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NORSEMAN/CTD
DRILL & TOOL

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JOBBER LENGTH, METRIC, 3/8" REDUCED SHANK

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 Pcs.

Part No.	Description of Sizes	Qty of each
44110 SP-13	1/16-1/4 by 64ths	1

15 Pcs.

Part No.	Description of Sizes	Qty of each
44120 SP-15	1/16-1/2 by 32nds	1

21 Pcs.

Part No.	Description of Sizes	Qty of each
44130 SP-21	1/16-3/8 by 64ths	1

26 Pcs.

Part No.	Description of Sizes	Qty of each
88660 SP-26	A - Z	1

29 Pcs.

Part No.	Description of Sizes	Qty of each
44150 SP-29	1/16-1/2 by 64ths	1

29 Pcs. - Ultra Dex

Part No.	Description of Sizes	Qty of each
44170 SP-29P	1/16-1/2 by 64ths	1

29 Pcs. Blaze Orange - Ultra Dex

Part No.	Description of Sizes	Qty of each
44190 SP-29PON	1/16-1/2 by 64ths	1

60 Pcs.

Part No.	Description of Sizes	Qty of each
88640 SP-60	# 1 - 60	1

115 Pcs.

Part No.	Description of Sizes	Qty of each
93840 SP-115	1/16-1/2 x 64ths + A-Z & 1-60	1

Type 128-AG 135° Split Point 3/8" Reduced Shank Black & Gold - Magnum Super Premium

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

21 Pcs.

Part No.	Description of Sizes	Qty of each
92170 SP-21R	1/16-1/4 by 64ths, 9/32-1/2 by 32nds	1

15 Pcs.

Part No.	Description of Sizes	Qty of each
92110 RSP-15	1/16-1/2 by 32nds	1

29 Pcs.

Part No.	Description of Sizes	Qty of each
92100 RSP-29	1/16-1/2 by 64ths	1

29 Pcs. - Ultra Dex

Part No.	Description of Sizes	Qty of each
92150 RSP-29P	1/16-1/2 by 64ths	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 Pcs. - Metric

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

13 Pcs. - Metric

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

19 Pcs. - Metric

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

25 Pcs. - Metric

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

41 Pcs. - Metric

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

118 Pcs. - 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

QUICK RELEASE 1/4" HEX SHANK & 3/8" REDUCED SHANK

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 Pcs.

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

15 Pcs.

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

21 Pcs.

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

29 Pcs.

Part No.	Description of Sizes	Qty of each
66480 SPM-29	1/16-1/2 by 64ths	1

29 Pcs. - Ultra Dex

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

Type 178-AG

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

21 Pcs.

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

15 Pcs.

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

29 Pcs.

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

29 Pcs. - 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

TYPE QR-AG 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-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 Adaptor	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 Adaptor	1

TYPE QR7A-AG 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-7A and QR-7B
do not include Quick Release Adaptors.

TYPE QR7B-AG 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.

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



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 (TiN) 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 TiN 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 Pcs.

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 Pcs.

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

13 Pcs.

Part #	1/16 - 1/4 by 64ths	Qty of each
43340 A-13	Black Oxide - 135° Split Point	1
88670 AN-13	TiN Coated - 135° Split Point	1

15 Pcs.

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

21 Pcs.

Part #	1/16 - 3/8 by 64ths	Qty of each
43360 A-21	Black Oxide - 135° Split Point	1
96740 AN-21	TiN Coated 135° Split Point	1
88680 ACN-21	Titanium Carbon Nitride 135° Point	1
81160 ALN-21	Titanium Aluminum Nitride 135° SP	1

NAS 907B TiN / TiCN / TiAlN COATED & 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 (TiN) 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 Carbonitride (TiCN)

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.

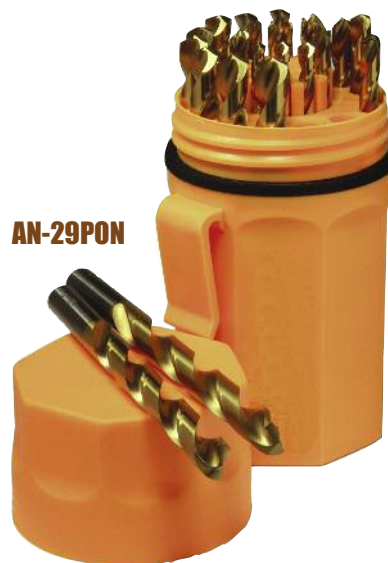
Type 190-ALN Titanium Aluminum Nitride (TiAlN)

NAS 907B - 135° Split Point - HSS Heavy Duty

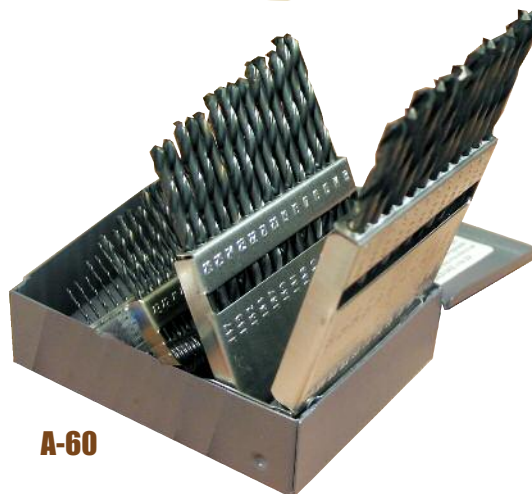
- Heavy-duty construction for drilling in tougher materials
- Manufactured from premium high-speed steel
- 135° split point is self-centering for reducing thrust and easier penetration
- Provides exceptional oxidation resistance and extreme hardness
- Manufactured to **NAS 907B** aerospace specification.



AN-29



AN-29PON



A-60

26 Pcs.

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 Pcs.

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

29 Pcs. Blaze Orange - Ultra Dex

Part No.	1/16-1/2 by 64ths	Qty of each
96770 AN-29PON	TiN Coated - 135° Split Point	1

60 Pcs.

Part #	# 1 - 60	Qty of each
43390 A-60	Black Oxide - 135° Split Point	1
96700 AN-60	TiN Coated - 135° Split Point	1

115 Pcs.

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	TiN Coated - 135° Split Point	1

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 without 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 keyless 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 keyless chucks.

13 Pcs.

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 Pcs.

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 Pcs.

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"- RS Gold Strike™	1

29 Pcs.

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"- RS Gold Strike™	1

29 Pcs. -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"- RS Gold Strike™	1

Cutting Tool Sets

NORSEMAN/CTD
DRILL & TOOL

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 - TiN Coated

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

Type 150-M 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.

13 Pcs.

1/16 - 1/4 by 64ths

Part #		Qty of each
68320 D-13	M42 Cobalt NAS 907J	1
76890 DN-13	M42 Cobalt NAS 907J TiN Coated	1

15 Pcs.

1/16-1/2 by 32nds

Part #		Qty of each
68340 D-15	M42 Cobalt NAS 907J	1
79900 DN-15	M42 Cobalt NAS 907J TiN Coated	1

20 Pcs.

#60 - 80

Part #		Qty of each
68310 D-20	M33 Cobalt M42	1

21 Pcs.

1/16-3/8 by 64ths

Part #		Qty of each
68360 D-21	M42 Cobalt NAS 907J	1
79910 DN-21	M42 Cobalt NAS 907J TiN Coated	1

26 Pcs.

A - Z

Part #		Qty of each
68380 D-26	M42 Cobalt NAS 907J	1
79930 DN-26	M42 Cobalt NAS 907J TiN Coated	1

29 Pcs.

1/16-1/2 by 64ths

Part #		Qty of each
68400 D-29	M42 Cobalt NAS 907J	1
79920 DN-29	M42 Cobalt NAS 907J TiN Coated	1

29 Pcs. -Ultra Dex

1/16-1/2 by 64ths

Part #		Qty of each
68410 D-29P	M42 Cobalt NAS 907J	1



DN-21



D-29

Cutting Tool Sets - Cobalt Heavy Duty 135 ° Split Point

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-DN M42 Cobalt NAS 907J - TiN Coated

- 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-M 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.



D-115

60 Pcs.

#1 - 60

Part #		Qty of each
68420 D-60	M42 Cobalt NAS 907J	1
79940 DN-60	M42 Cobalt NAS 907J TiN Coated	1

115 Pcs.

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

Part #		Qty of each
69280 D-115	M42 Cobalt NAS 907J	1
79950 DN-115	M42 Cobalt NAS 907J TiN Coated	1



D-13M

11 Pcs. - Metric

1.0mm - 6.0mm x .5mm

Part #		Qty of each
58670 D-11M	M42 Cobalt NAS 907J Gold Finish	1

13 Pcs. - Metric

1.0mm - 7.0mm x .5mm

Part #		Qty of each
49082 D-13M	M42 Cobalt NAS 907J Gold Finish	1

19 Pcs. - Metric

1.0mm - 10.0mm x .5mm

Part #		Qty of each
49081 D-19M	M42 Cobalt NAS 907J Gold Finish	1

25 Pcs. - Metric

1.0mm - 13.0mm x .5mm

Part #		Qty of each
58680 D-25M	M42 Cobalt NAS 907J Gold Finish	1



D-25M

41 Pcs. - Metric

6.0mm - 10.0mm x .1mm

Part #		Qty of each
49083 D-41M	M42 Cobalt NAS 907J Gold Finish	1

Cutting Tool Sets

NORSEMAN/CTD
DRILL & TOOL

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 TiN Coated

- TiN coated 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**.

10 Pcs.

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 Pcs.

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 Pcs.

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	TiN Coated - 118° Point	1
06073	SJ-13	V-Line Black Oxide - 118° Point	1

15 Pcs.

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	TiN Coated - 118° Point	1
44540	R-15	3/8" Reduced Shank Bright Finish	1
06083	SJ-15	V-Line Black Oxide - ° Point	1



B-13



B-21



BN-15

Cutting Tool Sets - Bright / TiN Coated / Black 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 TiN Coated

- TiN coated 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 Pcs. # 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	TiN Coated - 118° Point	1

21 Pcs. 1/16-3/8 by 64ths

Part #			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 Pcs. A - Z

Part #			Qty of each
42060	B-26	Black Oxide - 118° Point	1
48640	BN-26	TiN Coated - 118° Point	1
43500	J-26	Bright Finish - 118° Point	1

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

Part #			Qty of each
42070	B-29	Black Oxide - 118° Point	1
43520	J-29	Bright Finish - 118° Point	1
48330	BN-29	TiN Coated - 118° Point	1
44530	R-29	3/8" Reduced Shank Bright Finish	1
06103	SJ-29	V-Line Black Oxide - 118° Point	1

60 Pcs. # 1 - 60

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

Cutting Tool Sets

NORSEMAN/CTD
DRILL & TOOL

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 TiN Coated

- TiN coated 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.

80 Pcs.

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

114 Pcs.

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 Pcs.

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	TiN Coated - 118° Point 1
44520 R-115	3/8" Reduced Shank Bright Finish 1

11 Pcs. - Metric

1.0mm - 6.00 by .5mm

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

13 Pcs.- Metric

1.0mm - 7.0mm x .5mm

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

25 Pcs. - Metric

1.0mm - 13.0mm by .5mm

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



M-11



R-29

METRIC

Cutting Tool Sets - Bright / TiN Coated / Black Oxide

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 Pcs.

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

21 Pcs.

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

29 Pcs.

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, Ultra Bor 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 Pcs.

Part No.	Description of Sizes	Qty of each
66850 SPT-26	A - Z	1

29 Pcs.

Part No.	Description of Sizes	Qty of each
66490 SPT-29	1/16-1/2 by 64ths	1

60 Pcs.

Part No.	Description of Sizes	Qty of each
23560 SPT-60	#1-60	1

Type 100 Bright Finish

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

PL-13



7 Pcs.

Part #	1/16, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4	Qty of each
44267 PL-7	Bright Finish - 118° Point	1

10 Pcs.

Part #	1/16 - 5/32 by 64ths + 3/16, 7/32, 1/4	Qty of each
44277 PL-10	Bright Finish - 118° Point	1

13 Pcs.

Part #	1/16 - 1/4 by 64ths	Qty of each
44287 PL-13	Bright Finish - 118° Point	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 Pcs.

Part No.	1/16 - 1/4 by 64ths	Qty of each
42610 DT-13	M42 Cobalt NAS 907C	1

15 Pcs.

Part No.	1/16 - 1/2 by 32nds	Qty of each
42620 DT-15	M42 Cobalt NAS 907C	1

21 Pcs.

Part No.	1/16 - 3/8 by 64ths	Qty of each
42640 DT-21	M42 Cobalt NAS 907C	1

29 Pcs.

Part No.	1/16 - 1/2 by 64ths	Qty of each
42630 DT-29	M42 Cobalt NAS 907C	1

Cutting Tool Sets

NORSEMAN/CTD
DRILL & TOOL

PARABOLIC TiN COATED & SURFACE TREATED

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 TiN Coated - 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 Pcs.

1/16-1/4 by 64ths

Part #			Qty of each
68080	P-13	Black Oxide -135° Split Point	1
68090	PT-13	TiN Coated -135° Split Point	1

15 Pcs.

1/16-1/2 by 32nds

Part #			Qty of each
68100	P-15	Black Oxide -135° Split Point	1
68110	PT-15	TiN Coated -135° Split Point	1

21 Pcs.

1/16-3/8 by 64ths

Part #			Qty of each
68120	P-21	Black Oxide -135° Split Point	1
68130	PT-21	TiN Coated -135° Split Point	1

29 Pcs.

1/16-1/2 by 64ths

Part #			Qty of each
68150	P-29	Black Oxide -135° Split Point	1
68160	PT-29	TiN Coated -135° Split Point	1



PT-29



P-21

Cutting Tool Sets - Parabolic Titanium Coated & Black Oxide

CAD-HD, SCREW MACHINE AND ACRYLIC DRILLS


CAD-15A

AD-7

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 Pcs.

Part #	1/16 - 1/4 by 64ths	Qty of each
43342 CAD-13A	Black Oxide - 135° Split Point	1

15 Pcs.

Part #	1/16 - 1/2 by 32nds	Qty of each
43352 CAD-15A	Black Oxide - 135° Split Point	1

21 Pcs.

Part #	1/16 - 3/8 by 64ths	Qty of each
43362 CAD-21A	Black Oxide - 135° Split Point	1

29 Pcs.

Part #	1/16 - 1/2 by 64ths	Qty of each
43382 CAD-29A	Black Oxide - 135° Split Point	1

Type 183-AG

Magnum 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 Pcs.

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

118Point 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

118Point - Screw Machine Length TiN Coated 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 Pcs.

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

60 Pcs.

Part #	#1 - 60	Qty of each
35210 SM-60	Screw Machine - 118° Point	1

29 Pcs.

Part #	1/16 - 1/2 by 64ths	Qty of each
25243 SMN-29	Titanium nitride - Screw Machine	1

60 Pcs.

Part #	#1 - 60	Qty of each
25253 SMN-60	Titanium nitride - Screw Machine	1

Cutting Tool Sets

NORSEMAN/CTD
DRILL & TOOL

BLACK OXIDE & TiN COATED - 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 TiN Coated, 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, 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.

10 Pcs.

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 Pcs.

1/16 - 3/8 by 32nds

Part #	Qty of each
43670 T-11	Black Oxide - 135° Split Point 1

13 Pcs.

1/16 - 1/4 by 64ths

Part #	Qty of each
43690 T-13	Black Oxide - 135° Split Point 1

21 Pcs.

1/16 - 3/8 by 64ths

Part #	Qty of each
43710 T-21	Black Oxide - 135° Split Point 1

26 Pcs.

A - Z

Part No.	Description of Sizes	Qty of each
66850 SPT-26	Black & Gold - 135° Split Point	1

29 Pcs.

1/16 - 1/2 by 64ths

Part #	Qty of each
43730 T-29	Black Oxide - 135° Split Point 1
96680 TN-29	TiN Coated - 135° Split Point 1
66490 SPT-29	Black & Gold - 135° Split Point 1

60 Pcs.

1 - 60

Part #	Qty of each
43750 T-60	Black Oxide - 135° Split Point 1
96730 TN-60	TiN Coated - 135° Split Point 1
23560 SPT-60	Black & Gold - 135° Split Point 1



TN-29



TN-60

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

SILVER & DEMING

Type 130-AG

1/2" Shank Silver & Deming
Magnum Super 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-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.



S&D-4SP

4 Pcs.

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

Part #		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

8 Pcs.

9/16 - 1" by 16ths

Part #		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

33 Pcs.

1/2 - 1" by 64ths

Part #		Qty of each
43201 S&D-33	1/2" Shank Silver & Deming 130	1
92401 S&D-33SP	1/2" Shank Silver & Deming 130-AG	1

4 Pcs.

Part No.	Description of Sizes	Qty of each
54520 S&D-4MRO	9/16, 5/8, 3/4 & 1"	1

Cutting Tool Sets

NORSEMAN/CTD
DRILL & TOOL

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 spotweld 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 Pcs.

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 Pcs.

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 Pcs.

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

15 Pcs.

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

17 Pcs.

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 Pcs.

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

29 Pcs. -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 Pcs.

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

14 Pcs.

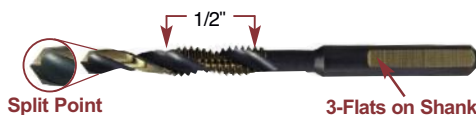
Part No.	Description of Sizes	Qty of each
42031 BF-14	5/64-3/16 by 64ths + 7/32, 1/4-1/2 by 16ths	1

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


Part No.	Description of Sizes
73991	7 pc set
40-AG - DT-7F	8-36, 10-32, 1/4-28,
Fine	5/16-24, 3/8-24, 7/16-20, 1/2-20

Part No.	Description of Sizes
73990	7 pc set
40-AG - DT-7C	8-32, 10-24, 1/4-20,
Coarse	5/16-18, 3/8-16, 7/16-14, 1/2-13

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

SPIRAL POINT, NC

Part No.	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, 3/8-16, 7/16-14 & 1/2-13

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)	2.5-.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 No.	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

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

STRAIGHT FLUTE, NF

Part No.	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

118° POINT DRILLS MAINT.

Part No.	Description of Sizes
60541	
100 Drill Sizes	# 7, 21, 25, 29, 36, F, U, 5/16, 27/64
100 Drill Sizes	# 7, 21, 25, 29, 36, F, U
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

NORSEMAN/CTD
DRILL & TOOL

STEP DRILL SETS

Type 78-AG 3-Flatted Shank, Type 78-AGN TiN Coated / Type 78-QR Quick Release, Type 78-QRN TiN Coated 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-AG SETS

SETS - 3 & 4pcs.	Sizes
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 - 1/2, 7/8 & 1-1/8 ELECTRICIANS - SET
01941	1/8 - 1/2, 3/16 - 1/2, & 9/16 - 1"
01981	1/8 - 1/2, 1/4 - 3/4, 1/4 - 7/8, 7/8 - 1-1/8"

TYPE 78-AGN TiN COATED - SETS

SETS - 3 & 4pcs.	Sizes
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, & 9/16 - 1"
01871	1/8 - 1/2, 1/4 - 3/4, 1/4 - 7/8, 7/8 - 1-1/8"

TYPE 78-QR QUICK RELEASE SETS

SETS - 3 pc.	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
01961	1/8 - 1/2, 3/16 - 1/2, 7/8 & 1-1/8 ELECTRICIANS - SET

TYPE 78-QRN QUICK RELEASE SETS

SETS - 3 pc.	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 ELECTRICIANS - SET



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.

Left Hand Drill - Spiral Bolt Extractor Sets

BR-8 - Type 420 & 190-AL

Part No.	Description of 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 No.	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

SE-4N - Type 420

Part No.	Description of Sizes	Qty of each
47170	EX 2, 3, 4, 5	1

SE-5N - Type 420

Part No.	Description of Sizes	Qty of each
47180	EX 1, 2, 3, 4, 5	1

Left Hand Drill - Square Extractor Set

BR-8SQ - Type 421-AG, Square & 190-AL

Part No.	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

SQE-4 - Type 421-AG

Part No.	Description of Sizes	Qty of each
70840	E 2, 3, 4, 5	1

BR-10



CHATTERPROOF™ COUNTERSINK SETS SUPER PREMIUM

Type 82-AG Countersinks
Type 90-AG Deburring Tools

These high performance, flute-less tools are:

- Single cutting edge - for fast stock removal
- Chatterproof - 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.	Description of Sizes
SP-4CS 10440	82-AG C/S sizes: CS55, CS65, CS55, CS105
SP-4ACS 10442	82-AG C/S sizes: CS65, CS85, CS105, 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: CS55, CS65, CS85, CS105, CS1/4, CS5/16, CS3/8, CS7/16, & CS1/2



HOLE EXPANSION TOOLS

TYPE 50-AG STANDARD FLUTE SETS

 MADE
in the
U.S.A.

SET - Contains 1 ea.

12270 CR-4SP 3/8, 1/2, 5/8, 3/4

TYPE 51-AG FAST SPIRAL SETS

 MADE
in the
U.S.A.

SET - Contains 1 ea.

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:

1 each:

 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

Part # 38880
SP-6HHL Set contains:

1 each:

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

Part # 38870
SP-6HHS Set contains:

1 each:

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

Part # 38860

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.

Type 51-AG

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.

CARBIDE HOLE CUTTER SETS

Type CHC-AG & CHD-AG

Magnum Premium


 All Sets
Packaged
in
Sturdy
Steel Case!


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

HC-4B Part # 62600

Set contains: 1 each:

Fractional sizes: 11/16, 13/16, 15/16, 1-1/16.

HC-4A Part # 62610

Set contains: 1 each:

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

HC-5C Part # 62620

Set contains: 1 each:

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: 1 each:

Fractional sizes: 11/16, 13/16, 15/16, 1-1/16.

HCD-4A Part # 64310

Set contains: 1 each:

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

HCD-5C Part # 64320

Set contains: 1 each:

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