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STANDARD DRILL SURFACE TREATMENT

The standard treatments applied to the various drill types are indicated on the respective pages of the catalogue.

SILVER JET

- This finish is recommended for the general purpose drilling of ferrous and non-ferrous materials but is particularly suitable for the drilling of aluminum, brass and non-abrasive diecast materials.

BLACK JET

- When tough or abrasive metals are being drilled, the use of a black jet drill is recommended. The P&N/Sutton Black Jet treatment produces an extremely hard, wear resistant surface, thereby improving noticeably the life of the drill. It is particularly suited for the drilling of cast iron high tensile steel, stainless steel and certain abrasive plastics.

JOBBER DRILL

METAL CASE



Part Number	Set Number	Size		Qty	Pkg Qty
		Range	Rises		
180-0055	1	1/16-14	64ths	13	1
180-0073	2	1/16-3/8	64ths	21	1
180-0091	3	1/16-1/2	64ths	29	1
180-0462	+ 3BR	1/16-1/2	32nds	15	1
162-0480	++ 8	9/16-1	16ths	8	1
162-0490	++ 16	17/32-1	32nds	16	1

JOBBER DRILL ASSORTMENT

- High Speed Steel
- Assortment serves as a merchandiser as well as a convenient storage rack
- Comes complete with 31 sizes (376 pieces) of quality P&N/Sutton jobber drills ranging from 1/16" to 1/2", as well as short and double end drills

Part Number	Size Range	Rises	Qty	Pkg Qty
180-9999	1/16-1/2	64ths	376	1

CONTENTS:

Part Number	Diameter (in)	Qty
120-4117	1/16	10
120-4537	5/64	10
120-5006	3/32	20
120-5435	7/64	20
120-5819	1/8	40
120-6057	9/64	20
120-6351	5/32	15
120-6655	11/64	10

JOBBER DRILL ASSORTMENT (CONT)

Part Number	Diameter (in)	Qty
120-6959	3/16	30
120-7286	13/64	15
120-7553	7/32	15
120-7795	15/64	5
120-8068	1/4	25
120-8273	17/64	5
120-8540	9/32	5
120-8755	19/64	4
120-8933	5/16	20
120-9144	21/64	4
120-9359	11/32	5
120-9564	23/64	4
120-9742	3/8	20
120-9957	25/64	3
121-0160	13/32	3
121-0348	27/64	3
121-0491	7/16	4
121-0642	29/64	2
121-0795	15/32	2
121-0946	31/64	2
121-1095	1/2	5
140-2131	1/8	20
141-6011	1/8	30

FRACTIONAL

- Most popular drills used by engineers, tradesmen and home handymen
- Designed to give optimum performance in a wide range of materials
- Straight Shank
- High Speed Steel
- 118° point
- Black Jet Finish



Part Number	Diameter	Decimal Equivalent	Length (In) Flute	Length (In) Overall	Pkg Qty
* 120-2160	1/64	0.0156	3/16	3/4	10
* 120-3004	1/32	0.0312	1/2	1.3/8	10
* 120-3755	3/64	0.0469	3/4	1.3/4	10
* 120-4117	1/16	0.0625	7/8	1.7/8	10
* 120-4537	5/64	0.0781	1	2	10
120-5006	3/32	0.0938	1.1/4	2.1/4	10
* 120-5435	7/64	0.1094	1.1/2	2.5/8	10
120-5819	1/8	0.125	1.5/8	2.3/4	10
120-6057	9/64	0.1406	1.3/4	2.7/8	10
120-6351	5/32	0.1562	2	3.1/8	10
120-6655	11/64	0.1719	2.1/8	3.1/4	10
120-6959	3/16	0.1875	2.5/16	3.1/2	10
120-7286	13/64	0.2031	2.7/16	3.5/8	10
120-7553	7/32	0.2188	2.1/2	3.3/4	10
120-7795	15/64	0.2344	2.5/8	3.7/8	10
120-8068	1/4	0.25	2.3/4	4	10
120-8273	17/64	0.2656	2.7/8	4.1/8	10
120-8540	9/32	0.2812	2.15/16	4.1/4	10
120-8755	19/64	0.2969	3.1/16	4.3/8	10
120-8933	5/16	0.3125	3.3/16	4.1/2	10
120-9144	21/64	0.3281	3.5/16	4.5/8	10

* Available in Silver Jet Finish Only

JOBBER DRILL (CONT)

FRACTIONAL (CONT)

Part Number	Diameter	Decimal Equivalent	Length (in) Flute	Length (in) Overall	Pkg Qty
120-9359	11/32	0.3438	3.7/16	4.3/4	5
120-9564	23/64	0.3594	3.1/2	4.7/8	5
120-9742	3/8	0.3750	3.5/8	5	5
120-9957	25/64	0.3906	3.3/4	5.1/8	5
121-0160	13/32	0.4062	3.7/8	5.1/4	5
121-0348	27/64	0.4219	3.15/16	5.3/8	5
121-0491	7/16	0.4375	4.1/16	5.1/2	5
121-0642	29/64	0.4531	4.3/16	5.5/8	5
121-0795	15/32	0.4688	4.5/16	5.3/4	5
121-0946	31/64	0.4844	4.3/8	5.7/8	5
121-1095	1/2	0.5	4.1/2	6	5
007779	17/32	0.5312	4.13/16	6.5/8	1
006048	9/16	0.5625	4.13/16	6.5/8	1
006772	5/8	0.625	5.3/16	7.1/8	1

* Available in Silver Jet Finish Only

PANEL DRILLS

"TWIN POINT" DOUBLE ENDED

- P&N/Sutton Panel drills have been developed to drill holes for rivets in flat and curved panels
- Used by sheet metal workers and other tradesmen
- Recommended only for shallow holes no deeper than 1.1/4 times the drill diameter
- They can also be used for drilling hard materials eg. stainless steel
- When using twin point drills ensure that the chuck jaws are fully tightened
- High Speed Steel
- Silver Jet Finish
- Fractional and wire gauge
- 135° Self-centering point
- Straight shank
- No centre punching
- Drill cutting at break through
- Accurate round holes
- Minimum burr
- Easier assembly of panels
- Faster production



Part Number	Diameter	Flute	Length (in) Overall	Pkg Qty
141-6011	1/8	9/16	2	10
141-6119	Wire Ga.30	9/16	2	10

CENTRE DRILLS

- Combined drill and counter sink
- High Speed Steel
- The plain type centre drills are used to drill female 60° center holes in ends of the shafts and components which will later revolve between centers
- Centre drills are also used to ensure accurate starting and centering
- Silver Jet Finish
- Manufactured to ANSI B94.11.1967 standard



Part Number	Number	Pilot Diameter (mm)	Body Diameter (mm)	Pkg Qty
170-0015	1	1.00	3.15	5
170-0033	2	2.00	5.00	5
002453	3	2.50	6.30	5
170-0079	4	3.15	8.00	5
001883	5	4.00	10.00	5
004877	6	5.00	12.50	1
170-0131	7	6.30	16.00	1
170-1155	8	8.00	20.00	1

STUB DRILLS

- Stub drills are shorter in overall length and flute than the jobber drill therefore greater rigidity
- Used by engineers and tradesmen
- Major applications are:
 - Drilling sheet metal
 - Drilling of shallow holes in a wide range of materials
 - Drilling of hard metal eg. stainless steel
 - Drilling out broken studs
 - For more accurate hole location
- 118° point
- High Speed Steel
- Fractional and wire gauge sizes
- Straight shank
- Silver Jet Finish
- Black Jet Finish



Part Number	Diameter	Decimal Equiv. (in)	Flute	Length (in) Overall	Pkg Qty
140-2131	1/8	0.1250	7/8	1.7/8	10
002682	3/16	0.1875	1.1/8	2.3/16	10
140-3539	1/4	0.2500	1.3/8	2.1/2	10
140-3931	5/16	0.3125	1.5/8	2.13/16	10
140-4339	3/8	0.3750	1.13/16	3.1/8	10

REDUCED SHANK DRILLS

- Designed to increase the drilling capacity of 1/4, 3/8 and 1/2 diameter drill chucks
- These drills must be used with extreme care and run at recommended speeds to avoid burning and blunting the drill point when drilling
- Straight Shank
- High Speed Steel
- Ground Land (Silver Jet)
- 118° point
- Black Jet Flute
- Fractional



TAPER SHANK DRILLS

- P&N/Sutton Black Jet taper shank drills are a general purpose drill suitable for a wide variety of material and industrial applications
- High Speed Steel
- Black Jet Finish
- They have Morse Taper Shanks for holding and driving
- The tang at the end of the shank is used for ejecting the drill from the socket or sleeve



Part Number	Diameter	Decimal Equiv. (in)	Flute	Length (in) Overall	Pkg Qty
1/2 DIAMETER X 2.1/4 LONG					
• Black Jet Finish					
• Silver and Deming Type					
352565	33/64	0.5156	3.3/8	6	1
162-0891	17/32	0.5313	3.3/8	6	1
352572	35/64	0.5469	3.3/8	6	1
162-1164	9/16	0.5625	3.3/8	6	1
352589	37/64	0.5781	3.3/8	6	1
162-1315	19/32	0.5938	3.3/8	6	1
162-1440	39/64	0.6094	3.3/8	6	1
162-1468	5/8	0.6250	3.3/8	6	1
352602	41/64	0.6406	3.3/8	6	1
162-1584	21/32	0.6563	3.3/8	6	1
162-1664	43/64	0.6719	3.3/8	6	1
162-1673	11/16	0.6875	3.3/8	6	1
162-1771	45/64	0.7031	3.3/8	6	1
162-1799	23/32	0.7188	3.3/8	6	1
162-1897	47/64	0.7344	3.3/8	6	1
162-1913	3/4	0.7500	3.3/8	6	1
162-1986	49/64	0.7656	3.3/8	6	1
162-2008	25/32	0.7813	3.3/8	6	1
162-2106	51/64	0.7969	3.3/8	6	1
162-2124	13/16	0.8125	3.3/8	6	1
162-2204	53/64	0.8281	3.3/8	6	1
162-2213	27/32	0.8438	3.3/8	6	1
162-2311	55/64	0.8594	3.3/8	6	1
162-2339	7/8	0.8750	3.3/8	6	1
162-2437	57/64	0.8906	3.3/8	6	1
162-2455	29/32	0.9063	3.3/8	6	1
162-2526	59/64	0.9219	3.3/8	6	1
162-2544	15/16	0.9375	3.3/8	6	1
162-2642	61/64	0.9351	3.3/8	6	1
162-2660	31/32	0.9688	3.3/8	6	1
162-2740	63/64	0.9844	3.3/8	6	1
162-2759	1	1.0000	3.3/8	6	1
162-2964	1.1/16	1.0625	3.3/8	6	1
162-3200	1.1/8	1.1250	3.3/8	6	1
162-3415	1.3/16	1.1875	3.3/8	6	1
162-3620	1.1/4	1.2500	3.3/8	6	1

Part Number	P&N Reference Number	Diameter	Flute Length	Overall Length	M.T.S. No	Pkg Qty
005447	110-1044	1/2	3.31/32	7.5/32	1	1
008066	110-1080	33/64	3.31/32	7.5/32	1	1
003283	110-1106	17/32	4.1/4	7.7/16	1	1
005454	110-1142	35/64	4.1/4	7.7/16	1	1
002774	110-1188	9/16	4.1/2	8.3/8	2	1
005461	110-1222	31/64	4.1/2	8.3/8	2	1
006024	110-1268	19/32	4.1/2	8.5/8	2	1
007212	110-1286	39/64	4.3/4	8.5/8	2	1
001449	110-1320	5/8	4.7/8	8.5/8	2	1
005836	110-1366	41/64	4.7/8	8.3/4	2	1
003412	110-1400	21/32	4.7/8	8.3/4	2	1
017303	110-1446	43/64	5.1/8	9	2	1
003122	110-1464	11/16	5.1/4	9	2	1
009421	110-1508	45/64	5.1/8	9	2	1
004679	110-1544	23/32	5.1/2	9.1/8	2	1
009438	110-1580	47/64	5.1/2	9.1/8	2	1
001609	110-1624	3/4	5.1/2	9.3/8	2	1
010229	110-1642	49/64	5.1/2	9.1/8	2	1
005843	110-1688	25/32	5.3/4	9.3/8	2	1
013442	110-1722	51/64	5.3/4	9.5/8	2	1
005294	110-1768	13/16	5.7/8	9.5/8	2	1
016061	110-1802	53/64	5.7/8	9.5/8	2	1
009445	110-1820	27/32	5.7/8	9.3/4	2	1
013459	110-1866	55/64	6.1/8	9.3/4	2	1
002422	110-1900	7/8	6.1/8	9.3/4	2	1
017310	110-1946	57/64	6.1/4	10	2	1
011615	110-1982	29/32	6.1/4	10	2	1
006499	110-2040	15/16	6.1/4	11	3	1
012261	110-2086	61/64	6.1/4	11	3	1
008073	110-2120	31/32	6.1/2	11	3	1
002316	110-2184	1	6.1/2	11.1/2	3	1
012278	110-2264	1.1/32	6.1/2	11.1/4	3	1
006284	110-2326	1.1/16	6.5/8	11.3/8	3	1
004310	110-2488	1.1/8	6.7/8	11.5/8	3	1
004150	110-2764	1.1/4	7.1/4	12	3	1
011127	110-2906	1.5/16	7.1/4	13.1/8	4	1
006291	110-3340	1.1/2	7.7/8	13.3/4	4	1

TAP WRENCHES



- The P&N/Sutton bar pattern tap wrench is robustly constructed to withstand the torque applied during the tapping operation
- Correct selection of the tapwrench will ensure there is a positive holding grip between the square end of the tap and the V shape hardened and tempered steel jaws
- The kourled handle reduce hand slippage

Part Number	P&N Reference Number	Number	Hand Tap Range (in)
829632	300-7971	00	1/16 to 1/4
829649	300-7873	0	1/8 to 1/2
009599	300-7882	5	3/16 to 1/2
005522	300-7891	6	1/4 to 3/4
009605	300-7908	7	3/8 to 1
032863	300-7926	8	3/4 to 1.1/2

T-TAP WRENCHES

- The P&N T pattern tap wrench is designed to reach those jobs that are inaccessible with the Bar pattern tapwrench



Part Number	P&N Reference Number	Number	Hand Tap Range (in)
829618	300-7935	1/4	1/16 to 1/4
829625	300-7953	1/2	5/16 to 1/2

HAND TAPS

CHROME STEEL



- P&N/Sutton chrome steel taps are manufactured from high quality chromium tool steel
- The threads are formed using precision ground circular rolls, which together with modern quality control techniques ensure a quality product
- The flutes are polished to give a smooth cutting surface and sharp cutting edges
- After heat treatment, the chamfer lead is precision machine ground ensuring even cutting and quality threads
- 60° Thread form
- T = Taper, I = Intermediate, B = Bottoming

UNC

Part Number	P&N Reference Number	Threads Per Inch.	Shank Dia.	Length (In.) Thread	Length (In.) Overall	No. of Flutes	Tapping Drill Size	Type
020112	232-8297	No. 10	24	0.194	7/8	2.3/8	3	5/32 T
017549	232-8304	No. 10	24	0.194	7/8	2.3/8	3	5/32 I
017556	232-8313	No. 10	24	0.194	7/8	2.3/8	3	5/32 B
014555	232-8377	1/4	20	0.255	1	2.1/2	4	13/64 T
023267	232-8386	1/4	20	0.255	1	2.1/2	4	13/64 I
014562	232-8395	1/4	20	0.255	1	2.1/2	4	13/64 B
018799	232-8411	5/16	18	0.318	1.1/8	2.23/32	4	17/64 T
018805	232-8420	5/16	18	0.318	1.1/8	2.23/32	4	17/64 I
014579	232-8439	5/16	18	0.318	1.1/8	2.23/32	4	17/64 B
011752	232-8457	3/8	16	0.381	1.1/4	2.15/16	4	5/16 T
021690	232-8466	3/8	16	0.381	1.1/4	2.15/16	4	5/16 I
017563	232-8475	3/8	16	0.381	1.1/4	2.15/16	4	5/16 B
025117	232-8493	7/16	14	0.323	1.7/16	3.5/32	4	3/8 T
027005	232-8500	7/16	14	0.323	1.7/16	3.5/32	4	3/8 I
020129	232-8519	7/16	14	0.323	1.7/16	3.5/32	4	3/8 B
011769	232-8537	1/2	13	0.367	1.21/32	3.3/8	4	27/64 T
020136	232-8546	1/2	13	0.367	1.21/32	3.3/8	4	27/64 I
013640	232-8555	1/2	13	0.367	1.21/32	3.3/8	4	27/64 B
023274	232-8573	9/16	12	0.429	1.21/32	3.19/32	4	31/64 T
035871	232-8582	9/16	12	0.429	1.21/32	3.19/32	4	31/64 I
025124	232-8591	9/16	12	0.429	1.21/32	3.19/32	4	31/64 B
023281	232-8617	5/8	11	0.480	1.13/16	3.13/16	4	35/64 T
023298	232-8626	5/8	11	0.480	1.13/16	3.13/16	4	35/64 I
017570	232-8635	5/8	11	0.480	1.13/16	3.13/16	4	35/64 B
025131	232-8653	3/4	10	0.590	2	4.1/4	4	21/32 T
032238	232-8662	3/4	10	0.590	2	4.1/4	4	21/32 I
021706	232-8671	3/4	10	0.590	2	4.1/4	4	21/32 B
017587	232-8699	7/8	9	0.697	2.7/32	4.11/16	4	49/64 T
027012	232-8706	7/8	9	0.697	2.7/32	4.11/16	4	49/64 I
021713	232-8715	7/8	9	0.697	2.7/32	4.11/16	4	49/64 B
027029	232-8733	1	8	0.800	2.1/2	5.1/8	4	7/8 T
032245	232-8742	1	8	0.800	2.1/2	5.1/8	4	7/8 I
027036	232-8751	1	8	0.800	2.1/2	5.1/8	4	7/8 B
420004	232-8779	1.1/8	7	0.896	2.9/16	5.716	4	63/64 T
420011	232-8788	1.1/8	7	0.896	2.9/16	5.716	4	63/64 I
420028	232-8797	1.1/8	7	0.896	2.9/16	5.716	4	63/64 B
040264	232-8813	1.1/4	7	1.021	2.9/16	5.3/4	4	1.7/64 T
040271	232-8822	1.1/4	7	1.021	2.9/16	5.3/4	4	1.7/64 I
040288	232-8831	1.1/4	7	1.021	2.9/16	5.3/4	4	1.7/64 B

HAND TAPS (CONT)

CHROME STEEL (CONT)

UNF

Part Number	P&N Reference Number	Size	Threads Per Inch.	Shank Dia.	Length (In.)		No. of Flutes	Tapping Drill Size	Type
					Thread	Overall			
020143	233-2337	10	32	0.194	7/8	2.3/8	3	5/32	T
020150	233-2346	10	32	0.194	7/8	2.3/8	3	5/32	I
023304	233-2355	10	32	0.194	7/8	2.3/8	3	5/32	B
016399	233-2417	1/4	28	0.255	1	2.1/2	4	7/32	T
017594	233-2426	1/4	28	0.255	1	2.1/2	4	7/32	I
016405	233-2435	1/4	28	0.255	1	2.1/2	4	7/32	B
017600	233-2453	5/16	24	0.318	1.1/8	2.23/32	4	6.9mm	T
025148	233-2462	5/16	24	0.318	1.1/8	2.23/32	4	6.9mm	I
016412	233-2471	5/16	24	0.318	1.1/8	2.23/32	4	6.9mm	B
013657	233-2499	3/8	24	0.381	1.1/4	2.15/16	4	8.5mm	T
018812	233-2506	3/8	24	0.381	1.1/4	2.15/16	4	8.5mm	I
010724	233-2515	3/8	24	0.381	1.1/4	2.15/16	4	8.5mm	B
013060	233-2533	7/16	20	0.323	1.7/16	3.5/32	4	25/64	T
018829	233-2542	7/16	20	0.323	1.7/16	3.5/32	4	25/64	I
015422	233-2551	7/16	20	0.323	1.7/16	3.5/32	4	25/64	B
017617	233-2579	1/2	20	0.367	1.21/32	3.3/8	4	29/64	T
015439	233-2588	1/2	20	0.367	1.21/32	3.3/8	4	29/64	I
023311	233-2597	1/2	20	0.367	1.21/32	3.3/8	4	29/64	B
015446	233-2613	9/16	18	0.429	1.21/32	3.19/32	4	33/64	T
023328	233-2622	9/16	18	0.429	1.21/32	3.19/32	4	33/64	I
025155	233-2631	9/16	18	0.429	1.21/32	3.19/32	4	33/64	B
018836	233-2659	5/8	18	0.480	1.13/16	3.13/16	4	37/64	T
029559	233-2668	5/8	18	0.480	1.13/16	3.13/16	4	37/64	I
018843	233-2677	5/8	18	0.480	1.13/16	3.13/16	4	37/64	B
023335	233-2695	3/4	16	0.590	2	4.1/4	4	11/16	T
029566	233-2702	3/4	16	0.590	2	4.1/4	4	11/16	I
023342	233-2711	3/4	16	0.590	2	4.1/4	4	11/16	B
018850	233-2739	7/8	14	0.697	2.7/32	4.11/16	4	13/16	T
016429	233-2748	7/8	14	0.697	2.7/32	4.11/16	4	13/16	I
029573	233-2757	7/8	14	0.697	2.7/32	4.11/16	4	13/16	B
021720	233-2775	1	12	0.800	2.1/2	5.1/8	4	59/64	T
029580	233-2784	1	12	0.800	2.1/2	5.1/8	4	59/64	I
017624	233-2793	1	12	0.800	2.1/2	5.1/8	4	59/64	B
035925	233-2819	1.1/8	12	0.896	2.9/16	5.7/16	4	1.3/64	T
032313	233-2828	1.1/8	12	0.896	2.9/16	5.7/16	4	1.3/64	I
050683	233-2837	1.1/8	12	0.896	2.9/16	5.7/16	4	1.3/64	B
040318	233-2855	1.1/4	12	1.021	2.9/16	5.3/4	6	1.11/64	T
035932	233-2864	1.1/4	12	1.021	2.9/16	5.3/4	6	1.11/64	I
035949	233-2873	1.1/4	12	1.021	2.9/16	5.3/4	6	1.11/64	B

UNS

Part Number	P&N Reference Number	Size	Threads Per Inch.	Shank Dia.	Length (In.)		No. of Flutes	Tapping Drill Size	Type
					Thread	Overall			
032290	233-7417	1	14	0.800	2.1/2	5.1/8	4	15/16	T
040301	233-7426	1	14	0.800	2.1/2	5.1/8	4	15/16	I
032306	233-7435	1	14	0.800	2.1/2	5.1/8	4	15/16	B

ISO METRIC SPARK PLUG

Part Number	P&N Reference Number	Size	Pitch mm	Shank Dia.	Length (mm)		No. of Flutes	Tapping Drill Size	Type
					Thread	Overall			
029511	237-3019	10	1.00	7.772	31.80	75	4	9.00	T
032207	237-3028	10	1.00	7.772	31.80	75	4	9.00	I
023236	237-3037	10	1.00	7.772	31.80	75	4	9.00	B
029528	237-3055	12	1.25	9.322	42.10	86	4	10.50	T
025087	237-3064	12	1.25	9.322	42.10	86	4	10.50	I
035833	237-3073	12	1.25	9.322	42.10	86	4	10.50	B
012377	237-3091	14	1.25	10.897	42.10	91	4	12.50	T
021683	237-3108	14	1.25	10.897	42.10	91	4	12.50	I
020105	237-3117	14	1.25	10.897	42.10	91	4	12.50	B

ISO METRIC CONDUIT

Part Number	P&N Reference Number	Size	Pitch mm	Shank Dia.	Length (mm)		No. of Flutes	Tapping Drill Size	Type
					Thread	Overall			
029498	235-4646	25	1.50	20.40	38.00	83	4	23.50	T
035819	235-4655	25	1.50	20.40	38.00	83	4	23.50	I
040240	235-4664	25	1.50	20.40	38.00	83	4	23.50	B
035826	235-4673	32	1.50	26.00	38.00	102	4	30.50	T
029504	235-4682	32	1.50	26.00	38.00	102	4	30.50	I
050669	235-4691	32	1.50	26.00	38.00	102	4	30.50	B
420035	235-4708	40	1.50	31.40	38.00	102	4	38.50	T
420042	235-4717	40	1.50	31.40	38.00	102	4	38.50	I
420059	235-4726	40	1.50	31.40	38.00	102	4	38.50	B
420066	235-4735	50	1.50	41.90	51.00	127	6	48.50	T
420073	235-4744	50	1.50	41.90	51.00	127	6	48.50	I
420080	235-4753	50	1.50	41.90	51.00	127	6	48.50	B

NPT (TAPER PIPE)

• Bottoming Lead Only

Part Number	P&N Reference Number	Size	Thread Per Inch.	Shank Dia.	Length (mm)		No. of Flutes	Tapping Drill Size	Type
					Thread	Overall			
017723	236-9013	1/8	27	0.437	3/4	2.1/8	4	11/32	B
016443	236-9022	1/4	18	0.562	1.1/16	2.7/16	4	7/16	B
017730	236-9031	3/8	18	0.700	1.1/16	2.9/16	4	9/16	B
027098	236-9040	1/2	14	0.687	1.3/8	3.1/8	4	45/64	B
027104	236-9059	3/4	14	0.906	1.3/4	3.1/4	4	29/32	B
027111	236-9068	1	11.1/2	1.125	1.3/4	3.3/4	4	1.9/64	B
040691	236-9077	1.1/4	11.1/2	1.312	1.3/4	4	6	1.15/32	B
050799	236-9086	1.1/2	11.1/2	1.500	1.3/4	4.1/4	6	1.23/32	B
036311	236-9095	2	11.1/2	1.875	1.3/4	4.1/2	6	2.3/16	B

HAND TAPS (CONT)

CHROME STEEL (CONT)

ISO METRIC COARSE

Part Number	P&N Reference Number	Size	Thread Per Inch	Shank Dia.	Length (mm)		No. of Flutes	Tapping Drill Size	Type
					Thread	Overall			
018751	234-8095	3	0.5	3.851	15.9	49	3	2.55	T
020099	234-8102	3	0.5	3.851	15.9	49	3	2.55	I
025001	234-8111	3	0.5	3.851	15.9	49	3	2.55	B
015385	234-8175	4	0.7	4.267	19.1	54	4	3.4	T
016351	234-8184	4	0.7	4.267	19.1	54	4	3.4	I
021614	234-8193	4	0.7	4.267	19.1	54	4	3.4	B
011271	234-8255	5	0.8	5.588	23.8	60	4	4.3	T
011288	234-8264	5	0.8	5.588	23.8	60	4	4.3	I
015392	234-8273	5	0.8	5.588	23.8	60	4	4.3	B
012360	234-8291	6	1	6.477	25.4	64	4	5.1	T
015408	234-8308	6	1	6.477	25.4	64	4	5.1	I
008189	234-8317	6	1	6.477	25.4	64	4	5.1	B
014531	234-8424	8	1.25	8.077	28.5	69	4	6.9	I
017501	234-8433	8	1.25	8.077	28.5	69	4	6.9	B
035697	234-8451	9	1.25	9.677	31.8	75	4	7.9	T
035710	234-8479	9	1.25	9.677	31.8	75	4	7.9	B
017518	234-8577	10	1.5	7.772	31.8	75	4	8.6	T
008196	234-8586	10	1.5	7.772	31.8	75	4	8.6	I
015415	234-8595	10	1.5	7.772	31.8	75	4	8.6	B
021621	234-8737	12	1.75	9.322	42.1	86	4	10.2	T
016368	234-8746	12	1.75	9.322	42.1	86	4	10.2	I
021638	234-8755	12	1.75	9.322	42.1	86	4	10.2	B
025032	234-8853	14	2	10.897	42.1	91	4	12.20	T
040202	234-8862	14	2	10.897	42.1	91	4	12.20	I
032153	234-8871	14	2	10.897	42.1	91	4	12.20	B
021645	234-8933	16	2	12.192	46	97	4	14.25	T
013626	234-8942	16	2	12.192	46	97	4	14.25	I
014548	234-8951	16	2	12.192	46	97	4	14.25	B
017525	234-9091	20	2.5	16.561	50.8	114	4	17.50	T
023212	234-9108	20	2.5	16.561	50.8	114	4	17.50	I
018768	234-9117	20	2.5	16.561	50.8	114	4	17.50	B
035758	234-9297	24	3	19.304	56.4	125	4	21.00	T
029443	234-9304	24	3	19.304	56.4	125	4	21.00	I
035765	234-9313	24	3	19.304	56.4	125	4	21.00	B
050577	234-9368	30	3.5	25.566	65	138	4	26.50	T
050584	234-9377	30	3.5	25.566	65	138	4	26.50	I
040233	234-9386	30	3.5	25.566	65	138	4	26.50	B
050621	234-9420	36	4	31.318	76.2	154	4	32.00	T
050638	234-9439	36	4	31.318	76.2	154	4	32.00	I
050645	234-9448	36	4	31.318	76.2	154	4	32.00	B

ISO METRIC FINE

Part Number	P&N Reference Number	Size	Thread Per Inch	Shank Dia.	Length (mm)		No. of Flutes	Tapping Drill Size	Type
					Thread	Overall			
021652	234-8371	8	1.00	8.077	28.50	69	4	7.10	T
029450	234-8380	8	1.00	8.077	28.50	69	4	7.10	I
029467	234-8399	8	1.00	8.077	28.50	69	4	7.10	B
050874	234-8442	8	1.00	8.077	28.50	69	4	7.10	S
021669	234-8531	10	1.25	7.772	31.80	75	4	8.90	T
013633	234-8540	10	1.25	7.772	31.80	75	4	8.90	I
021676	234-8559	10	1.25	7.772	31.80	75	4	8.90	B
035789	234-8693	12	1.50	9.322	42.10	86	4	10.50	T
025056	234-8700	12	1.50	9.322	42.10	86	4	10.50	I
023229	234-8719	12	1.50	9.322	42.10	86	4	10.50	B
017532	234-8817	14	1.50	10.897	42.10	91	4	12.50	T
018775	234-8826	14	1.50	10.897	42.10	91	4	12.50	I
026954	234-8835	14	1.50	10.897	42.10	91	4	12.50	B
025063	234-8899	16	1.50	12.192	46.00	97	4	14.75	T
025070	234-8906	16	1.50	12.192	46.00	97	4	14.75	I
018782	234-8915	16	1.50	12.192	46.00	97	4	14.75	B
026961	234-8779	18	1.50	13.767	46.00	102	4	16.50	T
032177	234-8988	18	1.50	13.767	46.00	102	4	16.50	I
029474	234-8997	18	1.50	13.767	46.00	102	4	16.50	B
026978	234-9055	20	1.50	16.561	50.80	114	4	18.50	T
029481	234-9064	20	1.50	16.561	50.80	114	4	18.50	I
032184	234-9073	20	1.50	16.561	50.80	114	4	18.50	B

HAND TAPS SETS

CHROME STEEL

- Chrome Steel Hand Taps are available in sets of three which include: a taper, intermediate and bottoming tap
- The taps are supplied in a plastic case that protects the threads from damage



UNC

Part Number	P&N Reference Number	Size	Threads Per Inch
027135	232-8402	1/4	20
020242	232-8448	5/16	18
023380	232-8484	3/8	16
021782	232-8528	7/16	14
017754	232-8564	1/2	13
036373	232-8608	9/16	12
027142	232-8644	5/8	11
036380	232-8680	3/4	10
036397	232-8724	7/8	9
036403	232-8760	1	8

UNF

Part Number	P&N Reference Number	Size	Threads Per Inch
018928	233-2444	1/4	28
036410	233-2480	5/16	24
020259	233-2524	3/8	24
021799	233-2560	7/16	20
029702	233-2604	1/2	20
023397	233-2640	9/16	18
027159	233-2686	5/8	18
036427	233-2720	3/4	16
032641	233-2766	7/8	14
036434	232-2800	1	12

SPARK PLUG

Part Number	P&N Reference Number	Size (mm)	Pitch (mm)
089546	237-3046	10	1
071787	237-3082	12	1.25
071794	237-3126	14	1.25

ISO METRIC COARSE

Part Number	P&N Reference Number	Size (mm)	Pitch (mm)
021775	234-8120	3	0.50
017747	234-8200	4	0.70
020235	234-8282	5	0.80
013084	234-8326	6	1.00
018911	234-8602	10	1.50
025193	234-8764	12	1.75
029696	234-8880	14	2.00
025209	234-8960	16	2.00
036359	234-9126	20	2.50
040790	234-9322	24	3.00

ISO METRIC FINE

Part Number	P&N Reference Number	Size (mm)	Pitch (mm)
025216	234-8568	10	1.25
040806	234-8728	12	1.50
040752	234-8844	14	1.50
087788	234-8924	16	1.50
050881	234-9000	18	1.50
036366	234-9082	20	1.50

ADJUSTABLE BUTTON DIES

CHROME STEEL

- Manufactured from high quality Chromium Tool Steel
- 60° Thread Form
- Quality threads and size accuracy are assured by the use of precision ground thread master taps to produce the threads.
- All cutting faces are ground after heat treatment to give high performance and quality threads.
- QC techniques ensure an balanced cutting action accurately threaded components.
- Button die are adjustable tools in that the thread size can be altered within narrow limits.
- Guides are available for use with 1.1/2" and 2" outside diameter button dies.
- When ordering specify the size, thread type and outside diameter of the die.



ISO METRIC COARSE

Part Number	P&N Reference Number	Size	Outside Diameter	Thread Per Inch
011813	262-5853	12	2	1.75
040905	262-5880	14	2	2.00
006505	262-5906	16	2	2.00
012414	262-5942	20	2	2.50
016498	262-5988	24	2	3.00

ISO METRIC FINE

Part Number	P&N Reference Number	Size	Outside Diameter	Thread Per Inch
023410	261-0708	8	1	1.00
020280	261-0744	10	1	1.25
025247	261-0771	12	1	1.25
027173	261-0780	12	1	1.50
036472	262-5844	12	2	1.50
081380	262-5862	14	2	1.25
023434	262-5871	14	2	1.50
013701	262-5899	16	2	1.50
020303	262-5915	18	2	1.50
020310	262-5933	20	2	1.50

UNC

Part Number	P&N Reference Number	Size	Outside Diameter	Thread Per Inch
025278	260-9148	12	1	24
021836	260-9157	1/4	1	20
016511	260-9166	5/16	1	18
018980	260-9175	3/8	1	16
020327	260-9184	7/16	1	14
023441	260-9193	1/2	1	13
018997	262-3744	1/2	2	13
036489	262-3753	9/16	2	12
019000	262-3762	5/8	2	11
019017	262-3771	3/4	2	10
027210	262-3780	7/8	2	9
025308	262-3799	1	2	8

UNF

Part Number	P&N Reference Number	Size	Outside Diameter	Thread Per Inch
021843	260-9648	10	1	32
014623	260-9666	1/4	1	28
010359	260-9675	5/16	1	24
016528	260-9684	3/8	1	24
014630	260-9693	7/16	1	20
019024	261-6580	7/16	1.1/2	20
021850	260-9700	1/2	1	20
017792	262-4259	1/2	2	20
025322	262-4268	9/16	2	18
006512	262-4286	3/4	2	16
013725	262-4295	7/8	2	14
014654	262-4302	1	2	12

NPT

Part Number	P&N Reference Number	Size	Outside Diameter	Thread Per Inch
021935	262-8422	1/8	2	27
016566	262-8431	1/4	2	18
023502	262-8440	3/8	2	18
029856	262-8459	1/2	2	14
029863	262-8468	3/4	2	14
419961	262-8477	1	2	11.1/2

ADJUSTMENT PROCEDURES FOR P&N/SUTTON BUTTONS DIES

To mount the die in the dieholder, the side screws are rotated anti-clockwise until the die can be inserted into the holder, with the Vee in the die locating on the centre screw. The side screws are then tightened on to the die until "finger tight", the screws entering the dimple holes adjacent to the Vee slot. The die is now retained in the holder.

The centre screw is now tightened down into the Vee slot and the side screws nipped tight with a screw driver. The die will now cut to its nominal size.

To increase the cutting size:

1. Release the tension on the side screws
2. Screw the centre screw in, say one turn
3. Re-tension the side screws

The die will now cut a *large* size

To reduce the cutting size:

1. Release the tension on the side screws
2. Unscrew the centre screw, say one turn
3. Re-tension the side screws

The die will now cut a *smaller* size

BUTTON DIE HOLDERS

- Both the 1.1/2" and 2" dieholder can be fitted with guides
- The guide ensures accurate alignment when cutting the thread
- Guides are available separately



Part Number	P&N Reference Number	Die Holder Size	Cutting Size of Dies Inches
829656	300-7122	1	1/8 to 1/2
005027	300-7202	1.1/2	1/4 to 5/8
007892	300-7186	2	1/2 to 1

HEX DIE NUTS

CHROME STEEL

- Chromium tool steel
- 60° Thread Form
- The hexagonal shap die nut is used with a spanner or wrench for repairing external threads that have been damaged
- They are not recommended for cutting an original thread



UNC

Part Number	P&N Reference Number	Size	Threads per Inch
025414	265-7173	1/4	20
016597	265-7182	5/16	18
013770	265-7191	3/8	16
014692	265-7208	7/16	14
013138	265-7217	1/2	13
027289	265-7226	9/16	12
023540	265-7235	5/8	11
027296	265-7244	3/4	10
025421	265-7253	7/8	9
027302	265-7262	1	8
419978	265-7271	1.1/8	7
419985	265-7280	1.1/4	7
419992	265-7306	1.1/2	6

UNF

Part Number	P&N Reference Number	Size	Threads per Inch
016603	265-8197	1/4	28
012445	265-8204	5/16	24
011356	265-8213	3/8	24
011363	265-8222	7/16	20
011875	265-8231	1/2	20
020389	265-8240	9/16	18
010779	265-8259	5/8	18
010786	265-8268	3/4	16
021966	265-8277	7/8	14
015538	265-8286	1	12
032757	265-8295	1.1/8	12
023557	265-8302	1.1/4	12
041117	265-8230	1.1/2	12

UNS

Part Number	P&N Reference Number	Size	Threads per Inch
019093	265-8400	1	14

HEX DIE NUTS (CONT)

ISO METRIC COARSE

Part Number	P&N Reference Number	Size	Threads per Inch
017815	266-0682	5	0.80
011851	266-0691	6	1.00
009988	266-0726	8	1.25
023526	266-0762	10	1.50
010762	266-0806	12	1.75
013756	266-0851	16	2.00
021942	266-0697	20	2.50
023533	266-0913	24	3.00
020372	266-0931	30	3.50
041100	266-0959	36	4.00

ISO METRIC FINE

Part Number	P&N Reference Number	Size	Threads per Inch
029894	266-0717	8	1.00
025407	266-0744	10	1.00
015521	266-0753	10	1.25
013763	266-0780	12	1.25
011868	266-0799	12	1.50
021959	266-0824	14	1.50
029887	266-0833	14	2.00
029900	266-0842	16	1.50
029917	266-0860	18	1.50
027272	266-0888	20	1.50

TAP/BUTTON/DIE SET

- P&N/Sutton tap and button die sets are made to internationally recognized standards maintaining a degree of dimensional accuracy
- A wide range of sets are available to meet the needs of industrial and automotive, tradesmen and the home handyman
- Stored in metal cases

UNC

Part Number	P&N Reference Number	Set Number	Die Diameter (Inches)	Tap Wrench Number	Description	Die Guides Supplied (As Marked)
<i>Set includes Intermediate Tap and Button Die for Each Size:</i>						
419527	300-0013	TD0	1	0	1/4, 5/16, 3/8, 7/16, 1/2	
<i>Set includes Taper and Bottoming Tap and Button Die for Each Size:</i>						
027388	300-0915	TD5	1 & 2	6	1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4	*
036632	300-0979	TD8	1 & 2	0 & 7	1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 3/4, 7/8, 1	*

UNF

Part Number	P&N Reference Number	Set Number	Die Diameter (Inches)	Tap Wrench Number	Description	Die Guides Supplied (As Marked)
<i>Set includes Taper and Bottoming Tap and Button Die for Each Size:</i>						
051260	300-0871	TD8	1 & 2	0 & 7	1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 3/4, 7/8, 1	*

METRIC (ISO COARSE)

Part Number	P&N Reference Number	Set Number	Die Diameter (Inches)	Tap Wrench Number	Description	Die Guides Supplied (As Marked)
<i>Set Includes Taper and Bottoming Tap and Button Die for Each Size:</i>						
419558	300-1019	TD10	1	00	2, 2.5, 3, 3.5, 4, 4.5, 5mm	
027371	300-1055	TD12	1 & 2	0 & 7	6, 8, 10, 12, 14, 16, 18, 20, 22, 24mm	*
419565	300-1073	TD13	1	00 & 0	2, 2.5, 3, 3.5, 4, 4.5, 5, 6, 7, 8, 9, 10, 11, 12mm	
<i>Set Includes Intermediate Tap and Button Die for Each Size:</i>						
419534	300-0540	TD14	1	0	6x1.0, 8x1.25, 10x1.25, 10x1.5, 12x1.75mm ISO FINE	

UNC & UNF COMBINATION

Part Number	P&N Reference Number	Set Number	Die Diameter (Inches)	Tap Wrench Number	Description	Die Guides Supplied (As Marked)
<i>Set Includes Taper and Bottoming Tap and Button Die for Each Size in Both UNC and UNF:</i>						
019123	300-1233	CTD8	1 & 2	6	1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 3/4	

ISO METRIC COARSE AND FINE COMBINATION

Part Number	P&N Reference Number	Set Number	Die Diameter (Inches)	Tap Wrench Number	Description	Die Guides Supplied (As Marked)
<i>Set Includes Taper and Bottoming Tap and Button Die for Each Size in Both ISO Coarse and UNF:</i>						
027395	300-1242	CTD9	1 & 2	6	ISO Coarse 6, 7, 8, 10, 12, 14, 16, 18, ISO Fine 8, 10, 12, 14, 16, 18, 14 x 1.25 Intermediate Tap Only	

ISO METRIC COARSE AND UNF COMBINATION

Part Number	P&N Reference Number	Set Number	Die Diameter (Inches)	Tap Wrench Number	Description	Die Guides Supplied (As Marked)
<i>Set Includes Taper and Bottoming Tap and Button Die for Each Size in Both ISO Metric Coarse and UNF:</i>						
419596	300-1251	CTD10	1	5	Intermediate Tap Only UNF 1/4, 5/16, 3/8, 7/16, 1/2 Metric Coarse 6, 7, 8, 10, 12	

SCREW EXTRACTORS

- Screw extractors are used for extracting screws, bolts and pipe.
- To remove a broken screw or stud, drill the recommended size hole in the broken end
- Use a tap wrench or spanner, turn the extractor in an anti-clockwise direction.
- The extractor does not have to be hammered in because it takes a quick and positive grip, "feeds" itself into the hole and should "start" the most stubbornly imbedded part and turn it out on its own threads, leaving the original thread in the hole undamaged.
- A Screw extractor should not be used to remove a screw having a left hand thread, a broken press-fitted stud (interface fit), a broken tap, or a badly rusted screw.
- Unusual conditions will require the use of other sizes of drills and extractors, depending on the length of broken section, and it's depth in the hole.



Part Number	Extractor Number	For Screws & Bolts (in.)	For Pipe Sizes (in.)	Size Drill to Use (in.)	Length Overall (in.)	Dia. at Small End	Dia. at Large End	Sale Torque Lead (LBS/FT)
250-0015	1	5/32-3/16		5/64	2.1/8	.050	.159	12
250-0024	2	7/32-1/4		5/64	2.7/16	.080	.205	24
250-0033	3	5/32		5/32	2.13/16	.125	.265	54
250-0042	4	3/8-1/2		7/32	3.1/16	.185	.341	60
250-0051	5	9/16-3/4	1/8-1/4	19/64	3.11/16	.262	.495	75
250-0060	6	7/8-1	3/8	27/64	3.15/16	.390	.609	105
250-0079	7	1-1.1/2	1/2	17/32	4.1/4	.500	.742	134
250-0088	8	1.3/8-1.3/4	3/4	13/16	4.3/8	.750	1.000	200

SCREW EXTRACTOR / DRILL SET



Part Number	Set Number	Extractor Numbers	Package
250-0506	15A	1 thru 6 (not shown)	Plastic Case
250-0551	20	1 thru 5 plus recommended size stub drills	Metal Case

HAND TAPS

GROUND THREAD HIGH SPEED STEEL

- P&N/Sutton Ground Thread Hand Taps have straight flutes and are suitable for both hand and machine operation in materials where the chips break up readily and present no disposal problems.
- 60° Thread Form
- T = Taper I = Intermediate B = Bottoming



UNC

Part Number	P&N Reference Number	Size	Threads Per Inch.	Shank Dia.	Length (In.) Thread	Length (In.) Overall	No. of Flutes	Suggested Tapping Drill Sz	Type
011417	530-4668	No.6	32	0.141	11/16	2	3	7/64	T
007328	530-4677	No.6	32	0.141	11/16	2	3	7/64	I
008547	530-4686	No.6	32	0.141	11/16	2	3	7/64	B
012582	530-4819	No.8	32	0.168	3/4	2.1/8	3	1/8	T
014814	530-4828	No.8	32	0.168	3/4	2.1/8	3	1/8	I
013282	530-4837	No.8	32	0.168	3/4	2.1/8	3	1/8	B
015729	530-5020	No.10	24	0.194	7/8	2.3/8	3	5/32	T
009230	530-5039	No.10	24	0.194	7/8	2.3/8	3	5/32	I
008325	530-5048	No.10	24	0.194	7/8	2.3/8	3	5/32	B
028019	530-5173	No.12	24	0.220	15/16	2.3/8	3	11/64	T
025889	530-5182	No.12	24	0.220	15/16	2.3/8	3	11/64	I
033860	530-5191	No.12	24	0.220	15/16	2.3/8	3	11/64	B
005362	530-5388	1/4	20	0.255	1	2.1/2	4	13/64	T
005904	530-5397	1/4	20	0.255	1	2.1/2	4	13/64	I
002897	530-5404	1/4	20	0.255	1	2.1/2	4	13/64	B
006833	530-5566	5/16	18	0.318	1.1/8	2.23/32	4	17/64	T
004266	530-5575	5/16	18	0.318	1.1/8	2.23/32	4	17/64	I
005379	530-5584	5/16	18	0.318	1.1/8	2.23/32	4	17/64	B
004648	530-5771	3/8	16	0.381	1.1/4	2.15/16	4	5/16	T
006116	530-5780	3/8	16	0.381	1.1/4	2.15/16	4	5/16	I
004358	530-5799	3/8	16	0.381	1.1/4	2.15/16	4	5/16	B
015736	530-5986	7/16	14	0.323	1.7/16	3.5/32	4	3/8	T
008851	530-5995	7/16	14	0.323	1.7/16	3.5/32	4	3/8	I
006550	530-6008	7/16	14	0.323	1.7/16	3.5/32	4	3/8	B
008332	530-6197	1/2	13	0.367	1.21/32	3.3/8	4	27/64	T
007335	530-6204	1/2	13	0.367	1.21/32	3.3/8	4	27/64	I
005911	530-6213	1/2	13	0.367	1.21/32	3.3/8	4	27/64	B
024028	530-6400	9/16	12	0.429	1.21/32	3.19/32	4	31/64	T
025896	530-6419	9/16	12	0.429	1.21/32	3.19/32	4	31/64	I
019437	530-6428	9/16	12	0.429	1.21/32	3.19/32	4	31/64	B
013961	530-6615	5/8	11	0.480	1.13/16	3.13/16	4	35/64	T
006123	530-6624	5/8	11	0.480	1.13/16	3.13/16	4	35/64	I
010458	530-6633	5/8	11	0.480	1.13/16	3.13/16	4	35/64	B
010069	530-6857	3/4	10	0.590	2	4.1/4	4	21/32	T
008349	530-6866	3/4	10	0.590	2	4.1/4	4	21/32	I
009667	530-6875	3/4	10	0.590	2	4.1/4	4	21/32	B
018065	530-7068	7/8	9	0.697	2.7/32	4.11/16	4	49/64	T
014821	530-7077	7/8	9	0.697	2.7/32	4.11/16	4	49/64	I
012599	530-7086	7/8	9	0.697	2.7/32	4.11/16	4	49/64	B
013978	530-7246	1	8	0.800	2.1/2	5.1/8	4	7/8	T
018072	530-7255	1	8	0.800	2.1/2	5.1/8	4	7/8	I
013985	530-7264	1	8	0.800	2.1/2	5.1/8	4	7/8	B
022314	530-7310	1.1/8	7	0.896	2.9/16	5.7/16	4	63/64	T
018089	530-7320	1.1/8	7	0.896	2.9/16	5.7/16	4	63/64	I
024035	530-7320	1.1/8	7	0.896	2.9/16	5.7/16	4	63/64	B
033891	530-7666	1.1/4	7	1.021	2.9/16	5.3/4	4	1.7/64	T
024042	530-7675	1.1/4	7	1.021	2.9/16	5.3/4	4	1.7/64	I
028026	530-7684	1.1/4	7	1.021	2.9/16	5.3/4	4	1.7/64	B

HAND TAPS (CONT)

UNF

Part Number	P&N Reference Number	Size	Threads Per Inch.	Shank Dia.	Length (In.)		No. of Flutes	Suggested Tapping Drill Size	Type
					Thread	Overall			
010892	531-0068	10	32	0.194	7/8	2.1/8	3	5/32	T
007922	531-0077	10	32	0.194	7/8	2.3/8	3	5/32	I
008356	531-0086	10	32	0.194	7/8	2.3/8	3	5/32	B
006840	531-0362	1/4	28	0.255	1	2.1/2	4	7/32	T
004907	531-0371	1/4	28	0.255	1	2.1/2	4	7/32	I
004723	531-0380	1/4	28	0.255	1	2.1/2	4	7/32	B
007588	531-0513	5/16	24	0.318	1.1/8	2.23/32	4	6.9mm	T
004273	531-0522	5/16	24	0.318	1.1/8	2.23/32	4	6.9mm	I
004914	531-0531	5/16	24	0.318	1.1/8	2.23/32	4	6.9mm	B
005751	531-0666	3/8	24	0.381	1.1/4	2.15/16	4	8.5mm	T
005386	531-0675	3/8	24	0.381	1.1/4	2.15/16	4	8.5mm	I
003764	531-0684	3/8	24	0.381	1.1/4	2.15/16	4	8.5mm	B
009247	531-0871	7/16	20	0.323	1.7/16	3.5/32	4	25/64	T
006567	531-0880	7/16	20	0.323	1.7/16	3.5/32	4	25/64	I
003313	531-0899	7/16	20	0.323	1.7/16	3.5/32	4	25/64	B
008868	531-1064	1/2	20	0.367	1.21/32	3.3/8	4	29/64	T
005249	531-1073	1/2	20	0.367	1.21/32	3.3/8	4	29/64	I
006857	531-1082	1/2	20	0.367	1.21/32	3.3/8	4	29/64	B
010076	531-1215	9/16	18	0.429	1.21/32	3.19/32	4	33/64	T
012612	531-1224	9/16	18	0.429	1.21/32	3.19/32	4	33/64	I
007595	531-1233	9/16	18	0.429	1.21/32	3.19/32	4	33/64	B
010083	531-1395	5/8	18	0.480	1.13/16	3.13/16	4	37/64	T
007069	531-1402	5/8	18	0.480	1.13/16	3.13/16	4	37/64	I
006130	531-1411	5/8	18	0.480	1.13/16	3.13/16	4	37/64	B
008875	531-1573	3/4	16	0.590	2	4.1/4	4	11/16	T
007076	531-1582	3/4	16	0.590	2	4.1/4	4	11/16	I
007601	531-1591	3/4	16	0.590	2	4.1/4	4	11/16	B
011950	531-1751	7/8	14	0.697	2.7/32	4.11/16	4	13/16	T
010465	531-1760	7/8	14	0.697	2.7/32	4.11/16	4	13/16	I
009674	531-1779	7/8	14	0.697	2.7/32	4.11/16	4	13/16	B
020808	531-1902	1	12	0.800	2.1/2	5.1/8	4	59/64	T
014838	531-1911	1	12	0.800	2.1/2	5.1/8	4	59/64	I
018096	531-1920	1	12	0.800	2.1/2	5.1/8	4	59/64	B

UNS

Part Number	P&N Reference Number	Size	Threads Per Inch.	Shank Dia.	Length (In.)		No. of Flutes	Suggested Tapping Drill Size	Type
					Thread	Overall			
024066	531-4366	1	14	0.800	2.1/2	5.1/8	4	15/16	T
015743	531-4375	1	14	0.800	2.1/2	5.1/8	4	15/16	I
014845	531-4384	1	14	0.800	2.1/2	5.1/8	4	15/16	B

NPT (TAPER PIPE)

• Bottoming Tap Only

Part Number	P&N Reference Number	Size	Threads Per mm.	Shank Dia.	Length (mm)		No. of Flutes	Suggested Tapping Drill Size	Type
					Thread	Overall			
006871	535-1222	1/8	27	0.437	3/4	2.1/8	4	11/32	B
007649	535-1231	1/4	18	0.562	1.1/16	2.7/16	4	7/16	B
009728	535-1240	3/8	18	0.700	1.1/16	2.9/16	4	9/16	B
008905	535-1259	1/2	14	0.687	1.3/8	3.1/8	4	45/64	B
011462	535-1268	3/4	14	0.906	1.3/4	3.1/4	4	29/32	B
012001	535-1277	1	11.1/2	1.125	1.3/4	3.1/4	4	1.9/64	B

ISO METRIC COARSE

Part Number	P&N Reference Number	Size	Threads Per mm.	Shank Dia.	Length (mm)		No. of Flutes	Suggested Tapping Drill Size	Type
					Thread	Overall			
003467	531-5488	3	0.5	3.15	18	48	3	2.5	T
002989	531-5497	3	0.5	3.15	18	48	3	2.5	I
002996	531-5504	3	0.5	3.15	18	48	3	2.5	B
001890	531-5817	4	0.7	4	21	53	4	3.30	T
001586	531-2826	4	0.7	4	21	53	4	3.30	I
001968	531-5835	4	0.7	4	21	53	4	3.30	B
001630	531-6171	5	0.8	5	25	58	4	4.20	T
001173	531-6180	5	0.8	5	25	58	4	4.20	I
001005	531-6199	5	0.8	5	25	58	4	4.20	B
000848	531-6297	6	1	6.3	30	66	4	5.00	T
000794	531-6304	6	1	6.3	30	66	4	5.00	I
000824	531-6313	6	1	6.3	30	66	4	5.00	B
001319	531-6537	8	1.25	8	35	72	4	6.80	T
001098	531-6546	8	1.25	8	35	72	4	6.80	I
000923	531-6555	8	1.25	8	35	72	4	6.80	B
001593	531-6779	10	1.5	10	39	80	4	8.50	T
001722	531-6788	10	1.5	10	39	80	4	8.50	I
001425	531-6797	10	1.5	10	39	80	4	8.50	B
002521	531-7015	12	1.75	9	29	89	4	10.20	T
002323	531-7024	12	1.75	9	29	89	4	10.20	I
002781	531-7033	12	1.75	9	29	89	4	10.20	B
010403	531-7131	14	2	11.2	30	95	4	12.00	T
009643	531-7140	14	2	11.2	30	95	4	12.00	I
010410	531-7159	14	2	11.2	30	95	4	12.00	B
003474	531-7257	16	2	12.5	32	102	4	14.00	T
003757	531-7266	16	2	12.5	32	102	4	14.00	I
003344	531-7275	16	2	12.5	32	102	4	14.00	B
018027	531-7373	18	2.5	14	37	112	4	15.50	T
020754	531-7382	18	2.5	14	37	112	4	15.50	I
030869	531-7391	18	2.5	14	37	112	4	15.50	B
006383	531-7499	20	2.5	14	37	112	4	17.50	T
004518	531-7506	20	2.5	14	37	112	4	17.50	I
006390	531-7515	20	2.5	14	37	112	4	17.50	B
010854	531-7739	24	3	18	45	130	4	21.00	T
009216	531-7748	24	3	18	45	130	4	21.00	I
009223	531-7757	24	3	18	45	130	4	21.00	B
010052	531-7793	30	3.5	20	48	138	4	26.50	T
011936	531-7802	30	3.5	20	48	138	4	26.50	I
011943	531-7811	30	3.5	20	48	138	4	26.50	B
018041	531-7847	36	4	25	57	162	4	32.00	T
014791	531-7856	36	4	25	57	162	4	32.00	I
016818	531-7865	36	4	25	57	162	4	32.00	B

HAND TAPS (CONT)

ISO METRIC FINE

Part Number	P&N Reference Number	Size	Threads Per mm.	Shank Dia.	Length (mm)		No. of Flutes	Suggested Tapping Drill Size	Type
					Thread	Overall			
016825	532-1262	8	1	8	22	72	4	7.00	T
012568	532-1271	8	1	8	22	72	4	7.00	I
013275	532-1280	8	1	8	22	72	4	7.00	B
007311	532-1673	10	1.25	10	24	80	4	8.80	T
003351	532-1682	10	1.25	10	24	80	4	8.80	I
005058	532-1691	10	1.25	10	24	80	4	8.80	B
013923	532-2124	12	1.5	9	29	89	4	10.5	T
006406	532-2133	12	1.5	9	29	89	4	10.5	I
010427	532-2142	12	1.5	9	29	89	4	10.5	B
010885	532-2339	14	1.5	11.2	30	95	4	12.5	T
012575	532-2348	14	1.5	11.2	30	95	4	12.5	I
008837	532-2357	14	1.5	11.2	30	95	4	12.5	B
013930	532-2473	16	1.5	12.5	32	102	4	14.5	T
010434	532-2482	16	1.5	12.5	32	102	4	14.5	I
008844	532-2491	16	1.5	12.5	32	102	4	14.5	B
027999	532-2839	18	1.5	14	37	112	4	16.5	T
016832	532-2848	18	1.5	14	37	112	4	16.5	I
016849	532-2857	18	1.5	14	37	112	4	16.5	B
011400	532-3102	20	1.5	14	37	112	4	18.5	T
009650	532-3111	20	1.5	14	37	112	4	18.5	I
010441	532-3120	20	1.5	14	37	112	4	18.5	B
025865	532-3228	22	1.5	16	38	118	4	20.5	T
019420	532-3237	22	1.5	16	38	118	4	20.5	I
015705	532-3246	22	1.5	16	38	118	4	20.5	B
030906	532-3255	24	2	18	45	130	4	22.0	T
022284	532-3264	24	2	18	45	130	4	22.0	I
023960	532-3273	24	2	18	45	130	4	22.0	B

ISO METRIC SPARK PLUG

Part Number	P&N Reference Number	Size	Threads Per mm.	Shank Dia.	Length (mm)		No. of Flutes	Suggested Tapping Drill Size	Type
					Thread	Overall			
025872	533-4940	10	1	10	24	80	4	9	T
018058	533-4959	10	1	10	24	80	4	9	I
013947	533-4968	10	1	10	24	80	4	9	B
014807	533-4977	12	1.25	9	29	89	4	10.8	T
010861	533-4986	12	1.25	9	29	89	4	10.8	I
010878	533-4995	12	1.25	9	29	89	4	10.8	B
020778	533-5008	14	1.25	11.2	30	95	4	12.8	T
013954	533-5017	14	1.25	11.2	30	95	4	12.8	I
023977	533-5026	14	1.25	11.2	30	95	4	12.8	B

HAND TAP SETS

GROUND THREAD HIGH SPEED STEEL

- Chromium tool steel taps are available in set of three which include: a taper, intermediate and bottoming tap
- The taps are supplied in a plastic case that protects the threads from damage



UNC

Part Number	P&N Reference Number	Size	Pitch
014067	533-9119	1/4	20
010939	533-9128	5/16	18
010496	533-9137	3/8	16
020983	533-9146	7/16	14
014074	533-9155	1/2	13

ISO METRIC COARSE

Part Number	P&N Reference Number	Size	Pitch
008912	533-7368	3	0.50
005584	533-7475	4	0.70
005393	533-7493	5	0.80
004440	533-7500	6	1.00
005409	533-7537	8	1.25
006581	533-7573	10	1.50
038445	533-7671	18	2.50
031156	533-7699	24	3.00

ISO METRIC FINE

Part Number	P&N Reference Number	Size	Pitch
044347	533-7644	24	2.00

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Product Code	Page								
000794	12	005027	9	007922	12	010861	13	013930	13
000824	12	005058	13	008066	3	010878	13	013947	13
000848	12	005249	12	008073	3	010885	13	013954	13
000923	12	005294	3	008189	6	010892	12	013961	11
001005	12	005362	11	008196	6	010939	13	013978	11
001098	12	005379	11	008325	11	011127	3	013985	11
001173	12	005386	12	008332	11	011271	6	014067	13
001319	12	005393	13	008349	11	011288	6	014074	13
001425	12	005409	13	008356	12	011356	9	014531	6
001449	3	005447	3	008547	11	011363	9	014548	6
001586	12	005454	3	008837	13	011400	13	014555	4
001593	12	005461	3	008844	13	011417	11	014562	4
001609	3	005522	4	008851	11	011462	12	014579	4
001630	12	005584	13	008868	12	011615	3	014623	8
001722	12	005751	12	008875	12	011752	4	014630	8
001883	2	005836	3	008905	12	011769	4	014654	8
001890	12	005843	3	008912	13	011813	8	014692	9
001968	12	005904	11	009124	8	011851	10	014791	12
002316	3	005911	11	009216	12	011868	10	014807	13
002323	12	006024	3	009223	12	011875	9	014814	11
002422	3	006048	2	009230	11	011936	12	014821	11
002453	2	006116	11	009247	12	011943	12	014838	12
002521	12	006123	11	009421	3	011950	12	014845	12
002682	2	006130	12	009438	3	012001	12	015385	6
002774	3	006284	3	009445	3	012261	3	015392	6
002781	12	006291	3	009599	4	012278	3	015408	6
002897	11	006383	12	009605	4	012360	6	015415	6
002989	12	006390	12	009643	12	012377	5	015422	5
002996	12	006406	13	009650	13	012414	8	015439	5
003122	3	006499	3	009667	11	012445	9	015446	5
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003344	12	006550	11	009988	10	012582	11	015705	13
003351	13	006567	12	010052	12	012599	11	015729	11
003412	3	006581	13	010069	11	012612	12	015736	11
003467	12	006772	2	010076	12	013060	5	015743	12
003474	12	006833	11	010083	12	013084	7	016061	3
003757	12	006840	12	010229	3	013138	9	016351	6
003764	12	006857	12	010359	8	013275	13	016368	6
004150	3	006871	12	010403	12	013282	11	016399	5
004266	11	007069	12	010410	12	013442	3	016405	5
004273	12	007076	12	010427	13	013459	3	016412	5
004310	3	007212	3	010434	13	013626	6	016429	5
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ISO Metric Coarse and UNF Combination	10	300	(P&N Reference Number)
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• TERMS AND CONDITIONS OF SALE •

The following terms and conditions, including the Return Policy, are applicable to all Docap product lines.

PAYMENT TERMS

Subject to the provisions of CREDIT APPROVAL, terms are Net 30 days upon issuance of invoice; past due thereafter and payable in Canadian funds

FREIGHT POLICY

F.O.B Docap locations

Freight will be prepaid on orders of \$750.00 or more on net invoice value, however, the following exceptions will apply:

Prepaid Freight will NOT apply to the following product:

- Warn Products
- Bolt Bins
- Drum quantity of Spray Nine Product

Prepaid requirements for Threaded Rod orders will be a minimum \$2000.00

Prepaid requirements for Spray Nine orders will be a minimum of \$1000.00

CANCELLATION

Standard orders for stocked items may be cancelled without charge if communicated to Docap in time to stop the shipment.

Special orders may NOT be cancelled.

BACKORDERS

Backorders will be shipped twice a month, or with next customer order, whichever comes first, however the minimum invoice of the backorder must exceed Docap's minimum invoice amount of \$40.00.

DISCLAIMER

Not all geographical areas of Canada are covered by the above freight policy; please contact your nearest Docap office listed below for confirmation of these terms and conditions. Docap may add to, change or remove any part of these Terms and Conditions of Sale at any time, without notice.

• TERMES ET CONDITIONS DE VENTE •

Les termes et conditions de vente suivants, incluant la politique de retour, s'appliquent sur tous les produits Docap.

TERMES DE PAIEMENT

Sujet aux conditions de l'approbation de crédit, le terme est de « Net 30 jours » à partir de la date de facturation, considéré comme en souffrance passé ce délai et payable en fonds canadiens.

POLITIQUE DE TRANSPORT

F.A.B. succursale Docap.

Le transport sera prépayé sur toute commande excédant \$750.00 net sur la facture avant taxes. Toutefois, les exceptions suivantes s'appliquent :

- Produits Warn
- Ensembles de boulons
- Produits Spray Nine en vrac

Le transport prépayé pour les tiges filetées sera de \$2,000.00 minimum.

Le transport prépayé pour le produit Spray Nine sera de \$1,000.00 minimum.

CANCELLATION

Les commandes régulières pour les items en inventaire peuvent être annulées sans frais en communiquant avec Docap avant l'envoi de celle-ci.

Les commandes spéciales ne peuvent être annulées.

RUPTURE DE MARCHANDISE

Les commandes en rupture de marchandise seront envoyées 2 fois par mois ou avec la prochaine commande du client, selon la circonstance par contre la facture doit excéder le montant minimum de commande de Docap de \$40.00.

EXCEPTION

Certaines exceptions s'appliquent selon votre région concernant les frais de transport, veuillez contacter le bureau de Docap le plus près, aux endroits mentionnés ci-dessous pour la confirmation de ces termes et conditions. Docap peut ajouter, changer ou enlever une de ces conditions de ventes à n'importe quel moment, sans aucun avertissement.

• RETURN POLICY •

All returns must be authorized by a Docap Customer Service Representative. Product may only be sent back after getting a pre-authorized Return Goods Authorization (RGA) number. For an RGA number please contact your nearest Docap branch listed below.

Docap will accept product, returned for Credit, once in a calendar year, to a maximum of 5% of previous year's sales, per product line.

Product must be returned to Docap within 14 calendar days of the issuance of the RGA. All products must be returned with Docap issued RGA number, packing slip/invoice and packed in the original packaging including any accessories, manuals, documentation, and registration that shipped with the product.

Returned product must not be installed or altered and must be in its original packaging, in saleable condition. Products that are special order, custom built, not listed or identified as discontinued products are non-returnable. The Purchaser is responsible for shipping product, prepaid, back to our location. Docap recommends that you use a carrier that offers shipment tracking for all returns and either insure your package for safe return to Docap or declare the full value of the shipment so that you are completely protected if the shipment is lost or damaged in transit.

AUTHORIZED RETURNS

Authorized returns may be subject to a 25% restocking charge. Any costs in excess of 25% restocking charge incurred in placing the goods in saleable condition will be charged to the Purchaser by a corresponding deduction from the allowed credit.

Shipping charges will not be refunded.

UNAUTHORIZED RETURNS

Any unauthorized returns will NOT be accepted and will be sent to the Purchaser with shipping costs collect.

CLEARANCE SALES

Sales of items marked as "Clearance" or "Specials" are FINAL. There will be no returns or exchanges of those items.

DEFECTIVE PRODUCT

Product considered defective for credit return must be authorized by Docap. Docap in its discretion, along with its Vendors, will determine whether the returned defective products are in fact defective. All products that are deemed not defective, the Purchaser will be responsible for shipping costs of the product back to them.

• POLITIQUE DE RETOUR •

Tous les retours doivent être autorisés par un représentant du service à la clientèle de Docap. Tout produit ne peut être retourné qu'après avoir obtenu un numéro de pré-autorisation de retour de marchandise (RGA). Afin d'obtenir un numéro de pré-autorisation (RGA), veuillez contacter un représentant du service à la clientèle à la succursale Docap la plus près de chez-vous. Le produit retourné doit avoir été acheté dans les douze (12) derniers mois et représenter moins de cinq pourcent (5%) des achats de l'année par ligne de produit.

Le produit doit être retourné à Docap dans les quatorze (14) jours suivant l'émission du numéro de pré-autorisation. Tout produit retourné à Docap doit être accompagné du numéro de pré-autorisation, d'une copie de bon de livraison et/ou d'une copie de la facture originale, dans son emballage original incluant tout accessoire, manuels, documentation et enregistrement inclus à l'origine. Le produit retourné ne doit pas avoir été installé ou modifié et doit être dans son emballage original, en condition de revente.

Les items commandés spécialement, assemblés sur mesure, non listés ou identifiés comme discontinués sont non-retournables.

L'acheteur doit assumer l'expédition, port payé, vers la succursale Docap. Afin de sécuriser le retour, Docap recommande d'utiliser un transporteur qui offre le service de repérage et d'assurer le colis ou de mentionner une valeur déclarée pour tout retour. Ceci permettra de compenser en cas de perte ou dommages en cours de transit. Si vous choisissez d'utiliser un transporteur n'offrant pas ces services, vous devrez assumer les pertes ou dommages encourus durant l'expédition.

RETOURS AUTORISÉS

Les retours autorisés peuvent être sujets des frais de manutention de vingt-cinq pourcent (25%). Les coûts dépassant vingt-cinq pourcent (25%) occasionnés par la remise en état des items seront déduits du montant alloué au crédit. Les frais d'expédition ne seront pas remboursés.

RETOURS NON AUTORISÉS

Tout retour non autorisé sera refusé et retourné à l'expéditeur à ses frais.

VENTE DE LIQUIDATION

Toutes les ventes indiquées "Liquidation" ou "Spécial" sont FINALES. Il n'y aura ni retour ni échange sur ces items.

PRODUIT DÉFECTUEUX

Le retour d'un produit considéré comme défectueux doit être pré autorisé par Docap. Il sera à la discrétion de Docap, selon les directives du manufacturier de déterminer la défectuosité du produit. Pour les produits considérés comme non défectueux, le coût du transport de retour à l'expéditeur sera aux frais de celui-ci.

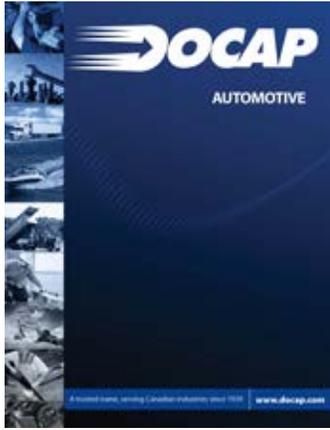
Our other quality products include...

- Heavy Duty Electrical Products
- L9 Fasteners
- Cleaners & Disinfectants
- Lubricants & Lubricant Equipment
- Winches & Accessories
- CV Axles & Joints
- Adhesives/Sealants/Threadlockers
- Universal Joints
- Aerosol Paint Products

Our suppliers



DOCAP PRODUCT LITERATURE



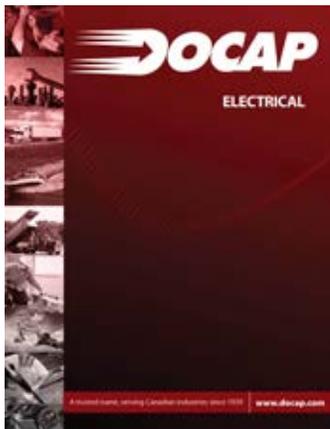
				Automotive
4 pc Sand Blasting Kit	Battery Terminals	Expansion Plugs	Manifolds Studs	Spray Guns
285 Pc Automotive Electrical Repair Kit	Block Heater Parts	E-Z Lok Repair Kit	Mechanic's Seat	Steel Battery Clamps
Air Accessories	Brake Line Adapters	E-Z Lok Thread Inserts	Metric Brake Lines	Steel Fuel Line Repairs
Auto & Marine Electrical Tool Kit	Brake Line Long Nuts	Flat Fender Washers	Metric Expansion (Frost) Plugs	Steel Tubing
Automotive Lightbulbs	Brake Lines	Fuel Line Hose	Metric O-Ring Splicing Kit	Terminal Protectors
Autotex Pink Wiper Blades	Car Fuses	Fuel Lines	Muffler Clamps	Testers
Battery Bolts	Circuit Testers	Fuel Sending Repair Lines	Nylon Quick Connect	Throttle Ball Joints
Battery Brush	Copper Tubing	Fuses	Nylon Repair Slice Line	Tire & Wheel Assemblies
Battery Cables	Creepers	Grease Fittings	Post and Terminal Cleaner	Transfer Pumps
Battery Carriers	Dash Controls	Grease Guns & Accessories	Pressure Gauges	Transmission Cooler Lines
Battery Clips	Driveway Signal Gong	Grommets	Protector Caps	Universal O-Rings
Battery Filler	Driveway Signal Hose	Hand Choke Adapter	Replacement Battery Trays	Valve Hardware
Battery Hold Down	Electric Fans	Hand Pump	Replacement Side Terminal Bolts	Wheel Wrenches
Battery Post Shims	Engine Stud Nuts	Hose Clamps	Rubber Fuel Line	
Battery Terminal Lifter	Engine Studs	License Plate Bolts	Side Terminal Battery Wrench	



		Brass Fittings
Air Brake Tubing		
Air Brake Nylon Tubing		
Compression Tube Fittings		
Drain Cocks		
Heavy Duty Multiple Shut-off Cocks		
Inverted Flare Tube Fittings		
Needle Valves		
Pipe Fittings		
S.A.E 45° Flare Fittings		
Shut-Off Cocks		

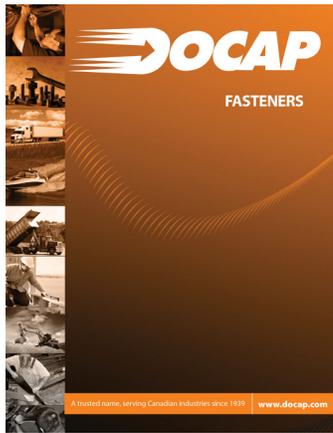


		Chain & Rigging
Aircraft Craft	Mild Link	
Anchor Shackles	Quick Links	
Clevis Grab Hooks - Gr. 43	Quick Pins	
Clevis Grab Hooks - Gr. 70	S Hook	
Clevis Slip Hooks	Safety Lanyard Hooks	
Cold Shuts	Safety Snap Hook	
Eye Grab Hooks - Gr. 43	Safety Winch Hooks	
Hitch Pins – Fold Over Handle	Shoulder Nut Eye Bolt	
Hitch Pins - Vinyl Handle	Snap Links	
Lap Repair Links	Turnbuckles – Light Duty	
Linch Pins	Wire Rope Clips – Malleable	
Load Binder	Wire Rope Thimbles	

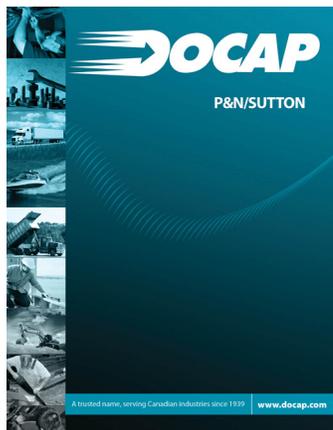


			Electrical
12V Mini Compressor	Digital Battery Load Tester		Heavy Duty Wire Stripper
285 pc Automotive Electrical Repair Kit	Digital Multi-meter		Nail Cable Clips
Auto & Marine Electrical Tool Kit	Dynacamp Lantern		Open & Close LED Sign
Automotive Lightbulbs	Electrical Fans		Primary Wire Cable Single Conductor
Block Heater Parts	Electrical Tapes		Rough Service Bulbs
Breakers	Extension Cords		Solderless Terminals
Cable Clamps	Flashers		Switches
Cable Lugs	Flashlights		Trouble Lights
Car Fuses	Fuse Box		Wire Nut Connectors
Circuit Testers	Fuses		Work Lights
Connectors	General Purpose Replacement Motors		
Crimper	Heat Shrinkable Tubing		

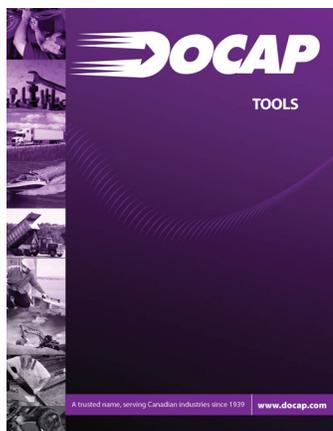
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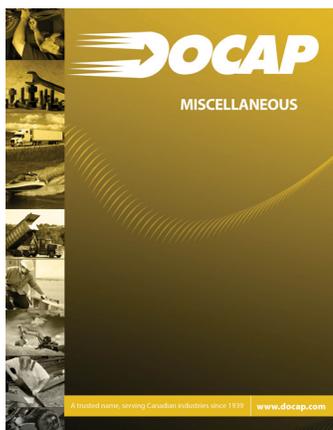
		Fasteners
Alloy Bar	L9 Hex Bolts Zinc Dichromate	Socket Pipe Plug
Clevis Pins	L9 Nuts and Washers	Socket Screw Keys
Clevis Yolks	Machine Screw Nut	Socket Set Screws
Corrugated Bin Boxes	Machine Screws	Spring Centre Bolts Without Nuts
Cotter Pins	Machinery Bushings	Spring Pins
Fastener Assortment Drawers	Metric Hexagon Head Cap Screws	Steel Woodruff Keys
Flat Head Socket Cap Screws	Metric Hexagon Nuts	Stove Bolts With Nuts
Heavy Duty Bolt Bins	Metric Socket Head Cap Screws	Stover® Automation Locknut Specifications
Heavy Duty Bolt Bins Labels	Metric Socket Screw Keys	Stover® Automation Locknuts
Hex Head Cap Screws	Metric Washers	Taper Pins
Hitch Pin Clips	Nuts	Threaded Rod
Key Stock	Sheet Metal Screw (Tapping)	Washers
L9® Design Features	Shimstock	Wood Screws
L9® Fastening System	Snap Rings	
L9® Fastening System to Solve Common Problems	Socket Head Cap Screws	



		P&N/Sutton
Adjustable Button Dies	Panel Drills	
Button Die Holders	Reduced Shank Drills	
Centre Drills	Screw Extractor/Drill Set	
Hand Taps (Chrome Steel)	Screw Extractors	
Hand Taps (Ground Thread High Speed Steel)	Stub Drills	
Hand Taps Set (Chrome Steel)	Tap Wrenches	
Hand Taps Set (Ground Thread High Speed Steel)	Tap/Button/Die Set	
Hex Die Nuts	Taper Shank Drills	
Jobber Drill		



					Tools
"C" Clamps	Burrs	Flashlights	Power Pullers	Testers	
4 Pc Sand Blasting Kit	Cable & Spring Wire Cutter	Funnel (Heavy Duty)	Retractable Knives	T-Handle Key Sets	
48" Lift – All Jack	Chalk Line Reel	Grease Gun & Accessories	Rivets	Tie Wire	
204 Pc Drill Set	Chisel Set	Hand Pump	Rivets Nuts	Ties	
285 Pc Automotive Electrical Repair Kit	Circuit Testers	Heavy Duty Wire Stripper	Saw	Transfer Pumps	
Auto & Marine Electrical Tool Kit	Cobalt Bi-Metal Blade	Hole Saw – High Speed Steel	Shears	Trigger Sprayer	
Axes	Creeper	Knife Sharpener	Shovels	Vacuum Cup	
Ball Pein Machinist's Hammers	Crimping Tool	Magnetic Tools	Side Terminal Battery Wrench	Vises	
Battery Brush	Cutters	Mallet	Sledge Hammer w/ Fibreglass Handle	Wrenches	
Battery Filler	Digital Caliper	Mechanic's Seat	Sledge/Club Hammers		
Battery Terminal Lifter	Digital Multi-Meter	Micrometer with Counter	Slide Hammer		
Bench Grinder	Drill Bits	One Touch Snow Brush	Speed Angle Driver		
Brass Jiggle Siphon	Drill Chucks	Pliers	Spray Gun		
Brushes	Engraver	Post and Terminal Cleaner	Tape Measures		



		Miscellaneous
Coveralls	Telescopic Tools	
Docap Tie Down	Ties	
Outdoor Kits	Tie Wire	
Rubber Tie Down	Tire and Wheel Assemblies	
Safes		
Safety Products		
Safety Vest		
Shimstock		
Tapes		



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