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JOBBER LENGTH, METRIC, 3/8" REDUCED SHANK



Type 190-CN

CN-TECH™ CRYO/NITRIDE 135° Split point

- Nitride coating creates a case hardened surface that is resistant to rust, heat and extends tool life.
- Cryogenic treatment at -300° F increases toughness while reducing brittleness.
- Excellent for truck & trailer repair, and all MRO applications.

Type 190-AG NAS 907B

135° Split point Black & Gold Magnum Super Premium

- Manufactured to NAS 907B aerospace specification
- Body and clearance are gold surface treated for maximum lubricity.
- Recommended for use in work hardening grades of stainless steel & other hard metal drilling applications.

13 Pc.

Part No.	1/16-1/4 by 64ths Qt	y of eacl
44110 SP-13	Black & Gold Super Premium 135° Split point	1
47492 CT-13	CN-TECH™ CRYO/NITRIDE	1

	15 PC
rt No	1/16-1/2 by 3

Part No.	1/16-1/2 by 32nds Q1	y of	each
44120 SP-15	Black & Gold Super Premium 135° Split point	1	
47472 CT-15	CN-TECH™ CRYO/NITRIDE	1	

15 Pc. Ultra Dex™

Part No.	1/16-1/2 by 32nds	
47492 CT 15D	CN-TECH™ CPYO/NITPIDE	1

47482 CT-15P CN-TECH™ CRYO/NITRIDE

21 Pc.

Part No.	1/16-3/8 by 64ths G	lty of	each
44420 CD 24	Disable 0. Calab Coman Danasions 4000 Calibration	- 1	

44130 SP-21 Black & Gold Super Premium 135° Split point

26 Pc.

Part No.	A - Z Q:	ty of	each
99660 SD 26	Plack 9 Cold Cupor Promium 12E9 Colit point	- 1	

88660 SP-26 Black & Gold Super Premium 135° Split point 1

29 Pc. 1/16-1/2 by 64ths

Part No.	1/10-1/2 by 04ths Q	ty or each
44150 SP-29	Black & Gold Super Premium 135° Split point	1
47452 CT-29	CN-TECH™ CRYO/NITRIDE	1

29 Pc. Ultra Dex™

Part No.	1/16-1/2 by 64ths Qt	y of each
44170 SP-29P	Black & Gold Super Premium 135° Split point	1
47462 CT-29P	CN-TECH™ CRYO/NITRIDE	1

29 Pc. Riaze Orange Ultra Dex™

Part No.	1/16-1/2 by 64ths	Qty of each
44400 CD 00DON	Disc. 0. 0.11.0 D	0.000

44190 SP-29PON Black & Gold Super Premium 135° Split point 1

60 Pc. Part No. # 1 - 60 Qty of each

88640 SP-60 Black & Gold Super Premium 135° Split point 1
47502 CT-60 CN-TECH™ CRYO/NITRIDE 1

114 Pc.

 Part No.
 1/16-1/2 by 64ths, #1-#60 & 1.0-13.0 by .05
 Qty of ea.

 93830
 SP-114
 Black & Gold Super Premium 135° Split point
 1

115 Pc.

Part No.	1/16" - 1/2" x 64 ths + A-Z & 1-60 Qt	y of each
93840 SP-115	Black & Gold Super Premium 135° Split point	1
47512 CT-115	CN-TECH™ CRYO/NITRIDE	1

Type 128-AG

3/8" Reduced Shank, 135° Split point Black & Gold - Magnum Super Premium

 Recommended for use in work hardening grades of stainless steel & other hard metal drilling applications.

21 Pc.

Part No. 1/16-1/4 by 64ths, 9/32-1/2 by 32nds **Qty of each** 92170 **RSP-21** 3/8" Reduced Shank 1

15 Pc.

.	1/16-1/2 by 32nds	
Part No.	Description of Sizes	Qty of each
92110 RSP-15	3/8" Reduced Shank	1

29 Pc.

Part No.	Description of Sizes	Qty of each
92100 RSP-29	3/8" Reduced Shank	1

29 Pc. Black - Ultra Dex™

Part No.	1/16-1/2 by 64ths	Qty of each
92150 RSP-29P	3/8" Reduced Shank	1

29 Pc. Blaze Orange - Ultra Dex™

Part #	1/16 - 1/2 by 64ths	Qty of each
92152 RSP-29P0	3/8" Reduced Shank	1

Type 170-AG - Metric

NAS 907B Black & Gold Magnum Super Premium, 135° Split point

- Manufactured to NAS 907B aerospace specification
- Recommended for use in work hardening grades of stainless steel & other hard metal drilling applications.

11 Pc. - Metric

Part #	1.0mm - 6.0mm x .5mm	Qty of each
58650 SP-11M	Black & Gold Super Premium	1

13 Pc.- Metric

Part #	1.0mm - 7.0mm x .5mm	Qty of each
49042 SP-13M	Black & Gold Super Premium	1

19 Pc. - Metric

Part #	1.0mm - 10.0mm x .5mm	Qty of each
58920 SP-19M	Black & Gold Super Premium	1

25 Pc. - Metric

Part #	1.0mm - 13.0mm x .5mm	Qty of each
58660 SP-25M	Black & Gold Super Premium	1

41 Pc. - Metric

Part #	6.0mm - 10.0mm x .1mm	Qty of each
49043 SP-41M	Black & Gold Super Premium	1

Part # 118 Pc. - Metric Qty of each
60090 SP-118M Black & Gold Super Premium 1

60090 SP-118M Black & Gold Super Premium 1 (1.00 - 2.05mm by 0.05mm, 2.10 - 10.00 10mm by 0.1mm & 10.20, 10.50, 10.80, 11.00, 11.20, 11.50, 11.80, 12.00, 12.20, 12.50, 12.80 & 13.00)

Cutting Tool Sets - Mechanic Length

QR 1/4" HEX SHANK & 3/8" REDUCED SHANK, VORTEX-POINT

Type 175-AG

Mechanic Length - 135° Split point Black & Gold Magnum Super Premium 3-Flats on Shank 3/16" and Larger

- Body and clearance are gold surface treated for maximum lubricity.
- · Especially designed for hand held drills.
- · Recommended for use in work hardening grades of stainless steel & other hard metal drilling applications.

13 Pc.

Part N	lo.	Description of Sizes	Qty of each
66460	SPM-13	1/16 - 1/4" by 64ths	1

15 Pc.

Part N	lo.	Description of Sizes	Qty of each
66470	SPM-15	1/16 - 1/2" by 32nds	1

21 Pc.

Part N	lo.	Description of Sizes	Qty of each	
57810 SPM-21		1/16 - 3/8" by 64ths	1	

29 Pc.

Part N	lo.	Description of Sizes	Qty of each	
66480	SPM-29	1/16 - 1/2" by 64ths	1	

29 Pc. Black- Ultra Dex

Part No.	Description of Sizes	Qty	of ea	ch
66820 SPM-29P	1/16 - 1/2" by 64ths - w/ Ultra	Dex	1	

29 Pc. Blaze Orange- Ultra Dex

Part N	o.	Description of Sizes	Qty of each		
67650	SPM-29PO	1/16 - 1/2" by 64ths	1		

Type 178-AG

Mechanics Length -135° Split point 3/8" Reduced Shank with 3-Flats Shank Black & Gold - Magnum Super Premium

21 Pc.

Part No.	Description of Sizes	Qty of each		
92340 RSPM-21	1/16 - 1/4" by 64ths +	1		
9/	32-1/2 by 32nds (3/8" shank)			

15 Pc.

Part No.	Description of Sizes	Qty of each
57910 RSPM-15	1/16 - 1/2" by 32nds	1
	(3/8" shank)	

29 Pc.

Part No.	Description of Sizes	Qty of each
57920 RSPM-29	1/16 - 1/2" by 64ths	1
	(3/8" shank)	

29 Pc. Black- Ultra Dex

Part N	o. Description of Sizes	Qty of each
57950	RSPM-29P 1/16 - 1/2" by 64ths	1
	(3/8" shank) - w/ Ultra Dex	

29 Pc. Blaze Orange- Ultra Dex

Part N	o. Description of Sizes	Qty of each	
58150	RSPM-29PO 1/16 - 1/2" by 64ths	1	
	(3/8" shank) - w/ Ultra Dex		

TYPE OR-AG 1/4" OUICK RELEASE Quick Release Drills -135° Split point Mechanics Length

 135° Split point - Magnum Super Premium with 1/4" Hex Shanks

Perfect for use with impactor tools.

TYPE QR12-AG HARD CASE SET

Part No. **Description of Sizes Qty of each** 1/16, 3/32, 1/8, 5/32,3/16, 7/32, 1/4, 5/16, 34811 3/8, 7/16, 1/2",& Quick Release Adapter





34812	2		1/	16, 3/3	32, 1/8,	,			11
	F/22 2/4C	7/22	4/4	0/22	F/40	44/00	2/0	10/00	

5/32,3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 13/32, 7/16, 15/32, 1/2", & Quick Release Adapter

SOFT POUCH SET

		Des	scriptior	1		Qty		
Part No		0	f Sizes		0	feac	:h	
24004	4 /0	2/16	1/1	E/46 2/0	7/16	1/2"	- 1	

1/8, 3/16, 1/4, 5/16,3/8, 7/16, 1/2

Sets QR-7B and QR-7A do not include Quick Release Adapters

TYPE QR-7A **SOFT POUCH SET**

Description					Qty .			
Part N		0	f Size	es		of	each	
34803	1/16,	3/32,	1/8,	5/32,	3/16,	7/32,	1/4"	1

PORTEX-POINT

VORTEX-POINT™Mechanics Length

135° Split point, 3-flats on Shank Unique tip geometry reduces heat generation & cutting tool wear



Mild steel, Copper, Hardened steel.

			1	3	Р	C	۶.
4	14	c	4	1411	h.		c

Part #	1/16-1/4" by 64ths	Qty of each
22863 VT-13	VORTEX-POINT™ 135° Split point	1
	15 Pc.	
Part #	1/16-1/2" by 32nds	Qty of each
22873 VT-15	VORTEX-POINT™ 135° Split point	1
	21 Pc.	
Part #	1/16-3/8" by 64ths	Qty of each
22883 VT-21	VORTEX-POINT™ 135° Split point	1
	29 Pc.	
Part #	1/16-1/2" by 64ths	Qty of each
22893 VT-29	VORTEX-POINT™ 135° Split point	1

29 Pc. Black - Illtra Nex

Part #	1/16-1/2" by 64ths	Qty of each
22903 VT-29P	VORTEX-POINT™ 135° Split point	1

VORTEX-POINT™ 135° Split point

2	9 Pc. B	c. Blaze Orange - Vitra Dex				
Part #		1/16-1/2" by 64ths		Qty of o	Qty of eacl	
22913 VT-	29PO VORT	FY-POINT™	135º Snlit noi	nt 1		

NAS 907B TITANIUM NITRIDE/TICN/TIAIN & BLACK OXIDE, HI-HELIX FLUTES

Type 190-SS High Helix Flutes

Jobber Length - 135° Split point

- · High Helix Flute design allows for increased feed rates.
- Recommended for stainless steel, aluminum, brass and all other non-ferrous metals.

13 Pc.

Part No.	1/16 - 1/4" by 64ths	Qty of each
41591 SS-13	High Helix Flutes 135° Split point	1

Part No.	15 Pc. 1/16-1/2" by 32nds	Qty of each
41601 SS-15	High Helix Flutes 135° Split point	1

29 Pc.

Part No.	1/16-1/2" by 64ths	Qty of each
41611 SS-29	High Helix Flutes 135° Split point	1

29 Pc. Ultra Dex

Part No.	1/16-1/2" by 64ths	Qty of each
41621 SS-29P	High Helix Flutes 135° Split point	1





Type 190 Black Oxide NAS 907B - Heavy-Duty

- The 135° Split point makes this drill self-centering and requires less thrust in drilling harder metal than a general purpose drill.
- Recommended for medium hardness drilling applications.

Type 190-AN Titanium Nitride Coated NAS 907B - 135° Split point Heavy-Duty

- TiN coating provides a super hard surface with high lubricity.
- · Greatly extends tool life in high wear or very abrasive applications.

Type 190-ACN Titanium Carbon Nitride (TiCN) NAS 907B - 135° Split point - HSS Heavy Duty

- TiCN is harder and has a lower coefficient of friction then Titanium nitride coating recommended were moderate temperatures are generated
- · Heavy-duty construction for drilling in tougher materials
- · Manufactured from premium high-speed steel
- 135° Split point is self-centering for reducing thrust and easier penetration
- · Provides exceptional oxidation resistance and extreme hardness
- · Manufactured to NAS 907B aerospace specification.

Type 190-ALN Titanium Aluminum Nitride (TiAIN) NAS 907B - 135° Split point - HSS Heavy Duty

- TiAIN provides extreme hardness and oxidation resistance, superior hot hardness when compared to other coatings.
- · Heavy-duty construction for drilling in tougher materials
- Manufactured from premium high-speed steel
- 135° Split point is self-centering for reducing thrust and easier penetration
- Provides exceptional oxidation resistance and extreme hardness
- · Manufactured to NAS 907B aerospace specification.

10 Pc.

	1/1	6 - 5/32" by	v 64ths	+ 3/16, 7/3	2, 1/4
Part #			•	•	Qty of each
43330	A-10	Black Ox	ide - 135	o Split point	1
			11 P	C.	
Part #		1/16	- 3/8" h	v 32nde	Oty of each

Part # 1/16 - 3/8" by 32nds Qty of each 43320 A-11 Black Oxide - 135° Split point 1

13 Pc.

Part #	1/16 - 1/4" by 64ths	Qty of each	
43340 A-13	Black Oxide - 135° Split point	1	
88670 AN-13	Titanium Nitride - 135° Split point	t 1	

15 Pc.

Part #	ŧ .	1/16 - 1/2" by 32nds	Qty of each	
43350	A-15	Black Oxide 135° Split point	1	
88680	AN-15	Titanium Nitride 135° Split point	1	
81182	ACN-15	Titanium Carbon Nitride 135° SP	1	
81150	ALN-15	Titanium Aluminum Nitride 135° SI	2 1	

Part #	1/16 - 3/8" by 64ths	Qty of each
43360 A-21	Black Oxide - 135° Split point	1
96740 AN-21	Titanium Nitride 135° Split point	1
88680 ACN-2	1 Titanium Carbon Nitride 135° Poir	nt 1
81160 ALN-2	1 Titanium Aluminum Nitride 135° S	P 1

NAS 907B TITANIUM NITRIDE / TiCN / TiAIN & BLACK OXIDE

Type 190 Heavy-Duty NAS 907B - Black Oxide

- The 135° Split point makes this drill self-centering and requires less thrust in drilling harder metal than a general purpose drill.
- It is recommended for medium hardness drilling applications.

Type 190-AN Titanium Nitride NAS 907B 135° Split point Heavy-Duty

- Titanium nitride provides a super hard surface with high lubricity.
- · Greatly extends tool life in high wear or very abrasive applications.

Type 190-ACN Titanium Carbon Nitride (TiCN) NAS 907B - 135° Split point Heavy-Duty

- · Heavy-duty construction for drilling in tougher materials
- · Manufactured from premium high-speed steel
- 135° Split point is self-centering for reducing thrust and easier penetration
- Provides exceptional oxidation resistance and extreme hardness
- Manufactured to NAS 907B aerospace specification.

Type 190-ALN Titanium Aluminum Nitride (TiAIN) NAS 907B - 135° Split point Heavy-Duty

- · Heavy-duty construction for drilling in tougher materials
- · Manufactured from premium high-speed steel
- 135° Split point is self-centering for reducing thrust and easier penetration
- Provides exceptional oxidation resistance and extreme hardness
- · Manufactured to NAS 907B aerospace specification.

26 Pc.

Part #	A - Z Qty	of each
43370 A-2	Black Oxide - 135° Split point	1
81172 ACI	N-26 Titanium Carbon Nitride 135° Split point	1
81170 ALM	I-26 Titanium Aluminum Nitride 135° Split point	1

29 Pc.

Part #	ŧ	1/16 - 1/2 by 64ths Qty	of each
43380	A-29	Black Oxide - 135° Split point	1
96690	AN-29	Titanium Nitride - 135° Split point	1
81162	ACN-29	Titanium Carbon Nitride 135° Split point	1
81180	ALN-29	Titanium Aluminum Nitride 135° Split point	1

29 Pc. Blaze Orange - Ultra Dex

Part No.		1/16-1/2 by 64ths Q	ty of	each
96770	AN-29PON	Titanium Nitride - 135° Split point	1	

60 Pc.

Part #	# 1 - 60	Qty of each
43390 A-60	Black Oxide - 135° Split point	1
96700 AN-60	Titanium Nitride - 135° Split point	1

115 Pc.

1/16 - 1/2 by 64ths + A - Z. #1 - 60

Part #		Qty of each
43420 A-115	Black Oxide - 135° Split point	1
95110 AN-115	Titanium Nitride - 135° Split point	1









V-LINE, GOLD STRIKE & 3/8" REDUCED SHANK - JOBBER LENGTH

Type 198 V-Line Heavy-Duty Black Oxide

· American made value line drill.

 These 135° Split point drills are self centering and perform well in hard metals.

 This series is designed for the user whose applications are well served with out the need for the tighter tolerances of our standard Type 190.

Type 190-GF Gold-Strike TM

3-Flats on Shank 3/16" and Larger

Heavy-duty 135° Split point drills perform well in very demanding applications.
 Ideal for use with hand held drills with key-less chucks.

Type 190-GFR 3/8" Reduced Shank with Flats

- Heavy-duty gold finish 135° Split point drills perform well in very demanding applications.
- The flats on shank give positive chuck grip, ideal for use with hand held drills with key-less chucks.

13 Pc.

Part #	1/16 - 1/4" by 64ths	Qty of each
06072 SA-13	Black Oxide - 135° Split point	1
40611 GF-13	Gold Strike™ - 135° Split point	1

15 Pc.

Part #	1/16 - 1/2	2" by 32nds	Qty of e
16092 CA 15	Plack Ovida	1250 Calit point	1

rait #		aty or each
06082 SA-15	Black Oxide - 135° Split point	1
40612 GF-15	Gold Strike™ - 135° Split point	1

21 Pc.

Part #	ŧ	1/16 - 3/8" by 64ths	Qty of each
06092	SA-21	Black Oxide - 135° Split point	1
40613	GF-21	Gold Strike™ - 135° Split point	1
(1/1	16 - 1/4" by	64ths & 9/32 - 1/2" by 32nds 3/8" redu	ced shank)
40631	GF-21RS	3/8"- Reduced Shank Gold Strike™	1

29 Pc.

Part #		1/16 - 1/2" by 64ths	Qty of each	
06102	SA-29	Black Oxide - 135° Split point	1	
40604	GF-29	Gold Strike™ - 135° Split point	1	
40641	GF-29RS	3/8"- Reduced Shank Gold Strike™	1	

29 Pc. -Ultra Dex

Part #	1/16 - 1/2" by 64ths	Qty of each
40614 GF-	9P Gold Strike™ - 135° Split point	1
40651 GF-	29RSP 3/8"- Reduced Shank Gold Strike™	1







COBALT HEAVY DUTY 135° SPLIT POINT - JOBBER LENGTH

Type 150 M42 Cobalt NAS 907J

- Manufactured from M42 HSS containing 8% cobalt which increases high red hardness.
- · Cobalt drills require rigidly held positive feed drilling equipment.
- · Manufactured to NAS 907J specifications.

Type 150-N M42 Cobalt NAS 907J - Titanium Nitride

Manufactured from M42 HSS containing 8% cobalt which increases high red hardness.

- · Cobalt drills require rigidly held positive feed drilling equipment.
- · Titanium Nitride extends tool life.
- · Manufactured to NAS 907J specifications.

Part #	1/16 - 1/4" by 64ths	Qty of each
68320 D-13	M42 Cobalt NAS 907J	1
79890 DN-13	M42 Cobalt NAS 907J Titanium Nitride	1

Part #	15 Pc. 1/16-1/2" by 32nds	Qty of each	
68340 D-15	M42 Cobalt NAS 907J	1	
79900 DN-15	M42 Cobalt NAS 907J	1	
	Titanium Nitride		

Part #	20 Pc. #60 - 80	Qty of each	
68310 D-20	M42 Cobalt NAS 907J	1	

Part #	21 PC. 1/16-3/8" by 64ths	Qty of each
68360 D-21	M42 Cobalt NAS 907J	1
79910 DN-21	M42 Cobalt NAS 907J Titanium Nitride	1

Part #	26 Pc. A - Z	Qty of each	
68380 D-26	M42 Cobalt NAS 907J	1	
79930 DN-26	M42 Cobalt NAS 907J	1	

Part #	29 Pc. 1/16-1/2" by 64ths	Qty of each
68400 D-29	M42 Cobalt NAS 907J	1
79920 DN-29	M42 Cobalt NAS 907J Titanium Nitride	1

Part #	29 PcUltra Dex 1/16-1/2" by 64ths	Qty of each
68410 D-29P	M42 Cobalt NAS 907J	1

Part #	60 Pc. #1 - 60	Qty of each	
68420 D-60	M42 Cobalt NAS 907J	1	
79940 DN-60	M42 Cobalt NAS 907J Titanium Nitride	1	

1	1	5	P	C.				
21/	61	the	_	^	7	#4	60	

Part #	1/16-1	/2" by 64ths + A - Z , #1 - 60	Qty of each
69280 I	D-115	M42 Cobalt NAS 907J	1
79950 I	DN-115	M42 Cobalt NAS 907J	1
		Titanium Nitride	









D-115

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Cutting Tool Sets

COBALT HEAVY DUTY 135° SPLIT POINT - JOBBER LENGTH

Type 150-M Metric M42 Cobalt NAS 907J

• Manufactured from M42 HSS containing 8% cobalt which increases high red hardness. · Cobalt drills require rigidly held positive feed drilling equipment.

· Manufactured to NAS 907J specifications.



Part #	11 Pc WFT C 1.0mm - 6.0mm x .5mm	Qty of each
58670 D-11M	M42 Cobalt NAS 907J Gold Oxide	1

	13 Pc Welf G	
Part #	1.0mm - 7.0mm x .5mm	Qty of each
49082 D-13M	M42 Cobalt NAS 907J	1
	Gold Oxide	

Part #	19 Pc WELTE 1.0mm - 10.0mm x .5mm	Qty of each
49081 D-19M	M42 Cobalt NAS 907J Gold Oxide	1
	25 Pc <mark>WGUT</mark> G	

	25 PC MUUU	
Part #	1.0mm - 13.0mm x .5mm	Qty of each
58680 D-25M	M42 Cobalt NAS 907J	1
	Gold Oxide	

	41 Pc MGT C	
Part #	6.0mm - 10.0mm x .1mm	Qty of each
49083 D-41M	M42 Cobalt NAS 907J	1
	Gold Oxide	





GENERAL PURPOSE 118° POINT - JOBBER LENGTH

Type 115 Black Oxide

- · Widely used in general purpose applications.
- Designed for a wide range of operating conditions and materials.

Type 100 Bright Finish

- Widely used in general purpose applications.
- · Designed for a wide range of operating conditions and materials.

Type 100-BN Titanium Nitride

- · Titanium Nitride extends cutting tool life.
- · Widely used in general purpose applications.
- Designed for a wide range of operating conditions and materials.

Type 128 Bright Finish 3/8" Reduced Shank

 General purpose 118° point HSS drill is designed for use in portable air or electric drilling equipment with 3/8" chucks.

Type 118 V-Line Black Oxide

- American made value line drill
- These general purpose 118° point HSS drills are ideal for a wide variety of light tensile strength metal drilling applications.
- This series is designed for the user whose applications are well served with out the need for the tighter tolerances of our **standard Type 115**.



1/16 - 5/32" by 64ths + 3/16", 7/32", 1/4"

Part #		,,,, ,, ,	Qty of each
42000	B-10	Black Oxide - 118° Point	1
43400	J-10	Bright Finish - 118° Point	1

11 Pc.

Part #		1/16 - 3/8" by 32nds	Qty of each
42010	B-11	Black Oxide - 118° Point	1
43410	J-11	Bright Finish - 118° Point	1

13 Pc.

Part #	1/16 - 1/4" by 64ths	Qty of each	
42020 B-13	Black Oxide - 118° Point	1	
43430 J-13	Bright Finish - 118° Point	1	
48310 BN-13	Titanium Nitride - 118° Point	1	
06073 S.I-13	V-I ine Black Oxide - 118º Point	1	

Part #		1/16 - 1/2" by 32nds	" by 32nds Qty of each	
42030	B-15	Black Oxide - 118° Point	1	
43450	J-15	Bright Finish - 118° Point	1	
48320	BN-15	Titanium Nitride - 118° Point	1	
44540	R-15	3/8" Reduced Shank Bright Finish	1	
06083	SJ-15	V-Line Black Oxide - 118° Point	1	





B-21



GENERAL PURPOSE 118° POINT - JOBBER LENGTH

Type 115 Black Oxide

- · Widely used in general purpose applications.
- Designed for a wide range of operating conditions and materials.

Type 100 Bright Finish

- Widely used in general purpose applications.
- Designed for a wide range of operating conditions and materials.

Type 100-BN Titanium Nitride

- Titanium Nitride extends cutting tool life.
- · Widely used in general purpose applications.
- Designed for a wide range of operating conditions and materials.

Type 128 Bright Finish, 3/8" Reduced Shank

• General purpose 118° point HSS drill is designed for use in portable air or electric drilling equipment with 3/8" chucks.

Type 118 V-Line, Black Oxide

- · American made value line drill
- Theses general purpose 118° point HSS drills are ideal for a wide variety of light tensile strength metal drilling applications.
- This series is designed for the user whose applications are well served without the need for the tighter tolerances of our standard Type 115.

20 Pc.

Part #		# 61 - 80	Qty of each
42040	B-20	Black Oxide - 118° Point	1
43460	J-20	Bright Finish - 118° Point	1
48360	BN-20	Titanium Nitride - 118° Point	1

21 Pc.

Part #		1/16 - 3/8" by 64ths	Qty of each
42050	B-21	Black Oxide - 118° Point	1
43480	J-21	Bright Finish - 118° Point	1
06093	SJ-21	V-Line Black Oxide - 118° Point	1

26 Pc.

Part #		A-Z	Qty of each
42060	B-26	Black Oxide - 118° Point	1
48640	BN-26	Titanium Nitride - 118° Point	1
43500	J-26	Bright Finish - 118° Point	1

29 Pc.

		1/10 - 1/2 Dy 04(115	
Part #			Qty of each
42070	B-29	Black Oxide - 118° Point	1
43520	J-29	Bright Finish - 118° Point	1
48330	BN-29	Titanium Nitride - 118° Point	1
44530	R-29	3/8" Reduced Shank Bright Finish	1
06103	S.I-29	V-I ine Black Oxide - 118º Point	1

Part #		# 1 - 60	Qty of each
42080	B-60	Black Oxide - 118° Point	1
43540	J-60	Bright Finish - 118° Point	1
48340	BN-60	Titanium Nitride - 118° Point	1





GENERAL PURPOSE 118° POINT - JOBBER LENGTH

Type 115 Black Oxide

- · Widely used in general purpose applications.
- · Designed for a wide range of operating conditions and materials.

Type 100 Bright Finish

- · Widely used in general purpose applications.
- · Designed for a wide range of operating conditions and materials.

Type 100-BN Titanium Nitride

- · Titanium Nitride extends cutting tool life.
- · Widely used in general purpose applications.
- Designed for a wide range of operating conditions and materials.

Type 128 Bright Finish 3/8" Reduced Shank

 General purpose 118° point HSS drill is designed for use in portable air or electric drilling equipment with 3/8" chucks.

NOTE: Surface treated flutes on sizes larger than 1/2".

Type 170 Black Oxide - WOUTE

- · Widely used in general purpose applications.
- Designed for a wide range of operating conditions and materials.

	80 Pc.	
Part #	#1 - 80	Qty of each
43300 B-80	Black Oxide - 118° Point	1
1/16 - 1/2 by	114 Pc. 64ths, #1 - 60 , 1.0mm - 13.0mm	n by .5mm
Part #		Qty of each
43310 B-114	Black Oxide - 118° Point	1



Part # Qty of each				
43440	B-115	Black Oxide - 118° Point	1	
43550	J-115	Bright Finish - 118° Point	1	
48350	BN-115	Titanium Nitride - 118° Point	1	
44520	R-115	3/8" Reduced Shank Bright Finish	1	







BRIGHT 1/4" SHANK JOBBER LENGTH - COBALT SCREW MACHINE

Type 120

1/4" Shank - General Purpose 118° Point

 For use in portable air and electric equipment with 1/4" chucks, the shorter-than-jobber length greatly increases rigidity and improves performance.



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	Sec.	-	~
- 1	-		No.

Part #	1/16 - 1/2 by 32nds	1/16 - 1/2 by 32nds
43580 Q-15	Black Oxide Flutes - 118° Point	1

21 Pc.

Part #	1/16 - 1/2 by 32nds	Qty of each
43600 O-2	Black Oxide Flutes - 118º Point	1

29 Pc.

Part #	1/16 - 1/2 by 64ths	Qty of each
43620 Q-29	Black Oxide Flutes - 118° Point	1



Screw Machine Length, Magnum Super Premium Black & Gold, 135° Split point

- Special Hi-Molybdenum surface treated body and clearance for maximum lubricity.
- Recommended for work hardening grades of stainless steel and other hard metal drilling applications.

		26 Pc.	
Part N	lo.	Description of Sizes	Qty of each
66850	SPT-26	A-Z	1
		29 Pc.	
Part No.		Description of Sizes	Qty of each
66490	SPT-29	1/16-1/2 by 64ths	1
		60 Pc.	
Part No.		Description of Sizes	Qty of each
23560	SPT-60	#1-60	1

Type 260-D

135° Split point M42-Cobalt Screw Machine NAS 907C High-Speed Steel Heavy-Duty Gold Finish

- Use to drill hard, tough metals, free machining stainless steel, titanium alloys and certain abrasive plastics.
- High red hardness of cobalt permits speed 30% over regular high-speed drills.

	13 Pc.	
Part No.	1/16 - 1/4 by 64ths	Qty of each
42610 DT-13	M42 Cobalt NAS 907C	1
	15 Pc.	
Part No.	1/16 - 1/2 by 32nds	Qty of each
4262 0 DT-15	M42 Cobalt NAS 907C	1
	21 Pc.	
Part No.	1/16 - 3/8 by 64ths	Qty of each
42640 DT-21	M42 Cobalt NAS 907C	1
	29 Pc.	
Part No.	1/16 - 1/2 by 64ths	Qty of each
4263 0 DT-29	M42 Cobalt NAS 907C	1

PARABOLIC TITANIUM NITRIDE & BLACK OXIDE

Type 190-P

Parabolic Flute 135° Split point Black Oxide

- Parabolic flute drills are designed to allow deep hole drilling without frequent drill removal to clear chips.
- Drills perform best in low to medium tensile strength materials.

Type 190-PT

Parabolic Flute 135° Split point - Titanium Nitride

- Exceptional high-performance drill with the Titanium Nitride coating may extend tool life 500% or more in very abrasive drilling applications.
- The parabolic flutes eliminate the need for frequent drill removal in deep hole drilling.

13 Pc.

Part #	1/16-1/4 by 64ths	Qty of each
68080 P-13	Black Oxide -135° Split point	1
68090 PT-13	Titanium Nitride -135° Split point	: 1

15 Pc.

Part #		1/16-1/2 by 32nds	Qty of each
68100	P-15	Black Oxide -135° Split point	1
68110	PT-15	Titanium Nitride -135° Split point	1

21 Pc.

Part #		1/16-3/8 by 64ths	Qty of each
68120	P-21	Black Oxide -135° Split point	1
68130	PT-21	Titanium Nitride -135° Split point	: 1

Part #	1/16-1/2 by 64ths	Qty of each
68150 P-29	Black Oxide -135° Split point	1
68160 PT-29	Titanium Nitride -135° Split point	1





CAD-HD, SCREW MACHINE & ACRYLIC DRILLS

Type 191 CAD-HD - Mechanic Length V-Line Heavy-Duty Black Oxide - 135° Split point

Black oxide prevents chip welding and increases abrasion resistance.
 American made value line drill



	13 Pc.	
Part #	1/16 - 1/4 by 64ths	Qty of each
43342 CAD-13A	Black Oxide - 135° Split point	1
	15 Pc.	
Part #	1/16 - 1/2 by 32nds	Qty of each
43352 CAD-15A	Black Oxide - 135° Split point	1
	21 Pc.	
Part #	1/16 - 3/8 by 64ths	Qty of each
43362 CAD-21A	Black Oxide - 135° Split point	1
	29 Pc.	
Part #	1/16 - 1/2 by 64ths	Qty of each



Type 183-AGSuper Premium Acrylic Drills

 Super CHIPFREE™ point is precision ground at a 60° angle for gradual penetration to avoid cracking and chipping of the acrylic material.

43382 CAD-29A Black Oxide - 135° Split point

 Special 0° rake angle on cutting edge eliminates "grabbing" when drill breaks through plastic, acrylic, or laminate surfaces.

• All sizes over 1/4" have 1/4" shanks.

7 Pc.

Part # 1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2 Qty of each
31580 AD-7 Acrylic Drills Super ChipFree™ 1

Type 260118° Point Screw Machine Length High Speed Steel - General Purpose

- The short length of drill and flute makes this an especially rigid drill for greater drilling accuracy.
- This drill is designed for ease of penetration and to facilitate chip removal in tough, hard materials.

Type 260-BN

118° Point Screw Machine Length Titanium Nitride High Speed Steel

- The short length of drill and flute makes this an especially rigid drill for greater drilling accuracy.
- · Can be used for all screw machine operation.
- This drill is designed for ease of penetration and to facilitate chip removal in tough, hard materials

	29 PC.	
Part #	1/16 - 1/2 by 64ths	Qty of each
10390 SM-29	Screw Machine - 118° Point	1
Part #	60 Pc. #1 - 60	Qty of each
35210 SM-60	Screw Machine - 118° Point	1

	29 Pc.		
Part #	1/16 - 1/2 by 64ths	Qty	of each
25243 SMN-29	Titanium Nitride - Screw Machine)	1
	60 Pc.		
Part #	#1 - 60	Qty	of each
25253 SMN-60	Titanium Nitride - Screw Machine	į	1

BLACK OXIDE & TITANIUM NITRIDE - SCREW MACHINE LENGTH

Type 135 Screw Machine Length, NAS 907C Black Oxide 135° Split point

- · A sturdy drill for use in portable power drilling.
- · Accurate centering, fast penetration. Ideal for thin metal work.

Type 135-TN Titanium Nitride NAS 907C Screw Machine Length Heavy-Duty 135° Split point

- A sturdy drill for use in portable power drilling.
- · Accurate centering, fast penetration. Ideal for thin metal work.
- · TiN coating extends tool life.

Type 135-AG

Screw Machine Length Black & Gold Super Premium 135° Split point

- Special Hi-Molybdenum surface treated body and clearance for maximum lubricity.
- Recommended for work hardening grades of stainless steel and other hard metal drilling applications.

10 Pc.

1/16 - 5/32 by 64ths + 3/16, 7/32, 1/4

Part #		Qty of each
43660 T-10	Black Oxide - 135° Split point	1

11 Pc.

Part #		1/16 - 3/8 by 32nds	Qty of each
43670	T-11	Black Oxide - 135° Split point	1

13 Pc.

Part #	1/16 - 1/4 by 64ths	Qty of each
43690 T-13	Black Oxide - 135° Split point	1

21 Pc.

Part #		1/16 - 3/8 by 64ths	Qty of each
43710	T-21	Black Oxide - 135° Split point	1

26 Pc.

Part N	lo.	A-Z	Qty of each
66850	SPT-26	Black & Gold - 135° Split point	1

29 Pc.

Part #		1/16 - 1/2 by 64ths	Qty of each	
43730	T-29	Black Oxide - 135° Split point	1	
96680	TN-29	Titanium Nitride - 135° Split point	1	
66490	SPT-29	Black & Gold - 135° Split point	1	

Part #	:	# 1 - 60	Qty	of each
43750	T-60	Black Oxide - 135° Split point		1
96730	TN-60	Titanium Nitride - 135° Split point		1
23560	SDT_60	Black & Cold - 135° Split point		1





1/2" SHANK SILVER & DEMING

Type 130-AG

1/2" Shank Silver & Deming Premium, 3-Flats on Shank Heavy-Duty 135°Split point

• 135° Split point for fast penetration and accurate starting without a center punch.

- One piece solid construction
- · Sizes larger than 1" diameter have 118° Split point.
- · Recommended for use in work hardening grades of stainless steel and other hard metal drilling applications.

Type 130-AGX

1/2" Shank Silver & Deming Premium - 3-Flats on Shank 118° Split point

M2 High Speed Steel

Type 130-CN

· Precision ground point, flutes, body and clearance. 118° Split point for general purpose drilling in metal, wood and plastic.



1/2" Shank Silver & Deming

135° Split point - 3-Flats on Shank · Nitride process case hardening resulting in superior

tool life and exceptional corrosion resistance.

Excellent for truck & trailer repair, and all MRO application.

Type 130-D 1/2" Shank Silver & Deming M42 Cobalt 135° Split point

 Manufactured from M42 HSS containing 8% cobalt which increases high red hardness.

· Cobalt drills require rigidly held postive feed drilling equipment.

Type 130 1/2" Shank Silver & Deming 118° General Purpose

- This general purpose 118° point high-speed steel drill is recommended for use in portable air and electric drilling equipment with 1/2" chucks.
- Type 130 drills may be used in power applications such as drill presses where a short rigid drill is required.

Type 130-MRO Silver & Deming, 135° Split point, 3-Flats on Shank

• The 130-MRO is a shorter (5") tougher version of our very popular 1/2" reduced shank product.

· Designed specifically for the needs of the MRO market, the 130-MRO has a slit point (135°) to insure fast hole starts without drill walking.

> This feature packed tool provides tremendous value for your drilling dollar.

S&D-4CN S&D-4SP

PTECH Cryogenic Nitrided HSS Products

4 Pc.

Part #	9/16, 5/8, 3/4, 1"	Qty of each
12260 S&D-4	1/2" Shank-Silver & Deming	1
12250 S&D-4SP	1/2" Shank-Silver & Deming	1
74771 S&D-4AGX	1/2" Shank-Silver & Deming	1
29551 S&D-4D	M42 Cobalt	1
30323 S&D-4CN	CN-TECH™ CRYO/NITRIDE 1/2" Shank - Silver & Deming	1

8 Pc.

Part #		9/16 - 1" by 16ths	Qty of each
43200	S&D-8	1/2" Shank - Silver & Deming	1
92400	S&D-8SP	1/2" Shank - Silver & Deming	1
74781	S&D-8AGX	1/2" Shank - Silver & Deming	1
29571	S&D-8D	M42 Cobalt	1
30333	S&D-8CN	CN-TECH™ CRYO/NITRIDE 1/2" Shank - Silver & Deming	1

13 Pc.

Part # 3 ea.(9/16" & 5/8") 2 ea.(3/4") 11/16", 13/16", 7/8", 15/16", 1"	Qty of each
30343 S&D-13CN	CN-TECH™ CRYO/NITRIDE	1
	1/2" Shank - Silver & Deming	

33 Pc.

Part #		1/2 - 1" by 64ths	Qty of each
43201	S&D-33	1/2" Shank	1
		Type 130 Silver & Deming	
92401	S&D-33SP	1/2" Shank	1
		Type 130-AG Silver & Deming	
30353	S&D-33CN	CN-TECH™ CRYO/NITRIDE	1
		1/2" Shank - Silver & Deming	

Pc. - MRO

Part No.	9/16, 5/8, 3/4 & 1"	Qty of each
54520 S&D-4MRO	1/2" Shank	1
	Silver & Deming 130-MRO	

3/16", 1/4", 5/16", 3/8" + 3/8", 1/2", 5/8", 3/4" **Qty of each** Part # 82340 VORTEX-POINT™ + Fast Spiral Reamer 1 Type 175-VT & 51-UBM

Type VT&R-8P **ORTEX**-POINT" & FAST SPIRAL REAMER-MAINT. Mechanics Length, 3-Flat on the Shank

- VORTEX-POINT™ unique tip geometry reduces heat generation & cutting tool wear increasing tool life.
 - · High speed steel aligning reamer.
 - · Right hand fast spiral flute, left hand cut.

WELDOUT™ SPOTWELD DRILLS SETS

- This rugged high performance drill is designed to effectively cut auto body panel spot welds.
- The high red hardness of cobalt steel permits speeds 30% greater than HSS drills.
- Cobalt steel is substantially more abrasion resistant, resulting in long wearing cutting edges.
- A selection of the most popular sizes of spot weld drills in an attractive, rugged black steel case.





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Part #	Description of Sizes
35050	8.0mm & 10mm Single-end

8.0mm & 10mm Single-end 8.0mm & 10mm Twin-end

TYPE 186 WO-6

Part # Description of Sizes 35010 6.5mm, 8.0mm &

> 10.0mm single-end drills. 6.5mm, 8.0mm & 10.0mm twin end drills.

LEFT HAND DRILL SETS

Type 190-AL

Magnum Super Premium - Left Hand Spiral 135° Split point

- Precision ground point, flutes, body, clearance and drill diameter for the ultimate in accuracy and performance.
- · Ideal for drilling broken studs.
- · Need for screw and bolt extractor may be eliminated.

8 Pc.

Part No.	Description of Sizes	Qty of each	
87650 I F-8	1/16 1/8 3/16 1/4 5/16 3/8 7/16	1/2" 1	

12 Pc.

Part No.	Description of Sizes	Qty of each	
87651 F-12	1/16 - 5/16 by 32nds 3/8 7/16 &	1/2" 1	

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Part No.	Description of Sizes	Qty of each
87652 LF-13	1/16 - 1/4 by 64ths	1

15 Pc.

Part No.	Description of Sizes	Qty of each	
87654 LF-15	1/16 - 1/2" by 32nds	1	

17 Pc.

Part No.	Description of Sizes	Qty of each
87853 LF-17	1/16-1/4 by 64ths, 5/16-1/2 by 16ths	1

29 Pc.

Part No.	Description of Sizes	Qty of each	
87854 LF-29	1/16-1/2 by 64ths	1	

29 Pc. - Illtra Nex

Part No.	Description of Sizes	Qty of each
87859 LF-29P	1/16-1/2 by 64ths	1



BRAD POINT DRILLS

Type 16-AG

Jobber Length Burrout™ Brad Point Super Premium

- These high performance drills made from Hi-Moly tool steel will cut holes in wood or plastics and leave no burr.
- They will also drill splinter free holes in wood.
- The special **BURROUT™** point cuts at the circumference of the hole to avoid the break through burr problems common with standard point drills.



10 Pc.

Part No.	Description of Sizes	Qty of each
42001 BF-10	5/64 - 3/16 by 64ths + 7/32 1/4"	1

Part No.	Description of Sizes	Qty of each
42031 BF-14	5/64 - 3/16 by 64ths +	1
	7/32 1/4 - 1/2" by 16ths	

128

Cutting Tool Sets

TAP & DRILL, COMBINATION DRILL & TAPS SETS

Type 40-AG

Combination Drill & Tap Sets -Magnum Super Premium



- Combination drill and taps are ideally suited for on-site tapping in construction, maintenance and repair, assembly, production and other applications where one pass drilling and tapping saves time and costs.
- Gold surface treatment for maximum lubricity.
- Self-centering Split point in

Self-centerir	ng Split point insures excellent drilling p	recision and accura	acy.
Part No.	7 Pc. Description of Sizes	Part No.	7 Pc. Description of Sizes
73991 Fine	40-AG - DT-7F 8-36, 10-32,1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2"-20	73990 Coarse	40-AG - DT-7C 8-32, 10-24, 1/4" -20, 5/16-18, 3/8-16, 7/16-14, 1/2"-13
Part No.	6 PC. Description of Sizes	Part No.	5 Pc. Description of Sizes
21330	40-AG - DT-6	21324	40-QR - DT-5

6-32, 8/32,10-24,10-32, 12-24, 1/4"-20



DT-7F

TAP & DRILL SETS

Magnum Super Premium

- · Hi-Molybdenum super premium twist drill combined with the corresponding Hi-Tungsten Magnum Super Premium tap.
- Both tools are gold surface treated for maximum lubricity, and precision ground for the ultimate in accuracy and performance.

6-32, 8/32,10-24,10-32, 12-24, 1/4"-20

SP-18TD Part No.	SPIRAL POINT, NC Description of Sizes
57580	
190-AG Drill Sizes	#36, 29, 25, 21, 7, F, 5/16, U & 27/64
20-AG Tap Sizes	6-32, 8-32, 10-24, 10-32, 1/4-20 7 5/16-18,
	2/2 16 7/16 1/1 2 1/2 12

SP-18TDM	SPIRAL POINT, METRIC
Part No.	Description of Sizes
57990	
170-AG Drill Sizes (mm)	2.05, 2.50, 2.90, 3.30, 4.20
	5.00, 6.70, 8.50 & 10.20
21-AG Tap Sizes (mm)	2.545, 3.050, 3.560, 4.070,
5.080, 6.0-1	1.00, 8.0-1.25, 10.0-1.50 & 12.0-1.75

SP-18TDF	SPIRAL POINT, NF
Part No.	Description of Sizes
58010	

00010	
190-AG Drill Sizes	#33, 29, 25, 21, 3, 1, Q, 25/64 & 29/64
20-AG Tap Sizes	6-40, 8-36, 10-24, 10-32, 1/4-28,
	5/16-24, 3/8-24, 7/16-20 & 1/2-20

SP-12TD	SPIRAL POINT, NC
Part No.	Description of Sizes
58501	
190-AG Drill Sizes	#36, 29, 25, 21, 7, F
20-AG Tap Sizes	6-32, 8-32, 10-24, 10-32, 1/4-20 & 5/16-18

SF-18TDC	STRAIGHT FLUTE, NC
Part No.	Description of Sizes
60930	
190-AG Drill Sizes	#36, 29, 25, 21, 7, F, 5/16, U & 27/64
24-AG Tap Sizes	6-32, 8-32, 10-24, 10-32, 1/4-20, 5/16-18,
	3/8-16, 7/16-14 & 1/2-13

SF-18TDF Part No.	STRAIGHT FLUTE, NF Description of Sizes
60940	
190-AG Drill Sizes	#33, 29, 25, 21, 3, 1, Q, 25/64 & 29/64
24-AG Tap Sizes	6-40, 8-36, 10-24, 10-32, 1/4-28, 5/16-24,
	3/8-24, 7/16-20 & 1/2-20

SF-10TD	STRAIGHT FLUTE, NC
Part No.	Description of Sizes
58500	
190-AG Drill Sizes	31/64
130-AG Drill Sizes	17/32, 21/32, 49/64 & 7/8
24-AG Tap Sizes	9/16-12, 5/8-11, 3/4-10, 7/8-9 & 1-8

BRIGHT FINISH 118° POINT DRILL & HSS GENERAL PURPOSE TAPS

B-18TD Part No.		118º POINT DRILLS MAINT. Description of Sizes
60541		
Type 100	Drills Sizes	# 7, 21, 25, 29, 36, F, U, 5/16, 27/64
Type 100	Drill Sizes	# 7, 21, 25, 29, 36, F, U
Type 20	Tap Sizes 6	3-32, 8-32, 10-24, 10-32, 1/4-20 5/16-18 3/8-16, 7/16-14, 1/2-13

STEP DRILL SETS

Type 78-AG 3-Flatted Shank Type 78-AGN Titanium Nitride Type 78-OR Ouick Release Type 78-ORN Titanium Nitride Type 78-ACN Titanium Carbon Nitride

Ultra Bit™ Multi-Diameter Step Drill 3-Flats on Shank

Type 78-AG Gold Oxide SETS - 3 & 4pc.

01911	1/8 - 1/2, 3/16 - 1/2, & 1/4 - 3/4"
01921	1/8 - 1/2, 3/16 - 1/2, & 3/16 - 7/8"
01931	1/8 - 1/2, 3/16 - 7/8, 7/8 & 1-1/8" ELECTRICIANS - SE
01941	1/8 - 1/2, 3/16 - 1/2, & 1/4" - 1"
01981 4nc	1/8 - 1/2 1/4 - 3/4 1/4 - 7/8 7/8 - 1-1/8"

Type 78-AGN Titanium Nitride SETS - 3 & 4pc.

91	
01811	1/8 - 1/2, 3/16 - 1/2, & 1/4 - 3/4"
01821	1/8 - 1/2, 3/16 - 1/2, & 3/16 - 7/8"
01831	1/8 - 1/2, 3/16 - 1/2, 7/8 & 1-1/8" ELECTRICIANS - SET
01841	1/8 - 1/2, 3/16 - 1/2, & 1/4" - 1"
01871 4pc.	1/8 - 1/2, 1/4 - 3/4, 1/4 - 7/8 , 7/8 - 1-1/8"

Type 78-QR Quick Release SETS - 3 pc.

20761	1/8 - 1/2, 3/16 - 1/2,	& 3/16 - 7/8	1
20751	1/8 - 1/2, 3/16 - 1/2,	& 1/4 - 3/4"	
01461	1/8 - 1/2, 3/16 - 1/2,	7/8 & 1-1/8"	ELECTRICIANS - SET

Type 78-QRN Titanium Nitride SETS - 3 pc.

68811	1/8 - 1/2, 3/16 - 1/2,	& 3/16 - 7/8"	
68801	1/8 - 1/2, 3/16 - 1/2,	& 1/4 - 3/4"	
68581	1/8 - 1/2. 3/16 - 1/2.	7/8 & 1-1/8"	ELECTRICIANS - SET

Type 78-ACN Titanium Carbon Nitride SETS - 3 & 4pc.

65431	1/8 - 1/2, 3/16 - 1/2 & 1/4 - 3/4"	(#1, #4, #3)
65411	1/8 - 1/2, 3/16 - 1/2 & 3/16 - 7/8"	(#1, #4, #8)
65421	1/8 - 1/2, 3/16 - 1/2 & 1/4" - 1"	(#1, #4, #2)
65441 4p	oc. 1/8 - 1/2, 1/4 - 3/4, 1/4 - 7/8, 7/8 - 1-1/8"	(#1, #3, #7, #11)

BOLT EXTRACTOR SETS

Type 420 & Type 421-AG Sets

- Left-hand spiral drills often eliminate the need for bolt extractors.
- · Drill may loosen bolt stud with counter clockwise rotation.

Spiral Bolt Extractor Sets

Left Hand Drill

RR-8 Type 420 & 190-AL

Part #	Sizes	Qty of each
88550	FX 1 2 3 4 + 3/32 1/8 3/16 1/4 drills	1

BR-10	Type 420 &	190-AL

Part #	Sizes	Qty of each

58510 EX 1, 2, 3, 4, 5 + 3/32,1/8, 3/16, 1/4, 5/16 drills

Spiral Extractor

Bolt Extractor Set

SE-4N Type 420)	
Part #	Sizes	Qty of each
47170	EX 2, 3, 4 , 5	1
SE-5N Type 420)	
Part #	Sizes	Qty of each

Left Hand Drill Canara Evtractor Set

EX 1, 2, 3, 4, 5

		it iiuiiu biiii
BR-8S	Q Type 421-AG, Square and 190-	AL
Part #	Sizes	Qty of each
70850	E 1, 2, 3, 4 + 1/8, 3/16, 1/4, 5/16	1

Square Extractor

47180

Bolt Extractor Sets

SQE-4 Type 421-AG

Sizes Qty of each 70840 E 2, 3, 4, 5

CHATTER-PROOF™ **COUNTER SINK SETS** Type 82-AG Countersinks

Type 90-AG Deburring Tools

These high performance, flute-less tools are:

- Single cutting edge for fast stock removal
- Chatter proof for a micro smooth finish
- Wide selection of styles & angles a tool for any job

Recommended for smoother finishes on metal, plastic and wood applications.

TYPE 82-AG & 90-AG SETS

Part No.		Sizes
SP-4CS	10440	82-AG C/S Sizes: CS5S, CS65, CS5S, CS10S
SP-4ACS	10442	82-AG C/S Sizes: CS6S, CS8S, CS10S, CS3/16S
SP-6DB	10450	90-AG D/B Sizes : DB1/16, DB1/8, DB5/32,
		DB3/16, DB5/16 & DB9/16

SP-9CS 10443 82-AG C/S Sizes: CS5S, CS6S, CS8S, CS10S, CS1/4, CS5/16, CS3/8, CS7/16, & CS1/2



MADE IN THE USA



MADE IN THE USA

HOLE EXPANSION TOOLS

Type 50-AG Car Reamers, Standard Flute 3-Flats on Shank



- Special Hi-Tungsten tool steel, gold surface treated body and clearance for maximum lubricity.
- These reamers are designed for the reaming of hardened steel commonly found in truck frames, rail cars, bridges, and pressure vessels.
- · Use only to enlarge previously formed or drilled holes.

SET - C	contains 1ea.	
12270	CR-4SP	3/8", 1/2", 5/8", 3/4"

Type 51-AG

Car Reamers - Fast Spiral Hole Buster™

3-Flats on Shank



- Special Hi-Tungsten tool steel, gold surface treated body and clearance for maximum lubricity.
- These reamers are designed for the reaming of hardened steel commonly found in truck frames, rail cars, bridges, and pressure vessels.

SET - Contains 1ea.				
12271	CR-4FS	3/8", 1/2", 5/8", 3/4"		
12281	SM-4FS	5/16", 3/8", 7/16", 1/2"		

The **51-AG**, with the fast spiral, is the more aggressive of the two styles. It also will fit the needs of users who prefer a stop collar.

HOLE HOG™ SETS

Type 134-AG

Magnum Super Premium 1/2" Shank 3-flats on Shank, 4 - Flute Core Drill

 A selection of core drills and companion (minimum starting hole size) pilot drills in a black steel index.



SP-8HH Set contains:

Part # 38880

1ea: 134-AG core drill sizes 3/8, 1/2, 5/8 & 3/4" 175-AG drill sizes 1/4, 5/16, 25/64 & 15/32"

SP-6HHL Set contains:

Part # 38870

1ea: 134-AG core drill sizes 1/2, 5/8 & 3/4" **175-AG** drill sizes 5/16, 25/64 & 15/32"

SP-6HHS Set contains:

Part # 38860

1ea: 134-AG core drill sizes: 3/8, 1/2 & 5/8" 175-AG drill sizes 1/4, 5/16 & 25/64"

3pc. CARBIDE HOLE CUTTER SET

 Ideal for stainless steel, structural steel studs and electrical boxes.

- Can be used on cast iron, brass, aluminum and other thin non-ferrous metals.
- · Burr free holes.
- For material up to 3/16"

<u>Size</u>	<u>Steel</u>	Stainless Steel
11/16" to 13/16"	700-1000 RPM	300-700 RPM
7/8" to 1-3/16"	500-800 RPM	200-450 RPM
1-1/4" to 1-9/16"	300-600 RPM	175-315 RPM
1-5/8" to 2"	200-500 RPM	120-225 RPM
2-1/16" to 2-3/8"	200-400 RPM	95-195 RPM
2-7/16 to 3"	150-300 RPM	80-150 RPM

SET - Contains 1ea.

62590	3pc.	7/8", 1-1/8" & 1-3/8"
83990	3pc. Quick Release	7/8", 1-1/8" & 1-3/8"

CARBIDE HOLE CUTTER SETS



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

CHC-AG Individual Sizes Available 9/16" to 5-inch

Type CHD-AG Cuts up to 1" Thick Material HCD-4B Part # 64300 Set contains: 1ea: Fractional sizes: 11/16", 13/16", 15/16", 1-1/16" HCD-4A Part # 64310 Set contains: 1ea:

 Set contains:
 1ea:

 Fractional sizes:
 5/8", 3/4", 7/8", 1-inch

 HCD-5C
 Part # 64320

 Set contains:
 1ea:

Fractional sizes: 7/8", 1-1/8", 1-3/8",1-3/4", 2-inch

HCD-5PL Part # 64520
Set contains: 1ea:

Fractional sizes: 5/8", 3/4", 7/8", 1-inch, 1-1/8"

CHD-AG Individual Sizes Available 5/8" to 2-inch