#	l	d	t	r	d1	List Price
56619	.650	.376	.227	.031	.175	\$12.95
56620	.650	.376	.227	.126	.175	12.95

AP1604 MILLING INSERTS FOR APFD1604 ENDMILL WITH CHIP BREAKER TiAlN COATED FOR STEEL

AP1604 MILLING INSERTS FOR APFD1604 ENDMILL WITH CHIP BREAKER TiAlN COATED FOR HIGH TEMP ALLOY

Catalog EDI-#	l	d	t	r	d1	List Price
56615	.650	.376	.227	.031	.175	\$12.95
56616	.650	.376	.227	.063	.175	12.95
56617	.650	.376	.227	.126	.175	12.95

Catalog EDI-#	l	d	t	r	d1	List Price
56621	.650	.376	.227	.031	.175	\$12.95

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CORNER ROUNDING ENDMILLS

See Arbor Radius
Cutters - Pages 31, 32 & 34



Now In
Metric Sizes

These formed endmills are regularly furnished in right hand cut.

FRACTIONAL HSS

Catalog EDI-Number	Radius	Shank Dia.	Largest Dia.	Overall Length	List Price
17051-C401	1/32	3/8	7/16	2 1/2	\$33.70
17052-C402	1/16	3/8	7/16	2 1/2	34.00
17053-C403	3/32	3/8	1/2	2 1/2	36.60
17054-C404	1/8	1/2	5/8	3	44.60
17055-C405	5/32	1/2	3/4	3	48.80
17056-C4051	3/16	1/2	7/8	2 15/16	55.25
17057-C406	3/16	3/4	7/8	3 1/8	55.25
17058-C4061	1/4	1/2	1	3 1/4	61.60
17059-C408	1/4	3/4	1	3 1/4	61.60
17060-C409	5/16	3/4	1 1/8	3 1/4	75.75
17061-C410	5/16	7/8	1 1/8	3 1/2	75.75
17062-C411	3/8	3/4	1 1/4	3 1/2	85.95
17063-C412	3/8	7/8	1 1/4	3 3/4	85.95
17064-C413	7/16	3/4	1 3/8	3 3/4	94.80
17065-C414	7/16	1	1 3/8	4	94.80
17066-C416	1/2	3/4	1 1/2	3 7/8	100.65
17067-C418	1/2	1	1 1/2	4 1/8	100.65
17068-C420	5/8	3/4	1 15/16	4	122.70
17069-C422	5/8	1	1 15/16	4 1/4	122.70
17070-C423	3/4	5/8	2 1/4	4 1/8	165.55
17071-C424	3/4	3/4	2 1/4	4 1/8	138.10
17072-C426	3/4	1	2 1/4	4 5/16	138.10
17073-C430	7/8	1	2 1/2	4 1/2	258.35
17074-C436	1	1	2 5/8	4 3/4	165.05

METRIC HSS

Catalog EDI-Number	Radius	Shank Dia.	Largest Dia.	Overall Length	List Price
34501-C501	1 mm	3/8	7/16	2 1/2	\$44.50
34502-C502	1.5 mm	3/8	7/16	2 1/2	44.50
34503-C503	2 mm	3/8	1/2	2 1/2	47.60
34504-C504	2.5 mm	3/8	1/2	2 1/2	47.60
34505-C505	3 mm	1/2	5/8	3	55.00
34506-C506	3.5 mm	1/2	3/4	3	57.90
34507-C507	4 mm	1/2	3/4	3	57.90
34508-C508	4.5 mm	1/2	7/8	3	65.30
34509-C509	5 mm	1/2	7/8	3	65.30
34510-C510	6 mm	3/4	1	3 1/4	73.70
34511-C511	7 mm	3/4	1	3 1/4	73.70
34512-C512	8 mm	3/4	1 1/8	3 1/4	92.05
34513-C513	9 mm	3/4	1 1/8	3 1/4	92.05
34514-C514	10 mm	3/4	1 3/8	3 3/4	118.70
34515-C515	11 mm	1	1 3/8	3 3/4	118.70
34516-C516	12 mm	1	1 1/2	4 1/8	128.50
34517-C517	13 mm	1	1 1/2	4 1/8	128.50
34518-C518	14 mm	1	1 5/8	4 1/8	142.70
34519-C519	15 mm	1	1 7/8	4 1/4	142.70
34520-C520	16 mm	1	2	4 1/4	151.30
34521-C521	17 mm	1	2 1/8	4 1/4	151.30
34522-C522	18 mm	1	2 1/4	4 1/4	161.00
34523-C523	19 mm	1	2 1/4	4 1/4	161.00
34524-C524	20 mm	1	2 5/16	4 1/4	175.65

FRACTIONAL COBALT

Catalog EDI-Number	Radius	Shank Dia.	Largest Dia.	Overall Length	List Price
34470-CX401	1/32	3/8	7/16	2 1/2	\$37.50
34471-CX402	1/16	3/8	7/16	2 1/2	37.80
34472-CX403	3/32	3/8	1/2	2 1/2	40.70
34473-CX404	1/8	1/2	5/8	3	49.70
34474-CX405	5/32	1/2	3/4	3	54.90
34475-CX4051	3/16	1/2	7/8	2 15/16	118.70
34476-CX406	3/16	3/4	7/8	3 1/8	62.70
34477-CX4061	1/4	1/2	1	3 1/4	126.55
34478-CX408	1/4	3/4	1	3 1/4	70.90
34479-CX409	5/16	3/4	1 1/8	3 1/4	148.90
34480-CX410	5/16	7/8	1 1/8	3 1/2	89.00
34481-CX411	3/8	3/4	1 1/4	3 1/2	169.00
34482-CX412	3/8	7/8	1 1/4	3 3/4	101.05
34483-CX413	7/16	3/4	1 3/8	3 3/4	185.90
34484-CX414	7/16	1	1 3/8	4	185.90
34485-CX416	1/2	3/4	1 1/2	3 7/8	197.20
34486-CX418	1/2	1	1 1/2	4 1/8	120.60
34487-CX420	5/8	3/4	1 15/16	4	203.00
34488-CX422	5/8	1	1 15/16	4 1/4	203.00
34489-CX423	3/4	5/8	2 1/4	4 1/8	229.50
34490-CX424	3/4	3/4	2 1/4	4 1/8	229.50
34491-CX426	3/4	1	2 1/4	4 5/16	229.80
34492-CX430	7/8	1	2 1/2	4 1/2	358.10
34493-CX436	1	1	2 5/8	4 3/4	426.40

METRIC COBALT

Catalog EDI-Number	Radius	Shank Dia.	Largest Dia.	Overall Length	List Price
34530-CX501	1 mm	3/8	7/16	2 1/2	\$56.25
34531-CX502	1.5 mm	3/8	7/16	2 1/2	56.25
34532-CX503	2 mm	3/8	1/2	2 1/2	61.10
34533-CX504	2.5 mm	3/8	1/2	2 1/2	61.10
34534-CX505	3 mm	1/2	5/8	3	69.35
34535-CX506	3.5 mm	1/2	3/4	3	73.15
34536-CX507	4 mm	1/2	3/4	3	73.15
34537-CX508	4.5 mm	1/2	7/8	3	82.30
34538-CX509	5 mm	1/2	7/8	3	82.30
34539-CX510	6 mm	3/4	1	3 1/4	92.90
34540-CX511	7 mm	3/4	1	3 1/4	92.90
34541-CX512	8 mm	3/4	1 1/8	3 1/4	115.20
34542-CX513	9 mm	3/4	1 1/8	3 1/4	115.20
34543-CX514	10 mm	3/4	1 3/8	3 3/4	150.45
34544-CX515	11 mm	1	1 3/8	3 3/4	150.45
34545-CX516	12 mm	1	1 1/2	4 1/8	163.75
34546-CX517	13 mm	1	1 1/2	4 1/8	163.75
34547-CX518	14 mm	1	1 5/8	4 1/8	179.45
34548-CX519	15 mm	1	1 7/8	4 1/4	179.45
34549-CX520	16 mm	1	2	4 1/4	190.50
34550-CX521	17 mm	1	2 1/8	4 1/4	190.50
34551-CX522	18 mm	1	2 1/4	4 1/4	204.10
34552-CX523	19 mm	1	2 1/4	4 1/4	204.10
34553-CX524	20 mm	1	2 5/16	4 1/4	221.35

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