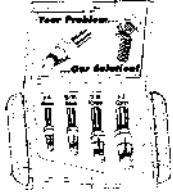
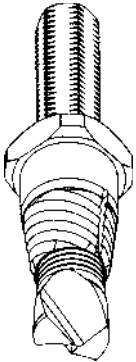


DRILL-OUT® POWER EXTRACTORS

EXTRACTS BOLT WITH BROKEN HEADS. HAS A SELF CENTERING DRILL WITH A LEFT HANDED CUTTING EDGE THAT WON'T WANDER OR WALK. SIMPLY PUT IN YOUR DRILL, SET DRILL ON REVERSE, AND DRILL A SHALLOW HOLE UNTIL EXTRACTOR GRABS AND REMOVES SCREW. REVERSE CUTTING EDGE MAKES IT LESS LIKELY YOU WILL FURTHER TIGHTEN BOLT TRYING TO REMOVE IT.



00401 EXTRACTOR SET
ALDEN CORPORATION BRAND DRILL-OUT® EXTRACTOR SET INCLUDES FOUR SIZES OF EXTRACTORS SOLD INDIVIDUALLY BELOW AND BLACK POLYETHELENE CASE.



00250/00312/00375/00500 EXTRACTORS
ALDEN CORPORATION BRAND DRILL-OUT® EXTRACTORS SOLD INDIVIDUALLY IN FOUR SIZES.

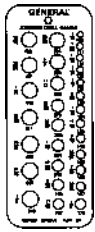
REMOVES SIZE:

PART#	STANDARD	METRIC
00250	1/4"	M6
00312	5/16"	M8
00375	3/8"	M10
00500	1/2"	M12

TCH#	MFR#	DESCRIPTION
218002	00401	FOUR EXTRACTOR SET
218005	00250	1/4" & M6 EXTRACTOR
218007	00312	5/16" & M8 EXTRACTOR
218010	00375	3/8" & M10 EXTRACTOR
218012	00500	1/2" & M12 EXTRACTOR

GENERAL

DRILL GAGES



GENERAL
No. 13
14, 15

13,14,15 DRILL GAGES
USE TO QUICKLY IDENTIFY DRILL BIT SIZES. HEAT TREATED HEAVY GAGE STEEL.

TCH#	MFR#	DESCRIPTION
236125	22012-7	15 DRILL GAGE 1 TO 60
236100	22006-6	13 DRILL GAGE 61 TO 80
236115	22009-7	14 DRILL GAGE 1/16"-1/2" IN 64THS

OAKDALE MN PHONE: 1-651-735-2200 FAX: 1-651-735-1800

TWIST DRILL BITS



TYPE 120 1/4" SHANK DRILL BITS
118° POINT. HIGH SPEED STEEL GENERAL PURPOSE BIT FOR 1/4" DRILL CHUCKS.



TYPE 128 3/8" SHANK DRILL BITS
118° POINT. HIGH SPEED STEEL GENERAL PURPOSE BIT FOR 3/8" OR SMALLER DRILL CHUCKS. BRIGHT FINISH. 6" OVERALL LENGTH.



TYPE 130 1/2" SHANK DRILL BITS
118° POINT. HIGH SPEED STEEL GENERAL PURPOSE BIT FOR 1/2" OR SMALLER DRILL CHUCKS. BRIGHT FINISH. 6" OVERALL LENGTH.

TCH#	MFR#	DESCRIPTION
354030	28830	120-20 1/4" SHANK BIT 5/16"
354035	28870	120-24 1/4" SHANK BIT 3/8"
354040	28910	120-28 1/4" SHANK BIT 7/16"
354045	28950	120-32 1/4" SHANK BIT 1/2"
354050	59520	128-32 3/8" SHANK BIT 1/2"
354052	59560	128-40 3/8" SHANK BIT 5/8"
354055	29140	130-34 1/2" SHANK BIT 17/32"
354060	29160	130-36 1/2" SHANK BIT 9/16"
354065	29180	130-38 1/2" SHANK BIT 19/32"
354070	29200	130-40 1/2" SHANK BIT 5/8"
354075	29220	130-42 1/2" SHANK BIT 21/32"
354080	29240	130-44 1/2" SHANK BIT 11/16"
354085	29260	130-46 1/2" SHANK BIT 23/32"
354090	29280	130-48 1/2" SHANK BIT 3/4"
354095	29300	130-50 1/2" SHANK BIT 25/32"
354100	29320	130-52 1/2" SHANK BIT 13/16"
354105	29340	130-54 1/2" SHANK BIT 27/32"
354110	29360	130-56 1/2" SHANK BIT 7/8"
354115	29380	130-58 1/2" SHANK BIT 29/32"
354120	29400	130-60 1/2" SHANK BIT 15/16"
354125	29420	130-62 1/2" SHANK BIT 31/32"
354130	29440	130-64 1/2" SHANK BIT 1"
354135	29450	130-68 1/2" SHANK BIT 1 1/16"
354140	29460	130-72 1/2" SHANK BIT 1 1/8"
354145	29470	130-74 1/2" SHANK BIT 1 5/32"
354150	29480	130-76 1/2" SHANK BIT 1 3/16"
354155	29490	130-80 1/2" SHANK BIT 1 1/4"

NEW HOPE MN PHONE: 1-763-535-4660 FAX: 1-763-535-2005



TWIST DRILL BITS



TYPE 160 LONGBOY DRILL BITS

118° POINT. HIGH SPEED STEEL GENERAL PURPOSE BIT RECOMMENDED FOR WIDE RANGE OF DEEP HOLE PRODUCTION DRILLING. 12" LONG OVERALL.



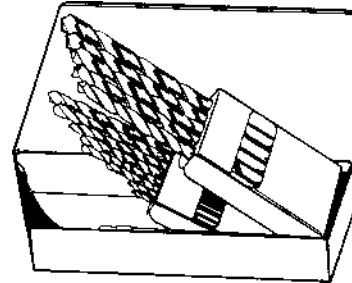
TYPE 166 AIRCRAFT TYPE B DRILL BITS

135° SPLIT POINT. HIGH SPEED STEEL BIT FOR DRILLING IN HARD TO REACH PLACES. 6" LONG OVERALL.

<u>TCH#</u>	<u>MFR#</u>	<u>DESCRIPTION</u>
354160	27200	160-08 LONGBOY BIT 1/8" X 12"
354165	27210	160-09 LONGBOY BIT 9/64" X 12"
354170	27220	160-10 LONGBOY BIT 5/32" X 12"
354175	27240	160-12 LONGBOY BIT 3/16" X 12"
354180	27280	160-16 LONGBOY BIT 1/4" X 12"
354185	27320	160-20 LONGBOY BIT 5/16" X 12"
354190	27360	160-24 LONGBOY BIT 3/8" X 12"
354195	27400	160-28 LONGBOY BIT 7/16" X 12"
354200	27440	160-32 LONGBOY BIT 1/2" X 12"
354205	68500	166-08 AIRCRAFT BIT 1/8" X 6"
354210	68510	166-09 AIRCRAFT BIT 9/64" X 6"
354215	68520	166-10 AIRCRAFT BIT 5/32" X 6"
354220	68530	166-11 AIRCRAFT BIT 11/64" X 6"
354225	68540	166-12 AIRCRAFT BIT 3/16" X 6"
354230	68550	166-13 AIRCRAFT BIT 13/64" X 6"
354235	68560	166-14 AIRCRAFT BIT 7/32" X 6"
354240	68570	166-15 AIRCRAFT BIT 15/64" X 6"
354245	68580	166-16 AIRCRAFT BIT 1/4" X 6"

TWIST DRILL BIT SETS

ALL SETS INCLUDE TYPE 100 JOBBER LENGTH HIGH SPEED STEEL GENERAL PURPOSE BRITE-FLUTE® BITS. 118° POINTS. RECOMMENDED FOR WIDE VARIETY OF DRILLING APPLICATIONS, INCLUDING NON-FERROUS METALS, WOOD, PLASTICS.



J SERIES SET PICTURED

PL AND J SERIES SETS

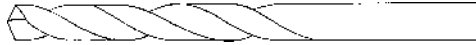
ALL PL SETS HAVE PLASTIC CASE, J HAS STEEL CASE.

<u>SET #</u>	<u>BIT SIZES INCLUDED</u>
PL7	1/16, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4
PL10, J10	1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4
J11	1/16 THROUGH 3/8 BY 32NDS
PL13, J13	1/16 THROUGH 1/4 BY 64THS
PL14	1/16 THROUGH 5/32 BY 64THS PLUS 3/16, 7/32, 1/4, 5/16, 3/8, 7/16, 1/2. SIZES 5/16 UP HAVE 1/4" SHANK.
J15	1/16 THROUGH 1/2 BY 32NDS
J21	1/16 THROUGH 3/8 BY 64THS
J26	A THROUGH Z LETTER SIZE BITS
J29	1/16 THROUGH 1/2 BY 64THS
J60	1 THROUGH 60 WIRE GAUGE SIZE BITS

<u>TCH#</u>	<u>MFR#</u>	<u>DESCRIPTION</u>
354885	43400	J10 DRILL SET 1/16-1/4
354890	43410	J11 DRILL SET 1/16-3/8
354890	43430	J13 DRILL SET 1/16-1/4
354900	43450	J15 DRILL SET 1/16-1/2
354905	43480	J21 DRILL SET 1/16-3/8
354910	43500	J26 DRILL SET A TO Z
354915	43520	J29 DRILL SET 1/16-1/2
354920	43540	J60 DRILL SET 1 TO 60
354940	44267	PL7 DRILL SET 1/16-1/4
354925	44277	PL10 DRILL SET 1/16-1/4
354930	44287	PL13 DRILL SET 1/16-1/4
354935	44297	PL14 DRILL SET 1/16-1/2



TWIST DRILL BITS



TYPE 190 JOBBERS LENGTH HEAVY DUTY BITS

135° SPLIT POINT. HIGH SPEED STEEL BLACK SURFACE TREATED HEAVY DUTY BITS ARE SELF CENTERING AND REQUIRE LESS THRUST IN DRILLING HARDER METAL THAN GENERAL PURPOSE BITS. RECOMMENDED FOR MEDIUM HARDNESS METAL DRILLING.



TYPE 115 JOBBER LENGTH GENERAL PURPOSE BIT

118° POINT. HIGH SPEED STEEL BLACK SURFACE TREATED GENERAL PURPOSE BITS PERFORM WELL IN A VARIETY OF FERROUS METAL APPLICATIONS. STOCKED IN WIRE GAUGE SIZES 53 TO 60.

TYPE 190 HEAVY DUTY BITS-WIRE GAUGE SIZES

<u>TCH#</u>	<u>MFR#</u>	<u>DESCRIPTION</u>
354250	04780	190-001 DRILL BIT #1
354255	04790	190-002 DRILL BIT #2
354260	04800	190-003 DRILL BIT #3
354265	04810	190-004 DRILL BIT #4
354270	04820	190-005 DRILL BIT #5
354275	04830	190-006 DRILL BIT #6
354280	04840	190-007 DRILL BIT #7
354285	04850	190-008 DRILL BIT #8
354290	04860	190-009 DRILL BIT #9
354295	04870	190-010 DRILL BIT #10
354300	04880	190-011 DRILL BIT #11
354305	04890	190-012 DRILL BIT #12
354310	04900	190-013 DRILL BIT #13
354315	04910	190-014 DRILL BIT #14
354320	04920	190-015 DRILL BIT #15
354325	04930	190-016 DRILL BIT #16
354330	04940	190-017 DRILL BIT #17
354335	04950	190-018 DRILL BIT #18
354340	04960	190-019 DRILL BIT #19
354345	04970	190-020 DRILL BIT #20
354350	04980	190-021 DRILL BIT #21
354355	04990	190-022 DRILL BIT #22
354360	05000	190-023 DRILL BIT #23
354365	05010	190-024 DRILL BIT #24
354370	05020	190-025 DRILL BIT #25
354375	05030	190-026 DRILL BIT #26
354380	05040	190-027 DRILL BIT #27
354385	05050	190-028 DRILL BIT #28
354390	05060	190-029 DRILL BIT #29
354395	05070	190-030 DRILL BIT #30
354400	05080	190-031 DRILL BIT #31
354405	05090	190-032 DRILL BIT #32
354410	05100	190-033 DRILL BIT #33
354415	05110	190-034 DRILL BIT #34
354420	05120	190-035 DRILL BIT #35
354425	05130	190-036 DRILL BIT #36
354430	05140	190-037 DRILL BIT #37
354435	05150	190-038 DRILL BIT #38

OAKDALE MN PHONE: 1-651-735-2200 FAX: 1-651-735-1800

TYPE 190 HEAVY DUTY BITS-WIRE GAUGE SIZES

<u>TCH#</u>	<u>MFR#</u>	<u>DESCRIPTION</u>
354440	05160	190-039 DRILL BIT #39
354450	05170	190-040 DRILL BIT #40
354455	05180	190-041 DRILL BIT #41
354460	05190	190-042 DRILL BIT #42
354465	05200	190-043 DRILL BIT #43
354470	05210	190-044 DRILL BIT #44
354475	05220	190-045 DRILL BIT #45
354480	05230	190-046 DRILL BIT #46
354485	05240	190-047 DRILL BIT #47
354490	05250	190-048 DRILL BIT #48
354495	05260	190-049 DRILL BIT #49
354505	05270	190-050 DRILL BIT #50
354510	05280	190-051 DRILL BIT #51
354515	05290	190-052 DRILL BIT #52

TYPE 115 GENERAL PURPOSE-WIRE GAUGE SIZES

354520	01960	115-053 DRILL BIT #53
354525	01970	115-054 DRILL BIT #54
354530	01980	115-055 DRILL BIT #55
354535	01990	115-056 DRILL BIT #56
354540	02000	115-057 DRILL BIT #57
354545	02010	115-058 DRILL BIT #58
354550	02020	115-059 DRILL BIT #59
354560	02030	115-060 DRILL BIT #60

TYPE 190 HEAVY DUTY BITS-FRACTIONAL SIZES

354445	04490	190-04 DRILL BIT 1/16"
354500	04500	190-05 DRILL BIT 5/64"
354555	04510	190-06 DRILL BIT 3/32"
354565	04520	190-07 DRILL BIT 7/64"
354570	04530	190-08 DRILL BIT 1/8"
354575	04540	190-09 DRILL BIT 9/64"
354580	04550	190-10 DRILL BIT 5/32"
354585	04560	190-11 DRILL BIT 11/64"
354590	04570	190-12 DRILL BIT 3/16"
354595	04580	190-13 DRILL BIT 13/64"
354600	04590	190-14 DRILL BIT 7/32"
354605	04600	190-15 DRILL BIT 15/64"
354610	04610	190-16 DRILL BIT 1/4"
354615	04620	190-17 DRILL BIT 17/64"
354620	04630	190-18 DRILL BIT 9/32"
354625	04640	190-19 DRILL BIT 19/64"
354630	04650	190-20 DRILL BIT 5/16"
354635	04660	190-21 DRILL BIT 21/64"
354640	04670	190-22 DRILL BIT 11/32"
354645	04680	190-23 DRILL BIT 23/64"
354650	04690	190-24 DRILL BIT 3/8"
354655	04700	190-25 DRILL BIT 25/64"
354660	04710	190-26 DRILL BIT 13/32"
354665	04720	190-27 DRILL BIT 27/64"
354670	04730	190-28 DRILL BIT 7/16"
354675	04740	190-29 DRILL BIT 29/64"
354680	04750	190-30 DRILL BIT 15/32"
354685	04760	190-31 DRILL BIT 31/64"
354690	04770	190-32 DRILL BIT 1/2"

NEW HOPE MN PHONE: 1-763-535-4660 FAX: 1-763-535-2005