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* Not NAS907C

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Cutting Tool Sets

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	Qty of each
44110 SP-13	Black & Gold Super Premium 135° Split point	1
47492 CT-13	CN-TECH™ CRYO/NITRIDE	1

15 Pc.

Part No.	1/16-1/2 by 32nds	Qty 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	Qty of each
47482 CT-15P	CN-TECH™ CRYO/NITRIDE	1

21 Pc.

Part No.	1/16-3/8 by 64ths	Qty of each
44130 SP-21	Black & Gold Super Premium 135° Split point	1

26 Pc.

Part No.	A - Z	Qty of each
88660 SP-26	Black & Gold Super Premium 135° Split point	1

29 Pc.

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

29 Pc. Blaze Orange Ultra Dex™

Part No.	1/16-1/2 by 64ths	Qty of each
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 64ths + A-Z & 1-60	Qty 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.

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

29 Pc.

Part No.	1/16-1/2 by 64ths 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

118 Pc. - Metric

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

Cutting Tool Sets - Mechanic Length

Black & Gold

Cutting Tool Sets - QR 1/4" Hex Shank & 3/8" Reduced Shank, VORTEX-POINT™

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 No.	Description of Sizes	Qty of each
66460 SPM-13	1/16 - 1/4" by 64ths	1

15 Pc.

Part No.	Description of Sizes	Qty of each
66470 SPM-15	1/16 - 1/2" by 32nds	1

21 Pc.

Part No.	Description of Sizes	Qty of each
57810 SPM-21	1/16 - 3/8" by 64ths	1

29 Pc.

Part No.	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 each
66820 SPM-29P	1/16 - 1/2" by 64ths - w/ Ultra Dex	1

29 Pc. Blaze Orange- Ultra Dex

Part No.	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 + 9/32-1/2 by 32nds (3/8" shank)	1

15 Pc.

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

29 Pc.

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

29 Pc. Black- Ultra Dex

Part No.	Description of Sizes	Qty of each
57950 RSPM-29P	1/16 - 1/2" by 64ths (3/8" shank) - w/ Ultra Dex	1

29 Pc. Blaze Orange- Ultra Dex

Part No.	Description of Sizes	Qty of each
58150 RSPM-29PO	1/16 - 1/2" by 64ths (3/8" shank) - w/ Ultra Dex	1

TYPE QR-AG 1/4" QUICK 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.



MADE in the U.S.A.

TYPE QR12-AG HARD CASE SET

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



MADE in the U.S.A.

TYPE QR16-AG SOFT POUCH SET

Part No.	Description of Sizes	Qty of each
34812	1/16, 3/32, 1/8, 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	1

TYPE QR-7B SOFT POUCH SET

Part No.	Description of Sizes	Qty of each
34804	1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2"	1

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

TYPE QR-7A SOFT POUCH SET

Part No.	Description of Sizes	Qty of each
34803	1/16, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4"	1



MADE in the U.S.A.

VORTEX-POINT™

Type 175-VT

VORTEX-POINT™ Mechanics Length
135° Split point, 3-flats on Shank

- Unique tip geometry reduces heat generation & cutting tool wear increasing tool life.
- Recommended for Cast iron, Brass, Sheet metal, Plastic, Mild steel, Copper, Hardened steel.

13 Pc.

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 - Ultra Dex

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

29 Pc. Blaze Orange - Ultra Dex

Part #	1/16-1/2" by 64ths	Qty of each
22913 VT-29PO	VORTEX-POINT™ 135° Split point	1

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Cutting Tool Sets

NAS 907B TITANIUM NITRIDE/TiCN/TiAlN & 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

15 Pc.

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

29 Pc.

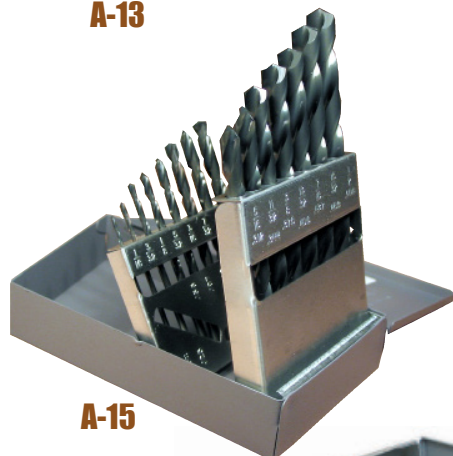
Part No.	1/16-1/2" by 64ths	Qty of each
41611 SS-29	High Helix Flutes 135° Split point	1

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



A-13



A-15



ACN-15

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 than Titanium nitride coating recommended where 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 (TiAlN) NAS 907B - 135° Split point - HSS Heavy Duty

- TiAlN 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.

Part #	1/16 - 5/32" by 64ths + 3/16, 7/32, 1/4	Qty of each
43330 A-10	Black Oxide - 135° Split point	1

11 Pc.

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	1

15 Pc.

Part #	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° SP	1

21 Pc.

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-21	Titanium Carbon Nitride 135° Point	1
81160 ALN-21	Titanium Aluminum Nitride 135° SP	1

Cutting Tool Sets

NAS 907B TITANIUM NITRIDE / TiCN / TiAlN & 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 (TiAlN)

NAS 907B - 135° Split point Heavy-Duty

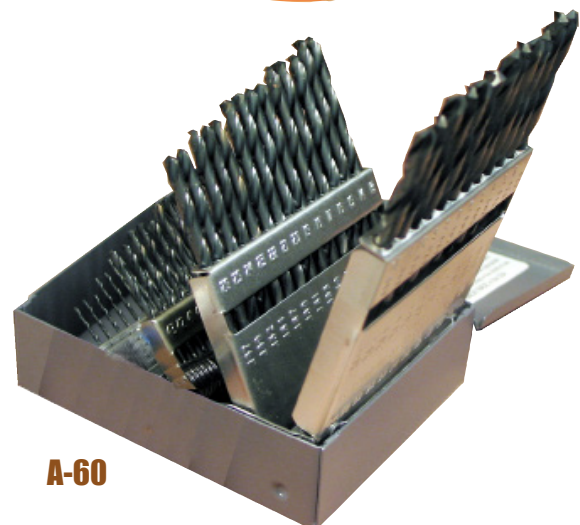
- Heavy-duty construction for drilling in tougher materials
- Manufactured from premium high-speed steel
- 135° Split point is self-centering for reducing thrust and easier penetration
- Provides exceptional oxidation resistance and extreme hardness
- Manufactured to **NAS 907B** aerospace specification.



AN-29



AN-29PON



A-60

26 Pc.

Part #	A - Z	Qty of each
43370 A-26	Black Oxide - 135° Split point	1
81172 ACN-26	Titanium Carbon Nitride 135° Split point	1
81170 ALN-26	Titanium Aluminum Nitride 135° Split point	1

29 Pc.

Part #	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	Qty 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.

Part #	1/16 - 1/2 by 64ths + A - Z, #1 - 60	Qty of each
43420 A-115	Black Oxide - 135° Split point	1
95110 AN-115	Titanium Nitride - 135° Split point	1

Cutting Tool Sets

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



SA-21



GF-21RS



GF-29P

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™

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.

1/16 - 1/4" by 64ths

Part #		Qty of each
06072 SA-13	Black Oxide - 135° Split point	1
40611 GF-13	Gold Strike™ - 135° Split point	1

15 Pc.

1/16 - 1/2" by 32nds

Part #		Qty of each
06082 SA-15	Black Oxide - 135° Split point	1
40612 GF-15	Gold Strike™ - 135° Split point	1

21 Pc.

1/16 - 3/8" by 64ths

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

29 Pc.

1/16 - 1/2" by 64ths

Part #		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

1/16 - 1/2" by 64ths

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

Cutting Tool Sets

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.

13 Pc.		
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

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

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

21 Pc.		
Part #	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

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

29 Pc.		
Part #	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

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

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

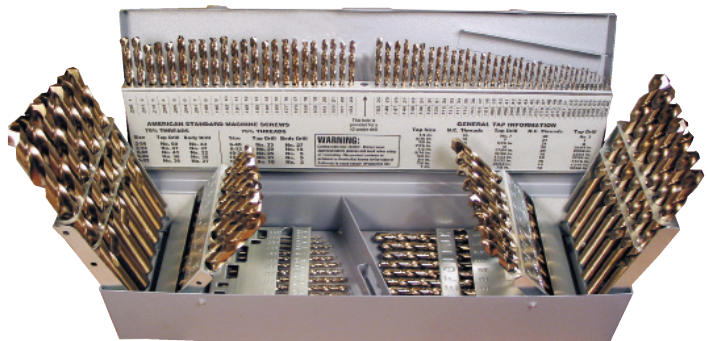
115 Pc.		
Part #	1/16-1/2" by 64ths + A - Z , #1 - 60	Qty of each
69280 D-115	M42 Cobalt NAS 907J	1
79950 DN-115	M42 Cobalt NAS 907J Titanium Nitride	1



DN-21



D-29



D-115

Cutting Tool Sets - Cobalt Heavy Duty 135° Split point

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.



D-13M

11 Pc. - **Metric**

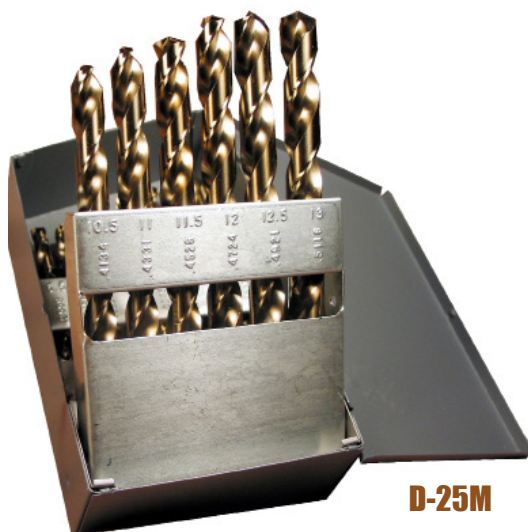
Part #	1.0mm - 6.0mm x .5mm	Qty of each
58670 D-11M	M42 Cobalt NAS 907J Gold Oxide	1

13 Pc.- **Metric**

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

19 Pc. - **Metric**

Part #	1.0mm - 10.0mm x .5mm	Qty of each
49081 D-19M	M42 Cobalt NAS 907J Gold Oxide	1



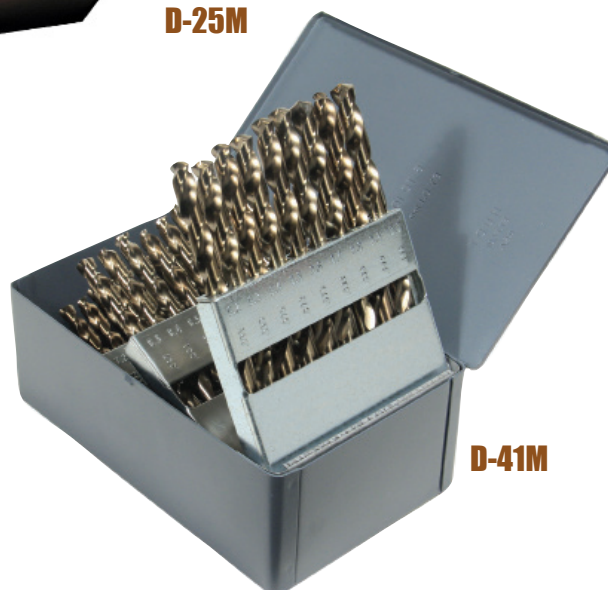
D-25M

25 Pc. - **Metric**

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

41 Pc. - **Metric**

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



D-41M

METRIC

Cutting Tool Sets - Cobalt Heavy Duty 135° Split point / TIN Coated

Cutting Tool Sets

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**.

10 Pc.

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.

1/16 - 3/8" by 32nds

Part #			Qty of each
42010	B-11	Black Oxide - 118° Point	1
43410	J-11	Bright Finish - 118° Point	1

13 Pc.

1/16 - 1/4" by 64ths

Part #			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	SJ-13	V-Line Black Oxide - 118° Point	1

15 Pc.

1/16 - 1/2" by 32nds

Part #			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-10



B-11



BN-13

Cutting Tool Sets - Bright / TiN Coated / Black Oxide

Cutting Tool Sets

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 without the need for the tighter tolerances of our **standard Type 115**.



J-29



SJ-29

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.

Part #	1/16 - 1/2" by 64ths	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 SJ-29	V-Line Black Oxide - 118° Point	1

60 Pc.

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

Cutting Tool Sets

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 - Metric

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

114 Pc.

1/16 - 1/2 by 64ths, #1 - 60, 1.0mm - 13.0mm by .5mm

Part #		Qty of each
43310 B-114	Black Oxide - 118° Point	1

115 Pc.

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

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

11 Pc. - Metric

1.0mm - 6.00 by .5mm

Part #		Qty of each
44050 M-11	Black Oxide - 118° Point	1

13 Pc.- Metric

1.0mm - 7.0mm x .5mm

Part #		Qty of each
44180 M-13	Black Oxide - 118° Point	1

25 Pc. - Metric

1.0mm - 13.0mm by .5mm

Part #		Qty of each
44060 M-25	Black Oxide - 118° Point	1



R-29



M-11

METRIC

Cutting Tool Sets - Bright / TiN Coated / Black Oxide

Cutting Tool Sets

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.



Q-29

15 Pc.

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

21 Pc.

Part #	1/16 - 1/2 by 32nds	Qty of each
43600 Q-21	Black Oxide Flutes - 118° Point	1

29 Pc.

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



SPT-26

Type 135-AG

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 No.	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
42620 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
42630 DT-29	M42 Cobalt NAS 907C	1

Cutting Tool Sets

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

29 Pc.

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



PT-29



P-21

Cutting Tool Sets

CAD-HD, SCREW MACHINE & ACRYLIC DRILLS



CAD-15A

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
43382 CAD-29A	Black Oxide - 135° Split point	1



AD-7

Type 183-AG

Super 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.
- 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 260

118° 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

60 Pc.

Part #	#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	1

Cutting Tool Sets

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

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

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

26 Pc. A - Z			
Part No.		Qty of each	
66850 SPT-26	Black & Gold - 135° Split point	1	

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

60 Pc. # 1 - 60			
Part #		Qty of each	
43750 T-60	Black Oxide - 135° Split point	1	
96730 TN-60	Titanium Nitride - 135° Split point	1	
23560 SPT-60	Black & Gold - 135° Split point	1	

Type 135-AL
Left-Hand Screw Machine Length
135° Split Point, 3-Flat Shank

- 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.



TN-29



TN-60

8 Pc. 1/16", 5/64", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4"			
Part#		Qty of each	
35494 LHT-8	Left-Hand Screw Machine - 135° Split Point	1	

12 Pc. 1/16", 5/64", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4", 9/32", 5/16"			
Part#		Qty of each	
35504 LHT-12	Left-Hand Screw Machine - 135° Split Point	1	

15 Pc. 1/16 - 1/2 by 32nds			
Part#		Qty of each	
35514 LHT-15	Left-Hand Screw Machine - 135° Split Point	1	

**S&D-4CN****S&D-4SP****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 1/2" Shank - Silver & Deming	1

33 Pc.

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

4 Pc. - MRO

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

8 Pc.

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

Cutting Tool Sets

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

Type 130-CN

CN-TECH™ CRYO/NITRIDE
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 positive 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.

Type VT&R-8P

VORTEX-POINT™ + **FAST SPIRAL REAMER-MAINT.**

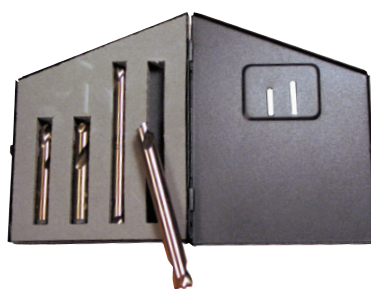
Mechanics Length, 3-Flat on the Shank

- 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.

Cutting Tool Sets

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.



TYPE 187 WO-4

Part #	Description of Sizes
35050	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 LF-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 LF-12	1/16 - 5/16 by 32nds, 3/8, 7/16 & 1/2"	1

13 Pc.

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.

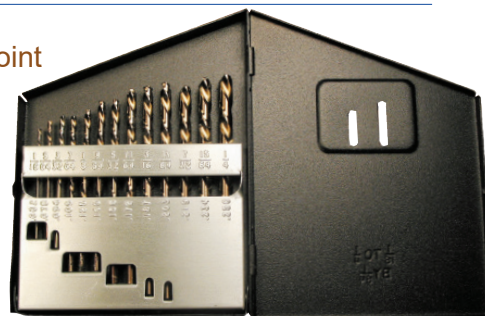
Part No.	Description of Sizes	Qty of each
87853 LF-17	1/16-1/4 by 64ths, 5/16-1/2 by 16ths	1

29 Pc.

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

29 Pc.-Ultra Dex

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 Burrou™ 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

14 Pc.

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

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 insures excellent drilling precision and accuracy.



DT-7F

DT-6

7 Pc.

Part No. Description of Sizes

73991	40-AG - DT-7F
Fine	8-36, 10-32, 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2"-20

7 Pc.

Part No. Description of Sizes

73990	40-AG - DT-7C
Coarse	8-32, 10-24, 1/4"-20, 5/16-18, 3/8-16, 7/16-14, 1/2"-13

6 Pc.

Part No. Description of Sizes

21330	40-AG - DT-6
	6-32, 8/32, 10-24, 10-32, 12-24, 1/4"-20

5 Pc.

Part No. Description of Sizes

21324	40-QR - DT-5
	6-32, 8/32, 10-24, 10-32, 12-24, 1/4"-20

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.

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, 5/16-18, 3/8-16, 7/16-14 & 1/2-13

SP-18TDM

Part No.

SPIRAL POINT, METRIC

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)	2.5-.45, 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

SP-18TDF

Part No.

SPIRAL POINT, NF

Description of Sizes

58010

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

Part No.

SPIRAL POINT, NC

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

Part No.

STRAIGHT FLUTE, NC

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

Part No.

STRAIGHT FLUTE, NC

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.

118° 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	6-32, 8-32, 10-24, 10-32, 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13

Cutting Tool Sets

STEP DRILL SETS

Type 78-AG 3-Flatted Shank Type 78-AGN Titanium Nitride Type 78-QR Quick Release

Type 78-QRN 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 - SET
01941	1/8 - 1/2, 3/16 - 1/2, & 1/4" - 1"
01981 4pc.	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.

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"
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 4pc.	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

BR-8 Type 420 & 190-AL

Part #	Sizes	Qty of each
88550	EX 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	1

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
47180	EX 1, 2, 3, 4, 5	1

Square Extractor Set

Left Hand Drill

BR-8SQ 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

Bolt Extractor Sets

SQE-4 Type 421-AG

Part #	Sizes	Qty of each
70840	E 2, 3, 4, 5	1



BR-10

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, CS6S, 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

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 - Contains 1ea.

12270	CR-4SP	3/8", 1/2", 5/8", 3/4"
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Type 51-AGCar 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"

Cutting Tool Sets**HOLE EXPANSION TOOLS****3pc. CARBIDE HOLE CUTTER SET
Type CHC-AG**

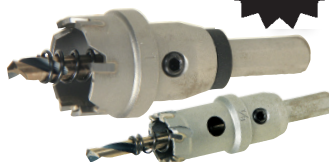
- Ideal for stainless steel, structural steel studs and electrical boxes.
- Can be used on cast iron, brass, aluminum and other thin non-ferrous metals.
- Burr free holes.
- For material up to 3/16"



Size	Steel	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 & CHD-AG
Magnum Premium****Type CHC-AG Cuts up to 3/16" Thin Material****HC-4B Part # 62600**

Set contains: **1ea:**
Fractional sizes: 11/16", 13/16", 15/16", 1-1/16"

HC-4A Part # 62610

Set contains: **1ea:**
Fractional sizes: 5/8", 3/4", 7/8", 1-inch

HC-5C Part # 62620

Set contains: **1ea:**
Fractional sizes: 7/8", 1-1/8", 1-3/8", 1-3/4", 2-inch

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:**
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