

HIGH SPEED STEEL AND COBALT (M42) STEEL

3/16" SHANK DIAMETER DOUBLE END END MILLS

2 FLUTE STUB LENGTH

SERIES 577: HIGH SPEED
SERIES 593: COBALT (M42)



Mill Dia.	LOC	OAL	High Speed		Cobalt (M42)	
			Order No.	Price	Order No.	Price
1/32	3/64	2	5772020		5932020	
3/64	1/16	2	5772030		5932030	
1/16	3/32	2	5772040		5932040	
5/64	1/8	2	5772050		5932050	
3/32	9/64	2	5772060		5932060	
7/64	5/32	2	5772070		5932070	
1/8	3/16	2	5772080		5932080	
9/64	7/32	2	5772090		5932090	
5/32	15/64	2	5772100		5932100	
11/64	1/4	2	5772110		5932110	
3/16	9/32	2	5772120		5932120	

2 FLUTE REGULAR LENGTH

SERIES 89: HIGH SPEED
SERIES 594: COBALT (M42)



Mill Dia.	LOC	OAL	High Speed		Cobalt (M42)	
			Order No.	Price	Order No.	Price
1/32	3/32	2-1/4	1280020		5942020	
3/64	9/64	2-1/4	1280030		5942030	
1/16	7/32	2-1/4	1280040		5942040	
5/64	15/64	2-1/4	1280050		5942050	
3/32	5/16	2-1/4	1280060		5942060	
7/64	5/16	2-1/4	1280070		5942070	
1/8	3/8	2-1/4	1280080		5942080	
9/64	3/8	2-1/4	1280090		5942090	
5/32	7/16	2-1/4	1280100		5942100	
11/64	7/16	2-1/4	1280110		5942110	
3/16	1/2	2-1/4	1280120		5942120	

2 FLUTE LONG LENGTH

SERIES 90: HIGH SPEED
SERIES 595: COBALT (M42)



Mill Dia.	LOC	OAL	High Speed		Cobalt (M42)	
			Order No.	Price	Order No.	Price
1/16	7/32	2-1/2	1285040		5952040	
5/64	1/4	2-1/2	1285050		5952050	
3/32	9/32	2-5/8	1285060		5952060	
7/64	9/32	2-5/8	1285070		5952070	
1/8	3/4	3-1/8	1285080		5952080	
9/64	3/4	3-1/8	1285090		5952090	
5/32	7/8	3-1/4	1285100		5952100	
11/64	7/8	3-1/4	1285110		5952110	
3/16	1	3-3/8	1285120		5952120	

4 FLUTE STUB LENGTH

SERIES 580: HIGH SPEED
SERIES 598: COBALT (M42)



Mill Dia.	LOC	OAL	High Speed		Cobalt (M42)	
			Order No.	Price	Order No.	Price
1/16	3/32	2	5804040		5982040	
5/64	1/8	2	5804050		5982050	
3/32	9/64	2	5804060		5982060	
7/64	5/32	2	5804070		5982070	
1/8	3/16	2	5804080		5982080	
9/64	7/32	2	5804090		5982090	
5/32	15/64	2	5804100		5982100	
11/64	1/4	2	5804110		5982110	
3/16	9/32	2	5804120		5982120	

4 FLUTE REGULAR LENGTH

SERIES 91: HIGH SPEED
SERIES 599: COBALT (M42)



Mill Dia.	LOC	OAL	High Speed		Cobalt (M42)	
			Order No.	Price	Order No.	Price
1/16	3/16	2-1/4	1290040		5994040	
5/64	5/16	2-1/4	1290050		5994050	
3/32	5/16	2-1/4	1290060		5994060	
7/64	5/16	2-1/4	1290070		5994070	
1/8	3/8	2-1/4	1290080		5994080	
9/64	3/8	2-1/4	1290090		5994090	
5/32	7/16	2-1/4	1290100		5994100	
11/64	7/16	2-1/4	1290110		5994110	
3/16	1/2	2-1/4	1290120		5994120	

4 FLUTE LONG LENGTH

SERIES 92: HIGH SPEED
SERIES 606: COBALT (M42)



Mill Dia.	LOC	OAL	High Speed		Cobalt (M42)	
			Order No.	Price	Order No.	Price
1/16	7/32	2-1/2	1295040		6064040	
5/64	1/4	2-1/2	1295050		6064050	
3/32	9/32	2-5/8	1295060		6064060	
7/64	9/32	2-5/8	1295070		6064070	
1/8	3/4	3-1/8	1295080		6064080	
9/64	3/4	3-1/8	1295090		6064090	
5/32	7/8	3-1/4	1295100		6064100	
11/64	7/8	3-1/4	1295110		6064110	
3/16	1	3-3/8	1295120		6064120	

HIGH SPEED STEEL AND COBALT (M42) STEEL

3/16" SHANK DIAMETER DOUBLE END END MILLS

2 FLUTE REGULAR LENGTH BALL

SERIES 578: HIGH SPEED
SERIES 596: COBALT (M42)



Mill Dia.	LOC	OAL	High Speed		Cobalt (M42)	
			Order No.	Price	Order No.	Price
1/16	7/32	2-1/4	5782040		5962040	
5/64	15/64	2-1/4	5782050		5962050	
3/32	5/16	2-1/4	5782060		5962060	
7/64	5/16	2-1/4	5782070		5962070	
1/8	3/8	2-1/4	5782080		5962080	
9/64	3/8	2-1/4	5782090		5962090	
5/32	7/16	2-1/4	5782100		5962100	
11/64	7/16	2-1/4	5782110		5962110	
3/16	1/2	2-1/4	5782120		5962120	

2 FLUTE LONG LENGTH BALL

SERIES 579: HIGH SPEED
SERIES 597: COBALT (M42)



Mill Dia.	LOC	OAL	High Speed		Cobalt (M42)	
			Order No.	Price	Order No.	Price
1/16	7/32	2-1/2	5792040		5972040	
5/64	1/4	2-1/2	5792050		5972050	
3/32	9/32	2-5/8	5792060		5972060	
7/64	9/32	2-5/8	5792070		5972070	
1/8	3/4	3-1/8	5792080		5972080	
9/64	3/4	3-1/8	5792090		5972090	
5/32	7/8	3-1/4	5792100		5972100	
11/64	7/8	3-1/4	5792110		5972110	
3/16	1	3-3/8	5792120		5972120	

HIGH SPEED STEEL AND COBALT (M42) STEEL

2 FLUTE DOUBLE END CENTER-CUTTING MINIATURE END MILLS
Stub Length / Regular Length / Long Length

SERIES 735:



SERIES 734:



Mill Dia.	Shank Dia.	Flute Length	OAL	MELIN - M42		STAR USA - M2		STAR USA - M42	
				Order No.	Price	Order No.	Price	Order No.	Price
1/32	3/16	3/64	2	11082		165020		265020	
1/32	3/16	3/32	2-1/4	910872		165140		265140	
3/64	3/16	1/16	2	11084		165030		265030	
3/64	3/16	9/64	2-1/4	910874		165150		265150	
1/16	3/16	3/32	2	11086		165040		265040	
1/16	3/16	3/16	2-1/4	910876		165160		265160	
1/16	3/16	7/32	2-1/2	11048		165280		265280	
5/64	3/16	1/8	2	11088		165050		265050	
5/64	3/16	15/64	2-1/4	10878		165170		265170	
3/32	3/16	9/64	2	11090		165060		265060	
3/32	3/16	9/32	2-1/4	10880		165180		265180	
3/32	3/16	1/2	2-5/8	911050		-		-	
7/64	3/16	5/32	2	11092		165070		265070	
7/64	3/16	21/64	2-1/4	10882		165190		265190	
1/8	3/16	3/16	2	11094		165080		265080	
1/8	3/16	3/8	2-1/4	10884		165200		265200	
1/8	3/16	3/4	3-1/8	11052		165320		265320	
9/64	3/16	7/32	2	911096		165090		265090	
9/64	3/16	13/32	2-1/4	910886		165210		265210	
5/32	3/16	15/64	2	11098		165100		265100	
5/32	3/16	7/16	2-1/4	910888		165220		265220	
5/32	3/16	7/8	3-1/4	911054		165340		265340	
11/64	3/16	1/4	2	11100		165110		265110	
11/64	3/16	1/2	2-1/4	10890		165230		265230	
3/16	3/16	9/32	2	911102		165120		265120	
3/16	3/16	1/2	2-1/4	10892		165240		265240	
3/16	3/16	1	3-3/8	11056		165360		265360	

CUTTING TOOLS - END MILLS

HIGH SPEED STEEL AND COBALT (M42) STEEL
 4 FLUTE DOUBLE END MINIATURE END MILLS
 Stub Length / Regular Length / Long Length

SERIES 739:



SERIES 741:



Mill Dia.	Shank Dia.	Flute Length	OAL	MELIN - M42		STAR USA - M2		STAR USA - M42	
				Order No.	Price	Order No.	Price	Order No.	Price
1/16	3/16	3/32	2	911992		166240		266240	
1/16	3/16	3/16	2-1/4	11800		166360		266360	
1/16	3/16	7/32	2-1/2	911902		166480		266480	
5/64	3/16	1/8	2	911994		166250		266250	
5/64	3/16	15/64	2-1/4	11802		166370		266370	
3/32	3/16	9/64	2	11996		166260		266260	
3/32	3/16	9/32	2-1/4	11804		166380		266380	
7/64	3/16	5/32	2	911998		166270		266270	
7/64	3/16	21/64	2-1/4	11806		166390		266390	
1/8	3/16	3/16	2	12000		166280		266280	
1/8	3/16	3/8	2-1/4	11808		166400		266400	
1/8	3/16	3/4	3-1/8	11906		166520		266520	
9/64	3/16	3/16	2	12002		166290		266290	
9/64	3/16	27/64	2-1/4	911810		166410		266410	
5/32	3/16	15/64	2	12004		166300		266300	
5/32	3/16	7/16	2-1/4	11812		166420		266420	
5/32	3/16	7/8	3-1/4	11908		166540		266540	
11/64	3/16	1/4	2	12006		166310		266310	
11/64	3/16	33/64	2-1/4	11814		166430		266430	
3/16	3/16	9/32	2	12008		166320		266320	
3/16	3/16	1/2	2-1/4	11816		166440		266440	
3/16	3/16	1	3-3/8	911910		166560		266560	

HIGH SPEED STEEL AND COBALT (M42) STEEL
 2 FLUTE DOUBLE END BALL END MINIATURE END MILLS
 Stub Length / Regular Length / Long Length

SERIES 737:



SERIES 740:



Mill Dia.	Shank Dia.	Flute Length	OAL	MELIN - M42		STAR USA - M2		STAR USA - M42	
				Order No.	Price	Order No.	Price	Order No.	Price
1/32	3/16	3/64	2	11114		-		-	
1/32	3/16	3/32	2-1/4	910982		165740		265740	
3/64	3/16	1/16	2	11116		-		-	
3/64	3/16	9/64	2-1/4	910984		165750		265750	
1/16	3/16	3/32	2	911118		165640		265640	
1/16	3/16	3/16	2-1/4	910986		165760		265760	
1/16	3/16	7/32	2-1/2	11058		165880		265880	
5/64	3/16	1/8	2	11120		-		-	
5/64	3/16	15/64	2-1/4	9990988		165770		265770	
3/32	3/16	9/64	2	911122		165660		265660	
3/32	3/16	9/32	2-1/4	910990		165780		265780	
3/32	3/16	1/2	2-5/8	911060		-		-	
7/64	3/16	5/32	2	11124		-		-	
7/64	3/16	21/64	2-1/4	910992		165790		265790	
1/8	3/16	3/16	2	911126		165680		265680	
1/8	3/16	3/8	2-1/4	910994		165800		265800	
1/8	3/16	3/4	3-1/8	911062		165920		265920	
9/64	3/16	7/32	2	11128		-		-	
9/64	3/16	13/32	2-1/4	10996		165810		265810	
5/32	3/16	15/64	2	11130		165700		265700	
5/32	3/16	7/16	2-1/4	910998		165820		265820	
5/32	3/16	7/8	3-1/4	911064		165940		265940	
11/64	3/16	1/4	2	911132		-		-	
11/64	3/16	1/2	2-1/4	9991000		165830		265830	
3/16	3/16	9/32	2	911134		165720		265720	
3/16	3/16	1/2	2-1/4	911002		165840		265840	
3/16	3/16	1	3-3/8	11066		165960		265960	

**HIGH SPEED STEEL AND COBALT (M42) STEEL
TWO FLUTE SINGLE END END MILLS**

**SERIES 95: HIGH SPEED
SERIES 82: COBALT (M42)**



MEGA
Superior Import

Mill Dia.	Shank Dia.	Lgth of Cut	OAL	High Speed		Cobalt (M42)	
				Order No.	Price	Order No.	Price
1/8	3/8	3/8	2-5/16	2000071		1900081	
5/32	3/8	7/16	2-5/16	2000101		1900101	
3/16	3/8	7/16	2-5/16	2000133		1900121	
7/32	3/8	1/2	2-5/16	2000141		1900141	
1/4	3/8	1/2	2-5/16	2000161		1900161	
9/32	3/8	9/16	2-5/16	2000181		1900181	
5/16	3/8	9/16	2-5/16	2000201		1900201	
11/32	3/8	9/16	2-5/16	2000221		1900221	
3/8	3/8	9/16	2-5/16	2000241		1900241	
13/32	3/8	13/16	2-1/2	2000261		1900261	
7/16	3/8	13/16	2-1/2	2000281		1900281	
15/32	3/8	13/16	2-1/2	2000301		1900301	
1/2	3/8	13/16	2-1/2	2000321		1900321	
1/2	1/2	1	3	2000322		1900322	
9/16	1/2	1-1/8	3-1/8	2000362		1900362	
5/8	1/2	1-1/8	3-1/8	2000402		1900402	
5/8	5/8	1-5/16	3-7/16	2000403		1900403	
11/16	1/2	1-5/16	3-5/16	2000442		-	
11/16	5/8	1-5/16	3-7/16	2000443		1900443	
3/4	1/2	1-5/16	3-5/16	2000482		1900482	
3/4	5/8	1-5/16	3-7/16	2000481		1900483	
3/4	3/4	1-5/16	3-7/16	2000484		1900484	
13/16	1/2	1-1/2	3-5/8	2000522		-	
13/16	5/8	1-1/2	3-5/8	2000523		1900523	
13/16	3/4	1-1/2	3-3/4	2000524		1900524	
7/8	1/2	1-1/2	3-1/2	2000562		1900562	
7/8	5/8	1-1/2	3-5/8	2000563		1900563	
7/8	3/4	1-1/2	3-3/4	2000564		1900564	
7/8	7/8	1-1/2	3-3/4	2000565		1900565	
15/16	1/2	1-1/2	3-1/2	2000602		-	
15/16	5/8	1-1/2	3-5/8	2000603		-	
15/16	3/4	1-1/2	3-3/4	2000604		1900604	
15/16	7/8	1-1/2	3-3/4	2000605		-	
1	1/2	1-1/2	3-1/2	2000642		1900642	
1	5/8	1-1/2	3-5/8	2000643		1900643	
1	3/4	1-1/2	3-3/4	2000634		1900644	
1	7/8	1-1/2	3-3/4	2000645		-	
1	1	1-5/8	4-1/8	2000646		1900646	
1-1/16	5/8	1-5/8	3-7/8	2000683		-	
1-1/16	3/4	1-5/8	3-7/8	2000684		1900684	
1-1/16	7/8	1-5/8	3-7/8	2000685		-	
1-1/8	3/4	1-5/8	3-7/8	2000724		1900724	
1-1/8	7/8	1-5/8	3-7/8	2000725		-	
1-1/8	1	1-5/8	4-1/8	2000726		1900726	
1-3/16	3/4	1-5/8	3-7/8	2000764		1900764	
1-1/4	3/4	1-5/8	3-7/8	2000804		1900804	
1-1/4	7/8	1-5/8	3-7/8	2000809		-	
1-1/4	1	1-5/8	4-1/8	2000806		1900806	
1-1/4	1-1/4	1-5/8	4-1/8	2000807		1900807	
1-5/16	3/4	1-5/8	3-7/8	2000844		1900844	
1-3/8	3/4	1-5/8	3-7/8	2000884		1900884	
1-3/8	1	1-5/8	4-1/8	2000886		1900886	
1-7/16	3/4	1-5/8	3-7/8	2000924		1900924	
1-1/2	1/2	1-5/8	3-5/8	2000962		-	
1-1/2	3/4	1-5/8	3-7/8	2000964		1900964	
1-1/2	1	1-5/8	4-1/8	2000976		1900966	
1-1/2	1-1/4	1-5/8	4-1/8	2000967		1900967	
1-5/8	3/4	1-5/8	3-7/8	2001404		1901404	
1-5/8	1-1/4	1-5/8	4-1/8	2001407		1901407	
1-3/4	3/4	1-5/8	3-7/8	2001484		1901484	
1-3/4	1-1/4	1-5/8	4-1/8	2001487		1901487	
1-7/8	3/4	1-5/8	3-7/8	2001564		1901564	
1-7/8	1-1/4	1-5/8	4-1/8	2001567		1901567	
2	3/4	1-5/8	3-7/8	2002004		1902004	
2	1-1/4	1-5/8	4-1/8	2002007		1902007	
2	2	4	7-3/4	2002008		-	

**HIGH SPEED STEEL
GOLD (TIN) COATED CENTER
CUTTING SINGLE END END MILLS**

SERIES 87:



MEGA
Superior Import

2 Flute

Mill Dia.	Shank Dia.	Length of Cut	Overall Length	Order No.	Price
1/8	3/8	3/8	2-5/16	0872081	
3/16	3/8	7/16	2-5/16	0872121	
1/4	3/8	1/2	2-5/16	0872161	
5/16	3/8	9/16	2-5/16	0872201	
3/8	3/8	9/16	2-5/16	0872241	
7/16	3/8	13/16	2-1/2	0872281	
1/2	3/8	13/16	2-1/2	0872321	
1/2	1/2	1	3	0872322	
9/16	1/2	1-1/8	3-1/8	0872362	
5/8	5/8	1-5/16	3-7/16	0872403	
3/4	3/4	1-5/16	3-7/16	0872484	
1	3/4	1-1/2	3-3/4	0872644	
1	1	1-5/8	4-1/8	0872646	

**HIGH SPEED STEEL
TWO FLUTE LONG FLUTE
SINGLE END END MILLS**

SERIES 96:



MEGA
Superior Import

Mill Dia.	Shank Dia.	Lgth of Cut	OAL	Order No.	Price
1/4	3/8	1	3-1/16	2050161	
5/16	3/8	1-1/4	3-5/16	2050201	
3/8	3/8	1-1/2	3-1/4	2050241	
1/2	1/2	2	4	2050322	
5/8	5/8	2	4-1/8	2050403	
3/4	3/4	2-1/4	4-1/2	2050484	
7/8	7/8	2-1/2	4-3/4	2050565	
1	1	3	5-1/2	2050646	
1-1/8	1	3	5-1/2	2050726	
1-1/4	1	3	5-1/2	2050806	
1-1/4	1-1/4	3	5-1/2	2050807	
1-3/8	1	3	5-1/2	2050886	
1-1/2	1-1/4	3	5-1/2	2050967	
1-5/8	1-1/4	3	5-1/2	2051407	
1-3/4	1-1/4	3	5-1/2	2051487	
1-7/8	1-1/4	3	5-1/2	2051567	
2	1-1/4	3	5-1/2	2052007	

**HIGH SPEED STEEL
TWO FLUTE EXTENDED
LENGTH - SINGLE END
END MILLS**

SERIES 97:



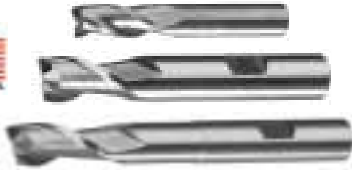
MEGA
Superior Import

Mill Dia.	Shank Dia.	Lgth of Cut	Length Below Shank	OAL	Order No.	Price
1/4	3/8	5/8	1-1/2	3-1/16	2100161	
5/16	3/8	3/4	1-3/4	3-5/16	2100201	
3/8	3/8	3/4	1-3/4	3-5/16	2100241	
1/2	1/2	1	2-1/4	4	2100322	
5/8	5/8	1-3/8	3-3/4	4-5/8	2100403	
3/4	3/4	1-5/8	3-3/8	5-3/8	2100484	
7/8	7/8	2	4	6	2100565	
1	1	2-1/2	5	7-1/4	2100646	
1-1/4	1-1/4	3	5	7-1/4	2100807	

CUTTING TOOLS - END MILLS

**HIGH SPEED STEEL AND COBALT (M42) STEEL
TWO FLUTE SINGLE END
CENTER-CUTTING END MILLS**

**Stub / Regular / Long / Extra-Long Length
SERIES 744:**



SERIES 766:



CUTTING TOOLS - END MILLS

Mill Dia.	Shank Dia.	Flute Lgth	OAL	MELIN - M42*		STAR USA - M2	
				Order No.	Price	Order No.	Price
3/32	3/8	5/16	2-1/4	910026	-	-	-
1/8	3/8	3/16	2-1/8	910030	-	-	-
1/8	3/8	3/8	2-5/16	910028	101050	-	-
1/8	3/8	1/2	2-3/8	912802	-	-	-
1/8	3/8	3/4	2-5/8	12804	-	-	-
5/32	3/8	3/16	2-1/16	10034	-	-	-
5/32	3/8	7/16	2-5/16	810032	101070	-	-
5/32	3/8	5/8	2-3/8	912806	-	-	-
5/32	3/8	3/4	2-5/8	12808	-	-	-
3/16	3/8	3/16	2-1/16	910038	-	-	-
3/16	3/8	7/16	2-5/16	10036	101090	-	-
3/16	3/8	5/8	2-1/2	912810	-	-	-
3/16	3/8	3/4	2-5/8	10474	-	-	-
3/16	3/8	1-1/4	3-1/8	912812	-	-	-
7/32	3/8	1/4	2-1/8	10042	-	-	-
7/32	3/8	1/2	2-3/8	10040	45009	-	-
7/32	3/8	7/8	2-3/4	912814	-	-	-
7/32	3/8	1-1/4	3-1/8	10476	-	-	-
7/32	3/8	1-1/2	3-3/8	12816	-	-	-
1/4	3/8	1/4	2-1/16	10046	-	-	-
1/4	3/8	1/2	2-5/16	910044	101130	-	-
1/4	3/8	7/8	2-3/4	12818	-	-	-
1/4	3/8	1-1/4	3-1/16	10478	103350	-	-
1/4	3/8	1-3/4	3-9/16	912820	-	-	-
9/32	3/8	5/16	2-1/8	10050	-	-	-
9/32	3/8	9/16	2-3/8	10048	101150	-	-
9/32	3/8	1	2-3/4	12822	-	-	-
9/32	3/8	1-3/8	3-1/8	10480	-	-	-
9/32	3/8	1-3/4	3-5/8	12824	-	-	-
5/16	3/8	5/16	2-1/16	910054	-	-	-
5/16	3/8	9/16	2-5/16	910052	101170	-	-
5/16	3/8	1	2-3/4	12826	-	-	-
5/16	3/8	1-3/8	3-1/8	10482	103370	-	-
5/16	3/8	2	3-3/4	912828	-	-	-
11/32	3/8	3/8	2-3/16	910058	-	-	-
11/32	3/8	3/4	2-1/2	9010056	-	-	-
11/32	3/8	1	2-3/4	912830	-	-	-
11/32	3/8	1-1/2	3-1/4	10484	-	-	-
11/32	3/8	2	3-3/4	12832	-	-	-
3/8	3/8	3/8	2-1/8	10062	-	-	-
3/8	3/8	9/16	2-5/16	910060	101210	-	-
3/8	3/8	1	2-3/4	10486	-	-	-
3/8	3/8	1-1/2	3-1/4	10488	103390	-	-
3/8	3/8	2-1/2	4-1/4	10490	-	-	-
13/32	3/8	13/16	2-1/2	10064	9101230	-	-
7/16	3/8	7/16	2-1/8	12794	-	-	-
7/16	3/8	13/16	2-1/2	10066	101270	-	-
7/16	1/2	13/16	2-13/16	10070	-	-	-
7/16	3/8	1-1/4	3-1/4	12834	-	-	-
7/16	1/2	1-3/4	3-3/4	10492	-	-	-
7/16	3/8	2-3/4	4-3/4	12836	-	-	-
15/32	1/2	1	3	10072	101320	-	-
1/2	3/8	1/2	2-3/16	12796	-	-	-
1/2	3/8	13/16	2-1/2	10068	-	-	-
1/2	1/2	1	3	0910074	101360	-	-
1/2	1/2	1-1/2	3-1/2	10494	-	-	-
1/2	1/2	2	4	10496	103470	-	-

Mill Dia.	Shank Dia.	Flute Lgth	OAL	MELIN - M42*		STAR USA - M2	
				Order No.	Price	Order No.	Price
1/2	1/2	3	5	10498	-	-	-
17/32	1/2	1-1/8	3-1/8	910076	-	101380	-
9/16	1/2	1-1/8	3-1/8	10078	-	101400	-
19/32	1/2	1-1/8	3-1/8	10080	-	101430	-
5/8	1/2	5/8	2-3/4	12798	-	-	-
5/8	1/2	1-1/8	3-1/8	10082	-	101460	-
5/8	5/8	1-5/16	3-7/16	10108	-	101470	-
5/8	5/8	2	4-1/8	10500	-	103540	-
5/8	5/8	2-1/2	4-5/8	10502	-	-	-
5/8	5/8	4	6-1/8	12838	-	-	-
21/32	1/2	1-5/16	3-5/16	10084	-	101480	-
11/16	1/2	1-5/16	3-5/16	10086	-	101500	-
11/16	5/8	1-5/16	3-7/16	10110	-	101510	-
23/32	1/2	1-5/16	3-5/16	10088	-	101530	-
3/4	3/4	3/4	3	912800	-	-	-
3/4	1/2	1-5/16	3-5/16	10090	-	101540	-
3/4	5/8	1-5/16	3-7/16	910112	-	101550	-
3/4	3/4	1-5/16	3-9/16	910122	-	101560	-
3/4	3/4	2-1/4	4-1/2	10504	-	103620	-
3/4	3/4	3	5-1/4	10506	-	-	-
3/4	3/4	4	6-1/4	12840	-	-	-
25/32	1/2	1-1/2	3-1/2	10092	-	101570	-
13/16	1/2	1-1/2	3-1/2	910094	-	-	-
13/16	5/8	1-1/2	3-5/8	910114	-	101610	-
13/16	3/4	1-1/2	3-3/4	910124	-	101620	-
27/32	1/2	1-1/2	3-1/2	10096	-	101630	-
7/8	1/2	1-1/2	3-1/2	910098	-	101660	-
7/8	5/8	1-1/2	3-5/8	9910116	-	101670	-
7/8	3/4	1-1/2	3-3/4	910126	-	101680	-
7/8	7/8	1-1/2	3-3/4	910152	-	101690	-
7/8	7/8	2-1/2	4-3/4	10508	-	103760	-
7/8	7/8	3-1/2	5-3/4	10510	-	-	-
29/32	1/2	1-1/2	3-1/2	910100	-	101700	-
15/16	1/2	1-1/2	3-1/2	910102	-	-	-
15/16	5/8	1-1/2	3-5/8	910118	-	-	-
15/16	3/4	1-1/2	3-3/4	910128	-	-	-
15/16	7/8	1-1/2	3-3/4	910154	-	101770	-
31/32	1/2	1-1/2	3-1/2	910104	-	101780	-
1	1/2	1-1/2	3-1/2	910106	-	101820	-
1	5/8	1-1/2	3-5/8	910120	-	101830	-
1	3/4	1-1/2	3-3/4	910130	-	101840	-
1	7/8	1-1/2	3-3/4	910156	-	101850	-
1	1	1-5/8	4-1/8	910162	-	101860	-
1	1	3	5-1/2	10512	-	9103930	-
1	1	4	6-1/2	10514	-	-	-
1-1/16	3/4	1-1/2	3-3/4	910132	-	101870	-
1-1/16	1	1-5/8	4-1/8	10164	-	-	-
1-1/8	3/4	1-5/8	3-7/8	910134	-	101900	-
1-1/8	7/8	1-5/8	3-7/8	910158	-	101910	-
1-1/8	1	1-5/8	4-1/8	910166	-	101920	-
1-1/8	1	3	5-1/2	910516	-	103960	-
1-3/16	3/4	1-5/8	3-7/8	910136	-	101930	-
1-3/16	1	1-5/8	4-1/8	10168	-	-	-
1-1/4	3/4	1-5/8	3-7/8	910138	-	101960	-
1-1/4	7/8	1-5/8	3-7/8	910160	-	-	-
1-1/4	1	1-5/8	4-1/8	10170	-	101980	-
1-1/4	1-1/4	1-5/8	4-1/8	10180	-	101990	-
1-1/4	1	3	5-1/2	910518	-	-	-
1-1/4	1-1/4	3	5-1/2	910522	-	47582	-
1-1/4	1-1/4	4	6-1/2	10524	-	47570	-
1-5/16	1	1-5/8	4-1/8	910172	-	-	-
1-3/8	3/4	1-5/8	3-7/8	910140	-	102040	-
1-3/8	1	1-5/8	4-1/8	10174	-	102060	-

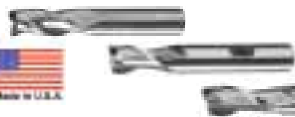
(Continued)

*M42 through 1-1/4" Mill Diameters.
Larger diameters made of M7 steel except where marked with an *.

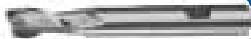
**HIGH SPEED STEEL AND COBALT (M42) STEEL
TWO FLUTE SINGLE END
CENTER-CUTTING END MILLS**

Stub / Regular / Long / Extra-Long Length (Continued)

SERIES 744:



SERIES 766:



Mill Dia.	Shank Dia.	Flute Lgth	OAL	MELIN - M42*		STAR USA - M2	
				Order No.	Price	Order No.	Price
1-3/8	1	1-5/8	4-1/8	915028*		202060	
1-3/8	1	3	5-1/2	910520		104030	
1-7/16	1	1-5/8	4-1/8	910176		-	
1-1/2	3/4	1-5/8	3-7/8	10142		9102120	
1-1/2	1	1-5/8	4-1/8	10178		102140	
1-1/2	1-1/4	1-5/8	4-1/8	9910184		102150	
1-1/2	3/4	1-5/8	3-7/8	15278*		-	
1-1/2	1-1/4	1-5/8	4-1/8	910792*		-	
1-1/2	1-1/4	3	5-1/2	910526		-	
1-1/2	1-1/4	4	6-1/2	10528		-	
1-9/16	1-1/4	1-5/8	4-1/8	10186		-	
1-5/8	3/4	1-5/8	3-7/8	910144		-	
1-5/8	1-1/4	1-5/8	4-1/8	10188		102250	
1-3/4	3/4	1-5/8	3-7/8	910146		102320	
1-3/4	1-1/4	1-5/8	4-1/8	10190		102350	
1-3/4	1-1/4	1-5/8	4-1/8	910794*		-	
1-3/4	1-1/4	3	5-1/2	10532		104100	
1-7/8	3/4	1-5/8	3-7/8	9910148		-	
1-7/8	1-1/4	1-5/8	4-1/8	10192		102450	
1-7/8	1-1/4	3	5-1/2	910536		104120	
2	3/4	1-5/8	3-7/8	910150		102520	
2	1-1/4	1-5/8	4-1/8	10194		102550	
2	3/4	1-5/8	3-7/8	15286*		-	
2	1-1/4	1-5/8	4-1/8	910796*		-	
2	1-1/4	3	5-1/2	910538		104140	
2-1/8	1-1/4	1-5/8	4-1/8	10198		-	
2-1/4	1-1/4	1-5/8	4-1/8	10200		-	
2-1/4	1-1/4	3	5-1/2	910542		-	
2-1/2	1-1/4	1-5/8	4-1/8	10202		-	
2-1/2	1-1/4	3	5-1/2	910544		-	

*M42 through 1-1/4" Mill Diameters.

Larger diameters made of M7 steel except where marked with an *.

**HIGH SPEED STEEL AND COBALT (M42) STEEL
THREE FLUTE SINGLE END CENTER-
CUTTING END MILLS**

Regular / Medium / Long Length

SERIES 752:



SERIES 753:



Mill Dia.	Shank Dia.	Flute Lgth	OAL	MELIN - M42*		STAR USA - M2	
				Order No.	Price	Order No.	Price
3/32	3/8	5/16	2-1/4	12022		-	
1/8	3/8	3/8	2-5/16	12024		115620	
5/32	3/8	7/16	2-5/16	12026		-	
3/16	3/8	1/2	2-3/8	12028		115640	
3/16	3/8	3/4	2-5/8	912266		-	
7/32	3/8	1/2	2-3/8	12030		-	
7/32	3/8	1-1/4	3-1/8	9912268		-	
1/4	3/8	5/8	2-7/16	12032		115660	
1/4	3/8	1-1/4	3-1/16	9912270		116630	
9/32	3/8	11/16	2-1/2	12034		-	
9/32	3/8	1-3/8	3-1/8	12272		-	
5/16	3/8	3/4	2-1/2	12036		115680	
5/16	3/8	1-3/8	3-1/8	12274		116640	
11/32	3/8	3/4	2-1/2	12038		-	
11/32	3/8	1-1/2	3-1/4	12276		-	
3/8	3/8	3/4	2-1/2	12040		115700	
3/8	3/8	1-1/2	3-1/4	12278		9116650	
13/32	3/8	1	2-11/16	12042		-	
7/16	3/8	1	2-11/16	12044		115720	
7/16	1/2	1-3/4	3-3/4	12280		-	
15/32	1/2	1-1/4	3-1/4	12048		-	
1/2	3/8	1	2-11/16	12046		115740	
1/2	1/2	1-1/4	3-1/4	12050		115750	
1/2	1/2	2	4	12282		116690	
17/32	1/2	1-3/8	3-3/8	12052		-	
9/16	1/2	1-3/8	3-3/8	12054		115770	
19/32	1/2	1-3/8	3-3/8	12056		-	
5/8	1/2	1-3/8	3-3/8	12058		115810	
5/8	5/8	1-5/8	3-3/4	12084		115820	
5/8	5/8	2-1/2	4-5/8	12284		116730	
21/32	1/2	1-5/8	3-5/8	12060		-	
11/16	1/2	1-5/8	3-5/8	12062		115850	
23/32	1/2	1-5/8	3-5/8	12064		-	
3/4	1/2	1-5/8	3-5/8	12066		-	
3/4	5/8	1-5/8	3-3/4	12086		115900	
3/4	3/4	1-5/8	3-7/8	12096		115910	
3/4	3/4	3	5-1/4	12286		116760	
25/32	1/2	1-5/8	3-5/8	12068		-	
13/16	1/2	1-5/8	3-5/8	12070		-	
13/16	5/8	1-7/8	4	12088		-	
13/16	3/4	1-7/8	4-1/8	12098		-	
27/32	1/2	1-5/8	3-5/8	12072		-	
7/8	1/2	1-5/8	3-5/8	12074		-	
7/8	5/8	1-7/8	4	12090		-	
7/8	3/4	1-7/8	4-1/8	12100		116030	
7/8	7/8	1-7/8	4-1/8	12116		-	
7/8	7/8	3-1/2	5-3/4	12290		-	
15/16	1/2	1-7/8	3-7/8	12078		-	
15/16	5/8	1-7/8	4	12092		-	
1	1/2	1-7/8	3-7/8	12082		-	
1	5/8	1-7/8	4	12094		-	
1	3/4	1-7/8	4-1/8	12104		116190	
1	1	2	4-1/2	12122		116210	
1	1	3	5-1/2	12292		-	
1	1	4	6-1/2	12294		116860	
1-1/16	3/4	2	4-1/4	12106		-	

(Continued)

**HIGH SPEED STEEL AND COBALT (M42) STEEL
TWO FLUTE SINGLE END LONG REACH
CENTER-CUTTING END MILLS**

SERIES 746:



SERIES 736:



Mill Dia.	Shank Dia.	Flute Lgth	OAL	MELIN - M42		STAR USA - M2	
				Order No.	Price	Order No.	Price
1/8	3/8	3/8	2-3/8	10734		103010	
3/16	3/8	1/2	2-11/16	910736		103020	
1/4	3/8	5/8	3-1/16	910738		103030	
5/16	3/8	3/4	3-5/16	910740		103040	
3/8	3/8	3/4	3-5/16	910742		103050	
1/2	1/2	1	4	910744		103070	
5/8	5/8	1-3/8	4-5/8	910746		103090	
3/4	3/4	1-5/8	5-3/8	910748		103100	
1	1	2-1/2	7-1/4	910752		103130	

THREE FLUTE SINGLE END CENTER-CUTTING END MILLS (Continued)

SERIES 752:



Mill Dia.	Shank Dia.	Flute Lgth	OAL	MELIN - M42*	
				Order No.	Price
1-1/16	1	2	4-1/2	12124	
1-1/8	3/4	2	4-1/4	12108	
1-1/8	7/8	2	4-1/4	12120	
1-1/8	1	2	4-1/2	12126	
1-3/16	3/4	2	4-1/4	12110	
1-3/16	1	2	4-1/2	12128	
1-1/4	3/4	2	4-1/4	12112	
1-1/4	1	2	4-1/2	12130	
1-1/4	1-1/4	2	4-1/2	12140	
1-1/4	1-1/4	4	6-1/2	12296	
1-5/16	1	2	4-1/2	9912132*	
1-3/8	1	2	4-1/2	12134*	
1-1/2	3/4	2	4-1/4	12114*	
1-1/2	1	2	4-1/2	9912138*	
1-1/2	1-1/4	2	4-1/2	12144*	
1-3/4	1-1/4	2	4-1/2	9912146*	
2	1-1/4	2	4-1/2	12150*	

*M42 through 1-1/4" Mill Diameter. Larger diameters made of M7 steel except where marked with an *.

COBALT (M42) STEEL

THREE FLUTE SINGLE END CENTER-CUTTING EXTENDED LENGTH END MILLS



SERIES 768:



Mill Dia.	Shank Dia.	Flute Lgth	OAL	Order No.	Price
1/8	3/8	3/8	2-9/16	12362	
3/16	3/8	1/2	2-7/8	12366	
1/4	3/8	5/8	3-1/16	12370	
5/16	3/8	3/4	3-5/16	12372	
3/8	3/8	3/4	3-5/16	12374	
1/2	1/2	1	4-1/16	12378	

HIGH SPEED STEEL

GOLD (TIN) COATED CENTER-CUTTING SINGLE END END MILLS



SERIES 87:



4 Flute

Mill Dia.	Shank Dia.	Length of Cut	Overall Length	Order No.	Price
1/8	3/8	3/8	2-5/16	0874081	
3/16	3/8	1/2	2-3/8	0874121	
1/4	3/8	5/8	2-7/16	0874161	
5/16	3/8	3/4	2-1/2	0874201	
3/8	3/8	3/4	2-1/2	0874241	
7/16	3/8	1	2-11/16	0874281	
1/2	3/8	1	2-11/16	0874321	
1/2	1/2	1-1/4	3-1/4	0874322	
9/16	1/2	1-3/8	3-3/8	0874362	
5/8	5/8	1-5/8	3-3/4	0874403	
3/4	3/4	1-5/8	3-3/4	0874484	
1	3/4	1-7/8	4-1/8	0874644	
1	1	2	4-1/2	0874646	

HIGH SPEED STEEL

MULTIPLE FLUTE SINGLE END NON CENTER-CUTTING END MILLS



SERIES 98:



Mill Dia.	Shank Dia.	Length of Cut	Overall Length	No. of Flutes	Order Number	Price
1/8	3/8	3/8	2-5/16	4	2150081	
5/32	3/8	3/8	2-5/16	4	2150101	
3/16	3/8	1/2	2-3/8	4	2150121	
7/32	3/8	5/8	2-7/16	4	2150141	
1/4	3/8	5/8	2-7/16	4	2150161	
9/32	3/8	3/4	2-1/2	4	2150181	
5/16	3/8	3/4	2-1/2	4	2150201	
11/32	3/8	3/4	2-1/2	4	2150221	
3/8	3/8	3/4	2-1/2	4	2150241	
13/32	3/8	1	2-11/16	4	2150261	
7/16	3/8	1	2-11/16	4	2150281	
15/32	3/8	1	2-11/16	4	2150301	
1/2	3/8	1	2-11/16	4	2150321	
1/2	1/2	1-1/4	3-1/4	4	2150322	
9/16	1/2	1-3/8	3-3/8	4	2150362	
5/8	1/2	1-3/8	3-3/8	4	2150402	
5/8	5/8	1-5/8	3-3/4	4	2150403	
11/16	1/2	1-5/8	3-5/8	4	2150442	
11/16	5/8	1-5/8	3-3/4	4	2150443	
3/4	1/2	1-5/8	3-5/8	4	2150482	
3/4	5/8	1-5/8	3-3/4	4	2150483	
3/4	3/4	1-5/8	3-3/4	4	2150484	
3/4	3/4	1-5/8	3 3/4	6	2150494	
13/16	1/2	1-7/8	4	4	2150522	
13/16	5/8	1-7/8	4	6	2150523	
13/16	3/4	1-7/8	4-1/8	4	2150524	
7/8	1/2	1-7/8	3-5/8	4	2150562	
7/8	1/2	1-7/8	4	6	2150572	
7/8	5/8	1-7/8	4	6	2150563	
7/8	3/4	1-7/8	4-1/8	4	2150564	
7/8	3/4	1-7/8	4-1/8	6	2150574	
7/8	7/8	1-7/8	4-1/8	4	2150565	
15/16	1/2	1-7/8	4	4	2150602	
15/16	5/8	1-7/8	4	6	2150603	
15/16	3/4	1-7/8	4-1/8	4	2150604	
15/16	7/8	1-7/8	4-1/8	4	2150605	
1	1/2	1-7/8	4	4	2150642	
1	1/2	1-7/8	4	6	2150652	
1	5/8	1-7/8	4	4	2150643	
1	5/8	1-7/8	4	6	2150653	
1	3/4	1-7/8	4-1/8	4	2150644	
1	3/4	1-7/8	4-1/8	6	2150654	
1	7/8	1-7/8	4-1/8	4	2150645	
1	1	2	4-1/2	4	2150646	
1-1/16	3/4	2	4-1/4	6	2150684	
1-1/8	3/4	2	4-1/4	6	2150724	
1-1/8	7/8	2	4-1/4	6	2150725	
1-1/8	1	2	4-1/2	6	2150726	
1-3/16	3/4	2	4-1/2	6	2150764	
1-1/4	3/4	2	4-1/4	6	2150804	
1-1/4	7/8	2	4-1/4	4	2150805	
1-1/4	7/8	2	4-1/4	6	2150815	
1-1/4	1	2	4-1/2	6	2150806	
1-1/4	1-1/4	2	4-1/2	4	2150807	
1-1/4	1-1/4	2	4-1/2	6	2150817	
1-5/16	3/4	2	4-1/2	6	2150844	
1-3/8	3/4	2	4-1/4	6	2150884	
1-3/8	1	2	4-1/2	6	2150886	
1-3/8	1-1/4	2	4-1/2	6	2150887	
1-7/16	3/4	2	4-1/2	6	2150924	
1-1/2	3/4	2	4-1/4	6	2150964	

HIGH SPEED STEEL

**MULTIPLE FLUTE SINGLE - END
NON CENTER-CUTTING END MILLS
SERIES 98: (Continued)**



Mill Dia.	Shank Dia.	Length of Cut	Overall Length	No. Flutes	Order Number	Price
1-1/2	1	2	4-1/2	4	2150966	
1-1/2	1	2	4-1/2	6	2150976	
1-1/2	1-1/4	2	4-1/2	4	2150967	
1-1/2	1-1/4	2	4-1/2	6	2150977	
1-5/8	3/4	2	4-1/2	6	2151404	
1-5/8	1-1/4	2	4-1/2	4	2151407	
1-5/8	1-1/4	2	4-1/2	6	2151417	
1-3/4	3/4	2	4-1/2	6	2151484	
1-3/4	1-1/4	2	4-1/2	4	2151487	
1-3/4	1-1/4	2	4-1/2	6	2151497	
1-7/8	3/4	2	4-1/2	6	2151564	
1-7/8	1-1/4	2	4-1/2	6	2151567	
1-7/8	1-1/4	2	4-1/2	8	2151577	
2	3/4	2	4-1/2	8	2152004	
2	1-1/4	2	4-1/2	4	2152007	
2	1-1/4	2	4-1/2	6	2152017	
2	1-1/4	2	4-1/2	8	2152027	

HIGH SPEED STEEL

**EXTRA LONG MULTIPLE FLUTE
SINGLE END NON CENTER-
CUTTING END MILLS
SERIES 100:**



Mill Dia.	Shank Dia.	Length of Cut	Overall Length	No. of Flutes	Order Number	Price
1/4	3/8	1-3/4	3-9/16	4	2250161	
5/16	3/8	2	3-3/4	4	2250201	
3/8	3/8	2-1/2	4-1/4	4	2250241	
1/2	1/2	3	5	4	2250322	
5/8	1/2	4	6-1/8	4	2250402	
5/8	5/8	4	6-1/8	4	2250403	
3/4	1/2	4	6-1/4	4	2250482	
3/4	3/4	4	6-1/4	4	2250484	
7/8	7/8	5	7-1/4	4	2250565	
1	1	6	8-1/2	4	2250646	
1-1/4	1-1/4	6	8-1/2	4	2250807	
1-1/4	1-1/4	6	8-1/2	6	2250817	
1-1/2	1-1/4	8	10-1/2	6	2250967	
2	2	8	11-3/4	6	2252008	

**MULTIPLE FLUTE SINGLE-END
CENTER-CUTTING END MILLS**



**SERIES 514: HIGH SPEED STEEL
SERIES 83: COBALT (M42) STEEL**



HIGH SPEED STEEL

**LONG MULTIPLE FLUTE SINGLE END
NON CENTER-CUTTING END MILLS
SERIES 99:**



Mill Dia.	Shank Dia.	Length of Cut	Overall Length	No. of Flutes	Order No.	Price
1/4	3/8	1-1/4	3-1/8	4	2200161	
5/16	3/8	1-3/8	3-1/8	4	2200201	
3/8	3/8	1 1/2	3-1/4	4	2200241	
7/16	1/2	1-3/4	3-3/4	4	2200282	
1/2	1/2	2	4	4	2200322	
5/8	1/2	2-1/2	4-5/8	4	2200402	
5/8	5/8	2-1/2	4-5/8	4	2200403	
3/4	1/2	3	5-1/4	4	2200482	
3/4	3/4	3	5-1/4	4	2200484	
7/8	7/8	3-1/2	5-3/4	4	2200565	
1	3/4	4	6-1/2	4	2200644	
1	1	4	6-1/2	4	2200646	
1-1/8	3/4	4	6-1/2	6	2200724	
1-1/8	1	4	6-1/2	6	2200726	
1-1/4	3/4	4	6-1/2	6	2200804	
1-1/4	1	4	6-1/2	6	2200806	
1-1/4	1-1/4	4	6-1/2	4	2200807	
1-1/4	1-1/4	4	6-1/2	6	2200817	
1-3/8	1	4	6-1/2	6	2200886	
1-1/2	1	4	6-1/2	6	2200966	
1-1/2	1-1/4	4	6-1/2	6	2200967	
1-3/4	1-1/4	4	6-1/2	6	2201487	
2	1-1/4	4	6-1/2	4	2202007	
2	1-1/4	4	6-1/2	6	2202017	
2	1-1/4	4	6-1/2	8	2202027	

Mill Dia.	Shank Dia.	Lgth. Cut	Overall Length	No. Fl.	HSS		COBALT (M42)	
					Order No.	Price	Order No.	Price
1/8	3/8	3/8	2-5/16	4	2151081		1950081	
5/32	3/8	3/8	2-5/16	4	2151101		1950101	
3/16	3/8	1/2	2-3/8	4	2151121		1950121	
7/32	3/8	5/8	2-7/16	4	2151141		1950141	
1/4	3/8	5/8	2-7/16	4	2151161		1950161	
9/32	3/8	3/4	2-1/2	4	2151181		1950181	
5/16	3/8	3/4	2-1/2	4	2151201		1950201	
11/32	3/8	3/4	2-1/2	4	2151221		1950221	
3/8	3/8	3/4	2-1/2	4	2151241		1950241	
13/32	3/8	1	2-11/16	4	2151261		1950261	
7/16	3/8	1	2-11/16	4	2151281		1950281	
15/32	3/8	1	2-11/16	4	2151301		1950301	
1/2	3/8	1	2-11/16	4	2151321		1950321	
1/2	1/2	1-1/4	3-1/4	4	2151322		1950322	
9/16	1/2	1-3/8	3-3/8	4	2151362		1950362	
5/8	1/2	1-3/8	3-3/8	4	2151402		1950402	
5/8	5/8	1-5/8	3-3/4	4	2151403		1950403	
11/16	1/2	1-5/8	3-5/8	4	2151442		1950442	
11/16	5/8	1-5/8	3-3/4	4	2151443		1950443	
3/4	1/2	1-5/8	3-5/8	4	2151482		1950482	
3/4	5/8	1-5/8	3-3/4	4	2151483		1950483	
3/4	3/4	1-5/8	3-3/4	4	2151494		1950484	
3/4	3/4	1-5/8	3 3/4	6	2151474		1950494	
13/16	1/2	1-7/8	4	4	2151522		1950522	
13/16	5/8	1-7/8	4	4	2151523		1950523	
13/16	5/8	1-7/8	4	6	2151533		1950533	
13/16	3/4	1-7/8	4-1/8	4	2151524		1950524	
7/8	1/2	1-7/8	4	4	2151562		1950562	
7/8	1/2	1-7/8	4	6	2151572		1950572	
7/8	5/8	1-7/8	4	6	2151563		1950563	
7/8	3/4	1-7/8	4-1/8	4	2151574		1950564	
7/8	3/4	1-7/8	4-1/8	6	-		1950574	

(Continued)

MULTIPLE FLUTE SINGLE END CENTER-CUTTING END MILLS (Continued)

SERIES 514: HIGH SPEED STEEL
SERIES 83: COBALT (M42) STEEL



Mill Dia.	Shank Dia.	Lgth. Cut	Overall Length	No. Fl.	HSS		COBALT (M42)	
					Order No.	Price	Order No.	Price
7/8	7/8	1-7/8	4-1/8	4	2151565		1950565	
15/16	1/2	1-7/8	4	6	2151602		1950602	
15/16	5/8	1-7/8	4	6	2151603		1950603	
15/16	3/4	1-7/8	4-1/8	4	2151604		1950604	
15/16	7/8	1-7/8	4-1/8	4	-		1950605	
1	1/2	1-7/8	4	4	2151642		1950642	
1	1/2	1-7/8	4	6	2151652		1950652	
1	5/8	1-7/8	4	4	2151643		1950643	
1	5/8	1-7/8	4	6	2151653		1950653	
1	3/4	1-7/8	4-1/8	4	2151644		1950644	
1	3/4	1-7/8	4-1/8	6	2151654		1950654	
1	7/8	1-7/8	4-1/8	4	2151645		1950645	
1	1	2	4-1/2	4	2151646		1950646	
1	1	2	4-1/2	6	2151656		1950657	
1-1/16	3/4	2	4-1/4	6	2151684		1950684	
1-1/8	3/4	2	4-1/4	6	2151724		1950724	
1-1/8	7/8	2	4-1/4	6	-		1950725	
1-1/8	1	2	4-1/2	6	2151726		1950726	
1-3/16	3/4	2	4-1/4	6	2151764		1950764	
1-1/4	3/4	2	4-1/4	6	2151804		1950804	
1-1/4	7/8	2	4-1/4	4	-		1950805	
1-1/4	7/8	2	4-1/4	6	-		1950815	
1-1/4	1	2	4-1/2	6	2151806		1950806	
1-1/4	1-1/4	2	4-1/2	4	-		1950807	
1-1/4	1-1/4	2	4-1/2	6	-		1950817	
1-5/16	3/4	2	4-1/2	6	2151844		1950844	
1-3/8	3/4	2	4-1/2	6	2151884		1950884	
1-3/8	1	2	4-1/2	6	2151886		1950886	
1-3/8	1-1/4	2	4-1/2	6	-		1950887	
1-7/16	3/4	2	4-1/2	6	2151924		1950924	
1-1/2	3/4	2	4-1/2	6	2151964		1950964	
1-1/2	1	2	4-1/2	4	-		1950976	
1-1/2	1	2	4-1/2	6	2151966		1950966	
1-1/2	1-1/4	2	4-1/2	4	-		1950977	
1-1/2	1-1/4	2	4-1/2	6	-		1950967	
1-5/8	3/4	2	4-1/2	6	2151414		1951404	
1-5/8	1-1/4	2	4-1/2	4	-		1951406	
1-5/8	1-1/4	2	4-1/2	6	-		1951407	
1-3/4	3/4	2	4-1/2	6	2151504		1951484	
1-3/4	1-1/4	2	4-1/2	4	-		1951497	
1-3/4	1-1/4	2	4-1/2	6	-		1951487	
1-7/8	3/4	2	4-1/2	6	2151584		1951564	
1-7/8	1-1/4	2	4-1/2	6	-		1951567	
1-7/8	1-1/4	2	4-1/2	8	-		1951577	
2	3/4	2	4-1/2	8	2152014		1952004	
2	1-1/4	2	4-1/2	4	-		1952017	
2	1-1/4	2	4-1/2	6	-		1952007	
2	1-1/4	2	4-1/2	8	-		1952027	

LONG MULTIPLE FLUTE SINGLE END CENTER-CUTTING END MILLS

SERIES 515: HIGH SPEED STEEL
SERIES 84: COBALT (M42) STEEL



Mill Dia.	Shank Dia.	Lgth. Cut	Overall Length	No. Fl.	HSS		COBALT (M42)	
					Order No.	Price	Order No.	Price
1/4	3/8	1-1/4	3-1/16	4	2201161		1255161	
5/16	3/8	1-3/8	3-1/8	4	2201201		1255201	
3/8	3/8	1 1/2	3-1/4	4	2201241		1255241	
7/16	1/2	1-3/4	3-3/4	4	2201282		1255282	
1/2	1/2	2	4	4	2201322		1255322	
5/8	5/8	2-1/2	4-5/8	4	2201403		1255403	
3/4	1/2	3	5-1/4	4	2201482		-	
3/4	3/4	3	5-1/4	4	2201484		1255484	
7/8	7/8	3-1/2	5-3/4	4	2201565		1255565	
1	3/4	4	6-1/2	4	2201644		-	
1	1	4	6-1/2	4	2201646		1255646	
1-1/4	1	4	6-1/2	6	2201806		-	
1-1/4	1-1/4	4	6-1/2	4	2201807		-	
1-1/4	1-1/4	4	6-1/2	6	2201827		1255807	
1-1/2	1	4	6-1/2	6	2201966		-	
1-1/2	1-1/4	4	6-1/2	6	2201967		1255967	

EXTRA LONG MULTIPLE FLUTE SINGLE END CENTER-CUTTING ENDMILLS

SERIES 516: HIGH SPEED STEEL
SERIES 85: COBALT (M42) STEEL



Mill Dia.	Shank Dia.	Lgth. Cut	Overall Length	No. Fl.	HSS		COBALT (M42)	
					Order No.	Price	Order No.	Price
1/4	3/8	1-3/4	3-9/16	4	2251161		1260161	
5/16	3/8	2	3-3/4	4	2251201		1260201	
3/8	3/8	2-1/2	4-1/4	4	2251241		1260241	
1/2	1/2	3	5	4	2251322		1260322	
5/8	1/2	4	6-1/8	4	2251402		-	
5/8	5/8	4	6-1/8	6	2251403		1260403	
3/4	1/2	4	6-1/4	4	2251482		-	
3/4	3/4	4	6-1/4	4	2251484		1260484	
7/8	7/8	5	7-1/4	4	2251565		1260565	
1	1	6	8-1/2	4	2251646		1260646	
1-1/4	1-1/4	6	8-1/2	4	2251807		-	
1-1/4	1-1/4	6	8-1/2	6	-		1260807	
1-1/2	1-1/4	8	10-1/2	6	2251967		1260967	

HIGH SPEED STEEL
MULTIPLE FLUTE HEAVY DUTY SINGLE END END MILLS

SERIES 101:
Combination Shank



Mill Dia.	Shank Dia.	Length of Cut	Overall Length	No. of Flutes	Order No.	Price
2	2	4	7-3/4	3	2302230	
2	2	6	9-3/4	3	2302231	
2	2	8	11-3/4	3	2302232	
2	2	4	7-3/4	4	2302241	
2	2	6	9-3/4	4	2302242	
2	2	8	11-3/4	4	2302243	
2	2	4	7-3/4	6	2302260	
2	2	6	9-3/4	6	2302261	
2	2	8	11-3/4	6	2302262	
2	2	10	13-3/4	6	2302263	
2	2	12	15-3/4	6	2302264	

**HIGH SPEED STEEL AND COBALT (M42) STEEL
MULTIPLE FLUTE SINGLE END
NON CENTER-CUTTING END MILLS**
Regular / Medium / Long / Extra-Long Length

SERIES 747:



SERIES 748:



Mill Dia.	Shank Dia.	Flute Lgth	OAL	No. Fl.	MELIN - M42*		STAR USA - M2	
					Order No.	Price	Order No.	Price
1/8	3/8	3/8	2-5/16	4	-	-	125350	-
5/32	3/8	7/16	2-5/16	4	-	-	125370	-
3/16	3/8	1/2	2-3/8	4	-	-	125390	-
7/32	3/8	9/16	2-7/16	4	-	-	125410	-
1/4	3/8	5/8	2-7/16	4	-	-	125430	-
9/32	3/8	11/16	2-1/2	4	-	-	125450	-
5/16	3/8	3/4	2-1/2	4	-	-	125470	-
11/32	3/8	3/4	2-1/2	4	-	-	125490	-
3/8	3/8	3/4	2-1/2	4	-	-	125510	-
13/32	3/8	1	2-11/16	4	-	-	125530	-
7/16	3/8	1	2-11/16	4	-	-	125570	-
7/16	1/2	1-1/4	3-1/4	4	-	-	-	-
15/32	1/2	1-1/4	3-1/4	4	-	-	125610	-
1/2	3/8	1	2-11/16	4	-	-	125650	-
1/2	1/2	1-1/4	3-1/4	4	-	-	125660	-
17/32	1/2	1-3/8	3-3/8	4	-	-	125680	-
9/16	1/2	1-3/8	3-3/8	4	-	-	125700	-
19/32	1/2	1-3/8	3-3/8	4	-	-	125730	-
5/8	1/2	1-3/8	3-3/8	4	-	-	125760	-
5/8	5/8	1-5/8	3-3/4	4	-	-	125770	-
21/32	1/2 (5/8)	1-5/8	3-5/8	4	11192	-	125780	-
11/16	1/2	1-5/8	3-5/8	4	11194	-	125800	-
11/16	5/8	1-5/8	3-3/4	4	911218	-	125810	-
23/32	1/2 (3/4)	1-5/8	3-5/8	4	11196	-	125820	-
3/4	1/2	1-5/8	3-5/8	4	11198	-	125850	-
3/4	5/8	1-5/8	3-3/4	4	11220	-	125860	-
3/4	3/4	1-5/8	3-7/8	4	11238	-	125870	-
3/4	3/4	3	5-1/4	4	11396	-	127290	-
3/4	3/4	4	6-1/4	4	11352	-	127990	-
3/4	3/4	6	8-1/4	4	11354	-	-	-
25/32	1/2 (3/4)	1-5/8	3-5/8	4	911200	-	125880	-
13/16	1/2	1-5/8	3-5/8	4	11202	-	125910	-
13/16	5/8	1-7/8	4	4	11222	-	-	-
13/16	5/8	1-7/8	4	6	11224	-	133590	-
13/16	3/4	1-7/8	4-1/8	4	11240	-	125930	-
27/32	1/2 (7/8)	1-5/8	3-5/8	4	911204	-	125940	-
7/8	1/2	1-5/8	3-5/8	4	911206	-	125980	-
7/8	5/8	1-7/8	4	4	11226	-	-	-
7/8	5/8	1-7/8	4	6	11228	-	133610	-
7/8	3/4	1-7/8	4-1/8	4	911242	-	126000	-
7/8	7/8	1-7/8	4-1/8	4	11268	-	126010	-
7/8	7/8	3-1/2	5-3/4	4	11398	-	127350	-
7/8	7/8	5	7-1/4	4	11356	-	128050	-
29/32	1/2 (7/8)	1-7/8	3-7/8	4	911208	-	126020	-
15/16	1/2	1-7/8	3-7/8	4	911210	-	-	-
15/16	5/8	1-7/8	4	6	11232	-	133640	-
15/16	3/4	1-7/8	4-1/8	4	11244	-	126080	-
15/16	7/8	1-7/8	4-1/8	4	911270	-	126090	-
31/32	1/2 (7/8)	1-7/8	3-7/8	4	911212	-	126100	-
1	1/2	1-7/8	3-7/8	4	911214	-	-	-
1	5/8	1-7/8	4	4	11234	-	-	-
1	5/8	1-7/8	4	6	11236	-	133670	-
1	3/4	1-7/8	4-1/8	4	11246	-	126170	-

Mill Dia.	Shank Dia.	Flute Lgth	OAL	Fl.	MELIN -M42*		STAR USA - M2	
					Order No.	Price	Order No.	Price
1	7/8	1-7/8	4-1/8	4	11272	-	126180	-
1	1	2	4-1/2	4	11278	-	126190	-
1	1	3	5-1/2	4	11400	-	-	-
1	1	4	6-1/2	4	911402	-	127430	-
1	1	6	8-1/2	4	11358	-	128130	-
1	1	8	10-1/2	4	11360	-	-	-
1-1/16	3/4	2	4-1/4	6	11248	-	133710	-
1-1/16	1	2	4-1/2	6	11280	-	-	-
1-1/8	3/4	2	4-1/4	6	911250	-	133740	-
1-1/8	7/8	2	4-1/4	6	11274	-	133750	-
1-1/8	1	2	4-1/2	6	11282	-	133760	-
1-1/8	1	4	6-1/2	6	911404	-	134580	-
1-3/16	3/4	2	4-1/4	6	911252	-	133770	-
1-3/16	1	2	4-1/2	6	11284	-	-	-
1-1/4	3/4	2	4-1/4	6	911254	-	133800	-
1-1/4	1	2	4-1/2	6	11286	-	133820	-
1-1/4	1-1/4	2	4-1/2	6	11296	-	133830	-
1-1/4	1-1/4	3	5-1/2	4	11412	-	-	-
1-1/4	1	4	6-1/2	6	11406	-	-	-
1-1/4	1-1/4	4	6-1/2	6	11414	-	134600	-
1-1/4	1-1/4	6	8-1/2	6	11362	-	135200	-
1-5/16	1	2	4-1/2	6	911288	-	-	-
1-3/8	3/4	2	4-1/4	6	11256	-	133880	-
1-3/8	1	2	4-1/2	6	11290	-	133900	-
1-3/8	1-1/4	2	4-1/2	6	11298	-	-	-
1-3/8	1	4	6-1/2	6	11408	-	134610	-
1-7/16	1	2	4-1/2	6	11292	-	-	-
1-1/2	3/4	2	4-1/4	6	911258	-	133940	-
1-1/2	1	2	4-1/2	6	11294	-	133950	-
1-1/2	1-1/4	2	4-1/2	6	11300	-	-	-
1-1/2	1-1/4	2	4-1/2	6	15046*	-	-	-
1-1/2	1-1/4	3	5-1/2	4	11416	-	-	-
1-1/2	1	4	6-1/2	6	11410	-	134630	-
1-1/2	1-1/4	4	6-1/2	6	11418	-	134640	-
1-1/2	1-1/4	8	10-1/2	6	11364	-	135240	-
1-9/16	1-1/4	2	4-1/2	6	11302	-	-	-
1-5/8	3/4	2	4-1/4	6	911260	-	-	-
1-5/8	1-1/4	2	4-1/2	6	911304	-	134000	-
1-3/4	3/4	2	4-1/4	6	911262	-	134030	-
1-3/4	1-1/4	2	4-1/2	6	11306	-	134060	-
1-3/4	1-1/4	4	6-1/2	6	11420	-	134660	-
1-3/4	1-1/4	8	10-1/2	8	11366	-	-	-
1-7/8	3/4	2	4-1/4	6	911264	-	-	-
1-7/8	1-1/4	4	6-1/2	6	11422	-	-	-
2	3/4	2	4-1/4	6	911266	-	134150	-
2	1-1/4	2	4-1/2	6	11312	-	134160	-
2	1-1/4	2	4-1/2	8	11314	-	138250	-
2	1-1/4	2	4-1/2	6	15048*	-	-	-
2	1-1/4	3	5-1/2	6	11424	-	-	-
2	2	4	7-3/4	4	11326	-	-	-
2	2	4	7-3/4	6	11328	-	134690	-
2	1-1/4	4	6-1/2	8	11426	-	138610	-
2	1-1/4	4	6-1/2	6	11428	-	134680	-
2	2	6	9-3/4	6	11430	-	32520	-
2	2	8	11-3/4	6	911370	-	135290	-
2	2	10	13-3/4	6	11372	-	-	-
2-1/8	1-1/4	2	4-1/2	4	11316	-	-	-
2-1/4	1-1/4	2	4-1/2	4	11318	-	-	-
2-1/2	1-1/4	2	4-1/2	4	11320	-	-	-
2-1/2	1-1/4	2	4-1/2	6	11322	-	-	-
2-1/2	1-1/4	2	4-1/2	8	911324	-	-	-

*M42 through 1-1/4" Mill Diameter.

Larger diameters made of M7 steel except where marked with an *.

() STAR USA dimensions

CUTTING TOOLS - END MILLS

HIGH SPEED STEEL AND COBALT (M42)

MULTIPLE FLUTE SINGLE END CENTER-CUTTING END MILLS

Stub / Regular / Long / Extra-Long Length

SERIES 751:



SERIES 767:



CUTTING TOOLS - END MILLS

Mill Dia.	Shnk Dia.	Flute Lgth	OAL	No. Fl.	MELIN - M42*		STAR USA - M2	
					Order No.	Price	Order No.	Price
1/8	3/8	3/16	2-1/8	4	11434	-	-	-
1/8	3/8	3/8	2-5/16	4	911432	-	9940350	-
1/8	3/8	1/2	2-3/8	4	12972	-	-	-
1/8	3/8	3/4	2-5/8	4	12974	-	-	-
5/32	3/8	3/16	2-1/8	4	11438	-	-	-
5/32	3/8	7/16	2-5/16	4	11436	-	9140370	-
5/32	3/8	5/8	2-1/2	4	12976	-	-	-
5/32	3/8	3/4	2-5/8	4	12978	-	-	-
3/16	3/8	3/16	2-1/16	4	11442	-	-	-
3/16	3/8	1/2	2-3/8	4	11440	-	9140390	-
3/16	3/8	5/8	2-1/2	4	12980	-	-	-
3/16	3/8	1-1/4	3-1/8	4	12962	-	-	-
7/32	3/8	1/4	2-3/16	4	11446	-	-	-
7/32	3/8	1/2	2-3/8	4	11444	-	9140410	-
7/32	3/8	1-1/4	3-1/8	4	11584	-	-	-
1/4	3/8	1/4	2-1/8	4	11450	-	-	-
1/4	3/8	5/8	2-7/16	4	11448	-	9140430	-
1/4	3/8	7/8	2-11/16	4	11588	-	-	-
1/4	3/8	1-1/4	3-1/16	4	11586	-	9142050	-
1/4	3/8	1-3/4	3-9/16	4	11536	-	142750	-
1/4	3/8	2-1/4	4-1/8	4	11538	-	-	-
9/32	3/8	5/16	2-1/8	4	911454	-	-	-
9/32	3/8	11/16	2-1/2	4	11452	-	9940450	-
9/32	3/8	1	2-3/4	4	912984	-	-	-
9/32	3/8	1-3/8	3-1/8	4	11590	-	-	-
5/16	3/8	5/16	2-1/16	4	11458	-	-	-
5/16	3/8	3/4	2-1/2	4	11456	-	9140470	-
5/16	3/8	1	2-3/4	4	12986	-	-	-
5/16	3/8	1-3/8	3-1/8	4	11592	-	142070	-
11/32	3/8	3/8	2-1/8	4	11462	-	-	-
11/32	3/8	3/4	2-1/2	4	11460	-	9140490	-
11/32	3/8	1	2-3/4	4	12988	-	-	-
11/32	3/8	1-1/2	3-1/4	4	11594	-	-	-
3/8	3/8	3/8	2-1/8	4	11466	-	-	-
3/8	3/8	3/4	2-1/2	4	11464	-	140510	-
3/8	3/8	1	2-3/4	4	12990	-	-	-
3/8	3/8	1-1/2	3-1/4	4	11596	-	142090	-
3/8	3/8	2-1/2	4-1/4	4	11542	-	142790	-
13/32	3/8	1	2-11/16	4	11174	-	9940530	-
7/16	3/8	7/16	2-7/16	4	12956	-	-	-
7/16	3/8	1	2-11/16	4	11468	-	9940570	-
7/16	1/2	1-1/4	3-1/4	4	12992	-	-	-
7/16	1/2	1-3/4	3-3/4	4	12994	-	-	-
7/16	1/2	2-3/4	4-3/4	4	12970	-	-	-
15/32	1/2	1-1/4	3-1/4	4	11180	-	-	-
1/2	1/2	1/2	2-1/2	4	12957	-	-	-
1/2	3/8	1	2-11/16	4	911470	-	-	-
1/2	1/2	1-1/4	3-1/4	4	11472	-	9140660	-
1/2	1/2	1-1/4	3-1/4	6	915050	-	-	-
1/2	1/2	1-5/8	3-5/8	4	12996	-	-	-
1/2	1/2	2	4	4	11598	-	142170	-
1/2	1/2	3	5	4	11544	-	142870	-
1/2	1/2	4	6	4	11344	-	-	-
17/32	1/2	1-3/8	3-3/8	4	11184	-	9140680	-

Mill Dia.	Shank Dia.	Flute Lgth	OAL	No. Fl.	MELIN - M42*		STAR USA - M2	
					Order No.	Price	Order No.	Price
9/16	1/2	1-3/8	3-3/8	4	11474	-	8140700	-
9/16	1/2	2-1/2	4-1/2	4	11392	-	-	-
9/16	1/2	3-1/2	5-1/2	4	11346	-	-	-
19/32	1/2	1-3/8	3-3/8	4	11188	-	-	-
5/8	5/8	1-5/8	2-3/4	4	12958	-	-	-
5/8	1/2	1-3/8	3-3/8	4	11190	-	-	-
5/8	5/8	1-5/8	3-3/4	4	11476	-	9140770	-
5/8	5/8	1-5/8	3-3/4	6	15054	-	-	-
5/8	5/8	2	4-1/8	4	12998	-	-	-
5/8	5/8	2-1/2	4-5/8	4	11600	-	142240	-
5/8	5/8	4	6-1/8	4	11546	-	142940	-
5/8	5/8	5	7-1/8	4	11548	-	-	-
11/16	5/8	1-5/8	3-3/4	4	11478	-	9140810	-
3/4	3/4	3/4	3	4	12960	-	-	-
3/4	5/8	1-5/8	3-3/4	4	15058	-	-	-
3/4	3/4	1-5/8	3-7/8	4	11480	-	9140870	-
3/4	3/4	1-5/8	3-7/8	6	15062	-	-	-
3/4	3/4	2-1/4	4-1/2	4	13000	-	-	-
3/4	3/4	3	5-1/4	4	911602	-	142290	-
3/4	3/4	4	6-1/4	4	11550	-	142990	-
3/4	3/4	6	8-1/4	4	911552	-	-	-
13/16	3/4	1-7/8	4-1/8	4	11482	-	9140930	-
7/8	1/2	1-5/8	3-5/8	4	915854	-	-	-
7/8	3/4	1-7/8	4-1/8	4	15066	-	-	-
7/8	7/8	1-7/8	4-1/8	4	911484	-	8141010	-
7/8	7/8	1-7/8	4-1/8	6	15096	-	-	-
7/8	7/8	3-1/2	5-3/4	4	11604	-	9142350	-
7/8	7/8	5	7-1/4	4	11554	-	143050	-
15/16	3/4	1-7/8	4-1/8	4	15068	-	-	-
15/16	7/8	1-7/8	4-1/8	4	11486	-	8141090	-
1	5/8	1-7/8	4	4	15060	-	-	-
1	3/4	1-7/8	4-1/8	4	15070	-	-	-
1	1/2	1-7/8	3-7/8	4	915856	-	-	-
1	1	2	4-1/2	4	11488	-	8141190	-
1	1	2	4-1/2	6	15098	-	-	-
1	1	3	5-1/2	4	11608	-	-	-
1	1	4	6-1/2	4	11606	-	142430	-
1	1	6	8-1/2	4	11556	-	143130	-
1	1	8	10-1/2	4	11558	-	-	-
1-1/16	3/4	1-5/8	3-7/8	6	15072	-	-	-
1-1/8	3/4	1-5/8	3-7/8	6	15074	-	-	-
1-1/8	1	2	4-1/2	4	11490	-	9141250	-
1-3/16	3/4	1-5/8	3-7/8	6	15076	-	-	-
1-1/4	3/4	1-5/8	3-7/8	6	15078	-	-	-
1-1/4	1	2	4-1/2	6	915102	-	-	-
1-1/4	1-1/4	2	4-1/2	4	11492	-	141320	-
1-1/4	1-1/4	2	4-1/2	6	11662	-	-	-
1-1/4	1-1/4	4	6-1/2	4	11610	-	142460	-
1-1/4	1-1/4	6	8-1/2	4	911560	-	143160	-
1-5/16	3/4	2	4-1/4	6	15080	-	-	-
1-3/8	3/4	2	4-1/4	6	15082	-	-	-
1-7/16	3/4	2	4-1/4	6	15084	-	-	-
1-1/2	3/4	2	4-1/4	6	15086	-	-	-
1-1/2	1	2	4-1/2	6	915106	-	148950	-
1-1/2	1-1/4	2	4-1/2	4	11494*	-	9141450	-
1-1/2	1-1/4	2	4-1/2	4	11664	-	-	-
1-1/2	1-1/4	2	4-1/2	6	11666	-	148960	-
1-1/2	1-1/4	4	6-1/2	4	11612*	-	9142500	-
1-1/2	1-1/4	8	10-1/2	4	11698	-	-	-
1-5/8	3/4	2	4-1/4	6	15088	-	-	-
1-3/4	3/4	2	4-1/4	6	15090	-	-	-
1-3/4	1-1/4	2	4-1/2	6	915108	-	-	-
1-7/8	3/4	2	4-1/4	6	915092	-	-	-
2	3/4	2	4-1/4	6	15094	-	-	-
2	1-1/4	2	4-1/2	4	11668	-	9141650	-
2	1-1/4	2	4-1/2	6	11670	-	149160	-
2	1-1/4	4	6-1/2	4	11712	-	-	-

* M7 Steel