

Cutting Tools

Columbus Fleet Industrial Supply

Canton Fleet Industrial Supply

Canton First Aid & Safety



Cutting Tools

America's Finest High-Speed Steel Cutting Tools

NEW
 NORSEMAN/CTD
CN-TECH
 Cryogenic Nitrided HSS Products
 Available Now!

NEW
 3pc.
 Carbide Tipped
 Holecutter
 Available Now!

Proudly Manufactured in the U.S.A



Full Sets

Part #	TYPE
330-040	29 PC Set Flip-Out (64 th)
330-039	29 PC Set Orange Round
330-030	1-60 Set
330-032	A-Z Set
330-045	29 PC Reduced Shank
330-070	29 PC Cobalt Set



Empty Drill Index

Empty Index

Part #	TYPE
330-001	Drill Gauge
330-002	15 PC Empty (32 nd)
330-003	29 PC Empty (64 th)
330-005	1-60 Empty
330-007	A-Z Empty



Cutting Tools

Drill Sets & Empty Index



Full Sets

Part #	TYPE
330-048	S&D Drill Set 4-PC
330-050	S&D Drill Set 8-PC



9/16, 13/16, 5/8, 7/8, 11/16, 15/16, 3/4, 1"

Empty Index

Part #	TYPE
330-015	S&D Drill Empty

Drill Sets & Empty Index

Full Sets

Part #	TYPE
330-042	56 Piece Drill Set

3 ea 1/16" – 1/4"
2 ea 17/64" – 3/8"
1 ea 11/16" – 1/2"



Empty Index

Part #	TYPE
330-020	56 Piece Drill Empty

Drill Sets & Empty Index

Full Sets

Part #	TYPE
330-043	115 pc Drill Set



Cutting Tools

Accu-Lube Gold Stick

Part #	QTY
252-000	Ea



2.2 oz

Accu-Lube Gold Spray

Part #	QTY
252-010	Ea



8 oz

Lube-Cut Tapping Fluid

Part #	QTY
252-050	Ea



1 pint

Cutting / Tapping Lubricants



- High performance cutting tool lubricants in an easy to apply, easy to carry solid stick applicator or spray.
- Easy to use - just apply directly to the cutting tool.
- High performance - provides superior lubricity for fast results, even on tough alloys.
- No mess - no fluid leaks and cleans up easily.
- Cool running - to provide extra cutting tool life.
- Superior finish & tool life when applied sparingly to grinding wheels.
- No Hazardous Ingredients.
- Completely Biodegradable.
- Non-Toxic.
- Clean and Safe.

Cutting Tools

Magna-Cut-Plus Premium Drills Jobber length 135*



Magna-Cut-Plus Super Premium 3 Flats on Shank

Special **Hi-Molybdenum** tool steel.

135° split point for fast penetration and accurate starting without center punch.

Precision ground point, flutes, body, clearance and drill diameter for the ultimate in accuracy and performance.

Part #	DRILL DIAM.	DECIMAL	OVER ALL
341-000	1/16	.0625	1-7/8
341-001	5/64	.0781	2
341-002	3/32	.0938	2-1/4
341-003	7/64	.1094	2-3/8
341-004	1/8	.1250	2-1/2
341-005	9/64	.1406	2-5/8
341-006	5/32	.1562	2-3/4
341-007	11/64	.1719	2-7/8
341-008	3/16	.1875	3
341-009	13/64	.2031	3-1/8
341-010	7/32	.2188	3-1/4
341-011	15/64	.2344	3-3/8
341-012	1/4	.2500	3-1/2
341-013	17/64	.2656	3-5/8
341-014	9/32	.2812	3-3/4
341-015	19/64	.2969	3-7/8
341-016	5/16	.3125	4
341-017	21/64	.3281	4-1/16
341-018	11/32	.3438	4-1/8
341-019	23/64	.3594	4-3/16
341-020	3/8	.3750	4-1/4
341-021	25/64	.3906	4-5/16
341-022	13/32	.4062	4-3/8
341-023	27/64	.4219	4-7/16
341-024	7/16	.4375	4-1/2
341-025	29/64	.4531	4-5/8
341-026	15/32	.4688	4-3/4
341-027	31/64	.4844	4-7/8
341-028	1/2	.5000	5



Part #	SIZE	QTY
341-030	1/2" Drill - 3/8" SHANK 6" LONG	EA



Substantially longer cutting life

The nitro-carburized flute has an increased Rockwell hardness.

Cuts harder materials

The flatter point takes a smaller chip. More torque is directed to a smaller area. This allows drilling into materials with hardness of over 30 on the Rockwell "C" scale.

Stops drill walking

The split point design of a gives accurate starting without the use of a center punch.

Holds tighter hole size

The split point design is self centering. This limits the normal oversize drilling characteristics.

Outstanding quality appearance

The rich amber gold color sets it apart from commodity cutting tools.

Runs cooler, uses less torque

135° point takes a smaller chip resulting in less heat. Friction is reduced by amber gold surface treatment.

Stops chuck slippage

Flats on drill shanks allow easy positive chuck grip.

Good for 300 series stainless.

For 400 series stainless use Colbalt

Cutting Tools

Magna-Cut-Plus Wire Drills *Jobber Length 135**



Magna-Cut-Plus Super Premium

3 Flats on Shank

Special **Hi-Molybdenum** tool steel.

135° split point for fast penetration and accurate starting without center punch.

Precision ground point, flutes, body, clearance and drill diameter for the ultimate in accuracy and performance.



Part #	SIZE	FLUTE LENGTH	LGTH
341-101	1	2-5/8	3-7/8
341-102	2	2-5/8	3-7/8
341-103	3	2-1/2	3-7/8
341-104	4	2-1/2	3-7/8
341-105	5	2-1/2	3-7/8
341-106	6	2-1/2	3-7/8
341-107	7	2-7/16	3-7/8
341-108	8	2-7/16	3-7/8
341-109	9	2-7/16	3-7/8
341-110	10	2-7/16	3-7/8
341-111	11	2-5/16	3-7/8
341-112	12	2-5/16	3-7/8
341-113	13	2-5/16	3-7/8
341-114	14	2-3/16	3-1/2
341-115	15	2-3/16	3-1/2
341-116	16	2-3/16	3-1/2
341-117	17	2-3/16	3-1/2
341-118	18	2-1/8	3-1/2
341-119	19	2-1/8	3-1/2
341-120	20	2-1/8	3-1/2
341-121	21	2-1/8	3-1/2
341-122	22	2	3-1/2
341-123	23	2	3-1/2
341-124	24	2	3-1/2
341-125	25	1-7/8	3-1/2
341-126	26	1-7/8	3-1/2
341-127	27	1-7/8	3-1/2
341-128	28	1-3/4	3-1/2
341-129	29	1-3/4	3-1/2
341-130	30	1-5/8	3-1/2

Part #	SIZE	FLUTE LENGTH	LGTH
341-131	31	1-5/8	2-3/4
341-132	32	1-5/8	2-3/4
341-133	33	1-1/2	2-5/8
341-134	34	1-1/2	2-5/8
341-135	35	1-1/2	2-5/8
341-136	36	1-7/16	2-1/2
341-137	37	1-7/16	2-1/2
341-138	38	1-7/16	2-1/2
341-139	39	1-3/8	2-3/8
341-140	40	1-3/8	2-3/8
341-141	41	1-3/8	2-3/8
341-142	42	1-1/4	2-1/4
341-143	43	1-1/4	2-1/4
341-144	44	1-1/8	2-1/4
341-145	45	1-1/8	2-1/4
341-146	46	1-1/8	2-1/4
341-147	47	1	2
341-148	48	1	2
341-149	49	1	2
341-150	50	1	2
341-151	51	1	2
341-152	52	7/8	1-7/8
341-153	53	7/8	1-7/8
341-154	54	7/8	1-7/8
341-155	55	7/8	1-7/8
341-156	56	3/4	1-3/4
341-157	57	3/4	1-3/4
341-158	58	11/16	1-5/8
341-159	59	11/16	1-5/8
341-160	60	11/16	1-5/8

Cutting Tools

Magna-Cut-Plus Wire Drills Jobber Length 135*



This 135° point, high speed steel drill performs well in a wide variety of ferrous metal drilling application.

The black surface treatment prevents chip welding and increases abrasion resistance.

Part #	SIZE	FLUTE LENGTH H	OVERALL LENGTH
341-300	A	2-5/8	3-7/8
341-301	B	2-3/4	4
341-302	C	2-3/4	4
341-303	D	2-3/4	4
341-304	E	2-3/4	4
341-305	F	2-7/8	4-1/8
341-306	G	2-7/8	4-1/8
341-307	H	2-7/8	4-1/8
341-308	I	2-7/8	4-1/8
341-309	J	2-7/8	4-1/8
341-310	K	2-15/16	4-1/4
341-311	L	2-15/16	4-1/4
341-312	M	3-1/16	4-3/8
341-313	N	3-1/16	4-3/8
341-314	O	3-1/16	4-3/8
341-315	P	3-5/16	4-5/8
341-316	Q	3-7/16	4-3/4
341-317	R	3-7/16	4-3/4
341-318	S	3-1/2	4-7/8
341-319	T	3-1/2	4-7/8
341-320	U	3-5/8	5
341-321	V	3-5/8	5
341-322	W	3-3/4	5-1/8
341-323	X	3-3/4	5-1/8
341-324	Y	3-7/8	5-1/4
341-325	Z	3-7/8	5-1/4

Stubby Twin End Drills



Super heavy duty 135° split point eliminates center punching.

Excellent for use on sheet metal.

Expanded web provides superior strength and extended tool life.

Premium alloy provides exceptional wear resistance and longer life.

Finish: Surface - Ferro Gold, Flute - Ferro Gold.

Made in the U.S.A.

Part #	DRILL DIAM.	OVERALL LENGTH	LENGTH OF TWIST
342-130	1/8	1-7/8	7/8
342-140	5/32	2-1/16	1
342-150	3/16	2-3/16	1-1/8
342-160	1/4	2-1/2	1-3/8

Cutting Tools

Long Drills



EXTENDED FLUTE DESIGN - Provide maximum efficiency for quick drilling of 6" deep holes.

SELF-CENTERING SPLIT POINT - 135° split point provides a fast initial bite, and eliminates walking and wandering for precise hole positioning.

SUPERIOR CONSTRUCTION - Premium alloy with ferro-gold surface treatment provides reduced friction and long tool life.

VERSATILE - Excellent for drilling in hard to reach places, deep hole drilling and more.

MADE IN THE U.S.A.

Part #	DRILL DIAM.	OVERALL LENGTH	FLUTE LENGTH
341-818	1/8	6"	4"
341-820	5/32	6"	4"
341-822	3/16	6"	4"
341-824	7/32	6"	4"
341-826	1/4	6"	4"
341-836	9/32	6"	4"
341-838	5/16	6"	4"
341-840	11/32	6"	4"
341-842	3/8	6"	4"
341-844	13/32	6"	4"
341-846	7/16	6"	4"
341-850	1/2	6"	4"

Aircraft Extension Drills



EXTENDED FLUTE DESIGN - Provide maximum efficiency for quick drilling of 12" deep holes.

SELF-CENTERING SPLIT POINT - 135° split point provides a fast initial bite, and eliminates walking and wandering for precise hole positioning.

SUPERIOR CONSTRUCTION - Premium alloy with ferro-gold surface treatment provides reduced friction and long tool life.

VERSATILE - Excellent for drilling in hard to reach places, deep hole drilling and more.

MADE IN THE U.S.A.

Part #	DRILL DIAM.	OVERALL LENGTH	FLUTE LENGTH
341-902	1/8	12"	2-1/4
341-910	3/16	12"	2-1/4
341-914	1/4	12"	2-1/2
341-918	5/16	12"	3-1/8
341-922	3/8	12"	3-3/4
341-926	7/16	12"	4"
341-930	1/2	12"	4-1/2

Cutting Tools

S & D Magna-Cut-Plus Drills Silver & Deming 135*



Special **Hi-Molybdenum** tool steel. 135° split point for fast penetration and accurate starting without center punch. Precision ground point, flute, body, clearance, and drill diameter for the ultimate in accuracy and performance. Body and clearance are gold surface treated for maximum lubricity. Space age nitro-carburized steel withstands substantially higher drilling temperatures while maintaining sharpness. Recommended for use in work hardening grades of stainless steel and other hard metal.

Part #	DRILL DIAM.	shank	OVER ALL
342-224	33/64	1/2	6"
342-226	17/32	1/2	6"
342-228	35/64	1/2	6"
342-230	9/16	1/2	6"
342-232	37/64	1/2	6"
342-233	19/32	1/2	6"
342-234	39/64	1/2	6"
342-235	5/8	1/2	6"
342-236	41/64	1/2	6"
342-238	21/32	1/2	6"
342-240	43/64	1/2	6"
342-242	11/16	1/2	6"
342-243	45/64	1/2	6"
342-244	23/32	1/2	6"
342-245	47/64	1/2	6"
342-246	3/4	1/2	6"
342-248	49/64	1/2	6"
342-250	25/32	1/2	6"
342-252	51/64	1/2	6"
342-253	13/16	1/2	6"
342-254	53/64	1/2	6"
342-255	27/32	1/2	6"
342-256	55/64	1/2	6"
342-258	7/8	1/2	6"
342-259	57/64	1/2	6"
342-260	29/32	1/2	6"
342-262	59/64	1/2	6"
342-264	15/16	1/2	6"
342-265	61/64	1/2	6"
342-266	31/32	1/2	6"
342-267	63/64	1/2	6"
342-269	1"	1/2	6"
342-272	1-1/16	1/2	6"
342-275	1-1/8	1/2	6"
342-277	1-5/32	1/2	6"
342-280	1-3/16	1/2	6"
342-286	1-1/4	1/2	6"
342-289	1-1/2	1/2	6"

Magna-Cut-Plus Cobalt Drills Mechanic's length 135*



Superior Cobalt High Speed Steel - DIN 338

Gold surface treated for maximum lubricity. Heavy duty construction, 135° split point, no center punch needed - will not walk. Gyrodiagonal Torsion flute and land construction yields exceptional performance in deep hole drilling applications. Recommended for a wide range of steels, castings and other hard metal drilling applications.

Part #	DRILL DIAM.	DECI M	OVER ALL
344-000	1/16	.0625	1-7/8
344-001	5/64	.0781	2
344-002	3/32	.0938	2-1/4
344-003	7/64	.1094	2-5/8
344-004	1/8	.1250	2-3/4
344-005	9/64	.1406	2-7/8
344-006	5/32	.1562	3-1/8
344-007	11/64	.1719	3-1/4
344-008	3/16	.1875	3-1/2
344-009	13/64	.2031	3-5/8
344-010	7/32	.2188	3-3/4
344-011	15/64	.2344	3-7/8
344-012	1/4	.2500	4
344-013	17/64	.2656	4-1/8
344-014	9/32	.2812	4-1/4
344-015	19/64	.2969	4-3/8
344-016	5/16	.3125	4-1/2
344-017	21/64	.3281	4-5/8
344-018	11/32	.3438	4-3/4
344-019	23/64	.3594	4-7/8
344-020	3/8	.3750	5
344-021	25/64	.3906	5-1/8
344-022	13/32	.4062	5-1/4
344-023	27/64	.4219	5-3/8
344-024	7/16	.4375	5-1/2
344-025	29/64	.4531	5-5/8
344-026	15/32	.4688	5-3/4
344-027	31/64	.4844	5-7/8
344-028	1/2	.5000	6

Cutting Tools



CFIS 190-CN

- CN-TECH™ 135° Split Point
- Cryogenic treatment creates a more uniform “grain” structure by transforming retained austenite into martensite.
- Modifies the carbon micro-structure through precipitation of carbides increasing resistance to wear.
- Nitride process diffuses nitrogen into the surface to create a case hardening resulting in **superior tool life** and exceptional corrosion resistance.

Part #	DRILL DIAM.	DECIMAL	OVER ALL
341-060	1/16	.0625	1-7/8
341-061	5/64	.0781	2
341-062	3/32	.0938	2-1/4
341-063	7/64	.1094	2-3/8
341-064	1/8	.1250	2-1/2
341-065	9/64	.1406	2-5/8
341-066	5/32	.1562	2-3/4
341-067	11/64	.1719	2-7/8
341-068	3/16	.1875	3
341-069	13/64	.2031	3-1/8
341-070	7/32	.2188	3-1/4
341-071	15/64	.2344	3-3/8
341-072	1/4	.2500	3-1/2
341-073	17/64	.2656	3-5/8
341-074	9/32	.2812	3-3/4
341-075	19/64	.2969	3-7/8
341-076	5/16	.3125	4
341-077	21/64	.3281	4-1/16
341-078	11/32	.3438	4-1/8
341-079	23/64	.3594	4-3/16
341-080	3/8	.3750	4-1/4
341-081	25/64	.3906	4-5/16
341-082	13/32	.4062	4-3/8
341-083	27/64	.4219	4-7/16
341-084	7/16	.4375	4-1/2
341-085	29/64	.4531	4-5/8
341-086	15/32	.4688	4-3/4
341-087	31/64	.4844	4-7/8
341-088	1/2	.5000	5



1 ea 1/16" – 1/2"
By 32nd

Part #	TYPE
341-050	15 Piece Drill Set



341-053



341-055

1 ea 1/16" – 1/2"
By 64th

Part #	TYPE
341-053	29 Piece Drill Set (metal box)
341-055	29 Piece Drill Set (plastic box)

Cutting Tools



CFIS 190-CN

- CN-TECH™ 135° Split Point
- Cryogenic treatment creates a more uniform “grain” structure by transforming retained austenite into martensite.
- Modifies the carbon micro-structure through precipitation of carbides increasing resistance to wear.
- Nitride process diffuses nitrogen into the surface to create a case hardening resulting in **superior tool life** and exceptional corrosion resistance.

Part #	DRILL DIAM.	shank	OVER ALL
341-224	33/64	1/2	6"
341-226	17/32	1/2	6"
341-228	35/64	1/2	6"
341-230	9/16	1/2	6"
341-232	37/64	1/2	6"
341-233	19/32	1/2	6"
341-234	39/64	1/2	6"
341-235	5/8	1/2	6"
341-236	41/64	1/2	6"
341-238	21/32	1/2	6"
341-240	43/64	1/2	6"
341-242	11/16	1/2	6"
341-243	45/64	1/2	6"
341-244	23/32	1/2	6"
341-245	47/64	1/2	6"
341-246	3/4	1/2	6"
341-248	49/64	1/2	6"
341-250	25/32	1/2	6"
341-252	51/64	1/2	6"
341-253	13/16	1/2	6"
341-254	53/64	1/2	6"
341-255	27/32	1/2	6"
341-256	55/64	1/2	6"
341-258	7/8	1/2	6"
341-259	57/64	1/2	6"
341-260	29/32	1/2	6"
341-262	59/64	1/2	6"
341-264	15/16	1/2	6"
341-265	61/64	1/2	6"
341-266	31/32	1/2	6"
341-267	63/64	1/2	6"
341-269	1"	1/2	6"



9/16, 5/8, 3/4, 1"

Part #	TYPE
341-206	4 Piece Drill Set



9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1"

Part #	TYPE
341-208	8 Piece Drill Set

Cutting Tools

Norseman Vortex Point Drill



About this item

- Split-point design gives accurate starting and is self-centering eliminating the need for the use of a center punch. Mechanics Length
- Unique tip geometry reduces heat generation & cutting tool wear increasing tool life
- Three flats ground onto sides of shank to reduce the slippage of the bit when used in drill chucks
- Step Drill design easily enlarges existing holes without damaging the point
- Ideal for Hard steel, Sheet metal, Brass, & Acrylics

Part #	DRILL DIAM.	DECIMAL	OVER ALL
341-630	1/16	.0625	1-7/8
341-631	5/64	.0781	2
341-632	3/32	.0938	2-1/4
341-633	7/64	.1094	2-3/8
341-634	1/8	.1250	2-1/2
341-635	9/64	.1406	2-5/8
341-636	5/32	.1562	2-3/4
341-637	11/64	.1719	2-7/8
341-638	3/16	.1875	3
341-639	13/64	.2031	3-1/8
341-640	7/32	.2188	3-1/4
341-641	15/64	.2344	3-3/8
341-642	1/4	.2500	3-1/2
341-643	17/64	.2656	3-5/8
341-644	9/32	.2812	3-3/4
341-645	19/64	.2969	3-7/8
341-646	5/16	.3125	4
341-647	21/64	.3281	4-1/16
341-648	11/32	.3438	4-1/8
341-649	23/64	.3594	4-3/16
341-650	3/8	.3750	4-1/4
341-651	25/64	.3906	4-5/16
341-652	13/32	.4062	4-3/8
341-653	27/64	.4219	4-7/16
341-654	7/16	.4375	4-1/2
341-655	29/64	.4531	4-5/8
341-656	15/32	.4688	4-3/4
341-657	31/64	.4844	4-7/8
341-658	1/2	.5000	5



1 ea 1/16" – 1/2"
By 64th

Part #	TYPE
341-610	29 Piece Drill Set

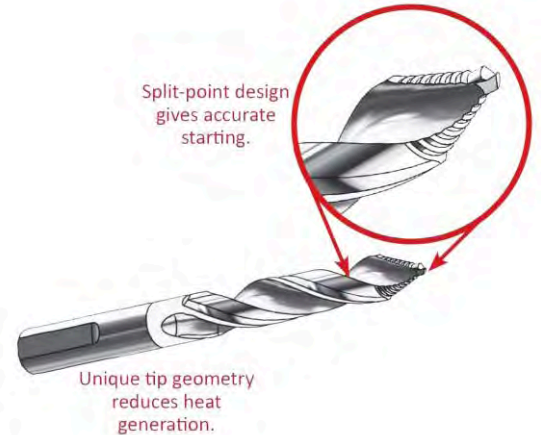


1 ea 1/16" – 1/2"
By 64th

Part #	TYPE
341-615	29 Piece Drill Set

Cutting Tools

Norseman Vortex Point Drill



Great for drilling into Broken studs

Mechanics Length Step Point Drill Bit Set 1/16"-1/2" by 64ths USA Made Step Point drill bits combine a split tip point with a step drill design for accurate starting without the need of a center punch. This distinctive design reduces heat to increase the tool life of the drill bit and can be used to enlarge existing holes without damaging the drill bit point. The shorter Mechanics Length gives you a sturdier drill bit with 3-Flats on the shanks, sizes 3/16" and above, to help eliminate slippage in your chuck. Our Step Point Drill Bit is great for hard steel, brass, sheet metal and acrylics.

- Made In USA
- Great for hard steel, brass, sheet metal and acrylics
- Split point step design starts on contact, self-centers and eliminates the need for a center punch
- Can be used to enlarge existing holes without damaging the point
- Mechanics length provides a shorter sturdier construction
- Sizes: 1/16 - 1/2 by 64ths
- Great for hard steel, brass, sheet metal and acrylics; Split point step design starts on contact, self-centers and eliminates the need for a center punch; Can be used to enlarge existing holes without damaging the point; Mechanics length provides a shorter sturdier construction; Sizes: 1/16 - 1/2 by 64ths
- Drill Bits are made of (HSS) high strength steel

Cutting Tools

Carbide Tipped Drills



Hard Steel Carbide tipped, straight flute
These drills are made for use in drilling hardened steel in the range of 48 to 65 Rockwell C.

Part #	SIZE	OVERALL LENGTH	QTY
344-260	1/8	2-3/4	Ea
344-264	3/16	3"	Ea
344-265	5/32	3"	Ea
344-266	7/32	4"	Ea
344-267	9/32	4"	Ea
344-270	1/4	6"	Ea
344-276	5/16	6"	Ea
344-282	3/8	6"	Ea
344-284	7/16	6"	Ea
344-286	1/2	6"	Ea

Solid Carbide Drills



Solid Carbide Straight Flute

Excellent for removing broken screw extractors, taps and drill bits. For use in extremely hard and difficult to machine materials.

Part #	SIZE	OVERALL LENGTH	QTY
344-224	1/8	1-7/8	Ea
344-226	5/32	2-1/16	Ea
344-228	3/16	2-3/16	Ea
344-229	7/32	2-3/8	Ea
344-230	9/32	2-11/16	Ea
344-232	1/4	2-13/16	Ea
344-236	5/16	3	Ea
344-240	3/8	3-1/8	Ea
344-244	7/16	3-7/16	Ea
344-248	1/2	3-3/4	Ea

Premium Rapid Reamer



DRILLS TRUCK FRAMES IN MINUTES INSTEAD OF HOURS

Reduces time, drill breakage, extreme pressure required on large diameter drills. Reamers start using a small pilot hole.

Part #	SIZE	SHANK SIZE	OVERALL LENGTH
345-012	7/16	7/16	5-3/8
345-014	1/2	1/2	5-7/8
345-018	5/8	1/2	6-1/2
345-024	3/4	1/2	7
345-030	7/8	1/2	7
345-034	1"	1/2	7
345-036	1-1/16	1/2	7

Hole Hog Reamer



4-Flute Core Drill - Super Premium 1/2" Shank - 3 Flats on Shank Special Hi-Molybdenum tool steel, gold surface treated body and clearance for maximum lubricity. Close tolerance construction Exclusively designed for enlarging existing holes. These core drills may replace tapered reamers in many applications

Part #	SIZE	DRILL SIZE	QTY
345-060	3/8	1/4"	Ea
345-064	1/2	5/16"	Ea
345-066	9/16	3/8"	Ea
345-068	5/8	25/64"	Ea
345-070	11/16	7/16"	Ea
345-072	3/4	15/32"	Ea

Hole Hog Set

Part #	SIZE	QTY
345-050	8 PC SET	Ea

Drill and Reamer
3/8", 1/2", 5/8", 3/4



Cutting Tools

Ultra Uni-Bits



3 – Piece Set

Part#	Range	Qty
345-080	1/8–1/2, 3/16–1/2, 1/4–3/4	SET
345-082	1/8–1/2, 3/16–1/2, 3/16–3/8	SET
345-084	1/8–1/2, 3/16–1/2, 9/16–1"	SET
345-086	1/8–1/2, 3/16–1/2, 7/8–1-1/8	SET

Part#	Range	Qty.
345-110	1/8 – 1/2	EA
345-115	3/16 – 1/2	EA
345-120	1/4 – 3/4	EA
345-125	9/16 – 1"	EA
345-130	7/8 – 1-1/8	EA
345-135	1/4 – 7/8	EA
345-140	1/4 – 1-1/8	EA
345-145	1/4 – 1-3/8	EA
345-150	7/8 – 1-1/8	EA
345-155	7/8 – 1-7/32	EA



STEP DRILLS

ULTRA BIT™ MULTI-DIAMETER

Type 78-AG Gold Oxide, 3-flats on Shank

SPECIAL AXIAL and RADIAL FLUTE DESIGN - Increases work piece penetration.

DUAL FLUTE CONSTRUCTION – Drills clean accurate holes in thin materials, quickly and easily.

MULTI-DIAMETER DRILLS - One drill can produce up to 13 different hole sizes.

DOUBLE FLUTED DESIGN - Drills clean, accurate, burr-free holes in thin materials quickly and easily.

HIGH MOLY ALLOY STEEL - Special high speed alloy construction provides superior wear resistance for extended tool life.

GOLD SURFACE TREATMENT - Provides superior surface lubricity for fast and smooth cutting action.

3 FLATS ON SHANKS - Flatted shanks eliminate chuck slippage.

VERSATILE - Can be used on portable drills, drill presses and lathes.

MULTI-MATERIAL - Stainless steel, steel, aluminum, brass, other metals, rigid plastics, laminates and most material with a thickness equal to or less than the step depth of the drill.

MADE IN THE U.S.A.

Cutting Tools

Ultra Uni-Bits



3 – Piece Set

Part#	Range	Qty
345-300	1/4, 5/16, 3/8, 1/2	SET

Part#	Range	Qty.
345-342	1/4	Ea
345-344	5/16	Ea
345-346	3/8	Ea
345-348	1/2	Ea
345-350	5/8	Ea

6-FLUTE 82° CHATTER-LESS HSS COUNTERSINK

- Chatter-less 6-flute design reduces vibration
- Manufactured from high-quality HSS tool steel
- Multiple cutting edges extend tool life.
- 82° Countersink produce the ideal profile for the majority of flat head fasteners.
- Made in the USA.



Cutting Tools

Carbide Masonry Drills



Fastest, easiest way to drill holes in tile, brick, cement, concrete, etc. Carbide tips ensure that drill stays sharper longer. Wide spiral flute assures dust removal from cutting zone. Use for installing expansion anchors, plumbing, heating, air conditioning, etc. Suitable for hammer drills. Made in the U.S.A.

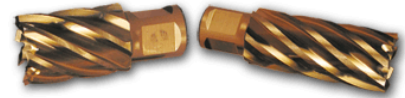
Part #	DRILL DIAM.	OVERALL LENGTH	SHANK DIAMETER
346-210	1/8	3"	1/8
346-215	3/16	3-1/2"	3/16
346-220	1/4	4"	1/4
346-225	5/16	4"	1/4
346-230	3/8	4"	1/4
346-235	1/2	6"	3/8
346-240	5/8	6"	3/8
346-245	3/4	6"	1/2
346-280	1	6"	1/2

Spiral-Broach Drill Press



Drill Press

Spiral-Broach Drills



1" Long

Part #	RANGE	QTY
346-530	1/2 X 1"	Ea
346-535	9/16 X 1"	Ea
345-540	5/8 X 1"	Ea
346-545	11/16 X 1"	Ea
346-550	3/4 X 1"	Ea
346-555	13/16 X 1"	Ea
346-560	7/8 X 1"	Ea
346-565	15/16 X 1"	Ea
346-570	1" X 1"	Ea
346-575	1-1/16 X 1	Ea
346-580	1-1/8 X 1	Ea



2" Long

Part #	RANGE	QTY
346-720	1/2 X 2"	Ea
346-725	9/16 X 2"	Ea
346-730	5/8 X 2"	Ea
346-735	11/16 X 2"	Ea
346-740	3/4 X 2"	Ea
346-745	13/16 X 2"	Ea
346-750	7/8 X 2"	Ea
346-755	15/16 X 2"	Ea
346-760	1" X 2"	Ea
346-765	1-1/16 X 2"	Ea
346-770	1-1/8 X 2"	Ea
346-775	1-3/16 X 2"	Ea
346-780	1-1/4 X 2"	Ea
346-785	1-5/16 X 2"	Ea
346-790	1-3/8 X 2"	Ea
346-795	1-7/16 X 2"	Ea
346-800	1-1/2 X 2"	Ea
346-820	2-1/16 X 2"	Ea

Knock-Out Pin



Part #	RANGE	QTY
346-520	1/4 X 1"	Ea
346-525	1/4 X 2	Ea
346-524	1/4 X 2 (7/16)	Ea

Cutting Tools

PART NO. 347-030



Norsman 35173

25 Piece Magnum Super Premium Set Spiral Point Plug Taps & Hex Dies

- Set contains: Type 20-AG and 27-AG
- HSS spiral point taps & HSS hex dies sizes: 1/4-20, 1/4-28, 5/16-18, 5/16-24, 3/8-16, 3/8-24, 7/16-14, 7/16-20, 1/2-13 & 1/2-20.
- HSS pipe tap and hex die size: 1/8-27 NPT.
- T-Handle tap wrench: 3/16"-1/2".
- Die stock & Screw pitch gauge.
- *Supplied in sturdy plastic case.*

PART NO. 347-040



Norsman 35170

24 Piece Magnum Super Premium Set - Metric Spiral Point Taps & Hex Dies

- Set contains: Type 21-AG and 27-AG
- HSS spiral point taps & HSS hex dies sizes: 3.0-.50, 3.5-.60, 4.0-.70, 5.0-.80 6.0-1.00, 8.0-1.25, 10.0-1.50 & 12.0-1.75.
 - HSS pipe tap and hex die size: 1/8-27 NPT.
 - T-Handle tap wrenches: 0 - 1/4" & 3/16"-1/2".
 - Straight handle tap wrench: #4 - 1/2".
 - Die stock & Screw metric pitch gauge.
 - *Supplied in sturdy plastic case.*

PART NO. 347-060.



Norsman 61680

58 Piece Magnum Super Premium Set Straight Flute Plug Taps & Hex Dies

- Set contains: Type 24-AG and 27-AG
- HSS straight flute taps & HSS hex dies sizes: 6-32, 8-32, 10-24, 10-32, 12-24, 1/4-20, 1/4-28, 5/16-18, 5/16-24, 3/8-16, 3/8-24, 7/16-14, 7/16-20, 1/2-13, 1/2-20, 9/16-12, 9/16-18, 5/8-11, 5/8-18, 3/4-10, 3/4-16, 1/8-27NPT & 1/4-18NPT.
- Straight handle tap wrenches: #4-1/2" & 1/4"-3/4".
- Die stocks: MED R/H & 1"R/H.
- T-handle tap wrench: 0-1/4".
- Screw pitch gauge.
- Screw driver & Spiral flute
- Extractors sizes: Ex 1 thru Ex 5

Cutting Tools

PART NO. 347-070



Norsman 35171

**40 Piece Magnum Super Premium Set
Straight Flute Plug Taps & Hex Dies**

- Set contains: Type 24-AG and 27-AG
- HSS straight flute taps & HSS hex dies sizes: 4-40, 6-32, 8-32,
- 10-24, 10-32, 12-24, 1/4-20, 1/4-28, 5/16-18, 5/16-24, 3/8-16,
- 3/8-24, 7/16-14, 7/16-20, 1/2-13 & 1/2-20.
- HSS pipe tap and hex die size: 1/8-27 NPT.
- T-Handle tap wrenches: 0 - 1/4" & 3/16"-1/2".
- Straight handle tap wrench: #4 - 1/2".
- Die stock, Screw pitch gauge
- & Screw driver.
- *Supplied in sturdy red plastic case.*

PART NO. 347-080



Norsman 35181

**40 Piece Magnum Super Premium Set
Spiral Point Plug Taps & Hex Dies**

- Set contains: Type 20-AG and 27-AG
- HSS spiral point taps & HSS hex dies sizes: 4-40, 6-32, 8-32,
- 10-24, 10-32, 12-24, 1/4-20, 1/4-28, 5/16-18, 5/16-24, 3/8-16,
- 3/8-24, 7/16-14, 7/16-20, 1/2-13 & 1/2-20.
- HSS pipe tap and hex die size: 1/8-27 NPT.
- T-Handle tap wrenches: 0 - 1/4" & 3/16"-1/2".
- Straight handle tap wrench: #4 - 1/2".
- Die stock, Screw pitch gauge
- & Screw driver.
- *Supplied in sturdy red plastic case.*

PART NO. 347-075

**37 Piece Magnum High Carbon Steel Set Metric Set
Spiral Point Plug Taps & Hex Dies**

Norsman 50150

Taps 1 Of Each

3mm X 0.50, 3mmx 0.60, 4mm X 0.70, 4mm X 0.75, 5mmx 0.80,
5mm X 0.90, 6mm X 1.00, 7mm X 1.00, 8mmx 1.25, 9mm X 1.00,
9mm X 1.25, 10mmx 1.25, 10mmx 1.50, 11mmx 1.50, 12mmx 1.50,
12mmx 1.75, 1/8-27 NPT Pipe T-Handle Tap Wrench 1 Of Each
0 To 1/4, 3/16 To 1/2 Die Stock

Hex Dies

3mmx 0.50, 3mmx 0.60, 4mm X 0.70, 4mm X 0.75, 5mm X 0.80, 5mmx 0.90, 6mm X 1.00, 7mm X
1.00, 9mm X 1.00, 9mm X 1.25, 10mmx 1.25, 10mmx 1.50, 11mmx 1.50, 12mmx 1.50, 12mmx
1.75, 1/8-27 NPT



Cutting Tools

T-Type Tap Wrench



**347-202 50307 TYPE 727
T-HANDLE TAP WRENCH
(0 TO 1/4)**



**347-204 50310 TYPE 727
T-HANDLE TAP WRENCH
(3/16 TO 1/2)**



**347-206 50320 TYPE 727
T-HANDLE TAP WRENCH
(3/16 TO 1/2)**

Tap Wrench Handles



----- OVER-ALL LENGTH 9" -----

**347-208 50347 TYPE 725
PROFESSIONAL QUALITY TAP & REAMER
WRENCH (4 TO 1/2)**



----- OVER-ALL LENGTH 18" -----

**347-210 50350 TYPE 725
PROFESSIONAL QUALITY TAP & REAMER
WRENCH (1/4 TO 3/4)**



----- OVER-ALL LENGTH 29" -----

**347-212 50360 TYPE 725
PROFESSIONAL QUALITY TAP & REAMER
WRENCH (1/2 TO 1 1/8)**

Cutting Tools



Magna-Tap-Plus Hand Taps

Part #	SIZE	Part #	SIZE
347-313	6-40 T	347-333	8-32 T
347-314	6-40 P	347-334	8-32 P
347-315	6-40 B	347-335	8-32 B
347-319	8-36 T	347-336	10-24 T
347-320	8-36 P	347-338	10-24 P
347-321	8-36 B	347-339	10-24 B
347-324	12-28 T	347-340	10-32 T
347-325	12-28 P	347-341	10-32 P
347-326	12-28 B	347-342	10-32 B
347-330	6-32 T	347-343	12-24 T
347-331	6-32 P	347-344	12-24 P
347-332	6-32 B	347-345	12-24 B

Magna-Tap-Plus Hand Taps



Part #	SIZE
347-347	1/4-20 T
347-348	1/4-20 P
347-349	1/4-20 B
347-350	5/16-18 T
347-351	5/16 18-P
347-352	5/16-18 B
347-353	3/8-16 T
347-354	3/8-16 P
347-355	3/8-16 B
347-356	7/16-14 T
347-357	7/16-14 P
347-358	7/16-14 B
347-359	1/2-13 T
347-360	1/2-13 P
347-361	1/2-13 B
347-362	9/16-12 T
347-363	9/16-12 P
347-364	9/16-12 B
347-365	5/8-11 T
347-366	5/8-11 P
347-367	5/8-11 B
347-368	3/4-10 T
347-369	3/4-10 P
347-370	3/4-10 B
347-371	7/8-9 T
347-374	1-8 T

Cutting Tools

Magna-Tap-Plus Hand Taps



Part #	SIZE
347-447	1/4-28 T
347-448	1/4-28 P
347-449	1/4-28 B
347-450	5/16-24 T
347-451	5/16-24 P
347-452	5/16-24 B
347-453	3/8-24 T
347-454	3/8 24 P
347-455	3/8-24 B
347-456	7/16-20 T
347-457	7/16-20 P
347-458	7/16-20 B
347-459	1/2-20 T
347-460	1/2-20 P
347-461	1/2-20 B
347-462	9/16-18 T
347-463	9/16-18 P
347-464	9/16-18 B
347-465	5/8-18 T
347-466	5/8-18 P
347-467	5/8-18 B
347-468	3/4-16 T
347-469	3/4-16 P
347-470	3/4-16 B

Magna-Tap-Plus Hand Pipe Taps

Part #	SIZE
347-720	1/8
347-722	1/4
347-724	3/8
347-726	1/2
347-728	3/4
347-730	1



Magna-Tap-Plus 3 Piece Hand Tap Sets

INCLUDES

- 1 TAPER
- 1 PLUG
- 1 BOTTOM



Part #	SIZE
347-526	10-24
347-528	10-32
347-530	12-24

Part #	SIZE
347-532	1/4-20
347-534	5/16-18
347-536	3/8-16
347-538	7/16-14
347-540	1/2-13
347-542	9/16-12
347-544	5/8-11
347-546	3/4-10

Part #	SIZE
347-632	1/4-28
347-634	5/16-24
347-636	3/8-24
347-638	7/16-20
347-640	1/2-20
347-642	9/16-18
347-644	5/8-18
347-646	3/4-16

Cutting Tools

Magna-Tap-Plus Metric Hand Taps - Plug



Part #	SIZE
347-754	4 - .70 T
347-755	4 - .70 P
347-756	4 - .70 B
347-757	5 - .80 T
347-758	5 - .80 P
347-759	5 - .80 B
347-760	6 - 1.00 T
347-761	6 - 1.00 P
347-762	6 - 1.00 B
347-763	7 - 1.00 T
347-764	7 - 1.00 P
347-765	7 - 1.00 B
347-766	8 - 1.00 T
347-767	8 - 1.00 P
347-768	8 - 1.00 B
347-769	8 - 1.25 T
347-770	8 - 1.25 P
347-771	8 - 1.25 B
347-772	9 - 1.25 P
347-773	9 - 1.00 P
347-774	10 - 1.25 T
347-775	10 - 1.25 P
347-776	10 - 1.25 B
347-777	10 - 1.50 T
347-778	10 - 1.50 P
347-779	10 - 1.50 B
347-780	10 - 1.00 P
347-784	12 - 1.25 T
347-785	12 - 1.25 P
347-786	12 - 1.25 B
347-787	12 - 1.50 T
347-788	12 - 1.50 P
347-789	12 - 1.50 B

347-790	12 - 1.75 T
347-791	12 - 1.75 P
347-792	12 - 1.75 B
347-793	14 - 1.25 P
347-794	14 - 1.50 T
347-795	14 - 1.50 P
347-796	14 - 1.50 B
347-797	14 - 2.00 T
347-798	14 - 2.00 P
347-799	14 - 2.00 B
347-800	16 - 1.50 T
347-801	16 - 1.50 P
347-802	16 - 1.50 B
347-803	16 - 2.00 T
347-804	16 - 2.00 P
347-805	16 - 2.00 B
347-806	18 - 1.50 T
347-807	18 - 1.50 P
347-808	18 - 1.50 B
347-809	18 - 2.00 P
347-810	18 - 2.50 T
347-811	18 - 2.50 P
347-812	18 - 2.50 B
347-813	20 - 1.50 T
347-814	20 - 1.50 P
347-815	20 - 1.50 B
347-816	20 - 2.50 T
347-817	20 - 2.50 P
347-818	20 - 2.50 B
347-819	22 - 1.50 T
347-820	22 - 1.50 P
347-821	22 - 1.50 B
347-822	22 - 2.50 T
347-823	22 - 2.50 P
347-824	22 - 2.50 B
347-825	24 - 2.00 T
347-826	24 - 2.00 P
347-827	24 - 2.00 B
347-828	24 - 3.00 T
347-832	24 - 3.00 P
347-833	24 - 3.00 B

Cutting Tools

Hex Die Handles



----- OVER-ALL LENGTH 8" -----

**347-740 50377 TYPE 728 ECONOMY DIE STOCK
(1" ROUND OR HEX)**



----- OVER-ALL LENGTH 9-1/2" -----

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**347-742 50387 TYPE 729 PROFESSIONAL QUALITY DIE STOCK
(1" ROUND OR HEX)**



----- OVER-ALL LENGTH 13-1/2" -----

**347-744 50390 TYPE 729 PROFESSIONAL QUALITY DIE STOCK
(1-1/2" ROUND, 1-7/16 HEX)**



----- OVER-ALL LENGTH 21-1/2" -----

**347-748 50400 TYPE 729 PROFESSIONAL QUALITY DIE STOCK
(1-7/8" HEX) 49.97**

Cutting Tools



Magna-Cut-Plus Hex Dies

Part #	SIZE	WIDTH ACROSS FLAT	QTY
348-803	6-32	1"	Ea
348-804	8-32	1"	Ea
347-805	10-24	1"	Ea
348-806	10-32	1"	Ea
348-820	1/4-20	1"	Ea
348-822	5/16-18	1"	Ea
348-824	3/8-16	1"	Ea
348-826	7/16-14	1"	Ea
348-828	1/2-13	1"	Ea
348-830	9/16-12	1-7/16"	Ea
348-832	11/16 - 11	1-7/16"	Ea
348-834	5/8-11	1-7/16"	Ea
348-836	3/4-10	1-7/16"	Ea



Magna-Cut-Plus Hex Dies

Part #	SIZE	WIDTH ACROSS FLAT	QTY
348-860	1/4-28	1"	Ea
348-862	5/16-24	1"	Ea
348-864	3/8-24	1"	Ea
348-866	7/16-20	1"	Ea
348-868	1/2-20	1"	Ea
348-870	9/16-18	1-7/16"	Ea
348-872	11/16 - 16	1-7/16"	Ea
348-874	5/8-18	1-7/16"	Ea
348-876	3/4-16	1-7/16"	Ea
348-878	7/8-14	1-7/16"	Ea



Screw and Pipe Extractor

Part #	#	TO REMOVE	L.	DRILL SIZE
353-001	1	3/32 TO 5/32	2	3/32
353-002	2	5/32 TO 7/32	2-1/2	1/8
353-003	3	7/32 TO 9/32	3	3/16
353-004	4	9/32 TO 3/8 (1/8 pipe)	3	1/4
353-005	5	3/8 TO 5/8 (1/4 pipe)	3-3/8	17/64
353-007	7	5/8 TO 7/8 (3/8 pipe)	3-3/4	13/32



Magna-Cut-Plus Left-Hand Drills

Part #	DRILL DIAM.	DECIMAL
353-600	1/16	.0625
353-601	5/64	.0781
353-602	3/32	.0938
353-603	7/64	.1094
353-604	1/8	.1250
353-005	9/64	.1406
353-606	5/32	.1562
353-007	11/64	.1719
353-608	3/16	.1875
353-609	13/64	.2031
353-610	7/32	.2188
353-611	15/64	.2344
353-612	1/4	.2500
353-613	17/64	.2656
353-614	9/32	.2812
353-615	19/64	.2969
353-616	5/16	.3125
353-617	21/64	.3281
353-618	11/32	.3438
353-619	23/64	.3594
353-620	3/8	.3750
353-621	25/64	.3906
353-622	13/32	.4062
353-623	27/64	.4219
353-624	7/16	.4375
353-625	29/64	.4531
353-626	15/32	.4688
353-627	31/64	.4844
353-628	1/2	.5000

Cutting Tools

67 Piece Assortment Super Premium Spiral Point Taps & Jobber Length Drill Dispenser

Part#	Desc.	Qty
347-010	67-Piece Set	EA



Super Premium Left Hand Drills Type 190-AL Magnum Special Hi-Molybdenum tool steel.



Product Description 67-SP Assortment contains:

Super Premium jobber drill sizes:

6 each #36, 29, 25, 21

3 each #7, F & 5/16

2 each #3, I, Q, U, 25/64,
27/64 & 29/64

Super Premium spiral point
plug tap sizes:

3 each 1/4-20

2 each 6-32, 8-32,
10-24, 10-32

1 each 1/4-28, 5/16-18, 5/16-
24, 3/8-16, 3/8-24, 7/16-14,
7/16-20, 1/2-13 & 1/2-20

Includes 3 drawer stocking
cabinet.

Premium Left Hand Drill Sets

Part#	Desc.	Qty
353-580	15-Piece Set 1/16 – 1/2 by 32nd	EA

Part#	Desc.	Qty
353-583	17-Piece Set 1/16-1/4" by 64ths, 5/16-1/2" by 16ths	EA

Part#	Desc.	Qty
353-585	29-Piece Set 1/16-1/2" by 64ths	EA

Cutting Tools

10 pc. Screw & Pipe Extractors With Left-hand drills



Fast and easy stud removal

Left-hand spiral drills often eliminate the need for use of extractor.

Drill loosens bolt stud with counter clockwise rotation.

135° split point for fast penetration and accurate starting without center punch.

Most broken studs are work hardened during the breaking process.

Part#	Desc.	Qty
353-000	10-Piece Set	EA

18 pc. CFIS Magna-Cut Plus Tap & Drill Set



- A NECESSITY FOR ANYONE THAT USES TAPS - Contains tap and matching drill size needed for use with taps.
- AVOIDS COSTLY DOWNTIME - A drill that is even 3/1000ths too small can result in broken taps. A drill bit that is oversize can result in weak threads that are prone to failure.
- Both can result in costly equipment downtime. Selecting the correct drill bit will create stronger threads and avoid breaking the tap in use.

Part#	Desc.	Qty
347-120	USS Standards	Ea
347-122	Metric Sizes	Ea

Cutting Tools

5-Pc Dual Edge Screw Extractors



Part#	Range	Qty
354-250	5-Piece Set	EA
354-251	No 1	EA
354-252	No 2	EA
354-253	No 3	EA
354-254	No 5	EA
354-255	No 5	EA



Removes broken studs, bolts and screws without damaging surrounding threads.

Double-edged tapered flute design cuts deep grooves for a secure grip in broken fasteners.

Non-slipping dual edge construction allows extractors to securely "bite in" and remove both left and right hand fasteners.

Dual-edge extractors grab with either clockwise or counterclockwise rotation.

Hex shank allows used with socket wrenches and extensions, box wrenches, and open end wrenches.

Center-punch pin in the center point of the extractor increases drilling accuracy.

Manufactured from chrome vanadium alloy steel, heat treated and tempered for maximum durability.

Cutting Tools

Heavy Duty Pipe and Stud Extractor



- You are assured that expensive machinery will not be damaged by makeshift methods of removing broken pipes and studs. Extractors work by pulling, rather than reaming, and are designed for strength, durability and easy handling.
- Extractors will save time, money and equipment in machine shops, manufacturing plants, industrial plants, rail and bus lines and countless other places where machine and equipment maintenance plays a key role in day-to-day operations.
- Pipe and Stud Extractors do the job quickly and easily, an important factor when time is critical. These extractors will save you time and money

Part #	Size	QTY
354-550	5 pc	Ea
354-555	10 pc	Ea

Broke Tap Extractor Set



- Remove broken taps and save the threads! Walton Tap Extractors let you remove broken taps without drilling, lasers, damaged threads, scrapped parts or repair inserts.
- The hardened steel fingers of Walton Tap Extractors fit in the flutes of a broken tap to back it out simply and safely. This effective method has been used since 1908. They are available in every tap size, both inch and metric, as handy sets or individual pieces. Our Tap Extractors will fit both NC and NF



STANDARD SETS: Nos. 1, 2, 3
Packed in a 6-compartment plastic case

3-Flute Tap Extractor Set

Part #	QTY
354-500	Ea

4-Flute Replacement Fingers

Part #	Size	QTY
354-520	1/4	Ea
354-522	5/16	Ea
354-524	3/8	Ea

4-Flute Tap Extractor Set

Part #	QTY
354-504	Ea

Cutting Tools

IRWIN Screw Extractor Set, Hex Head, Multi-Spline, 25-Piece (53227)



Part#	Desc.	Qty
354-600	25-Piece Set	EA

Style: 25-pc multi-spline extractor set

- VERSATILE: Remove broken studs, bolts, socket screws and fittings for high torque applications
- GRIPPING POWER: Aggressive left hand spiral design for extra gripping power
- EASY-OUT STYLE: Spiral flutes embed themselves to increase grip as resistance increases
- ETCHED SIZES: Extractor size and recommended drill bit size are etched on each tool
- 25-PIECE SET: Hex head multi-spline extractors from 1/8"-7/8" in heavy-duty carrying case

Item #	Description	Hex Head Size	Bolt Diameter	Recommended Drill Bit Diameter
354-620	1/8"	1/2"	#12	1/8"
354-622	5/32"	1/2"	1/4"	5/32"
354-624	3/16"	1/2"	5/16"	3/16"
354-626	7/32"	1/2"	3/8"	7/32"
354-628	1/4"	1/2"	7/16"	1/4"
354-630	9/32"	1/2"	1/2"	9/32"
354-632	5/16"	1/2"	9/16"	5/16"
354-634	11/32"	1/2"	5/8"	11/32"
354-636	1/8"	1/2"	#12	1/8"
354-638	5/32"	1/2"	1/4"	5/32"
354-640	3/16"	1/2"	5/16"	3/16"
354-642	7/32"	1/2"	3/8"	7/32"
354-644	1/4"	1/2"	7/16"	1/4"
354-646	9/32"	1/2"	1/2"	9/32"
354-648	5/16"	1/2"	9/16"	5/16"
354-650	11/32"	1/2"	5/8"	11/32"
354-652	3/8"	1/2"	11/16"	3/8"
354-654	13/32"	1/2"	3/4"	13/32"
354-656	7/16"	5/8"	13/16"	7/16"
354-658	15/32"	5/8"	7/8"	15/32"
354-660	1/2"	5/8"	15/16"	1/2"
354-662	17/32"	3/4"	1"	17/32"
354-664	9/16"	3/4"	1-1/16"	9/16"
354-666	19/32"	3/4"	1-1/8"	19/32"
354-668	5/8"	3/4"	1-3/16"	5/8"
354-670	21/32"	7/8"	1-1/4"	21/32"
354-672	11/16"	7/8"	1-5/16"	11/16"
354-674	23/32"	7/8"	1-3/8"	23/32"
354-676	3/4"	7/8"	1-7/16"	3/4"
354-678	25/32"	1"	5/32"	1-1/2"
354-680	13/16"	1"	1-9/16"	13/16"
354-682	27/32"	1"	1-5/8"	27/32"
354-684	7/8"	1"	1-11/16"	7/8"

Cutting Tools

Premium Carbide Burrs

Double Cut The most popular burr for ferrous applications.

The flutes are ground in both the left and right hand directions, offering better operator control and rapid stock removal in harder materials.

The double cut geometry reduces the size of the chips and can be used at slower than normal speeds.



Part #	ITEM	QTY
355-025	1/4 X 5/8	Ea
355-027	3/8 X 3/4	Ea
355-029	1/2 X 1	Ea
355-035	3/4 X 1	Ea
355-037	7/8 X 1	Ea
355-039	1" X 1"	Ea



Part #	ITEM	QTY
355-046	1/8 X 7/32	Ea
355-048	3/16 X 9/32	Ea
355-050	1/4 X 3/8	Ea
355-052	3/8 X 5/8	Ea
355-054	1/2 X 7/8	Ea
355-056	5/8 X 1	Ea
355-058	3/4 X 3/4	Ea



Part #	ITEM	QTY
355-070	1/4 X 5/8	Ea
355-072	3/8 X 3/4	Ea
355-074	1/2 X 1	Ea



Part #	ITEM	QTY
355-084	3/16 X 7/32	Ea
355-085	1/4 X 7/32	Ea
355-087	3/8 X 5/16	Ea
355-089	1/2 X 7/16	Ea

Premium Carbide Burrs

Aluma Cut Designed for used on aluminum, non-ferrous metals, soft steel, reinforced plastics and other soft materials.

The burrs are designed with a high flute finish for easy chip flow and fast stock removal and excellent work piece finish.



Part #	ITEM	QTY
355-120	1/4 X 5/8	Ea
355-125	3/8 X 3/4	Ea
355-130	1/2 X 1	Ea
355-135	5/8 X 1	Ea
355-139	3/4 X 1	Ea



Part #	ITEM	QTY
355-150	1/4 X 3/8	Ea
355-155	3/8 X 5/8	Ea
355-160	1/2 X 7/8	Ea
355-162	5/8 X 1	Ea
355-164	3/4 X 1	Ea



Part #	ITEM	QTY
355-180	1/4 X 5/8	Ea
355-185	3/8 X 3/4	Ea
355-190	1/2 X 1	Ea
355-195	5/8 X 1	Ea



Cutting Tools

Part # 355-002 (19669)



Steel Cut Set Includes:

- SA-51 ¼ X 1 X 1/8 Barrel
- SB-51 ¼ X 3/16 X 1/8 Barrel
- SC-51 ¼ X ½ X 1/8 Cylinder
- SD-51, ¼ X ¼ X 1/8 Ball
- SE-51 ¼ X 3/8 X 1/8 Oval
- SF-51 ¼ X ½ X 1/8 Tree
- SG-51 ¼ X ½ X 1/8 Tree Point
- SM-51 ¼ X ½ X 1/8 Cone Point
- SN-51 ¼ X ¼ X 1/8 Inverted Cone

Part # 355-004 (19629)



Steel Cut Set contains:

- SB-1 ¼ X 5/8 X ¼ Barrel
- SB-3 3/8 X ¾ X ¼ Barrel
- SB-5 ½ X 1 X ¼ Barrel
- SC-1 ¼ X 5/8 X ¼ Cylinder
- SC-3 3/8 X ¾ X 1/4 Cylinder
- SC-5 ½ X 1 X ¼ Cylinder
- SF-1 ¼ X 5/8 X ¼ Tree
- SF-3 3/8 X ¾ X ¼ Tree
- SF-5 ½ X 1 X ¼ Tree

Part # 355-006 (19619)



Steel Cut Set contains:

- SA-5 ½ X 1 X ¼ Barrel
- SC-5 ½ X 1 X ¼ Cylinder
- SD-5 ½ X ½ X ¼ Ball
- SE-5 ½ X 7/8 X ¼ Oval
- SG-5 ½ X 1 X ¼ Tree Point
- SH-5 ½ X 1-1/4 X ¼ Tree Semi-Point
- SK-5 ½ X ¼ X ¼ Cone 90*
- SM-5 ½ X 7/8 X ¼ Cone Point

Cutting Tools

Part # 355-008 (19649)



Steel Cut Set contains:

- SA-1 1/4 X 5/8 X 1/4 Barrel
- SA-3 3/8 X 3/4 X 1/4 Barrel
- SA-5 1/2 X 1 X 1/4 Barrel
- SC-1 1/4 X 5/8 X 1/4 Cylinder
- SC-3 3/8 X 3/4 X 1/4 Cylinder
- SC-5 1/2 X 1 X 1/4 Cylinder
- SF-1 1/4 X 5/8 X 1/4 Tree
- SF-3 3/8 X 3/4 X 1/4 Tree
- SF-5 1/2 X 1 X 1/4 Tree

Part # 355-010 (19609)



Steel Cut Set contains:

- SB-5 1/2 X 1 X 1/4 Barrel
- SC-5 1/2 X 1 X 1/4 Cylinder
- SD-5 1/2 X 1/2 X 1/4 Ball
- SF-5 1/2 X 1 X 1/4 Tree
- SG-5 1/2 X 1 X 1/4 Tree Point
- SH-5 1/2 X 1-1/4 X 1/4 Tree Semi-Point
- SJ-5 1/2 X 7/16 X 1/4 Cone 60*
- SK-5 1/2 X 1/4 X 1/4 Cone 90*

Part # 355-012 (19639)



Steel Cut Set contains:

- SB-1 1/4 X 5/8 X 1/4 Barrel
- SB-3 3/8 X 3/4 X 1/4 Barrel
- SB-5 1/2 X 1 X 1/4 Barrel
- SD-1 1/4 X 1/4 X 1/4 Ball
- SD-3 3/8 X 3/8 X 1/4 Ball
- SD-5 1/2 X 1/2 X 1/4 Ball
- SE-1 1/4 X 3/8 X 1/4 Oval
- SE-3 3/8 X 5/8 X 1/4 Oval
- SE-5 1/2 X 7/8 X 1/4 Oval

Cutting Tools

Air Saw Blades



Features & Benefits:

- Fine teeth for cutting thin metal
 - Used mostly for auto body, muffler shops, or other metal fabricating shops
- Applications Thin sheet metal, automotive, muffler shops, metal fabricating

Part #	TEETH	LENGTH	QTY	RECOMENDED USES
356-490	24	3"	10	METAL CUT
356-494	32	3"	10	METAL CUT

Bosch Blades



• Features & Benefits:

- For cutting ferrous and non-ferrous metals.
- Milled and set teeth, better clearance while cutting metal
- Larger tooth (6, 8 tip) are more efficient cutting in hard board, wood and other wood composites.
- Applications Machinable metal, wood, nail-embedded wood, composites, plastic, rubber

Part #	TEETH	LENGTH	QTY	RECOMENDED USES
356-510	12	3"	10	METAL CUT
356-514	18	3"	10	METAL CUT
356-518	24	3"	10	METAL CUT

Saber Blades



• Features & Benefits:

- For cutting ferrous and non-ferrous metals.
- Milled and set teeth, better clearance while cutting metal
- Larger tooth (6, 8 tip) are more efficient cutting in hard board, wood and other wood composites.

Applications Machinable metal, wood, nail-embedded wood, composites, plastic, rubber

Part #	TEETH	LENGTH	QTY	RECOMENDED USES
356-524	24	3-1/8"	10	1/16" STEEL AND UNDER, THIN WALL TUBING, FORMICA
356-528	14	3-1/8"	10	1/8" TO 1/4" STEEL, NONFERROUS ALUMINUM, FIBERGLASS, PLASTIC

Part #	TEETH	LENGTH	QTY	RECOMENDED USES
356-532	24	1-3/4"	10	THIN SHEET STEEL, THIN WALL TUBING, AND SCROLL WORK
356-536	18	3"	10	1/16" TO 1/8" STEEL, CONDUIT, PLASTIC, TUBING ETC.

Part #	TEETH	LENGTH	QTY	RECOMENDED USES
356-550	24	3"	10	THIN SHEET METAL, SCROLL CUTTING
356-554	14	3-5/8"	10	HEAVY GUAGE METAL, FIBERGLASS, MASONITE, SCROLL CUTTING

Cutting Tools

Saber Blades



- Features & Benefits Available in .035" thickness for flexibility in tight spaces and in .050" thickness for increased rigidity and heavier feed pressure.
- Straight and variable tooth pitch which provide speed in cut and easier feed in wood.
- Reinforced tooth design with compound relief provides high impact resistance.
- More aggressive cutting with positive rake on .050" x 6 TPI blades.
- Bi-metal construction for long cutting life and heat and wear resistant.
- Tapered blade body best for plunge cutting.

Part #	TEETH	LENGTH	QTY	RECOMENDED USES
356-562	18	6"	5	HEAVY GAUGE SHEET METAL, CONDUIT PIPE, TUBING, THIN FIBERGLASS
356-570	14/10	8"	5	HEAVY GAUGE METAL, COMPOSIT, MASONITE, WOOD ETC
356-572	18	9"	5	
356-574	14/10	12"	5	
356-576	18	12"	5	FOR METALT HEAVIER THAN 1/8", BAR STOCK, ANGLES, ETC, ALSO RUBBER, MASONITE, FIBERGLASS, ETC.
356-578	14	6"	5	

FOR WOOD AND NAIL EMBED WOODS, ALL COMPOSITION MATERIALS, NON-FERROUS METALS

Part #	TEETH	LENGTH	QTY
356-588	6	6"	5

GENERAL ROUGHING-IN WORK IN WOOD AND NAIL-EMBEDDED WOODS. FAST CUTTING

Part #	TEETH	LENGTH	QTY
356-592	6	9"	5
356-596	6	12"	5

Fire and Rescue Saber Blades



- Features & Benefits Available in .062" thickness provides minimum deflection for more stable cutting in wider cuts.
- Available in 7/8" blade for increased rigidity and heavier feed pressure.
- Straight tooth pitch provides quick and more efficient cutting in multiple wall applications.
- Optimized set pattern to reduce vibration, operator fatigue, and chance for blade binding in cut.
- Bi-metal construction for long cutting life and heat and wear resistant.

Applications Fire & rescue extrication, demolition



Part #	TEETH	LENGTH	QTY
356-702	10	6"	5
356-710	14	6"	5
356-704	10	9"	5
356-712	14	9"	5
356-706	10	12"	2
356-714	14	12"	2

Cutting Tools

Hacksaw Frame



Part #	QTY
356-730	Ea

Hacksaw Blades



Part #	SIZE	QTY
356-755	12" X 24T	Ea

Industrial Hole Saw Kit



Part #	QTY
358-101	Ea

Bi-Metal Hole Saw Maintenance Kit 13 Pieces Includes:
Hole Saws: 3/4, 7/8, 1 1/8, 1 3/8, 1 1/2, 1 3/4, 2, 2 1/4,
2 1/2" Arbors: M24K, M44, M45P, and 12" extension



Part #	QTY
358-102	Ea

Bi-Metal Hole Saw Maintenance Kit 18 Pieces Includes:
20, 25 mm, 1.1/8", 1.1/2", 1.3/4", 2", 2.1/4", 2.1/2", 3",
3.1/4", 3.5/8", 3.3/4", 4.1/4", 4.1/2". Also M24K, M44,
M45P arbors and 12" extension.

Professional Hole Saw Kit



Part #	QTY
358-104	Ea

Includes
25 pc. Professional Tradesman Kit

Specifications

Cover a broad range of common industrial maintenance, plumbing and electrical jobs on pipe and conduit through 4-1/2"(114mm).

Saws

(1 each): 3/4"(19mm), 7/8"(22mm), 1"(25mm), 1-1/8"(29mm), 1-3/8"(35mm), 1-1/2"(38mm), 1-3/4"(44mm), 2"(51mm), 2-1/8"(54mm), 2-1/4"(57mm), 2-1/2"(64mm), 2-11/16"(68mm), 3"(76mm), 3-1/4"(83mm), 3-3/8"(86mm), 3-5/8"(92mm), 3-3/4"(95mm), 4-1/8"(105mm), 4-1/2"(114mm), 4-3/4"(121mm).

Arbors (1 each): MA34, MA45PS.

Pilot Drills (2 each): MAPD301. Extension (1): 12"

Cutting Tools

Bi-Metal Hole Saws



Part #	SIZE	FIT SAWS
358-122	1/4" ROUND	9/16 – 1-3/16
358-125	7/16 HEX	9/16 – 1-3/16
358-127	7/16 HEX	1-1/4 – 6"
358-105	1/4 x 3-1/16 DRILL	Ea
358-110	1/4 x 4-5/16 DRILL	Ea



Part #	SIZE
358-136	5/8
358-138	11/16
358-140	3/4
358-144	7/8
358-146	15/16
358-148	1
358-149	1-1/16
358-152	1-1/8
358-156	1-1/4
358-160	1-5/16
358-164	1-3/8
358-168	1-1/2
358-172	1-5/8
358-176	1-3/4
358-180	1-7/8
358-184	2
358-186	2-1/16

Part #	SIZE
358-188	2-1/8
358-192	2-1/4
358-196	2-3/8
358-200	2-1/2
358-201	2-5/8
358-204	2-3/4
358-206	2-7/8
358-208	3
358-210	3-1/8
358-211	3-1/4
358-212	3-1/2
358-214	3-3/4
358-216	4
358-218	4-1/8
358-220	4-1/2
358-224	4-3/4
358-226	5
358-230	5-1/4



BI-METAL HOLE SAWS

FEATURES & BENEFITS

PATENT PENDING TOOTH SET DESIGN - Optimized to Remove Material Faster

NEW CAP - Reduces Runout and Vibration

PREMIUM M42 HIGH SPEED STEEL CUTTING EDGE, 8% COBALT - Over 2X the Life of Our AV Model

CUTTING DEPTH - 1-15/16" (49,2 mm) HEAVY DUTY .050 SIDE WALL - For Greater Stability

NEW SIDE SLOT - Increased Leverage for Faster, Easier Slug Removal
NEW EXTERIOR RED COATING - Reduces Side Wall Friction for Efficient Cutting



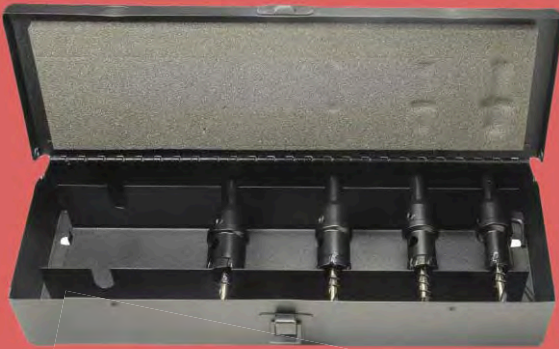
Cutting Tools

Carbide Tip Hole Cutter



Type CHC-AG Cuts up to 3/16" — Thin Material

Part #	SIZE
358-503	HC-4A (5/8, 3/4, 7/8, 1")
358-504	HC-4B (11/16, 13/16, 15/16, 1-1/16)
358-505	HC-5C (7/8, 1-1/8, 1-3/8, 1-3/4, 2")



Type CHD-AG Cuts up to 1" — Thick Material

Part #	SIZE
358-506	HCD-4A (5/8, 3/4, 7/8, 1")
358-507	HCD-4B (11/16, 13/16, 15/16, 1-1/16)
358-508	HCD-5C (7/8, 1-1/8, 1-3/8, 1-3/4, 2")

Time is Money



5/8" S&D 1/2" Shank Drill

Carbide Tip Hole Cutter

6:00

1:18

Rough, Incomplete Hole

Smooth, Complete Hole

Compare 5/8" S & D 1/2" Shank Drill against a 5/8" Carbide Tip Hole Cutter on 5/16" Frame Steel to demonstrate the superior cutting performance and speed of the Carbide Tip. The results tell the story. After six exhausting minutes of drilling, the S&D drill had managed to penetrate the steel plate approximately 60% of the way. At this rate, the S&D drill would have needed over 10 minutes to complete the task.

The Carbide Tip Hole Cutter, however, powered through the Frame Steel completely in just one minute and 18 seconds, leaving a smooth, complete hole perfect for a 5/8" cap screw.

Carbide Tip Hole Cutter—the choice when time is money.

Cutting Tools

Carbide Tip Hole Cutter



**Carbide Tip Hole Saws
CUTS TO 1"**



**Carbide Tip Hole Saws
CUTS TO 3/16"**

Part #	SIZE
358-520	Drill
358-523	Spring
358-547	9/16
358-549	5/8
358-552	11/16
358-556	3/4
358-558	13/16
358-560	7/8
358-561	15/16
358-562	1"
358-563	1-1/16
358-564	1-1/8
358-566	1-3/16
358-567	1-1/4
358-568	1-5/16
358-569	1-3/8
358-570	1-7/16
358-572	1-1/2
358-574	1-9/16
358-580	1-5/8
358-582	1-3/4
358-585	2"
358-606	2-1/4
358-604	2-5/16
358-608	2-3/8
358-610	2-7/16
358-614	2-1/2
358-618	2-5/8
358-622	2-3/4
358-626	2-7/8

Part #	SIZE
358-722	Drill
358-724	Spring
358-747	9/16
358-749	5/8
358-752	11/16
358-756	3/4
358-758	13/16
358-760	7/8
358-761	15/16
358-762	1"
358-763	1-1/16
358-764	1-1/8
358-766	1-3/16
358-767	1-1/4
358-768	1-5/16
358-769	1-3/8
358-770	1-7/16
358-772	1-1/2
358-774	1-9/16
358-780	1-5/8
358-782	1-3/4
358-785	2"
358-806	2-1/4
358-804	2-5/16
358-808	2-3/8
358-810	2-7/16
358-814	2-1/2
358-818	2-5/8
358-822	2-3/4
358-826	2-7/8



HEAVY-DUTY HOLE MAKERS - cut sheet metal, steel, stainless steel, iron, cast iron, aluminum, copper, alloys, plate, pipe, tubing, FRP, and plastics.

EXTREMELY FAST CUTTING - cuts up to 10 times faster than a drill bit*.

EXTREMELY LONG LIFE - Lasts up to 10 times longer than heavy-duty drill bits, and 500 times longer than hole saws.

CUTS MATERIALS UP TO 1" THICK - handles tough structural steel, heavy-duty truck frames, and other demanding applications.

SELF-CENTERING PILOT DRILL - just place the cutter where you need it and begin drilling - no wandering on the work piece.

ULTRA-HARD CARBIDE TEETH - provide extremely fast cutting and very long life.

TOOL STEEL BODY & SHANK - extremely tough and breakage resistant.

EASY-TO-CONTROL - even large diameter holes can be cut quickly and easily with a hand drill.

SUPERIOR HOLE QUALITY - produces clean, burr-free, perfectly round holes.

EASY-TO-USE - can be used in lighter, lower power tools than twist drills.

AUTOMATIC SLUG EJECTION - ejects the cut slug when the hole is completed.

FLATTED SHANKS - no slippage in the chuck.

TRUCK/TRAILER APPLICATIONS:

2-3/8" cutter is ideal for 2" diameter lamps

2-7/8" cutter is ideal for 7 way trailer plugs

4-1/2" cutter is ideal for 4" diameter lamps

Cutting Tools

Rotacut Carbide Tipped Hole Saws

**CFIS Part # 359-200
(Hougen 11075)**

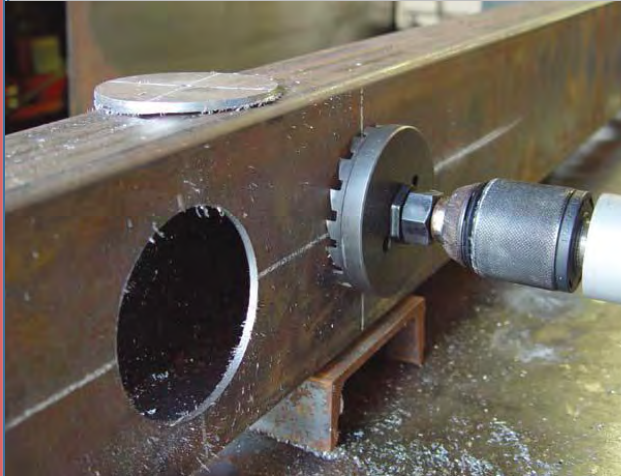


Includes: 11088 Arbor Assembly, Center Punch, extra Pilot, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 3/4 and case.

**CFIS Part # 359-206
(Hougen 11078)**



Includes: 11005 Arbor Assembly, Center Punch, extra Pilot, 7/8, 1, 1-1/8, 1-1/4, 1-3/8 and 1-1/2-inch, with a 1/2-inch depth of cut.



RotaCut's are far superior to twist drills and hole saws.

They cut 3x faster and last 10x longer, plus there's no comparison in quality.

Use with hand held drills with a 3/8" or 1/2" chuck for holes in sheet metal, plate materials, and plastics up to 1/2" thick.

Ideal for: Electrical, Piping, Conduit Work, Sheet metal Fabrication, Spot-weld Removal, Maintenance Installations, HVAC, PHCC, Automotive Aftermarket and many others...

Part #	SIZE
359-230	5/16
359-232	3/8
359-234	7/16
359-236	1/2
359-238	9/16
359-240	5/8
359-242	3/4

Part #	SIZE
359-250	7/8
359-252	1"
359-254	1-1/8
359-258	1-1/4
359-262	1-3/8
359-266	1-1/2

Abrasives

Columbus Fleet Industrial Supply

Canton Fleet Industrial Supply

Canton First Aid & Safety



THE 3 MOST COMMON GRAINS

1.Ceramic Alumina – Ceramic abrasives provide the longest life & fastest cut rate of all coated abrasives. They are the newest grain innovation and represent the ultimate in performance, providing an aggressive, consistent cut under moderate to high pressure. Ceramic is usually red or orange in color. Used primarily on metal applications.

2.Zirconia Alumina– Zirconia Alumina is commonly referred to as Zirc or Zirconium. Zirc is ideal for coarse to medium grit applications on metal (best choice for abusive applications). Zirc is usually green or blue in color. Works best under high pressure (which is required for the grain to fracture exposing new sharp edges). It has large fracture planes and it self-sharpens as it cuts.

3.Aluminum Oxide– Aluminum Oxide is the most common & least expensive. Good starting point for most metal and wood applications. Aluminum Oxide is usually brown or reddish in color, but can be blue, green or yellow (which usually indicates the presence of a grinding aid/lubricant). It is durable with tough cutting edges, but it dulls during use.

Zirc vs. Ceramic

1.Both grains are considered “Hi-Performance”. Both will remove metal faster and last longer than all aluminum oxide or silicon carbide products. These Hi-Performance grains have the ability to constantly sharpen as they wear, providing fast cutting action through their usable life. Used primarily on metal applications

2.Zirc or Zirconium. They are ideal for coarse to medium grit applications on metal (best choice for abusive applications).

- Works best under high pressure (which is required for the grain to fracture exposing new sharp edges).
- Zirc was the first innovation in self-sharpening grain technology. Zirc grain has “large fracture planes”, which means a large portion of the grains flakes away as they sharpen, limiting the number of times the grain can sharpen itself.

Ceramic abrasives, Are the newest innovation in grain technology. They provide the longest life and fastest cut rate of all coated abrasives.

CERAMIC
Ultimate in performance
and long life with high
tolerance to
high pressure and high
temperatures.
BEST VALUE FOR YOUR
DOLLAR



Abrasives



Felt Polishing & Buffing Quick Change Discs

359-810

2"

BUFFING

WHITE

10

About this item

- **AUSTRALIAN WOOL** - Benchmark Abrasives flap discs are made with premium Australian wool/felt.
- **PRECISION POLISHING** - The compressed wool is used because of its natural durability and versatility. Use with a rouge, polish or paste to remove light scratches and polish your work piece.
- **VERSATILITY** - Used in conjunction with a polishing paste, our felt quick change discs are used for polishing stainless steel, aluminum, automotive work, non-ferrous metals and stone.
- **Max RPM = 22,000**
- **TYPE "R" BACKING** - Our quick change discs are made for use on a die grinder, drill or air grinder and should be only be used with the proper mandrel. 2" discs should be used with a 2inch mandrel.

Abrasives



2" Quick Change Surface Preparation Discs (Grey - Super Fine)

359-820	2"	BUFFING	GRAY	10
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- QUANTITY:** Pack consists of 10 grinding discs for surface preparation and sanding applications.
- SILICON CARBIDE GRAIN:** These discs are made with silicon carbide grain and are designed for light finishes on metal, wood, composites, and satin finishing aluminum.
- HIGH PERFORMANCE** - The discs are long-lasting with high abrasive resistance.
- DIMENSIONS:** The 2" quick change discs are economical to use.
- SAFETY:** Wear all applicable safety gear when using these discs (eyes/ears/face/hands/body/etc).



2" Quick Change Surface Preparation Discs (Maroon - Fine)

359-825	2"	BUFFING	MAROON	10
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- QUANTITY:** Pack consists of 10 grinding discs for surface preparation and sanding applications.
- ALUMINUM OXIDE GRAIN:** These discs are made with aluminum oxide grain and are designed for cleaning, blending, and finishing stainless steel.
- HIGH PERFORMANCE** - The discs are long-lasting with high abrasive resistance.
- DIMENSIONS:** The 2" quick change discs are economical to use.
- SAFETY:** Wear all applicable safety gear when using these discs (eyes/ears/face/hands/body/etc).

Abrasives

Surface Conditioning Disc



Part #	SIZE	GRIT	COLOR	QT
360-020 360-021	2"	FINE	BLUE	10 25
360-023 360-024	2"	MEDIUM	MAROON	10 25
360-026 360-027	2"	COARSE	BROWN	10 25

Part #	SIZE	GRIT	COLOR	QT
360-032 360-033	3"	FINE	BLUE	10 25
360-034 360-035	3"	MEDIUM	MAROON	10 25
360-036 360-037	3"	COARSE	BROWN	10 25

Arbor

Part #	SIZE	QT
360-002	2"	Ea
360-003	3"	Ea
360-004	4"	Ea



• Product Description

- Aluminum oxide grain Surface Conditioning Quick Change Discs are designed for light grinding, blending, cleaning, gasket removal, and finishing.

• Applications

- A-CRS (Brown) – Light grinding, stock removal, weld splatter, and scale removal
- A-MED (Red) – Remove scratches, pits, and corrosion
- A-VFINE (Blue) – Blending and finishing

• Metals

- Stainless Steel
- Aluminum
- Sheet Metal
- Exotic Metals



Abrasives

3-M SURFACE CONDITIONING DISC



• Product Description

- Scotch-Brite Bristle Disc are molded, abrasive filled bristle disc which is used for automotive use on aluminum and metal. Use this product instead of a wire brush for many tasks including: deburring, blending, polishing, finishing, cleaning, coating, defect removal, scratch removal and rust removal. The product bristle disc is measured using its outside diameter which is 2 inches and 3 inches. It's quick change attachment makes it quick and easy to mount it to the tool or pad. The product rotates and spins, just like other products in its category, at the maximum speed possible. The bristle disc can run at a maximum speed of 25000 RPM. Quantity: ea.

- Scotch-Brite Bristle Discs & Brushes last longer than most abrasives and provide the same finish and cut throughout their life.

- An operator quickly and easily achieves a quality, consistent finish with light pressure.

- For productivity in automated procedures, there are fewer changeovers.

- These fast running discs efficiently clean or strip many substances from metal surfaces without damaging the work piece.

- Consistent supply of abrasives

Part #	SIZE	GRIT	COLOR	QT
360-088	2"	FINE	WHITE	EA
360-090	2"	MEDIUM	YELLOW	EA
360-092	2"	COARSE	GREEN	EA

Part #	SIZE	GRIT	COLOR	QT
360-094	3"	FINE	WHITE	EA
360-096	3"	MEDIUM	YELLOW	EA
360-098	3"	COARSE	GREEN	EA

Abrasives

Sanding

Disc



Part #	SIZE	GRIT	QT
360-099	2"	100	10
360-100			25
360-101	2"	80	10
360-102			25
360-103	2"	60	10
360-104			25
360-105	2"	50	10
360-106			25
360-107	2"	40	10
360-108			25
360-109	2"	36	10
360-110			25
360-111	2"	24	10
360-112			25

Part #	SIZE	GRIT	QT
360-131	3"	80	10
360-132			25
360-134	3"	60	10
360-135			25
360-136	3"	50	10
360-137			25
360-138	3"	40	10
360-139			25
360-140	3"	36	10
360-141			25
360-142	3"	24	10
360-143			25



- Features and Benefits
- Coated abrasives can be used for most applications, from grinding to polishing. They consist of a thin layer of abrasive adhered to fiber, paper, cloth or rubber. Coated discs are normally used on angle grinders.
- Aluminum oxide is the most commonly used abrasive. Best-suited for general purpose deburring and blending, it is tough, economical and fracture resistant. Commonly used on ferrous alloys, high-tensile materials and wood.
- Type R discs feature roll-on/off fasteners.

Ceramic Sanding Disc



- **HIGH PERFORMANCE CERAMIC GRAIN** - Most aggressive and top performing grain for fast cuts and long life in demanding industrial grinding applications.
- **CUTTING SURFACE REGENERATION** - Tough ceramic grain slowly wears away, exposing fresh, sharp cutting surfaces.
- **PSA DESIGN** - Pressure sensitive adhesive quickly allows discs to adhere to backing plates; removes cleanly without tools or leaving a residue.
- **EXTENDED DISC LIFE** - Unique coating over the ceramic cutting layer provides lubricity and dissipates heat for extended grinding life.
- **GRINDS DIFFICULT MATERIALS** - Ideal for grinding stainless steel, tool steel, and other hard-to-grind metal alloys.
- **MADE IN THE U.S.A.**

Part #	SIZE	GRIT	QT
360-210	2"	36	25
360-212	2"	24	25

Part #	SIZE	GRIT	QT
360-220	3"	36	25
360-222	3"	24	25

Abrasives

SURFACE CONDITIONING DISC



- **Product features**
- Outperforms steel wool for cleaning, blending, prepping and finishing on metal, wood, plastics and composites
- Performs like steel wool without shredding, rusting, or splintering
- Pad conforms to irregular surfaces and gets into corners without losing performance
- Cleans metal, composites, and other materials without altering the base material
- Load and heat resistant non-woven web provides consistent finishing over the life of the pad
- **Product description**
- Scotch-Brite hand pad combines durability for long life, flexibility for reaching tight areas, and can be used in place of steel wool for conditioning metal surfaces and paint prep. Unlike fine steel wool, Scotch-Brite pads will not shred during use, rust after use, or leave fine metal splinters.

Part #	WIDTH	LENGTH	COLOR	QT
360-535	6 x 9	ULTRA FINE	WHITE (STAINLESS)	10
360-540	6 X 9	FINE	BLACK (STAINLESS)	10
360-545	6 X 9	FINE	GRAY	10
360-550	6 X 9	MEDIUM	GREEN	10
360-555	6 X 9	COARSE	MAROON	10
360-560	6 X 9	HEAVY DUTY	TAN	10

Abrasives

Flap Disc Aluminum Performance



Alugrind

Revolutionary solution for grinding and finishing aluminum and soft metals. The symmetric net structure enables an efficient cut for consistent stock removal and reduces the number of steps used for finishing aluminum. Lower pressure reduces operator fatigue. Long life of these discs results in fewer discs needed to complete the job. This also saves time and money due to fewer changeovers.

The biggest advantage of the alugrind disc is that they provide you with clog free non-loading grinding and generate very little heat due to heat dissipation that can occur

during aggressive grinding and the melting of work piece surface is nonexistent.

Part #	SIZE	ARBOR	TYPE	GRIT	QTY
361-126	4-1/2	5/8-11	FLAT	80	Ea
361-130	4-1/2	5/8-11	FLAT	60	Ea
361-134	4-1/2	5/8-11	FLAT	40	Ea

Abrasives

Ceramic Flap Disc Steel, Stainless Aluminum



- **PREMIUM CRIMSON CERAMIC GRAIN** - New engineered crystalline structure is ideal for quickly and effectively grinding and finishing tough to grind alloys.
- **SUPERIOR PERFORMANCE ON TOUGH ALLOYS** - Stainless Steel, Cobalt & Inconel, Titanium Alloys, Super-Alloys.
- **HIGH CUT RATE** - Aggressive grain has fast stock removal that noticeably outperforms aluminum oxide and zirconia in difficult grinding applications.
- **30% MORE PRODUCTIVITY** - Higher cut rate increases productivity for faster work completion and decreased worker fatigue.
- **SELF SHARPENING ABRASIVE** - High performance ceramic grain regenerates as it is used for consistent performance throughout the lifetime of the disc.
- **LONG LIFE** - substantially increased life and runtime.

- **COOLER RUNNING** - Designed to work with heat sensitive materials and resists leaving scorch/heat marks on grinding substrates.
- **SAFE IN USE** - Flap discs are safer in use when compared to grinding wheels as they will not break or fracture when dropped or abused.

**High
Performance
Self-Sharpening
Grain**

Part #	SIZE	ARBOR	TYPE	GRIT	QTY
361-220	4-1/2	5/8-11	FLAT	80	Ea
361-224	4-1/2	5/8-11	FLAT	60	Ea
361-228	4-1/2	5/8-11	FLAT	40	Ea

Part #	SIZE	ARBOR	TYPE	GRIT	QTY
361-242	5"	5/8-11	FLAT	80	Ea
361-246	5"	5/8-11	FLAT	60	Ea
361-250	5"	5/8-11	FLAT	40	Ea

Part #	SIZE	ARBOR	TYPE	GRIT	QTY
361-254	6"	5/8-11	FLAT	80	Ea
361-256	6"	5/8-11	FLAT	60	Ea
361-258	6"	5/8-11	FLAT	40	Ea

Abrasives

Ceramic Flap Disc High Density Extra Thick Steel, Stainless Aluminum

These discs perform 50% faster than standard flap discs (50% faster vs XP) and provides 2.5X longer life than the standard flap disc.



Part #	SIZE	ARBOR	TYPE	GRIT	QTY
361-270	4-1/2	5/8-11	FLAT	80	Ea
361-272	4-1/2	5/8-11	FLAT	60	Ea
361-274	4-1/2	5/8-11	FLAT	40	Ea



- PREMIUM CRIMSON CERAMIC GRAIN** - New engineered crystalline structure is ideal for quickly and effectively grinding and finishing tough to grind alloys.

- SUPERIOR PERFORMANCE ON TOUGH ALLOYS** - Stainless Steel, Cobalt & Inconel, Titanium Alloys, Super-Alloys.

- HIGH CUT RATE** - Aggressive grain has fast stock removal that noticeably outperforms aluminum oxide and zirconia in difficult grinding applications.

- 50% MORE PRODUCTIVITY** - Higher cut rate increases productivity for faster work completion and decreased worker fatigue.

- SELF SHARPENING ABRASIVE** - High performance ceramic grain regenerates as it is used for consistent performance throughout the lifetime of the disc.

- EXTRA THICK - LONGER LIFE** - 60% thicker than conventional flap discs for substantially increased life and runtime.

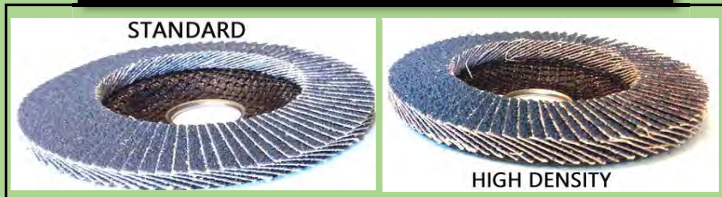
- COOLER RUNNING** - Designed to work with heat sensitive materials and resists leaving scorch/heat marks on grinding substrates.

- SAFE IN USE** - Flap discs are safer in use when compared to grinding wheels as they will not break or fracture when dropped or abused.

High Performance Self-Sharpening Grain

Abrasives

Zirconia Flap Disc Steel - Stainless



Part #	SIZE	ARBOR	TYPE	GRIT	QTY
361-302	4-1/2	7/8 HOLE	FLAT	120	Ea
361-304	4-1/2	7/8 HOLE	FLAT	80	Ea
361-306	4-1/2	7/8 HOLE	FLAT	60	Ea
361-310	4-1/2	7/8 HOLE	FLAT	40	Ea
361-311	4-1/2	7/8 HOLE	FLAT	36	Ea

Part #	SIZE	ARBOR	TYPE	GRIT	QTY
361-312	4-1/2	5/8-11	FLAT	120	Ea
361-314	4-1/2	5/8-11	FLAT	80	Ea
361-316	4-1/2	5/8-11	FLAT	60	Ea
361-320	4-1/2	5/8-11	FLAT	40	Ea

Part #	SIZE	ARBOR	TYPE	GRIT	QTY
361-360	4-1/2	7/8 HOLE	29	40	Ea

Part #	SIZE	ARBOR	TYPE	GRIT	QTY
361-380	6"	7/8 HOLE	FLAT	60	Ea

Part #	SIZE	ARBOR	TYPE	GRIT	QTY
361-389	7"	7/8 HOLE	FLAT	60	Ea



**High Density
Extra Thick
40% more
material than
standard
flap disc**

CFIS Max Force flap discs utilize a zirconia abrasive - a sharp and long-life abrasive grain known for excellent material removal. Max Force flap discs are offered in two styles: Max Force HD using a high-density construction for a thicker, more cushioned contact with the surface, and Max Force - the standard profile flap disc construction.

Main application - high performance grinding and finishing of all metals

Excellent on stainless, mild steel, welds, and de-burring

High density profile
Outlasts standard density discs by 50%

Zirconia grain outlasts aluminum oxide up to 3-to-1

Abrasives

Flap Disc Aluminum Performance



Alugrind

Revolutionary solution for grinding and finishing aluminum and soft metals. The symmetric net structure enables an efficient cut for consistent stock removal and reduces the number of steps used for finishing aluminum. Lower pressure reduces operator fatigue. Long life of these discs results in fewer discs needed to complete the job. This also saves time and money due to fewer changeovers.

The biggest advantage of the alugrind disc is that they provide you with clog free non-loading grinding and generate very little heat due to heat dissipation that can occur

during aggressive grinding and the melting of work piece surface is nonexistent.

Part #	SIZE	GRIT	QTY
361-454	2"	40	Ea
361-456	2"	60	Ea
361-458	2"	80	Ea

Part #	SIZE	GRIT	QTY
361-472	3"	40	Ea
361-474	3"	60	Ea
361-476	3"	80	Ea

Abrasives

Mini Flap Quick Change Disc



CFIS Zirconia grain Mini Flap Quick Change Discs are designed for controlled grinding, blending, and finishing.

Metals

Stainless steel
Aluminum
Mild steel

Features

Unique flap design for flexibility
Small diameter for access into small areas
Quick lock system for easy product changeover
Long life compared with resin fiber discs

Applications

Blending and finishing
Removing machine tool marks
General cleaning
Contouring

Part #	SIZE	GRIT	QTY
361-410	2"	36	Ea
361-412	2"	40	Ea
361-414	2"	60	Ea
361-416	2"	80	Ea
361-418	2"	120	Ea

Part #	SIZE	GRIT	QTY
361-420	3"	36	Ea
361-425	3"	40	Ea
361-430	3"	60	Ea
361-435	3"	80	Ea
361-440	3"	120	Ea

Abrasives

CERAMIC Mini Flap Quick Change Disc



EXTREME PERFORMANCE - Proprietary ceramic matrix abrasive grain provides exceptional service life; outperforming other high performance ceramic flap discs.
TYPE "R" MOUNT - Provides fast and reliable "1/2 turn-on, 1/2 turn-off" attachment of mini flap discs.

AGGRESSIVE GRINDING - Lay-flat horizontal flaps combined with an extremely rigid backing plate give aggressive grinding plus the service life of a jumbo-sized flap disc.

HIGH SURFACE AREA DESIGN - The horizontal flap configuration provides the same abrasive surface area as a conventional jumbo (extra thick) flap disc, providing long service life.

SUPERIOR PRODUCTIVITY - Higher grinding rate offers up to 33% more productivity than other ceramic grinding discs, providing faster work completion and decreased user fatigue.

HIGH CUT RATE - Offers superior performance on tough alloys including Stainless Steel, Cobalt, Inconel, Titanium Alloys and Super-Alloys.

CONSISTENT PERFORMANCE - Self-sharpening high performance ceramic matrix abrasive grain regenerates as it is used, exposing fresh, sharp abrasive grain for consistent performance throughout the life of the disc.

COOLER RUNNING - Designed to work with heat sensitive materials and resists leaving scorch/heat marks on grinding substrates.

High Performance Self-Sharpener Grain

Part #	SIZE	GRIT	QTY
361-200	3"	40	Ea
361-202	3"	60	Ea
361-204	3"	80	Ea
361-206	3"	120	Ea

Surface Wheels

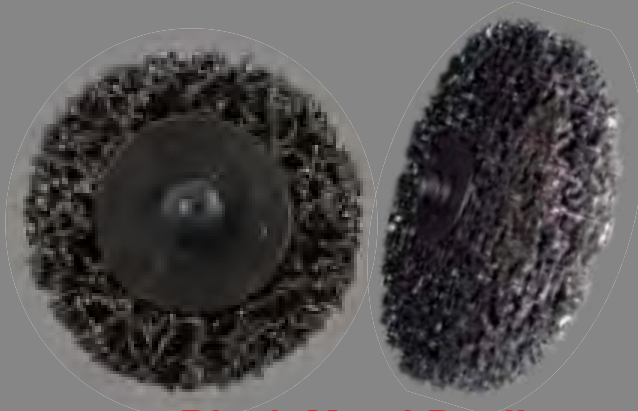
- CFIS MAROON STRIP DISC



Scarlet Metal Devils

Part #	GRIT	SIZE	QT
361-502	X-Coarse	2"	2
361-504	X-Coarse	3"	2
361-506	X-Coarse	4"	2

- CFIS BLACK STRIP DISC



Black Metal Devils

Part #	GRIT	SIZE	QT
361-510	Coarse	2"	2
361-514	Coarse	3"	2
361-516	Coarse	4"	2



Introducing The New

METAL DEVILS

- **ULTIMATE PERFORMANCE** – Removes heavy rust and corrosion, paint and other thick coatings
- **EXTREME LONG LIFE** – Lasts up to 4 times as long as conventional high performance stripping discs
- **AGGRESSIVE SURFACE STRIPPING** – Proprietary blend of durable ceramic alumina grain and an advanced resin bond system rapidly removes up to twice as much surface contamination as conventional stripping discs
- **FLEXIBLE & CONFORMABLE** – Conforms to irregular and contoured surfaces
- **VERSATILE** – Use one disc for multiple types of surface stripping operations
- **SUPERIOR CONTROL** – Light pressure provides smoother surface finishing – Additional pressure allows more aggressive material removal
- **OPEN STRUCTURE DESIGN** – Will not load up on coatings and metals and resist snagging when deburring
- **REDUCED DOWN TIME** – Longer lasting discs offer fewer disc change-outs and less user down time
- **TYPE-R MOUNT** – Provides fast and reliable ½ turn-on, ½ turn-off attachment.

Surface Wheels

- CFIS PURPLE EXTREME STRIP DISC



Purple Devil Extreme

Part #	GRIT	SIZE	QT
361-620	XX-Coarse	2"	2
361-625	XX-Coarse	3"	2
361-627	XX-Coarse	4"	2



Introducing The New

Purple Devil Extreme

- ULTIMATE PERFORMANCE – Cleans welds, Removes heavy rust and corrosion, paint and other thick coatings
- EXTREME LONG LIFE – Lasts up to 6 times as long as conventional high performance stripping discs
- EXTREME AGGRESSIVE SURFACE STRIPPING – Proprietary blend of durable ceramic alumina grain and an advanced resin bond system rapidly removes up to three times as much surface contamination as conventional stripping discs
- FLEXIBLE & CONFORMABLE – Conforms to irregular and contoured surfaces
- VERSATILE – Use one disc for multiple types of surface stripping operations
- SUPERIOR CONTROL – Light pressure provides smoother surface finishing – Additional pressure allows more aggressive material removal
- OPEN STRUCTURE DESIGN – Will not load up on coatings and metals and resist snagging when deburring
- REDUCED DOWN TIME – Longer lasting discs offer fewer disc change-outs and less user down time
- TYPE-R MOUNT – Provides fast and reliable ½ turn-on, ½ turn-off attachment.

Abrasives

METAL DEVILS



Part #	SIZE	WIDTH	QT
361-518	2"	1"	EA
361-520	3"	1"	EA
361-522	4"	1"	EA

- **Product features**
- Outperforms steel wool for cleaning, blending, prepping and finishing on metal, wood, plastics and composites
- Performs like steel wool without shredding, rusting, or splintering
- Pad conforms to irregular surfaces and gets into corners without losing performance
- Cleans metal, composites, and other materials without altering the base material
- Load and heat resistant non-woven web provides consistent finishing over the life of the pad
- **Product description**
- Scotch-Brite hand pad combines durability for long life, flexibility for reaching tight areas, and can be used in place of steel wool for conditioning metal surfaces and paint prep. Unlike fine steel wool, Scotch-Brite pads will not shred during use, rust after use, or leave fine metal splinters.



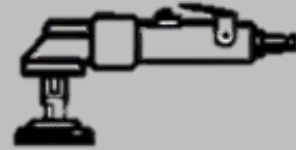
Surface Wheels

CFIS Scarlet Metal Devils



Scarlet Metal Devils

Part #	GRIT	SIZE	QT
361-560	Coarse	4-1/2 X 7/8	1
361-555	Coarse	4-1/2 X 5/8-11	1



Introducing The New

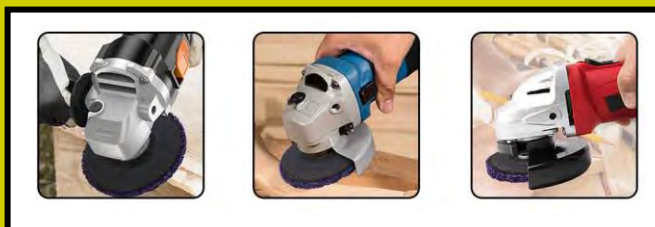
METAL DEVILS

- **ULTIMATE PERFORMANCE** – Removes heavy rust and corrosion, paint and other thick coatings
- **EXTREME LONG LIFE** – Lasts up to 4 times as long as conventional high performance stripping discs
- **AGGRESSIVE SURFACE STRIPPING** – Proprietary blend of durable ceramic alumina grain and an advanced resin bond system rapidly removes up to twice as much surface contamination as conventional stripping discs
- **FLEXIBLE & CONFORMABLE** – Conforms to irregular and contoured surfaces
- **VERSATILE** – Use one disc for multiple types of surface stripping operations
- **SUPERIOR CONTROL** – Light pressure provides smoother surface finishing – Additional pressure allows more aggressive material removal
- **OPEN STRUCTURE DESIGN** – Will not load up on coatings and metals and resist snagging when deburring
- **REDUCED DOWN TIME** – Longer lasting discs offer fewer disc change-outs and less user down time
- **TYPE-R MOUNT** – Provides fast and reliable ½ turn-on, ½ turn-off attachment.

Abrasives

Surface Wheels

CFIS Black Metal Devils



Black Metal Devils

Part #	GRIT	SIZE	QT
361-580	HDXCRS	4-1/2 X 7/8	1
361-585	HDXCRS	4-1/2 X 5/8-11	1



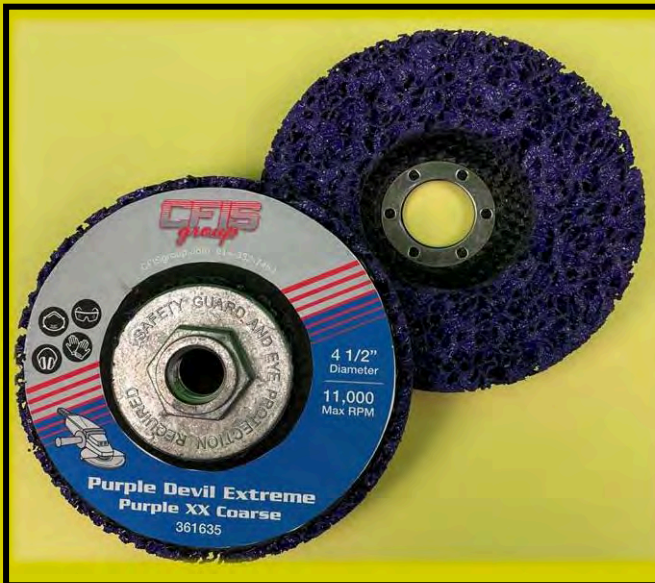
Introducing The New

METAL DEVILS

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- **EXTREME LONG LIFE** – Lasts up to 4 times as long as conventional high performance stripping discs
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- **FLEXIBLE & CONFORMABLE** – Conforms to irregular and contoured surfaces
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- **OPEN STRUCTURE DESIGN** – Will not load up on coatings and metals and resist snagging when deburring
- **REDUCED DOWN TIME** – Longer lasting discs offer fewer disc change-outs and less user down time
- **TYPE-R MOUNT** – Provides fast and reliable ½ turn-on, ½ turn-off attachment.

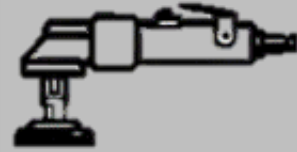
Surface Wheels

CFIS Purple Devil Extreme



Purple Devil Extreme

Part #	GRIT	ARBOR	QT
361-630	XX-Coarse	4-1/2 X 7/8	Ea
361-635	XX-Coarse	4-1/2 X 5/8-11	Ea



Introducing The New

METAL DEVILS

- **ULTIMATE PERFORMANCE** – Removes heavy rust and corrosion, paint and other thick coatings
- **EXTREME LONG LIFE** – Lasts up to 4 times as long as conventional high performance stripping discs
- **AGGRESSIVE SURFACE STRIPPING** – Proprietary blend of durable ceramic alumina grain and an advanced resin bond system rapidly removes up to twice as much surface contamination as conventional stripping discs
- **FLEXIBLE & CONFORMABLE** – Conforms to irregular and contoured surfaces
- **VERSATILE** – Use one disc for multiple types of surface stripping operations
- **SUPERIOR CONTROL** – Light pressure provides smoother surface finishing – Additional pressure allows more aggressive material removal
- **OPEN STRUCTURE DESIGN** – Will not load up on coatings and metals and resist snagging when deburring
- **REDUCED DOWN TIME** – Longer lasting discs offer fewer disc change-outs and less user down time
- **TYPE-R MOUNT** – Provides fast and reliable ½ turn-on, ½ turn-off attachment.

Abrasives

Stud / Surface Cleaning Tool



Part #	GRIT	QT
361-720	Tool	1

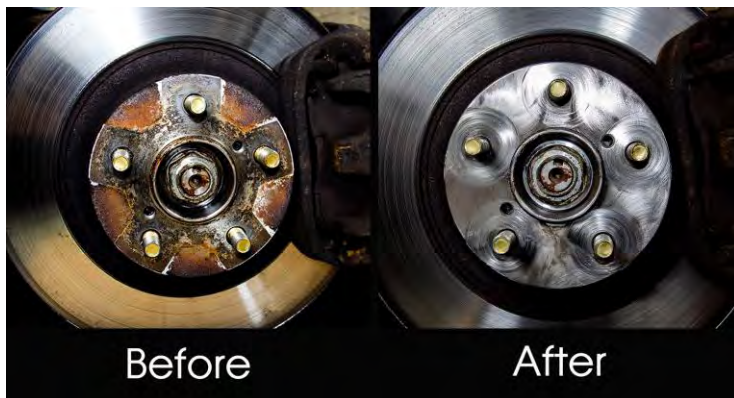


Part #	GRIT	QT
361-730	2" Hub	2

**AUTOMOTIVE AND PICK-UPS
12,13,14,16 MM 1/2" – 5/8".**

- ATTACKS RUST - Sands rust off lug studs, faces and disc rotor hats on the hub assembly.
- MINIMIZES LATERAL RUN-OUT - **Cleaning corrosion from hub surfaces** and other components is recommended before reassembly, after brake service procedures.
- VERSATILE - Can be used on most domestic and import vehicles with either front or rear disc brakes.
- IMPACT 1/2" DRIVE IS ONLY TOOL NEEDED
- QUICK, EFFECTIVE SOLUTION - Cleans hard to reach hub mounting surfaces at the **base of wheel stud** for either front or rear disc brake rotors.

For Proper Cleaning of the base of wheel stud for either front or rear disc brake rotors.



Stud / Surface Cleaning Tool



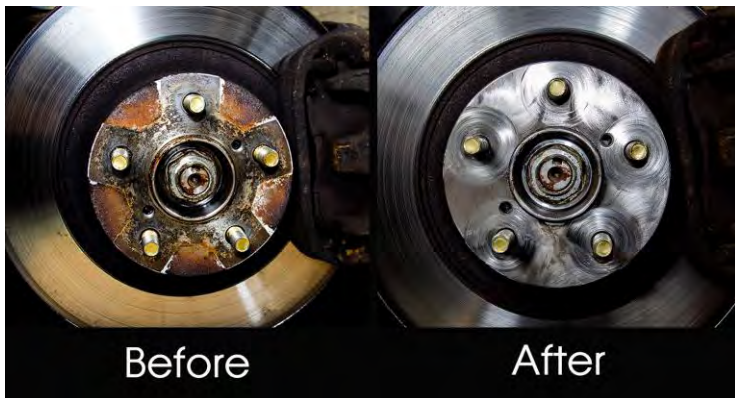
Part #	GRIT	QT
361-732	2" Hub	2

Part #	GRIT	QT
361-722	Tool	1

**COMMERCIAL VEHICLES,
BUSES, TRANSIT
18,20,22, MM 3/4" – 7/8".**

- **ATTACKS RUST** - Sands rust off lug studs, faces and disc rotor hats on the hub assembly.
- **MINIMIZES LATERAL RUN-OUT** - **Cleaning corrosion from hub surfaces** and other components is recommended before reassembly, after brake service procedures.
- **VERSATILE** - Can be used on most domestic and import vehicles with either front or rear disc brakes.
- **IMPACT 1/2" DRIVE IS ONLY TOOL NEEDED**
- **QUICK, EFFECTIVE SOLUTION** - Cleans hard to reach hub mounting surfaces at the **base of wheel stud** for either front or rear disc brake rotors.

For Proper Cleaning of the base of wheel stud for either front or rear disc brake rotors.



Abrasives

Woven Flap Wheels



CFIS ULTRA WOVEN SCOTCHBRITE FLAP WHEELS

- Flexible, conforms to irregular surfaces in a hand held form
- Removes burrs and micro burrs on threaded parts
- Finishing aluminum extrusions, brass, and stainless steel
- Fine scratch pattern for preparation of cutlery and cookware
- Re-orient grain finish on stainless steel and strike plates
- Excellent for removing heavy oxidation, blending, cleaning, and deburring
- For use on: Aluminum, Metal, Stainless, Wood

Part #	SIZE	FACE	GRIT	QT
364-710	3/4"	3/4"	60	Ea
364-712	3/4"	3/4"	80	Ea
364-714	3/4"	3/4"	120	Ea
364-716	3/4"	3/4"	180	Ea
364-720	1"	1"	60	Ea
364-722	1"	1"	80	Ea
364-724	1"	1"	120	Ea
364-726	1"	1"	180	Ea
364-730	1-1/2"	1"	60	Ea
364-732	1-1/2"	1"	80	Ea
364-734	1-1/2"	1"	120	Ea
364-736	1-1/2"	1"	180	Ea
364-740	2"	1"	60	Ea
364-742	2"	1"	80	Ea
364-744	2"	1"	120	Ea
364-746	2"	1"	180	Ea
364-750	3"	1"	60	Ea
364-752	3"	1"	80	Ea
364-754	3"	1"	120	Ea
364-756	3"	1"	180	Ea

364-780	3"	2"	60	Ea
364-782	3"	2"	80	Ea
364-784	3"	2"	120	Ea
364-786	3"	2"	180	Ea

Grit	60, 80, 120, 180
Diameter	3/4, 1", 1-1/2, 2", 3"
Width	3/4, 1", 2"
Mandrel	1/4"

Abrasives

Flap Wheels



CFIS FLAP WHEELS

- Aluminum oxide abrasive cloth.
- Provides consistent grinding and finishing action throughout the life of the wheel.
- Fresh new abrasive edges are continuously exposed to the work.
- Non-loading: Flexible flaps prevent loading that occurs with rigid abrasives.
- Conforms to concave and convex surfaces allowing access to hard-to-reach areas.
- 1/4" shank on all wheels is bonded into an epoxy core.

Applications:

- Final finish on metal surfaces.
- Deburring and flash removal on machined parts.
- Edge blending.
- Blending and finishing of dies, molds, tools, tubing, channels.
- Cleaning.
- Smoothing metal, plastic, wood, rubber.
- Removing tool marks.
- Finishing for painting, plating.

Part #	SIZE	FACE	GRIT	MAX RPM	QT
365-108	3/4"	3/4"	60	25,000	2
365-112	3/4"	3/4"	80	25,000	2
365-116	3/4"	3/4"	120	25,000	2
365-122	1"	1"	60	25,000	2
365-124	1"	1"	80	25,000	2
365-126	1"	1"	120	25,000	2
365-128	1"	1"	180	25,000	2
365-134	1-1/2"	1"	60	25,000	2
365-136	1-1/2"	1"	80	25,000	2
365-138	1-1/2"	1"	120	25,000	2
365-142	2"	1"	40	25,000	2
365-144	2"	1"	60	25,000	2
365-146	2"	1"	80	25,000	2
365-148	2"	1"	120	25,000	2
365-150	2"	1"	180	25,000	2
365-152	2"	1"	240	25,000	2
365-182	3"	1"	40	25,000	2
365-184	3"	1"	60	25,000	2
365-186	3"	1"	80	25,000	2
365-188	3"	1"	120	25,000	2

Sanding Paper



Shop Rolls / Aluminum Oxide 50 Yd Rolls

Part #	GRIT	LENGTH	WIDTH	QTY
363-012	60	50 YD	1 1/2	Ea
363-014	80	50 YD	1 1/2	Ea
363-016	120	50 YD	1 1/2	Ea
363-020	180	50 YD	1 1/2	Ea
363-022	240	50 YD	1 1/2	Ea
363-024	320	50 YD	1 1/2	Ea
363-026	400	50 YD	1 1/2	Ea



Crocus Sand Paper

Part #	GRIT	WIDTH	LENGTH
363-032	600	1-1/2	50 YD

- Premium aluminum oxide grain.
 - Special agents virtually eliminate loading.
 - Flexible resin bond system produces greater resistance to heat and increased durability.
 - Cool, free cutting action over long periods of time, Lasts up to 300% longer than other PSA rolls.
 - Excellent for hand-sanding and block-sanding on all paint coatings and non-ferrous metals.
 - 100% impervious to bonding breakdown by water, cutting fluid, grease, chemicals, and other solvents.
 - Exposure to solvents will not cause abrasive loss or loading.
 - Extended service life compared to standard "Dry" abrasive cloth when used in dry applications.
 - Convenient and effective for deburring, cleaning, and polishing metal parts.
 - Supplied in 50 yard rolls on spools for easy dispensing.
-
- Ferrous Oxide based abrasive grain.
 - Ideal for cleaning and polishing soft metals.
 - Flexible cloth backing allows easy working on curved surfaces.
 - 1-1/2" x 50 yard roll.
-
- Made with silicon carbide grain, a sharp synthetic mineral that cuts fast.
 - Drywall screen is waterproof; open mesh design resists loading – rinse and reuse.
 - Ideal for sanding drywall compound and patching plaster prior to priming.

Sanding Paper

CFIS Shur-Kut Peel & Stick Abrasives Disc



Part #	GRIT	QT
354-534	5" X 40	100
364-536	5" X 80	100
364-540	5" X 120	100
364-542	5" X 180	100
364-546	5" X 240	100
364-548	5" X 320	100

Part #	GRIT	QT
364-565	6" X 40	100
364-570	6" X 80	100
364-575	6" X 120	100
364-580	6" X 180	100
364-585	6" X 240	100
364-590	6" X 320	100
364-590	6" X 400	100
364-593	6" X 600	100
364-596	6" X 800	100



Stick-It Sanding Disc Arbor

Part #	DESCRIPTION	QTY
364-505	5" Arbor	Ea
364-506	6" Arbor	Ea



- Tough backing for extremely good durability.
- High performance aluminum oxide grain provides long service life.
- Adhesive backing is Pressure Sensitive, holds fast when in use, peels off easy when changed.
- Will not leave behind adhesive residue.
- Excellent for general grinding, deburring and blending.

MADE IN THE U.S.A.

- Grinding and stock removal
- Edge breaking, surface blending
- Cost effective when sanding materials that load or gum up
- Semi-open coat with load-resistant size coat
- for aggressive action
- Great for sanding fiberglass

- Materials Tool Selector
- Ferrous
- Non-Ferrous
- Plastics
- Wood
- Solid Surfaces
- Composites

Grinding / Cutting

Columbus Fleet Industrial Supply

Canton Fleet Industrial Supply

Canton First Aid & Safety



Grinding Wheels

CFIS CERAMIC FIRE GRIND



CFIS FIRE GRIND

- • **State-of-the-Art Ceramic Grain =** Rapid Material Removal and
- Cool Grinding for Improved Productivity
- Designed to Enhance Surface Work Area and Increase Disc Life
- • **Superior Ergonomic Design Delivers Ease of Use - Unparalleled**
- **Productivity =** Up to 50% Reduction in Process Time with
- • **Vibration-Free Performance =** Reduction of Noise, Dust and
- Operator Fatigue
- **70% LIGHTER** than a conventional grinding wheel.
- • **User-Friendly =** Rugged Yet Lightweight Construction
- **Applications:**
 - • Weld bead removal
 - • Surface grinding
 - • Edge grinding and deburring
 - • Chamfering and beveling
 - • Flame-cut steel removal

Part #	SIZE	COLOR	QT
362-034	4-1/2"	7/8" ARBOR	EA
362-038	5"	7/8" ARBOR	EA

Abrasives

Sigma Green Max



PRODUCT FEATURES Longer life over our original Sigma Green Grinding Wheel
 High performance grain Fast stock removal Superior finish Grinds smooth and quiet Minimizes operator fatigue
 Won't discolor or warp stainless steel

Sigma Green Max is constructed with a layer of coarse grain and a second layer of finer grain, resulting in a better finish compared to standard "fast grinding" wheels.

The specialty bond also results in a better balanced, noticeably quieter, and much smoother running grinding wheel, with less chatter and less vibration.

METALS

- Stainless steel
- Mild steel
- Hard face
- Titanium
- Alloys
- Aluminum

FEATURES

- High performance grain
- Long life
- Fast stock removal
- Superior finish
- Grinds smooth and quiet
- Minimizes operator fatigue
- Controlled grinding
- Cool cutting
- Won't discolor or warp stainless

APPLICATIONS

- Tank fabrication
- Power plant maintenance and repair
- Welding/metal fabrication
- Shipbuilding
- Refinery maintenance and repair



3/16" Thick Wheels

Part #	SIZE	ARBOR	QTY
361-034	4-1/2	7/8 ARBOR	Ea
361-038	4-1/2	5/8-11 NUT	Ea

1/4" Thick Wheels

Part #	SIZE	ARBOR	QTY
361-050	4-1/2	7/8 ARBOR	Ea
361-056	4-1/2	5/8-11 NUT	Ea

Abrasives

Sigma Z



AVAILABLE NOW: OUR FASTEST GRINDING WHEEL YET.

Engineered for steel, stainless steel, all nickel alloys and superalloys, Sigma Z optimizes production with exceptional metal removal rate, extended life, and a chatter free operation.

Precision-balanced for noticeably smoother and quieter operation, it is operator-friendly with quiet, chatter-free grinding.

METALS

- Stainless steel
- Steel
- Galvanized steel
- Hard face
- Titanium
- Nickel alloys
- Superalloys

FEATURES

- Premium grain
- Rapid removal
- Grinds smooth and quiet
- Minimizes operator fatigue
- Cool grinding
- Won't discolor or warp stainless

APPLICATIONS

- Tank fabrication
- Power plant maintenance and repair
- Welding/metal fabrication
- Shipbuilding
- Foundries
- Heavy weldment fabrication



1/4" Thick Wheels

Part #	SIZE	ARBOR	QTY
361-070	4-1/2	7/8 ARBOR	Ea
361-075	4-1/2	5/8-11 NUT	Ea

Grinding Wheels

CFIS ALLOY EATER HIGH ENERGY GRINDING WHEELS



Part#	Size	Qty.
362-090	2" x 1/8" x 3/8 arbor	EA
362-104	4-1/2 x 1/4 x 7/8	EA
362-125	4-1/2 X 1/4 X 5/8-11	EA
362-100	4 X 1/4 X 5/8	EA
362-120	7 X 1/4 X 7/8	EA

CFIS MAX FORCE GRINDING WHEELS



Part#	Size	Qty.
362-105	4-1/2 x 1/4 x 7/8	EA
362-127	4-1/2 X 1/4 X 5/8-11	EA
362-126	7 X 1/4 X 5/8-11	EA



CFIS Alloy Eater When you need versatility to cut and grind on various types of materials, look no further than our High Energy lineup. Formulated to tackle any job quickly and with precision. A very well suited choice for all fabrication projects involving mild steel.

- **Primary application - ferrous metals (structural steel, iron, welds, etc.)**
- Premium grinding wheel made of higher quality abrasive grain
- Enhanced wheel life with strong stock removal rate

CFIS Max Force grinding wheels aggressively remove steel in the most challenging applications. Whether smoothing flame-cut edges on heavy gauge plate, grinding casting parting lines, or any grinding operation where heavy stock removal is desired - Max Force wheels get it done to perfection. They are designed for maximum rate of material removal with extended service life. This formulation performs especially well on premium grinders that deliver a lot of torque. On a cost-per-pound comparison, these wheels give the best bang for your buck.

- **Primary application - stainless steel and high tensile alloys**
- Secondary application - ferrous metals (structural steel, iron, welds, etc.)
- Premium grinding wheel made of higher quality zirconia grains
- Superior stock removal and wheel life

Grinding Wheels

CFIS LIGHTNING GRINDING WHEELS



Part#	Size	Qty.
362-102	4-1/2 x 1/4 x 7/8	EA
362-130	4-1/2 X 1/4 X 5/8-11	EA
362-106	5 X 1/4 X 7/8	EA
362-108	6 X 1/4 X 7/8	EA
362-131	6 X 1/4 X 5/8-11	EA
362-120	7 X 1/4 X 7/8	EA
362-135	7 X 1/4 X 5/8-11	EA
362-140	9 X 1/4 X 5/8-11	EA

CFIS HIGH ENERGY GRINDING WHEELS



Part#	Size	Qty.
362-103	4-1/2 x 1/4 x 7/8	EA
362-132	4-1/2 X 1/4 X 5/8-11	EA



- CFIS A general purpose formulation with attitude. Don't be mistaken, this is a serious workhorse that strikes a great balance between wheel life and material removal. Made in the USA to exacting standards so you can expect consistent performance from every single wheel. Lightning wheels are a good choice for applications where versatility of material type and fast removal rate are important to the operator.

- **Primary application - ferrous metals (structural steel, iron, welds, etc.)**
- Softer bond - improved grinding time and reduced operator fatigue
- Fast stock removal

DEPRESSED CENTER

Part#	Size	Qty.
362-137	7 X 1/4 X 5/8-11	EA

CFIS HIGH ENERGY GRINDING WHEELS offer Versatile and long-life grinding wheels for almost all ferrous and non-ferrous materials. We offer three distinct formulations for mild steel, stainless, and aluminum - all providing rapid grinding action and industry leading wheel life. Achieves great performance on all quality levels of electric and air grinders. Priced lower than the Max Force lineup while still offering extended performance.

- **Primary application - non-ferrous metals (aluminum, brass, and copper)**
- Special formulation with softer bond to prevent loading
- Fast stock removal

Grinding Wheels

CFIS PIPELINE GRINDING WHEELS



Part#	Size	Qty.
362-112	6 X 1/4 X 7/8	EA

CFIS PIPELINE GRINDING WHEELS



Part#	Size	Qty.
362-150	6 X 1/8 X 7/8	EA



- CFIS Max Force The professional's choice for any major pipe welding application. These wheels do it all - bevel, root pass, and finish. The ruggedness of these wheels help maintain a nicely profiled edge for consistent grinding of weld bead between pipe sections. Offers great operator control with smooth cutting action as the result of the exceptional wheel balance.
- **Primary application - stainless steel, high tensile alloys**
- Exceeds the demands of the oil and gas pipeline industry
- Premium zirconia abrasive grains
- Harder bond for improved wheel life and increased performance

- CFIS Lightning wheels provide a great value for applications where wheel cost is a primary concern. Made of aluminum oxide, these wheels work well on nearly all metals and give performance equal to or better than the top-tier products offered by other companies. This is a great value for your abrasive dollar.
- **Primary application - ferrous metals (structural steel, iron, welds, etc.)**
- General performer for root pass grinding in the oil and gas pipeline industry
- Harder bond for improved wheel life and increased performance

Grinding Wheels

CFIS CERAMIC GRINDING WHEELS



Part#	Size	Qty.
362-128	4-1/2 X 1/4 X 5/8-11	EA



- **CFIS CERAMIC WHEEL**
- Product description
- 4-1/2" x 1/4" x 5/8"-11 Type 27 Depressed Center Grinding Wheel Saitech Attacker Stainless High Performance
- SAIT 20146 high performance, ceramic aluminum oxide grain.
- Very uniform, high density grain structure is extremely durable and self sharpening for long life and cooler cut.
- Extremely fast stock removal on hard metal with minimal pressure.
- **For use on stainless steel and other high tensile alloys and ferrous metals.**
- Reinforced with the highest quality fiberglass for maximum safety and performance.

Cutting Wheels

CFIS LIGHTNING

FERROUS METALS

STRUCTURAL STEEL, IRON, WELDS



CFIS LIGHTNING

- CFIS Lightning is the thinner version of the High Energy formulation. It has the same great performance along with a slightly faster cutting speed. Its thinner profile creates a smaller cut-line in the material and adds bit more flexibility for getting into tight recesses.

Part #	SIZE	HOLE	MAX RPM	QT
362-215	4-1/2 X .045	7/8	13,000	10
362-214	4-1/2 X .045	5/8-11	13,000	Ea
362-220	6 X .045	7/8	10,200	10



Primary application - ferrous metals (structural steel, iron, welds, etc.) Ideal for thin wall work turning

- Secondary application - stainless steel for fast, burr-free cutting
- .035" thickness
- Treated aluminum oxide grains
- Fine grit

Part #	SIZE	HOLE	MAX RPM	QT
362-206	3 X .035	3/8	25,450	10
362-208	4 X .035	1/4	25,450	10

Cutting Wheels

CFIS HIGH ENERGY

FERROUS METALS

ANGLE IRON AND REBAR STEEL



HIGH ENERGY

TA46T

- Premium level of performance and extended wheel life.
- They are a slightly thicker version of our Lightning wheels, yet still maintain the rapid cutting quality of thinner wheels.
- Primary application - ferrous metals (angle iron, rebar, steel, etc.)
- Secondary application - stainless steel and 1/16" high tensile alloy
- Long life
- High performance on ferrous metals

Part #	SIZE	HOLE	MAX RPM	QT
362-210	4 X 1/16	3/8	25,450	10
362-213	4 X 1/16	5/8	15,000	10

LIGHTNING ALUMINUM OXIDE INCREASE PERFORMANCE

Part #	SIZE	HOLE	MAX RPM	QT
362-211	4 X .040	5/8	15,000	10

Cutting Wheels

CFIS HIGH ENERGY

ALUMINUM
BRASS / COPPER



HIGH ENERGY AL46T

- Primary application - non-ferrous metals (aluminum, brass, copper, etc.)
- .040" thickness
- Fast, cool, burr-free cutting
- Specially formulated to prevent loading
- APPLICATION:
- Aluminum, Brass and Copper

Part #	SIZE	HOLE	TYPE	MAX RPM	QT
362-246	4-1/2 X .040	7/8	AL46N	13,300	10

CFIS CUTTING WHEEL ARBOR



Part#	Desc	Qty
362-196	CUT-OFF ARBOR 1/4 & 3/8	Ea

Cutting Wheels

CFIS MAX FORCE CERAMIC

**SHEET METAL, STAINLESS STEEL,
RUSTED BOLTS**



MAX FORCE CERAMIC CER36T

- Type 1 ceramic cutting wheels are top performers. These wheels offer state-of-the-art ceramic grain for premium cooler cutting with sharper, faster cuts, as well as self-sharpening strength and durability on every rotation.
- These wheels are excellent for extra sharp power for cutting thru sheet metal, stainless steel tubing pipes and rusted bolts to name a few.
- Premium value on carbon steel and stainless steel leads us to boast precision performance with high efficiency.

Part #	SIZE	HOLE	TYPE	MAX RPM	QT
362-910	3 X .045	1/4	CER36T	25,450	10
362-900	3 X .045	3/8	CER36T	25,450	10
362-930	4 X .045	1/4	CER36T	19,000	10
362-920	4 X .045	3/8	CER36T	19,000	10
362-217	4-1/2 X .045	3/8	CER36T	13,300	10

- APPLICATION:
- Carbon steel and Stainless Steel

Cutting Wheels

CFIS TYPE 27 HIGH ENERGY CUT-OFF WHEELS



Part#	Size	Qty.
362-230	4 1/2 X .045 x 7/8	10
362-235	6 X .045 X 7/8	10

CFIS TYPE 27 LIGHTNING CUT-OFF WHEELS



Part#	Size	Qty.
362-228	4 X .040 x 5/8	10
362-240	7 X .040 x 7/8	10



CFIS High Energy thin cut-off wheels offer a premium level of performance and extended wheel life. They are a slightly thicker version of our Lightning wheels, yet still maintain the rapid cutting quality of thinner wheels.

- Primary application - ferrous metals and stainless applications
- A rigid, thicker wheel with improved grain and resin combination to take on the most demanding cutting applications
- .045" thickness
- Long life and faster cutting

CFIS Lightning wheels are essentially a thinner version of our High Energy formulation. All the same great performance with slightly faster cutting speed and smaller cut-line in the material being worked on. Due to their thinner profile, Lightning wheels had added flexibility, allowing them to get into tight areas.

Primary application - ferrous metals (steel, iron, welds, etc.)

.040" thickness

Fast, cool, burr-free cutting

Specially treated aluminum oxide grain for increased performance

Cutting Wheels

CFIS MAX FORCE THIN

**STAINLESS STEEL
HIGH TENSILE ALLOYS
CHROME**



**MAX FORCE THIN
SGA60U**

- Primary application - stainless steel, high tensile alloys, chrome, and Inconel alloys
- Contaminant-free cutting. No iron, sulfur, or chlorine
- .045" thickness
- Super premium
- Long life and faster cutting
- APPLICATION:
- Carbon steel and Stainless Steel

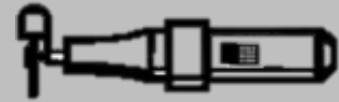


Part #	SIZE	HOLE	MAX RPM	QT
362-233	6 X .045	7/8	10,200	10

Cutting Wheels

CFIS MAX FORCE THIN

STAINLESS STEEL
HIGH TENSILE ALLOYS



MAX FORCE THIN ZA60T

- Primary application - stainless steel and high tensile alloys
- Secondary application - ferrous metals (structural steel, iron, welds, etc.)
- .040" thickness
- Super premium
- Long life and faster cutting
- Zirconia grain
- APPLICATION:
- Stainless Steel and High Tensile Alloys

Part #	SIZE	HOLE	MAX RPM	QT
362-216	4-1/2 X .040	7/8	13,300	10
362-218	6 X .040	7/8	10,200	10
362-222	7 X .040	7/8	8,500	10

Cutting Wheels

CFIS HIGH ENERGY

FERROUS METALS

STAINLESS STEEL



HIGH ENERGY

TA60U

- High Energy thin cut-off wheels offer a premium level of performance and extended wheel life.
- They are a slightly thicker version of our Lightning wheels, yet still maintain the rapid cutting quality of thinner wheels.
- APPLICATION:
- Ferrous Metals and
- Stainless Steel

Part #	SIZE	HOLE	MAX RPM	QT
362-215	4-1/2 X .045	7/8	13,000	10
362-220	6 X .045	7/8	10,200	10

Cutting Wheels

CFIS HIGH ENERGY

**FERROUS METALS
STAINLESS STEEL**



HIGH ENERGY TA36T

- High Energy thin cut-off wheels offer a premium level of performance and extended wheel life. They are a slightly thicker version of our Lightning wheels, yet still maintain the rapid cutting quality of thinner wheels.
- Primary application - ferrous metals (angle iron, rebar, steel, etc.)
- Secondary application - stainless steel and 3/32" high tensile alloy
- For heavy-duty use

Part #	SIZE	HOLE	MAX RPM	QT
362-200	2 X .1/8	3/8	38,200	10
362-201	2-1/2 X 1/8	3/8	30,500	10
362-202	3 X 1/16	1/4	25,450	10
362-210	4 X 1/16	3/8	19,000	10

Cutting Wheels

CFIS HIGH ENERGY

**FERROUS METALS
IRON STEEL AND WELDS**



MAX FORCE HIGH ENERGY A60T

- Competitor wheels are an entry-level cutting wheel designed for most applications.
- Primary application - ferrous metals (steel, iron, welds, etc.)
- Value line
- General purpose



Part #	SIZE	HOLE	MAX RPM	QT
362-212	4 X .045	5/8	15,000	10

Cutting Wheels

CFIS ULTRA CUT HIGH ENERGY

**STAINLESS STEEL
HIGH TENSILE ALLOYS**



Part #	SIZE	HOLE	MAX RPM	QT
362-231	4-1/2 X .040	5/8	13,300	10



CFIS MAX FORCE

Thin cut-off wheels turn your grinder into a turbocharged cutting machine. These are the fastest cutting and longest lasting wheels we have ever designed - they tackle every type and cross-section of material with impressive results. If you are using a high-powered grinder and want to maximize performance, Max Force wheels are the ones that will get you to the winner's circle.

ZA60T

- Primary application - stainless steel and high tensile alloys
- Secondary application - ferrous metals (structural steel, iron, welds, etc.)
- .040" thickness
- Super premium
- Long life and faster cutting
- Zirconia grain

Cutting Wheels

CFIS ULTRA CUT HIGH ENERGY

**FERROUS METALS
STAINLESS APPLICATIONS**



CFIS HIGH ENERGY

High Energy thin cut-off wheels offer a premium level of performance and extended wheel life. They are a slightly thicker version of our Lightning wheels, yet still maintain the rapid cutting quality of thinner wheels.

TA60U

- Primary application - ferrous metals and stainless applications
- A rigid, thicker wheel with improved grain and resin combination to take on the most demanding cutting applications
- .045" thickness
- Long life and faster cutting



Part #	SIZE	HOLE	MAX RPM	QT
362-230	4-1/2 X .045	7/8	13,300	10
362-235	6 X .045	7/8	10,200	10

Cutting Wheels

CFIS ULTRA CUT HIGH ENERGY

**FERROUS METALS
ANGLE IRON AND REBAR STEEL**



CFIS HIGH ENERGY

High Energy thin cut-off wheels offer a premium level of performance and extended wheel life. They are a slightly thicker version of our Lightning wheels, yet still maintain the rapid cutting quality of thinner wheels.

TA60T

- Primary application - ferrous metals (angle iron, rebar, steel, etc.)
- Secondary application - stainless steel and 1/16" high tensile alloy
- Long life
- High performance on ferrous metals

Part #	SIZE	HOLE	MAX RPM	QT
362-228	4 X .040	5/8	15,000	10
362-240	7 X .040	7/8	8,500	10

Cutting Wheels

CFIS GAS / ELECT PORTABLE SAW WHEELS



Part#	Size	Qty.
362-272	14 x 1/8 x 20 mm	EA

CFIS GAS / ELECT PORTABLE SAW WHEELS



Part#	Size	Qty.
362-266	14 x 1/8 x 1"	EA



CFIS High Energy portable cut-off saw specifications are designed to be versatile performers on all types and sizes of metal and masonry materials. Utilizing a special bond system developed by Bullard engineers, these wheels out cut and out last competitors while offering excellent value on a price/performance ratio.

- Primary application - thin metals, roof, decking, car dismantling
- Premium wheel, formulated to prevent wheel breakdown caused by sharp, metal edges
- Specially treated aluminum oxide grain and hard bond

CFIS High Energy portable cut-off saw specifications are designed to be versatile performers on all types and sizes of metal and masonry materials. Utilizing a special bond system developed by Bullard engineers, these wheels out cut and out last competitors while offering excellent value on a price/performance ratio.

- Primary application - ferrous metals (structural steel, iron, rebar, etc.)
- Premium performance wheel formulated for longer life in most demanding jobs
- Treated aluminum oxide grains

Cutting Wheels

METAL DEVIL ABRASIVE CUT-OFF WHEELS

Using an innovative new process, diamond crystal is permanently brazed to the blade and remains fixed for continuous cutting throughout the life of the wheel.



Part #	SIZE	ARBOR	QT
362-325	4-1/2"	7/8-5/8"	Ea
362-339	6"	7/8-5/8"	Ea
362-343	7"	7/8-KO	Ea
362-347	12"	1"-20MM	Ea
362-350	14"	1"-20MM	Ea



• FEATURES & BENEFITS

- Solid steel body maintains wheel diameter throughout its life and greatly reduces the danger of breakage.
- Vacuum brazed technology permanently bonds diamond crystals to the wheel, providing long blade life. Lasts up to 60 times longer than traditional abrasive wheels.
- Thin kerf design cuts faster and produces less dust and debris than traditional abrasive wheels.

• APPLICATIONS

- Metal studs, tubing and structural steel, stainless, non-ferrous, steel, rebar, cast iron and solids



Cutting Wheels

CFIS GAS / ELECT PORTABLE SAW WHEELS



Part#	Size	Qty.
362-275	12 X 1/8 X 1"	EA
362-280	12 x 1/8 x 20 mm	EA
362-265	14 x 1/8 x 1"	EA
362-270	14 x 1/8 x 20 mm	EA



CFIS Lightning Wheels specifications offer industrial performance at a modest price. Manufactured in the USA, the quality and high-performance in both metal and concrete formulations exceed the performance of lower cost imports. A real value for the budget-minded buyer.

- Primary application - ferrous metals (structural steel, iron, rebar, etc.)
- A consistently performing wheel for a variety of cutting applications
- Aluminum oxide grains

CFIS GAS / ELECT PORTABLE SAW WHEELS



Part#	Size	Qty.
362-285	12 X 1/8 X 1"	EA
362-295	14 x 1/8 x 1"	EA

CFIS High Energy portable cut-off saw specifications are designed to be versatile performers on all types and sizes of metal and masonry materials. Utilizing a special bond system developed by Bullard engineers, these wheels out cut and out last competitors while offering excellent value on a price/performance ratio.

- Primary application - cured concrete, masonry, brick, block, and stone
- Premium wheel with hard bond
- Silicon carbide grain

Cutting Wheels

CFIS GAS / ELECT PORTABLE SAW WHEELS



Part#	Size	Qty.
362-290	12 x 1/8 x 20 mm	EA



CFIS Lightning specifications offer industrial performance at a modest price. Manufactured in the USA, the quality and high-performance in both metal and concrete formulations exceed the performance of lower cost imports. A real value for the budget-minded buyer.

- Primary application - cured concrete, masonry, brick, block, and stone
- Popular choice for masonry work
- Silicon carbide grain

Cutting Wheels

CFIS PORTABLE CHOP-SAW WHEELS



Part#	Size	Qty.
362-250	12 x 3/32 x 1"	EA
362-255	14 x 3/32 x 1"	EA

CFIS CIRCULAR SAW WHEELS



Part#	Size	Qty.
362-224	7 x 3/32 x 5/8"	EA



CFIS Lightning chop saw wheels are the most versatile wheels and offer great performance on all metals.

- Primary application - ferrous metals (structural steel, heavy rebar, channel, iron, angle iron, etc.)
- Fast cutting wheel on thicker profile materials such as angle iron, pipe, and rebar
- Consistent performance on a variety of cutting applications



CFIS Lightning specifications offer industrial performance at a modest price. Manufactured quality and high performance in both metal and concrete formulations that exceed the performance of lower cost imports, yet only cost a fraction more. A real value for the budget-minded buyer.

- Primary application - ferrous metals (angle iron, rebar, steel, metal tubing, etc.)
- Harder bond for improved wheel life and increased performance
- Aluminum oxide grain

Wire Brushes

Columbus Fleet Industrial Supply

Canton Fleet Industrial Supply

Canton First Aid & Safety



Wire Wheels

Cable Crimped Ultra High Performance



Part #	DIAM	TRIM LENGTH	QT
367-470	1"	1 3/16"	Ea



Part #	DIAM	ARBOR	WIRE SIZE	MAX. SAFE SPEED	QT
367-280	3"	5/8-11 & 14mm	12 x .009	13,000	Ea

CFIS CABLE CRIMPED HIGH PERFORMANCE BRUSH

- 50 Percent longer life than standard crimped wire.
- High Performance and Flexibility

Applications:

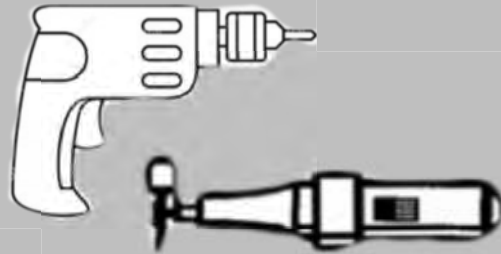
Removal of rust, paint or any kind of adherence.

Cleaning of castings.

Treating metallic surfaces, rubber, plastic, wood or glass.

Metallic construction, ship-building, boiler industry, stone and concrete.

Die Grinder / Drill



Wire Wheels

CFIS HIGH PERFORMANCE WIRE BRUSHES

- **UNIQUE HIGH TENSILE ALLOY WIRE:** High carbon alloy provides 20% greater life than conventional wire wheel brushes.
- **INCREASED WIRE FLEXIBILITY:** Reduces wire fatigue, increases working life, and decreases potential for wire "throw-out".
- **BRASS COATED WIRE:** Prevents rust and corrosion for extended service life.

Diameter:	2-3/4", 3-1/2", 4", 5"
Material:	High Carbon Alloy
Max. RPM:	12,500



Large Crimped Wire Cup Brush

Part #	DIAM	ARBOR	WIRE SIZE	MAX. SAFE SPEED	QT
367-303	2-3/4	5/8-11	.020	12,500	Ea
367-304	3-1/2	5/8-11	.020	12,500	Ea
367-306	4"	5/8-11	.020	12,500	Ea
367-308	5"	5/8-11	.020	12,500	Ea



Diameter:	2", 3"
Material:	High Carbon Alloy
Max. RPM:	7,000



Large Knotted Wire Cup Brush

Part #	DIAM	ARBOR	WIRE SIZE	MAX. SAFE SPEED	QT
367-330	2-3/4	5/8-11	.020	7,000	Ea
367-334	3-1/2	5/8-11	.020	7,000	Ea
367-336	4"	5/8-11	.020	7,000	Ea
367-340	6"	5/8-11	.020	7,000	Ea



Stainless Steel

367-345	4"	5/8-11	.020	7,000	Ea
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Wire Wheels

CFIS HIGH PERFORMANCE WIRE BRUSHES

- **UNIQUE HIGH TENSILE ALLOY WIRE:** High carbon alloy provides 20% greater life than conventional wire wheel brushes.
- **INCREASED WIRE FLEXIBILITY:** Reduces wire fatigue, increases working life, and decreases potential for wire "throw-out".
- **BRASS COATED WIRE:** Prevents rust and corrosion for extended service life.

Diameter:	3/4", 1"
Material:	.020 Tempered Steel
Max. RPM:	20,000

Die Grinder



Part #	DIAM	TRIM LENGTH	QT
367-400	3/4"	1-3/16	Ea
367-410	1"	1-3/16	Ea



Diameter:	1/2", 3/4", 1"
Material:	High Carbon Alloy
Max. RPM:	20,000

Die Grinder



Part #	DIAM	TRIM LENGTH	QT
367-422	1/2"	1"	Ea
367-424	3/4"	1"	Ea
367-426	1"	1"	Ea
367-427	1-1/8"	1"	Ea



* New 367-427 *

Wire Wheels

CFIS HIGH PERFORMANCE WIRE BRUSHES

- **UNIQUE HIGH TENSILE ALLOY WIRE:** High carbon alloy provides 20% greater life than conventional wire wheel brushes.
- **INCREASED WIRE FLEXIBILITY:** Reduces wire fatigue, increases working life, and decreases potential for wire "throw-out".
- **BRASS COATED WIRE:** Prevents rust and corrosion for extended service life.

Diameter:	3/4", 1"
Material:	Stainless Steel
Max. RPM:	20,000

STAINLESS STEEL

Die Grinder



STAINLESS STEEL

Part #	DIAM	TRIM LENGTH	QT
367-460	3/4"	1"	Ea
367-462	1"	1"	Ea



Diameter:	1-3/4", 2", 2-1/2"
Material:	High Carbon Alloy
Max. RPM:	20,000

Die Grinder



Part #	DIAM	TRIM LENGTH	MATERIAL	QT
367-430	2"	1"	STEEL	Ea
367-435	2"	1"	STAINLESS	Ea
367-440	2-1/2"	1"	STAINLESS	Ea
367-464	1"	1"	BRASS	Ea



367-464

Wire Wheels

CFIS HIGH PERFORMANCE WIRE BRUSHES

- **UNIQUE HIGH TENSILE ALLOY WIRE:** High carbon alloy provides 20% greater life than conventional wire wheel brushes.
- **INCREASED WIRE FLEXIBILITY:** Reduces wire fatigue, increases working life, and decreases potential for wire "throw-out".
- **BRASS COATED WIRE:** Prevents rust and corrosion for extended service life.

Die Grinder



Diameter:	3/4", 1", 1-1/4"
Material:	.020 Tempered Steel
Max. RPM:	20,000



Part #	DIAM	TRIM LENGTH	QT
367-444	3/4"	1"	Ea
367-446	1"	1"	Ea
367-448	1-1/4"	1"	Ea

BANDED WIRE HIGH PERFORMANCE END BRUSH

Part #	DIAM	TRIM LENGTH	QT
367-474	1"	3/8"	Ea



Wire brush is permanently mounted on 1/4" steel stems for use with portable drills, air tools and drill presses.

Brushes provide shorter trim length which prevents flaring and provides more aggressive brushing action.

Cleaning and finishing recessed areas or Die, mold and tool cleaning and polishing Rubber and plastic flash removal Rust and paint removal Scale and slag removal, Cleaning Carbon and Welds.

Wire Wheels

CFIS HIGH PERFORMANCE WIRE BRUSHES

- **UNIQUE HIGH TENSILE ALLOY WIRE:** High carbon alloy provides 20% greater life than conventional wire wheel brushes.
- **INCREASED WIRE FLEXIBILITY:** Reduces wire fatigue, increases working life, and decreases potential for wire "throw-out".
- **BRASS COATED WIRE:** Prevents rust and corrosion for extended service life.

Diameter:	1-1/2", 2", 2-1/2", 3"
Material:	High Carbon Alloy
Max. RPM:	15,000



Part #	DIAM	RPM	QT
367-476	1-1/2"	20,000	Ea
367-480	2"	15,000	Ea
367-482	2-1/2"	15,000	Ea
367-484	3"	15,000	Ea

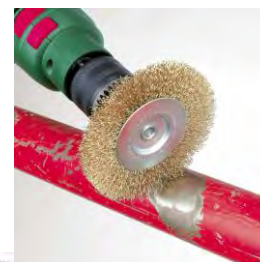


CFIS HIGH PERFORMANCE STAINLESS STEEL WIRE BRUSHES

- **UNIQUE HIGH TENSILE STAINLESS ALLOY WIRE:** Stainless Steel alloy provides 20% greater life than conventional wire wheel brushes.
- **INCREASED WIRE FLEXIBILITY:** Reduces wire fatigue, increases working life, and decreases potential for wire "throw-out".

Diameter:	2", 3"
Material:	Stainless Steel
Max. RPM:	15,000

STAINLESS STEEL



STAINLESS STEEL

Part #	DIAM	RPM	QT
367-490	2"	15,000	Ea
367-494	3"	15,000	Ea



Wire Wheels

CFIS HIGH PERFORMANCE WIRE BRUSHES

- **UNIQUE HIGH TENSILE ALLOY WIRE:** Stainless Steel alloy provides 20% greater life than conventional wire wheel brushes.
- **INCREASED WIRE FLEXIBILITY:** Reduces wire fatigue, increases working life, and decreases potential for wire "throw-out".

Diameter:	2"
Material:	Stainless Steel
Max. RPM:	20,000



Twist Knotted Wire Wheel Brush

Part #	DIAM	SHANK	WIRE SIZE	TRIM LENGTH	MAX. SAFE SPEED	QT
367-502	2"	1/4"	.012	1"	20,000	Ea

CFIS HIGH PERFORMANCE WIRE BRUSHES

- **UNIQUE HIGH TENSILE ALLOY WIRE:** High carbon alloy provides 20% greater life than conventional wire wheel brushes.
- **INCREASED WIRE FLEXIBILITY:** Reduces wire fatigue, increases working life, and decreases potential for wire "throw-out".
- **BRASS COATED WIRE:** Prevents rust and corrosion for extended service life.

Diameter:	3" , 4"
Material:	High Carbon Alloy
Max. RPM:	20,000



Twist Knotted Wire Wheel Brush

Part #	DIAM	SHANK	WIRE SIZE	TRIM LENGTH	MAX. SAFE SPEED	QT
367-525	3"	1/4"	.0140	1"	25,000	Ea
367-530	4"	1/4"	.0140	1"	20,000	Ea

Wire Wheels

CFIS HIGH PERFORMANCE WIRE BRUSHES

- **UNIQUE HIGH TENSILE ALLOY WIRE:** High carbon alloy provides 20% greater life than conventional wire wheel brushes.
- **INCREASED WIRE FLEXIBILITY:** Reduces wire fatigue, increases working life, and decreases potential for wire "throw-out".
- **BRASS COATED WIRE:** Prevents rust and corrosion for extended service life.

Diameter:	2", 3"
Material:	Stainless Steel
Max. RPM:	15,000



Twist Knotted Wire Wheel Brush

Part #	DIAM	ARBOR	WIRE SIZE	MAX. SAFE SPEED	QT
367-354	4"	5/8-11	.020	20,000	Ea
367-355	4-1/2"	5/8-11	.020	20,000	Ea
367-356	5"	5/8-11	.020	15,000	Ea

Stringer Bead Twist Knotted Wire Wheel Brush

Part #	DIAM	ARBOR	WIRE SIZE	MAX. SAFE SPEED	QT
367-374	4-1/2"	5/8-11	.020	15,000	Ea
367-380	5"	5/8-11	.020	12,500	Ea



Crimped Wire Wheel Brush

Part #	DIAM	ARBOR	WIRE SIZE	MAX. SAFE SPEED	QT
367-390	4-1/2"	5/8-11	.012	13,000	Ea

Wire Wheels

CFIS HIGH PERFORMANCE WIRE BRUSHES

- **UNIQUE HIGH TENSILE ALLOY WIRE:** High carbon alloy provides 20% greater life than conventional wire wheel brushes.
- **INCREASED WIRE FLEXIBILITY:** Reduces wire fatigue, increases working life, and decreases potential for wire "throw-out".
- **BRASS COATED WIRE:** Prevents rust and corrosion for extended service life.

Diameter:	1-1/2", 2", 2-1/2", 3"
Material:	High Carbon Alloy
Max. RPM:	15,000



Drill



Die Grinder

Part #	DIAM	WIRE	MATERIAL	QT
367-552	3/8	.003	CARBON	Ea
367-556	1/2	.004	STAINLESS	Ea
367-560	1/2	.006	CARBON	Ea
367-564	5/8	.005	CARBON	Ea
367-568	5/8	.008	CARBON	Ea
367-572	3/4	.006	CARBON	Ea
367-576	1"	.006	CARBON	Ea
367-578	1-1/4	.006	CARBON	Ea
367-582	7/8	.006	CARBON	Ea



OVER ALL LENGTH 5-1/2"

Part #	DIAM	QT
367-650	3/4	Ea
367-652	1/2	Ea
367-654	1/2	Ea
367-656	5/8	Ea



Welders Brush

Part #	ITEM	QT
368-010	S/S WELDERS BRUSH	Ea
368-012	BRASS WELDERS BRUSH	Ea
368-013	STEEL WELDERS BRUSH	Ea
368-015	NYLON BLUE HANDLE	Ea

CFIS group		CANTON FLEET - INDUSTRIAL SUPPLY		WWW.cfisgroup.com	
PART # 0367-50		COLUMBUS FLEET - INDUSTRIAL SUPPLY		(330) 408-7274 Fax: (330) 408-7262	
ASSORTMENT: WIRE POWER BRUSHES					
368-008		367-578		367-582	
.014 WIRE		1-1/4" X .008		7/8" X .008	
368-006		367-572		367-576	
.012 WIRE		3/4" X .006		1" X .006	
		367-564		367-568	
		5/8" X .005		5/8" X .008	
		367-552		367-556	
		5/8" X .003		1/2" X .004	
				367-560	
				1/2" X .006	

Wire Wheels

- Heavy duty horsehair bristles handle everything from glue to oil to flux
- Metal Tubular Handles
- A good quality product
- Perfect for Interior, Exterior, such as Glue, Acid, Flux, Oil, Paste, Pipe Dope, Soldering, greasing, Touch-up, applying Zinc primer, Spreading, Dusting, Cleaning
- Sturdy Durable Brushes

Acid Brush

Part #	ITEM	QT
368-018	ACID BRUSH	Ea



- 100% Pure White Bristle Chip Brushes
- Smooth sanded wood handles and tin ferrules
- Great utility brushes for general use.
- Bristles are 1", 1-1/2" and 2" wide

Chip Brush

Part #	ITEM	QT
368-120	1" wide	3
368-124	2" wide	3
368-128	3" wide	3



- Removes dirt and grease from motors, machinery and metal parts
- Polypropylene bristles hold up under repeated use in cleaning solvents

Parts Brush

Part #	ITEM	QT
368-030	PARTS BRUSH	Ea



Wire Wheels

CFIS HIGH PERFORMANCE WIRE BRUSHES

- **UNIQUE HIGH TENSILE ALLOY WIRE:** High carbon alloy provides 20% greater life than conventional wire wheel brushes.
- **INCREASED WIRE FLEXIBILITY:** Reduces wire fatigue, increases working life, and decreases potential for wire "throw-out".
- **BRASS COATED WIRE:** Prevents rust and corrosion for extended service life.

- For removal of rust, dirt, scale, paint or welds from flat surfaces
- Corrosion resistant stainless steel wire does not leave deposits that cause rust on stainless steel, aluminum and other non ferrous metals
- Ergonomic plastic handle
- Wire Trim Length: 1-1/8-inch, Wire Diameter: 0.012-inch

Wire Brushes

Part #	ITEM	QT
368-006	.012 STAINLESS	Ea



- For removal of rust, dirt, scale, paint or welds from flat surfaces
- Carbon Steel
- Ergonomic plastic handle
- Wire Trim Length: 1-1/8-inch, Wire Diameter: 0.014-inch

Wire Brushes

Part #	ITEM	QT
368-008	.014 CARBON	Ea



Wire Brushes

Part #	ITEM	QT
368-002	BRUSH WITH SCRAPER	Ea



Part #	ITEM	QT
368-004	SHOE HANDLE	Ea



Wire Wheels

CFIS HIGH PERFORMANCE WIRE BRUSHES

- **UNIQUE HIGH TENSILE ALLOY WIRE:** High carbon alloy provides 20% greater life than conventional wire wheel brushes.
- **INCREASED WIRE FLEXIBILITY:** Reduces wire fatigue, increases working life, and decreases potential for wire "throw-out".
- **BRASS COATED WIRE:** Prevents rust and corrosion for extended service life.

Bench Grinder



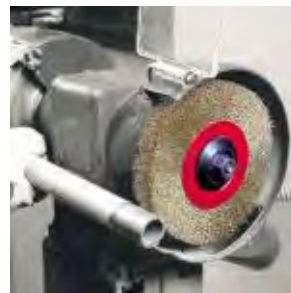
Grinding Wheels

Part #	SIZE	ARBOR	NESTED BUSHINGS	GRIT	MAX RPM	QTY
366-506	6"	1"	1/2, 5/8, 3/4, 1"	HEAVY DUTY	4,138	Ea
366-515	8"	1-1/4"	1/2, 5/8, 3/4, 1"	HEAVY DUTY	3,600	Ea

Wire Wheels

CT Crimped Wire Wheels

Crimped wire wheels with plain arbor holes are designed and manufactured for bench and pedestal grinders or fixed stationary machines used in various production applications. These brushes are perfect for light to medium-duty cleaning applications while offering flexibility such as deburring, removing paint, rust, or any other surface adherences.



MULTI FITTING ARBOR HOLE Allows one brush to fit seven (7) arbor sizes by knocking out the reducer bushing. Fits 1/2", 5/8", 3/4", 7/8", 1", 1-3/16" and 2". Reduces inventory and increases order accuracy.

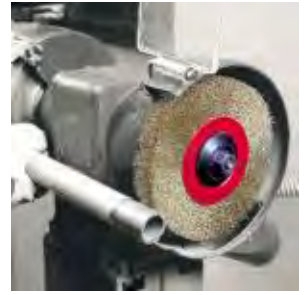
CT Crimped Wire Wheels

Part #	SIZE	WIRE	WIDTH	MAX RPM	QT Y
366-553	6"	.012	3/4"	6.500	Ea
366-554	6"	.016	5/8"	6,500	Ea
366-555	6"	.020	5/8"	6,500	Ea
366-579	8"	.020	11/16"	6.000	Ea
366-582	8"	.016	3/4"	6,000	Ea
366-586	8"	.012	1-3/8"	6.000	Ea

Wire Wheels

CCA HP Cable Crimped Wire Wheels

Cable-crimped wire design allows greater flexibility during use and 50% longer life than industry standard crimped wire wheels. These brushes are made of groups brass coated steel wires bundled together then they are crimped. Cable-crimped brushes can be used on the same applications where a standard crimped wire brush is needed.



The advantages of the Cable Crimped Wire are: Performance Provides for a 50% longer lasting brush, due to a higher degree of resistance to flexing fatigue, which is a main reason for wire breakage Flexibility Ability to adapt to irregular surfaces, and an excellent shape recovery of the wire, which prevents strain Safety Cable crimped wire reduces and in many cases, eliminates the breakage caused by flexing fatigue. This means the wires break off in much smaller pieces making it a safer wire to use in the work area.



MULTI FITTING ARBOR HOLE Allows one brush to fit seven (7) arbor sizes by knocking out the reducer bushing. Fits 1/2", 5/8", 3/4", 7/8", 1", 1-3/16" and 2". Reduces inventory and increases order accuracy.

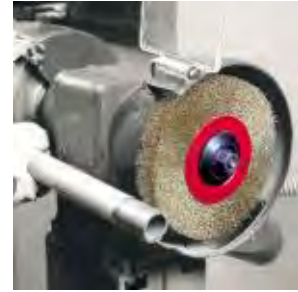
CCA Crimped Wire Wheels

Part #	SIZE	WIRE	WIDTH	MAX RPM	QT Y
366-557	6"	.014	3/4"	6.500	Ea
366-561	6"	.016	5/8"	6,500	Ea
366-584	8"	.014	3/4"	6.000	Ea
366-588	8"	.014	1-3/8"	6.000	Ea

Wire Wheels

CAM Standard Twist Knot Wheel

Knot wire wheels with plain arbor holes are designed and manufactured for die grinders, bench and pedestal grinders or fixed stationary machines used in various production applications. The twist knot design covers larger surface areas and perfect for heavy-duty cleaning applications while offering flexibility.



MULTI FITTING ARBOR HOLE Allows one brush to fit seven (7) arbor sizes by knocking out the reducer bushing. Fits 1/2", 5/8", 3/4", 7/8", 1", 1-3/16" and 2". Reduces inventory and increases order accuracy.

Part #	SIZE	WIRE	WIDTH	MAX RPM	QT Y
366-561	6"	.020	1-3/8"	6.500	Ea