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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.
- Nitride process diffuses nitrogen into the surface to create a case hardening resulting in superior tool life and exceptional corrosion resistance.

Type 240-UB NAS 907B 135° Split point Black & Gold

- 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. Black - 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. Black - 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 278-UB

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

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

21 Pc.

Part #	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 #	1/16"-1/2" by 32nds	Qty of each
92110 RSP-15	3/8" Reduced Shank	1

29 Pc.

Part #	1/16"-1/2" by 64ths	Qty of each
92100 RSP-29	3/8" Reduced Shank	1

29 Pc. Black - Ultra Dex

Part #	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 643-UB - Metric

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

- 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 #	1.0mm - 13.0mm x .5mm	Qty of each
60090 SP-118M	Black & Gold Super Premium (1 - 2.45mm by 0.05mm, 2 - 5 10mm by 0.1mm & 10.2, 10.5, 10.8, 11, 11.2, 11.5, 11.8, 12, 12.2, 12.5, 12.8 & 13)	1

Cutting Tool Sets - Mechanic & Jobber Length

Super Premium

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 250-UB

Mechanic Length - 135° Split point
Black & Gold Ultra Bor 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 #	1/16-1/4" by 64ths	Qty of each
66460 SPM-13	Mechanics Length 135° SP	1

15 Pc.

Part #	1/16-1/2" by 32nds	Qty of each
66470 SPM-15	Mechanics Length 135° SP	1

21 Pc.

Part #	1/16-3/8" by 64ths	Qty of each
57810 SPM-21	Mechanics Length 135° SP	1

29 Pc.

Part #	1/16-1/2" by 64ths	Qty of each
66480 SPM-29	Mechanics Length 135° SP	1

29 Pc. Black - Ultra Dex

Part #	1/16-1/2" by 64ths	Qty of each
66820 SPM-29P	Mechanics Length 135° SP	1

29 Pc. Blaze Orange - Ultra Dex

Part #	1/16-1/2" by 64ths	Qty of each
67650 SPM-29PO	Mechanics Length 135° SP	1

Type 258-UB

Mechanics Length 135° Split point 3/8" Reduced Shank Black & Gold - Ultra Bor Super Premium

21 Pc.

Part #	1/16-1/4" by 64ths + 9/32-1/2" by 32nds	Qty of each
92340 RSPM-21	Mechanics Length 135° SP (3/8" shank)	1

15 Pc.

Part #	1/16-1/2" by 32nds	Qty of each
57910 RSPM-15	Mechanics Length 135° SP (3/8" shank)	1

29 Pc.

Part #	1/16-1/2" by 64ths	Qty of each
57920 RSPM-29	Mechanics Length 135° SP (3/8" shank)	1

29 Pc. Black - Ultra Dex

Part #	1/16-1/2" by 64ths	Qty of each
57950 RSPM-29P	Mechanics Length 135° SP (3/8" shank)	1

29 Pc. Blaze Orange - Ultra Dex

Part #	1/16-1/2" by 64ths	Qty of each
58150 RSPM-29PO	Mechanics Length 135° SP (3/8" shank)	1

TYPE QR-UB 1/4" QUICK RELEASE

Quick Release Drills - 135° Split point
Mechanic Length -
Magnum Super Premium

- 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-UB HARD CASE SET

Part #	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-UB SOFT POUCH SET

Part #	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 #	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

MADE in the U.S.A.

TYPE QR-7A SOFT POUCH SET

Part #	Description of Sizes	Qty of each
34803	1/16", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4"	1



VORTEX-POINT™

Type 250-VT

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

NEW

- 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

NAS 907B TITANIUM NITRIDE/TiCN/TiAlN & BLACK OXIDE, HI-HELIX FLUTES

Type 240-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 #	1/16-1/4" by 64ths	Qty of each
41591 SS-13	High Helix Flutes 135° Split point	1

15 Pc.

Part #	1/16-1/2" by 32nds	Qty of each
41601 SS-15	High Helix Flutes 135° Split point	1

29 Pc.

Part #	1/16-1/2" by 64ths	Qty of each
41611 SS-29	High Helix Flutes 135° Split point	1

29 Pc. Black - Ultra Dex

Part #	1/16-1/2" by 64ths	Qty of each
41621 SS-29P	High Helix Flutes 135° Split point	1



A-15



ACN-15

Type 240-A 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 240-AN Titanium Nitride NAS 907B 135° Split point Heavy-Duty

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

Type 240-ACN Titanium Carbon Nitride

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 240-ALN Titanium Aluminum Nitride NAS 907B - 135° Split point HSS Heavy-Duty

- TiAlN provides extreme hardness and oxidation resistance, superior hot hardness when compared to other coating.
- 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
81152 ACN-21	Titanium Carbon Nitride 135° SP	1
81160 ALN-21	Titanium Aluminum Nitride 135° SP	1

NAS 907B TiN / TiCN / TiAlN Coated & BLACK OXIDE

Type 240-A Black Oxide Heavy-Duty NAS 907B

- 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 240-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 240-ACN Titanium Carbon Nitride NAS 907B - 135° Split point HSS 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 240-ALN Titanium Aluminum Nitride NAS 907B - 135° Split point HSS 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-29PO

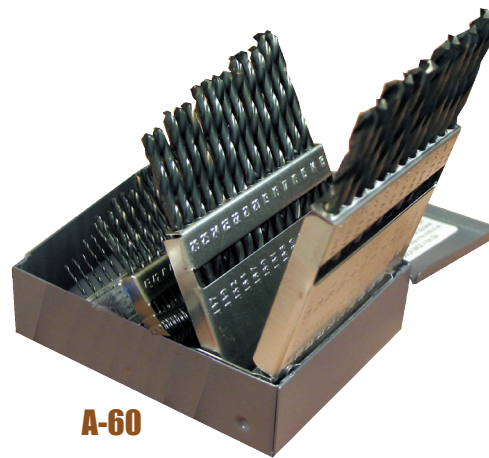
26 Pc.		
Part #	A - Z	Qty of each
43370	A-26	Black Oxide - 135° Split point 1

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 #	1/16 - 1/2" by 64ths	Qty of each
96750	AN-29PO	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



A-60

Cutting Tool Sets - NAS 907B TiN / TiCN / TiAlN Coated & Black Oxide TiCN / TiAlN

NAS 907B BLACK OXIDE & 3/8" REDUCED SHANK - JOBBER LENGTH



SA-21

Type 248-A 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 without the need for the tighter tolerances of our standard Type 240-A.

Type 240-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 240-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.



GF-21RS

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" by 32nds	Qty of each
06082	SA-15 Black Oxide - 135° Split point	1
40612	GF-15 Gold Strike™ - 135° Split point	1

21 Pc.

Part #	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
40631	GF-21RS 3/8" Shank - RS Gold Strike™ (1/16 - 1/4" by 64ths & 9/32 - 1/2" by 32nds)	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" - RS Gold Strike™ (1/16 - 1/4 by 64ths & 9/32 - 1/2 by 32nds 3/8" shank)	1

29 Pc. Black - Ultra Dex

Part #	1/16 - 1/2" by 64ths	Qty of each
40614	GF-29P Gold Strike™ - 135° Split point	1
40651	GF-29RSP 3/8"- Reduced Shank Gold Strike™ (1/16 - 1/4 by 64ths & 9/32 - 1/2 by 32nds 3/8" shank)	1



GF-29P

COBALT HEAVY DUTY 135° SPLIT POINT - JOBBER LENGTH

Type 240-D M42 Cobalt NAS 907J

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

Type 240-DN M42 Cobalt NAS 907J - Titanium Nitride

- Manufactured from M42 High Speed Steel 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

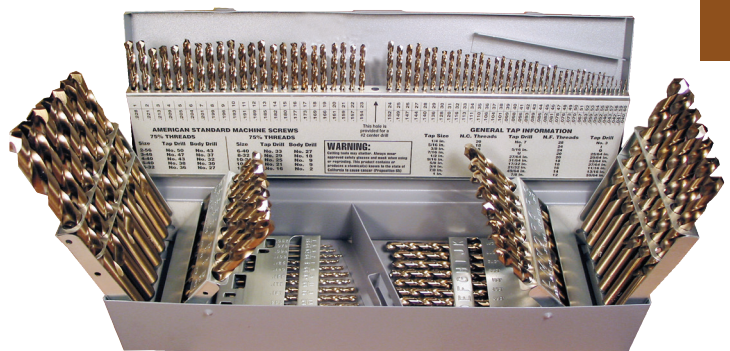
29 Pc. Black - Ultra Dex		
Part #	1/16 - 1/2" by 64ths	Qty of each
68410 D-29P	M42 Cobalt NAS 907J	1

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



D-29



D-115

Cutting Tool Sets - Cobalt Heavy Duty 135° Split point

COBALT HEAVY DUTY 135° SPLIT POINT - JOBBER LENGTH

Type 643-D M42 Cobalt NAS 907J - Metric

- 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.

METRIC

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



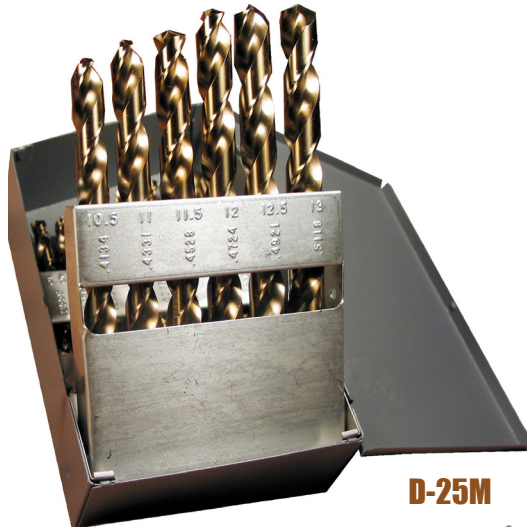
D-13M

11 Pc. - Metric

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

13 Pc.- Metric

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



D-25M

19 Pc. - Metric

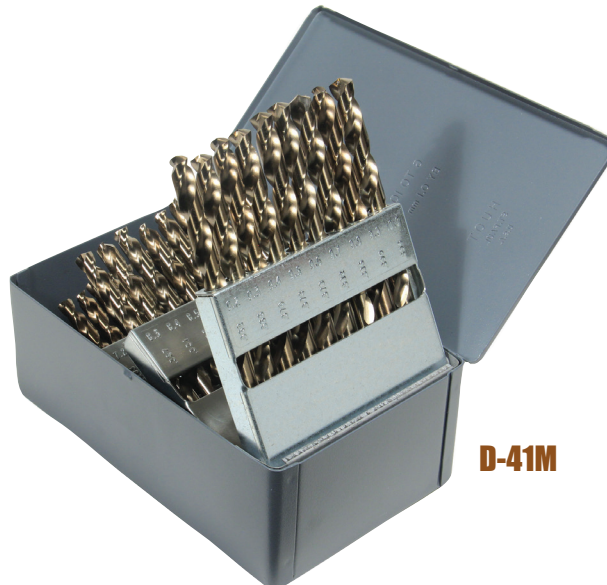
Part #	1.0mm - 10.0mm x .5mm	Qty of each
49081 D-19M	M42 Cobalt NAS 907J Gold Finish	1

25 Pc. - Metric

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

41 Pcs. - Metric

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



D-41M

GENERAL PURPOSE 118° POINT - JOBBER LENGTH

Type 240 Black Oxide

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

Type 240-B Bright Finish

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

Type 240-BN TiN Coated

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

Type 278 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 248 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 240**.



B-13



B-21



BN-15

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

Continued on page 118

Cutting Tool Sets - Bright / TiN Coated / Black Oxide

GENERAL PURPOSE 118° POINT - JOBBER LENGTH

Type 240 Black Oxide

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

Type 240-B Bright Finish

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

Type 240-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 278 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 248 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 240**.



J-29



SJ-29

20 Pc. # 61 - 80

Part #			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

GENERAL PURPOSE 118° POINT - JOBBER LENGTH

Type 240 Black Oxide

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

Type 240-B Bright Finish

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

Type 240-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 278 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 643 Black Oxide - METRIC

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

Part #	80 Pc. #1 - 80	Qty of each
43300 B-80	Black Oxide - 118° Point	1

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

Part #	115 Pc. 1/16 - 1/2" by 64ths + A - Z, #1-60	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

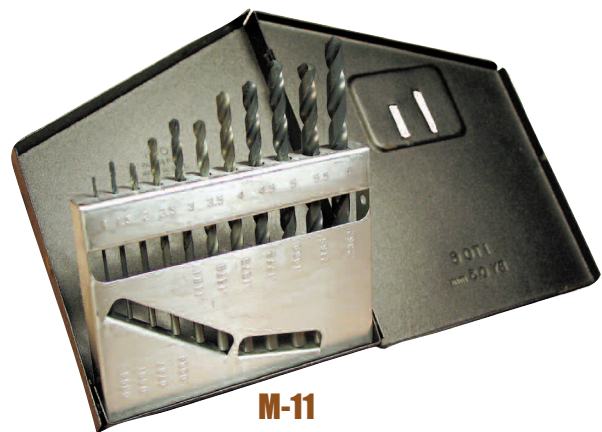
Part #	11 Pc. - Metric 1.0mm - 6.00 by .5mm	Qty of each
44050 M-11	Black Oxide - 118° Point	1

Part #	13 Pc. - Metric 1.0mm - 7.0mm x .5mm	Qty of each
44180 M-13	Black Oxide - 118° Point	1

Part #	25 Pc. - Metric 1.0mm - 13.0mm by .5mm	Qty of each
44060 M-25	Black Oxide - 118° Point	1



R-29



M-11

METRIC

Cutting Tool Sets - Bright / TIN Coated / Black Oxide

BRIGHT 1/4" SHANK & M42 COBALT - SCREW MACHINE LENGTH

Type 275

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

Type 260-D

M42 Cobalt Screw Machine 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



DT-29

13 Pc.

Part #	1/16 - 1/4" by 64ths	Qty of each
42610 DT-13	M42 Cobalt NAS 907C	1

15 Pc.

Part #	1/16 - 1/2" by 32nds	Qty of each
42620 DT-15	M42 Cobalt NAS 907C	1

21 Pc.

Part #	1/16 - 3/8" by 64ths	Qty of each
42640 DT-21	M42 Cobalt NAS 907C	1

29 Pc.

Part #	1/16 - 1/2" by 64ths	Qty of each
42630 DT-29	M42 Cobalt NAS 907C	1

Type 260-UB

Screw Machine Length, 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 #	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
66490 SPT-29	Black & Gold 135° Split point	1

60 Pc.

Part #	#1 - 60	Qty of each
23560 SPT-60	Black & Gold 135° Split point	1

PARABOLIC TITANIUM NITRIDE & SURFACE TREATED

Type 240-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 240-PT

Parabolic Flute Titanium Nitride - 135° Split point

- Exceptional high-performance drill with the Titanium 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



P-21



PT-29

Cutting Tool Sets - Parabolic Titanium Coated & Black Oxide

CAD-HD, SCREW MACHINE & ACRYLIC DRILLS



CAD-15A

Type 241-A CAD-HD - Mechanic Length

V-Line Heavy-Duty Black Oxide - 135° Split point

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

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-UB

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

BLACK OXIDE & TITANIUM NITRIDE - SCREW MACHINE LENGTH

Type 260-T 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 260-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.
- Titanium Nitride extends tool life.

10 Pc.

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

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

60 Pc.

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



TN-29



TN-60

Cutting Tool Sets - Black Oxide / TIN Coated Screw Machine Length

Cutting Tool Sets

1/2" SHANK SILVER & DEMING - CN-TECH™ CRYO/NITRIDE



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.

Part #	9/16, 5/8, 3/4 & 1"	Qty of each
54520 S&D-4MRO	Silver & Deming 3-flats Shank	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 1 Type 250-VT & 51-UBM	1



Type VT&R-8P & 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.

Type 280-UB

1/2" Shank Silver & Deming 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 280-UBX

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.



CN-TECH™ CRYO/NITRIDE

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

- Nitride coating creates a case hardened surface that is resistant to rust, heat and exceptional corrosion resistance.
- Cryogenic treatment at -300° F increases toughness while reducing brittleness.

Type 280-D

1/2" Shank Silver & Deming M42 Cobalt 135° Split point 3 - flats on Shank

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

Type 280

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 280** drills may be used in power applications such as drill presses where a short rigid drill is required.

Type 280-MRO

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

- The **280-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 **280-MRO** has a split point (135°) to insure fast hole starts without drill walking.
- This feature packed tool provides tremendous value for your drilling dollar.

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 H.S.S. 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 493-D WO-4

TYPE 492-D WO-6

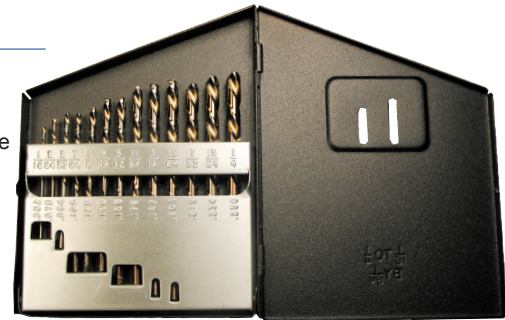
Part #	Description of Sizes
35050	8.0mm & 10mm Single-end 8.0mm & 10mm Twin-end

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 240-AL Super Premium - Left Hand Spiral 135° Split point

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



8 Pc.

Part #	1/16, 1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2"	Qty of each
87650 LF-8	Left Hand Spiral 135° Split point	1

12 Pc.

Part #	1/16 - 5/16" by 32nds, 3/8, 7/16 & 1/2"	Qty of each
87651 LF-12	Left Hand Spiral 135° Split point	1

13 Pc.

Part #	1/16 - 1/4" by 64ths	Qty of each
87652 LF-13	Left Hand Spiral 135° Split point	1

15 Pc.

Part #	1/16 - 1/2" by 32nds	Qty of each
87654 LF-15	Left Hand Spiral 135° Split point	1

17 Pc.

Part #	1/16 - 1/4" by 64ths, 5/16 - 1/2" by 16ths	Qty of each
87853 LF-17	Left Hand Spiral 135° Split point	1

29 Pc.

Part #	1/16 - 1/2" by 64ths	Qty of each
87854 LF-29	Left Hand Spiral 135° Split point	1

29 Pc. Black - Ultra Dex

Part #	1/16 - 1/2" by 64ths	Qty of each
87859 LF-29P	Left Hand Spiral 135° Split point	1

BRAD POINT DRILLS

Type 16-UB 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 #	Description of Sizes	Qty of each
42001 BF-10	5/64-3/16" by 64ths + 7/32, 1/4	1

14 Pc.

Part #	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-UB

Combination Drill & Tap Sets - 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 helical point insures excellent drilling precision and accuracy.



DT-7F



DT-6

Part #	Description of Sizes	Part #	Description of Sizes
73991	7pc set	73990	7pc set
40-UB - DT-7F	8-36, 10-32, 1/4-28, Fine	40-UB - DT-7C	8-32, 10-24, 1/4-20, Coarse
	5/16-24, 3/8-24, 7/16-20, 1/2-20		5/16-18, 3/8-16, 7/16-14, 1/2-13
Part #	Description of Sizes	Part #	Description of Sizes
21330	6pc set	21324	5pc set
40-UB - DT-6	6-32, 8/32, 10-24, 10-32, 12-24, 1/4"-20	40-QR - DT-5	6-32, 8/32, 10-24, 10-32, 12-24, 1/4"-20

TAP & DRILL SETS

Super Premium

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

SP-18TD	SPIRAL POINT, NC
Part #	Description of Sizes
57580	
240-UB Drill Sizes	#36, 29, 25, 21, 7, F, 5/16, U & 27/64
20-UB Tap Sizes	6-32, 8-32, 10-24, 10-32, 1/4-20 7 5/16-18, 3/8-16, 7/16-14 & 1/2-13

SP-18TDM	SPIRAL POINT, METRIC
Part #	Description of Sizes
57990	
643-UB Drill Sizes (mm)	2.05, 2.50, 2.90, 3.30, 4.20, 5.00, 6.70, 8.50 & 10.20
21-UB 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	SPIRAL POINT, NF
Part #	Description of Sizes
58010	
240-UB Drill Sizes	#33, 29, 25, 21, 3, 1, Q, 25/64 & 29/64
20-UB 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 #	Description of Sizes
58501	
240-UB Drill Sizes	#36, 29, 25, 21, 7, F
20-UB Tap Sizes	6-32, 8-32, 10-24, 10-32, 1/4-20 & 5/16-18

SF-18TDC	STRAIGHT FLUTE, NC
Part #	Description of Sizes
60930	
240-UB Drill Sizes	#36, 29, 25, 21, 7, F, 5/16, U & 27/64
24-UB 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	STRAIGHT FLUTE, NF
Part #	Description of Sizes
60940	
240-UB Drill Sizes	#33, 29, 25, 21, 3, 1, Q, 25/64 & 29/64
24-UB 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 #	Description of Sizes
58500	
240-UB Drill Sizes	31/64
280-UB Drill Sizes	17/32, 21/32, 49/64 & 7/8
24-UB 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	118° POINT DRILLS MAINT.
	Part #	Description of Sizes
	60541	
Type 240-B	Drill 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	

STEP DRILL SETS

Type 78-UB & 78-UBN Titanium Nitride 3-Flatted Shank - Type 78-QR & 78-QRN Titanium Nitride Quick Release Ultra™ Bit Super Premium, Multi - Diameter Step Drill 3-Flats on Shank

- Dual flute construction drills clean accurate holes in thin materials, quickly and easily.
- Use for all thin metals, rigid plastics and wood or composite materials with a thickness equal to or less than the step thickness.
- When drilling steel with 1/8" or greater thickness, a starter hole of the smallest step diameter will speed the drilling process.

TYPE 78-UB SETS

SETS - 3 & 4pc.	Sizes
00721	1/8 - 1/2, 3/16 - 1/2, & 3/16 - 7/8"
00731	1/8 - 1/2, 3/16 - 1/2, & 1/4" - 1"
00741	1/8 - 1/2, 3/16 - 1/2, & 1/4 - 3/4"
00781 4pc.	1/8 - 1/2, 1/4 - 3/4, 1/4 - 7/8, 7/8 - 1-1/8"

TYPE 78-UBN TITANIUM NITRIDE - SETS

SETS - 3 & 4pc.	Sizes
69230	1/8 - 1/2, 3/16 - 1/2, & 3/16 - 7/8"
69240	1/8 - 1/2, 3/16 - 1/2, & 1/4" - 1"
69250	1/8 - 1/2, 3/16 - 1/2, & 1/4 - 3/4"
68781 4pc.	1/8 - 1/2, 1/4 - 3/4, 1/4 - 7/8, 7/8 - 1-1/8"

TYPE 78-QR QUICK RELEASE SETS

SETS - 3pc.	Sizes
01441	1/8 - 1/2, 3/16 - 1/2, & 3/16 - 7/8"
01451	1/8 - 1/2, 3/16 - 1/2, & 1/4 - 3/4"
01461	1/8-1/2, 3/16-7/8 & 7/8-1-1/8"

TYPE 78-QRN TITANIUM NITRIDE SETS

SETS - 3pc.	Sizes
68561	1/8 - 1/2, 3/16 - 1/2, & 3/16 - 7/8"
68571	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"



BOLT EXTRACTOR SETS

Type 420 & Type 421-UB Sets

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

Left Hand Drill - Spiral Bolt Extractor Sets

Part #	Description of Sizes	Qty of each
88550	EX 1, 2, 3, 4 + 3/32", 1/8", 3/16", 1/4" drills	1

Part #	Description of Sizes	Qty of each
58510	EX 1, 2, 3, 4, 5 + 3/32", 1/8", 3/16", 1/4", 5/16" drills	1

Bolt Extractor Set - Spiral Extractor

Part #	Description of Sizes	Qty of each
47170	EX 2, 3, 4, 5	1

Part #	Description of Sizes	Qty of each
47180	EX 1, 2, 3, 4, 5	1

Left Hand Drill - Square Extractor Set

Part #	Description of Sizes	Qty of each
70850	E 1, 2, 3, 4 + 1/8", 3/16", 1/4", 5/16"	1

Bolt Extractor Sets - Square Extractor

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



BR-10

CHATTERPROOF™ COUNTERSINK SETS SUPER PREMIUM

Type 82-UB Countersinks
Type 90-UB 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 & wood applications.



TYPE 82-UB & 90-UB SETS

Part #	Description of Sizes
10440 SP-4CS	82-UB C/S sizes: CS5S, CS6S, CS8S, CS10S
10442 SP-4ACS	82-UB C/S sizes: CS6S, CS8S, CS10S, CS3/16S
10450 SP-6DB	90-UB D/B sizes: DB1/16, DB1/8, DB5/32, DB3/16, DB5/16 & DB9/16
10443 SP-9CS	82-UB C/S sizes: CS5S, CS6S, CS8S, CS10S, CS1/4, CS5/16, CS3/8, CS7/16, & CS1/2

HOLE EXPANSION TOOLS

Type 50-UB 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-UB Car Reamers - Fast Spiral Hole Buster™ Super Premium 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-UB, 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 284-UB Ultra Bor 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:

1 ea: 284-UB core drill sizes 3/8, 1/2, 5/8 & 3/4
250-UB drill sizes 1/4, 5/16, 25/64 & 15/32

Part # 38880

SP-6HHL Set contains:

1 ea: 284-UB core drill sizes 1/2, 5/8 & 3/4
250-UB drill sizes 5/16, 25/64 & 15/32

Part # 38870

Part # 38860 SP-6HHS Set contains:

1 ea: 284-UB core drill sizes: 3/8, 1/2 & 5/8
250-UB drill sizes 1/4, 5/16 & 25/64

3pc. CARBIDE HOLE CUTTER SET Type CHC-UB

- 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-UB & CHD-UB



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

HC-4B Part # 62600

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

HC-4A Part # 62610

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

HC-5C Part # 62620

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

CHC-UB Individual Sizes Available 9/16 to 5-inch

Type CHD-UB Cuts up to 1" Thick Material

HCD-4B Part # 64300

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

HCD-4A Part # 64310

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

HCD-5C Part # 64320

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

HCD-5PL Part # 64520

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

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