

# savage

a bordo business

# PERFORMANCE



**BUYER'S GUIDE 03/2015**

**CONDITIONS OF SALE**

1. **PRICES:** All prices quoted exclude GST and are subject to change without notice. Export shipments are not subject to GST. All prices quoted in Australian Dollars unless otherwise stated.
2. **FREIGHT TERMS:** Bordo International Pty Ltd ("Bordo") has no minimum invoice value. All orders over \$250 nett exclusive of GST are freight-free — prices are ex-warehouse. Bordo reserves the right to despatch freight-free orders by a carrier and method of its choosing. Freight-free orders are calculated on a \$250 nett exclusive of GST basis per order for each warehouse dispatch. Drop-shipments incur freight charges. Where the order is under \$250 nett exclusive of GST the customer is responsible for all costs associated with delivery. Any period for delivery of goods stated by Bordo is an estimate only and not a contractual commitment. Bordo will use its reasonable endeavours to meet any estimated dates for delivery of the goods but will not be liable for any loss or damage suffered by the customer or any third party for failure to meet an estimated date. The customer indemnifies Bordo against any loss or damage suffered by Bordo, its sub contractors or employees as a result of delivery, except where the customer is a "consumer" as defined in the Australian Consumer Schedule of the Competition and Consumer Act 2010 (Cth) as amended ("ACL") and Bordo has not used due care and skill.
3. **PAYMENT TERMS:** Unless otherwise agreed in writing payment for the goods or services must be made in full within 30 days from the end of the month of the date of Bordo's invoice. Bordo reserves the right to require payment in full on delivery of the goods. Payment by cheque is not deemed made until the proceeds of the cheque have cleared. Payment terms may be revoked or amended at Bordo's sole discretion immediately upon giving the customer written or verbal notice. The time for payment is of the essence.
4. **DAMAGE, DEFECTS AND LOSS IN TRANSIT:** Bordo will not be liable for any shortages or non compliance with the specifications in these Terms and Conditions unless the customer notifies Bordo with full details and description within 10 working days of delivery to the customer. Where any shortages, claim for damaged goods or non compliance with the agreement specifications is accepted by Bordo, Bordo may, at its option, repair or replace the goods or refund or credit the portion of the purchase price. Bordo will not under any circumstances accept goods for return that have been specifically produced, imported or acquired to fulfil the agreement, that are discontinued goods or no longer stocked by Bordo, that have been altered in any way, that have been used, or that are not in their original condition and packaging. If the customer is a consumer, nothing in this clause limits any remedy available for a failure of the statutory guarantees in the ACL.
5. **CREDIT INFORMATION:**
  - 5.1. Bordo may seek consumer credit information (section 18K(1)(b), Privacy Act 1988). If Bordo considers it relevant to assessing the customer's application for commercial credit. The customer agrees to Bordo obtaining from a credit reporting agency a credit report containing personal credit information about the customer and to conducting a search of the Personal Property Securities Register for the purpose of assessing the customer's application for commercial credit.
  - 5.2. Exchanging information with other credit providers (Section 18N(1)(b), Privacy Act 1988). The customer agrees to Bordo obtaining personal information about the customer from other credit providers whose names the customer may have provided for Bordo or that may be named in a credit report, and from the Personal Property Securities Register, for the purpose of assessing the customer's application for commercial credit.
  - 5.3. Agreement to a credit provider being given a consumer credit report to collect overdue payments on commercial credit (Section 18K(1)(h) Privacy Act 1988). The customer agrees that Bordo may obtain a consumer credit report about the customer from a credit reporting agency for the purpose of collecting overdue payments relating to commercial credit owed by the customer.
6. **RETENTION OF TITLE:**
  - 6.1. Until Bordo receives full payment in cleared funds for all goods supplied by it to the customer, as well as all other amounts owing to Bordo by the customer:
    - (a) title and property in all goods remains vested in Bordo and does not pass to the customer;
    - (b) the customer must hold the goods as fiduciary bailee and agent for Bordo;
    - (c) the customer must keep the goods separate from its own goods and maintain Bordo's labelling and packaging;
    - (d) the customer must hold the proceeds of sale of the goods on trust for Bordo in a separate account with a bank to whom the customer has not given security however failure to do so will not affect the customer's obligation as trustee;
    - (e) in addition to its rights under the Personal Property Securities Act 2009 (Cth) ("PPSA"), Bordo may without notice, enter any premises where it suspects the goods are and remove them, notwithstanding that they may have been attached to other goods not the property of Bordo, and for this purpose the customer irrevocably licences Bordo to enter such premises and also indemnifies Bordo from and against all costs, claims, demands or actions by any party arising from such action.
  - 6.2. The customer warrants that it is not at the time of placing an order for goods or services insolvent and knows of no circumstances which would entitle any creditor to appoint a receiver or to petition for winding up or to exercise any other rights over or against its assets.
  - 6.3. If any of these retention of title provisions are construed to be invalid or not enforceable in accordance with their terms all other provisions which are self-sustaining and capable of separate enforcement without regard to the invalid provisions shall be and continue to be valid and enforceable in accordance with their terms.
7. **PERSONAL PROPERTY SECURITIES ACT:**
  - 7.1. Notwithstanding anything to the contrary contained in these Terms and Conditions, the PPSA applies to these Terms and Conditions.
  - 7.2. For the purposes of the PPSA:
    - (a) terms used in this clause 7 that are defined in the PPSA have the same meaning as in the PPSA;
    - (b) these Terms and Conditions are a security agreement and Bordo has a Purchase Money Security Interest in all present and future goods supplied by Bordo to the customer and the proceeds of the goods;
    - (c) the security interest is a continuing interest irrespective of whether there are monies or obligation owing by the customer at any particular time; and
    - (d) the customer must do whatever is necessary in order to give a valid security interest over the goods and their proceeds which is able to be registered by Bordo on the Personal Property Securities Register.
  - 7.3. The security interest arising under this clause 7 attaches to the goods when the goods are collected or dispatched from Bordo's premises and not at any later time.
  - 7.4. Where permitted by the PPSA, the customer waives any rights to receive the notifications, verifications, disclosures or other documentation specified under sections 95, 118, 121(4), 130, 132(3)(d), 132(4), 135 and 157 of the PPSA.
  - 7.5. Bordo and the customer agree to contract out of and nothing in the provisions of sections 96, 125, 129, 142 and 143 of the PPSA will apply to these Terms and Conditions.
  - 7.6. To the extent permitted by the PPSA, the customer agrees that:
    - (a) the provisions of Chapter 4 of the PPSA which are for the benefit of the customer or which place obligations on Bordo will apply only to the extent that they are mandatory or Bordo agrees to their application in writing; and
    - (b) where Bordo has rights in addition to those in Chapter 4 of the PPSA, those rights will continue and apply.
  - 7.7. The customer must immediately upon Bordo's request:
    - (a) do all things and execute all documents necessary to give effect to the security interest created under these Terms and Conditions; and
    - (b) procure from any person considered by Bordo to be relevant to its security position such agreements and waivers (including as equivalent to those above) as Bordo may at any time require.
  - 7.8. Bordo may allocate amounts received from the customer in any manner Bordo determines, including in any manner required to preserve any Purchase Money Security Interest it has in goods supplied by Bordo.
8. **CREDITS/RETURNS:** Except to the extent of any liability imposed by the ACL, authorisation must be obtained before returning goods for credit. No goods will be accepted for credit that are correctly supplied and invoiced if not returned freight paid within 14 days and delivery freight will be charged. Also a 15% restocking fee will be charged for any goods supplied correctly. Goods forwarded in error will be replaced no charge freight paid. Goods incorrectly sent must be held by the customer pending our further instruction.
9. **LIABILITY:**
  - 9.1. Except as these Terms and Conditions specifically state, these Terms and Conditions do not include by implication any other term, condition or warranty in respect of the quality, merchantability, acceptability, fitness for purpose, condition, description, assembly, manufacture, design or performance of the goods or services or any contractual remedy for their failure.
  - 9.2. If the customer is a consumer nothing in these Terms and Conditions restricts, limits or modifies the customer's rights or remedies against Bordo for failure of a statutory guarantee under the ACL.
  - 9.3. If the customer on-supplies the goods to a consumer:
    - (a) if the goods or services are not of a kind ordinarily acquired for personal, domestic or household use or consumption, then the amount specified in section 276A(1) of the ACL is the absolute limit of Bordo's liability to the customer;
    - (b) if the goods are of a kind ordinarily acquired for personal, domestic or household use or consumption, then payment of any amount required under section 274 of the ACL is the absolute limit of Bordo's liability to the customer howsoever arising under or in connection with the sale, installation, use of, storage or any other dealings with the goods by the customer or any third party.
  - 9.4. If clause 9.2 or 9.3 does not apply, then other than as stated in these Terms and Conditions Bordo is not liable to the customer in any way howsoever arising under or in connection with the sale, installation, use of, storage or any other dealings with the goods or services by the customer or any third party.
  - 9.5. Bordo is not liable for any indirect or consequential losses or expenses suffered by the customer or any third party, howsoever caused, including but not limited to loss of turnover, profits, business or goodwill or any liability to any other party, except to the extent of any liability imposed by the ACL.
  - 9.6. The customer acknowledges that:
    - (a) it has not relied on any service involving skill and judgement, or on any advice, recommendation, information or assistance provided by Bordo in relation to the goods or their use or application;
    - (b) it has not made known, either expressly or by implication, to Bordo any purpose for which it requires the goods and it has the sole responsibility of satisfying itself that the goods are suitable for the use of the customer.
  - 9.7. Nothing in these Terms and Conditions is to be interpreted as excluding, restricting or modifying the application of any State or Federal legislation applicable to the sale of goods which cannot be so excluded, restricted or modified.
10. **TRADING TERMS AND CONDITIONS:** Are subject to change without notice. Trading terms and conditions appear on the Account Application Form, our web site, or are available on request.

**FUTURE UPDATES** Bordo International Pty Ltd's trading terms and conditions and any amendments or additions to these terms can be found on our website ([www.bordo.com.au](http://www.bordo.com.au)).

**DISCLAIMER** Whilst every effort has been made to ensure the accuracy of the information contained herein, Bordo International Pty Ltd accepts no liability for any loss or damage either direct or consequential arising out of, or in relation to, the use or application of the said information or products referred to herein. All information is believed to be correct at time of printing. E.&O.E.

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TYPE	JOBBER - METRIC	JOBBER - METRIC
SURFACE FINISH	GOLD COLOURED	GOLD COLOURED
MATERIAL	HSS TIN COATED	HSS TIN COATED
POINT TYPE	<b>135° SPLIT POINT</b>	<b>135° SPLIT POINT</b>
FLUTE TYPE	30° HELIX	30° HELIX
PACKAGING	<b>BULK TELEPACK</b>	<b>CLAM SHELL</b>



**135° Split Point**  
(crankshaft point)  
Split point is self centering and the short distance from the drill axis to the outer corners results in faster penetration, reducing end thrust. The 135° point should be used to cut harder steel materials especially in deep hole applications. In these situations it will produce thicker chips minimising work hardening of the cavity. Faster penetration reduces abrasion and friction along the cutting edges.

**DRILL BIT SURFACE TREATMENT**

**GOLD FINISH (TiN)**  
(Titanium Nitride)  
A very hard gold coloured surface finish a few microns thick is achieved by Physical Vapour Deposition (PVD). As with all surface coated tools, performance will deteriorate after resharpening. The coating helps to dissipate heat and reduces friction and cold welding. Higher speed and feed rates can be achieved and tool life is greatly increased.

DIAMETER MM	FL MM	OAL MM	TELEPACK QTY	\$ EACH	PART NUMBER	CLAM QTY	\$ CLAM	PART NUMBER
1.00	12.00	34.00	10	1.52	10-1.00	2	6.58	10-1.00S
1.50	18.00	40.00	10	1.58	10-1.50	2	5.93	10-1.50S
2.00	24.00	49.00	10	1.72	10-2.00	2	5.59	10-2.00S
2.50	30.00	57.00	10	1.81	10-2.50	2	5.59	10-2.50S
3.00	33.00	61.00	10	2.20	10-3.00	2	5.27	10-3.00S
3.20	36.00	65.00	10	2.27	10-3.20	-	-	-
3.30	36.00	65.00	10	2.36	10-3.30	-	-	-
3.50	39.00	70.00	10	2.36	10-3.50	1	2.96	10-3.50S
3.70	39.00	70.00	10	2.57	10-3.70	-	-	-
3.90	43.00	75.00	10	2.63	10-3.90	-	-	-
4.00	43.00	75.00	10	2.63	10-4.00	1	3.29	10-4.00S
4.10	43.00	75.00	10	2.96	10-4.10	-	-	-
4.20	43.00	75.00	10	3.11	10-4.20	-	-	-
4.50	47.00	80.00	10	3.42	10-4.50	1	3.62	10-4.50S
4.70	47.00	80.00	10	3.56	10-4.70	-	-	-
5.00	52.00	86.00	10	3.62	10-5.00	1	4.11	10-5.00S
5.10	52.00	86.00	10	3.78	10-5.10	-	-	-
5.20	52.00	86.00	10	3.88	10-5.20	-	-	-
5.50	57.00	93.00	10	4.15	10-5.50	1	4.78	10-5.50S
6.00	57.00	93.00	10	4.93	10-6.00	1	5.59	10-6.00S
6.20	63.00	101.00	10	5.27	10-6.20	-	-	-
6.50	63.00	101.00	10	5.33	10-6.50	1	6.09	10-6.50S
6.60	63.00	101.00	10	5.42	10-6.60	-	-	-
6.80	69.00	109.00	10	5.76	10-6.80	-	-	-
6.90	69.00	109.00	10	5.93	10-6.90	-	-	-
7.00	69.00	109.00	5	6.00	10-7.00	1	7.25	10-7.00S
7.20	69.00	109.00	5	6.75	10-7.20	-	-	-
7.50	69.00	109.00	5	7.17	10-7.50	1	7.89	10-7.50S
7.80	75.00	117.00	5	8.56	10-7.80	-	-	-
7.90	75.00	117.00	5	8.72	10-7.90	-	-	-
8.00	75.00	117.00	5	8.72	10-8.00	1	8.72	10-8.00S
8.50	75.00	117.00	5	10.20	10-8.50	1	9.88	10-8.50S
8.80	81.00	125.00	5	10.86	10-8.80	-	-	-

**METRIC  
JOBBER DRILLS  
DIN338**



**135° Split Point**  
*(crankshaft point)*  
Split point is self centering and the short distance from the drill axis to the outer corners results in faster penetration, reducing end thrust. The 135° point should be used to cut harder steel materials especially in deep hole applications. In these situations it will produce thicker chips minimising work hardening of the cavity. Faster penetration reduces abrasion and friction along the cutting edges.

**DRILL BIT  
SURFACE  
TREATMENT**

**GOLD FINISH (TiN)**  
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A very hard gold coloured surface finish a few microns thick is achieved by Physical Vapour Deposition (PVD). As with all surface coated tools, performance will deteriorate after resharpening.

*The coating helps to dissipate heat and reduces friction and cold welding. Higher speed and feed rates can be achieved and tool life is greatly increased.*



TYPE	JOBBER - METRIC	JOBBER - METRIC
SURFACE FINISH	GOLD COLOURED	GOLD COLOURED
MATERIAL	HSS TIN COATED	HSS TIN COATED
POINT TYPE	<b>135° SPLIT POINT</b>	<b>135° SPLIT POINT</b>
FLUTE TYPE	30° HELIX	30° HELIX
PACKAGING	<b>BULK TELEPACK</b>	<b>CLAM SHELL</b>



DIAMETER MM	FL MM	OAL MM	TELEPACK QTY	\$ EACH	PART NUMBER	CLAM QTY	\$ CLAM	PART NUMBER
9.00	81.00	125.00	5	11.19	10-9.00	1	10.86	10-9.00S
9.20	81.00	125.00	5	11.68	10-9.20	-	-	-
9.30	81.00	125.00	5	11.68	10-9.30	-	-	-
9.40	81.00	125.00	5	11.78	10-9.40	-	-	-
9.50	81.00	125.00	5	11.85	10-9.50	1	11.85	10-9.50S
9.90	87.00	133.00	5	12.11	10-9.90	-	-	-
10.00	87.00	133.00	1	12.17	10-10.00	1	13.16	10-10.00S
10.20	87.00	133.00	1	13.31	10-10.20	-	-	-
10.50	87.00	133.00	1	13.81	10-10.50	1	14.15	10-10.50S
10.80	94.00	142.00	1	14.80	10-10.80	-	-	-
11.00	94.00	142.00	1	15.14	10-11.00	1	16.11	10-11.00S
11.50	94.00	142.00	1	15.79	10-11.50	1	17.78	10-11.50S
11.80	94.00	142.00	1	16.78	10-11.80	-	-	-
12.00	101.00	151.00	1	17.11	10-12.00	1	20.06	10-12.00S
12.20	101.00	151.00	1	18.10	10-12.20	-	-	-
12.50	101.00	151.00	1	19.08	10-12.50	1	22.05	10-12.50S
12.80	101.00	151.00	1	20.73	10-12.80	-	-	-
12.90	101.00	151.00	1	21.06	10-12.90	-	-	-
13.00	101.00	151.00	1	21.38	10-13.00	1	25.00	10-13.00S



TYPE	JOBBER - FRACTIONAL	JOBBER - FRACTIONAL
SURFACE FINISH	GOLD COLOURED	GOLD COLOURED
MATERIAL	HSS TIN COATED	HSS TIN COATED
POINT TYPE	<b>135° SPLIT POINT</b>	<b>135° SPLIT POINT</b>
FLUTE TYPE	30° HELIX	30° HELIX
PACKAGING	<b>BULK TELEPACK</b>	<b>CLAM SHELL</b>



**135° Split Point**  
(crankshaft point)  
Split point is self centering and the short distance from the drill axis to the outer corners results in faster penetration, reducing end thrust. The 135° point should be used to cut harder steel materials especially in deep hole applications. In these situations it will produce thicker chips minimising work hardening of the cavity. Faster penetration reduces abrasion and friction along the cutting edges.

**DRILL BIT SURFACE TREATMENT**

**GOLD FINISH (TiN)**  
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A very hard gold coloured surface finish a few microns thick is achieved by Physical Vapour Deposition (PVD). As with all surface coated tools, performance will deteriorate after resharpening. The coating helps to dissipate heat and reduces friction and cold welding. Higher speed and feed rates can be achieved and tool life is greatly increased.

DIAMETER INCH	DIAMETER MM	FL MM	OAL MM	TELEPACK QTY	\$ EACH	PART NUMBER	CLAM QTY	\$ CLAM	PART NUMBER
1/16	1.59	22.00	48.00	10	1.64	11-1/16	2	5.93	11-1/16S
5/64	1.98	25.00	51.00	10	1.72	11-5/64	2	5.59	11-5/64S
3/32	2.38	32.00	57.00	10	1.81	11-3/32	2	5.59	11-3/32S
7/64	2.78	38.00	67.00	10	1.91	11-7/64	2	5.27	11-7/64S
1/8	3.17	41.00	70.00	10	2.20	11-1/8	2	5.42	11-1/8S
9/64	3.57	44.00	73.00	10	2.48	11-9/64	1	3.29	11-9/64S
5/32	3.97	51.00	79.00	10	2.68	11-5/32	1	3.29	11-5/32S
11/64	4.37	54.00	83.00	10	3.42	11-11/64	1	3.62	11-11/64S
3/16	4.76	59.00	89.00	10	3.62	11-3/16	1	3.95	11-3/16S
13/64	5.16	62.00	92.00	10	3.78	11-13/64	1	4.27	11-13/64S
7/32	5.56	64.00	95.00	10	4.17	11-7/32	1	4.93	11-7/32S
15/64	5.95	67.00	98.00	10	4.54	11-15/64	1	5.42	11-15/64S
1/4	6.35	70.00	102.00	10	5.30	11-1/4	1	5.76	11-1/4S
17/64	6.75	73.00	105.00	10	5.68	11-17/64	1	6.91	11-17/64S
9/32	7.14	75.00	108.00	10	6.99	11-9/32	1	7.58	11-9/32S
19/64	7.54	78.00	111.00	5	7.89	11-19/64	1	8.21	11-19/64S
5/16	7.94	81.00	114.00	5	7.95	11-5/16	1	8.56	11-5/16S
21/64	8.33	84.00	117.00	5	9.88	11-21/64	1	10.22	11-21/64S
11/32	8.73	87.00	121.00	5	11.36	11-11/32	1	12.27	11-11/32S
23/64	9.13	89.00	124.00	5	11.85	11-23/64	1	12.22	11-23/64S
3/8	9.52	92.00	127.00	5	12.01	11-3/8	1	12.39	11-3/8S
25/64	9.92	95.00	130.00	5	12.11	11-25/64	1	13.16	11-25/64S
13/32	10.32	98.00	133.00	1	14.31	11-13/32	1	14.73	11-13/32S
27/64	10.72	100.00	137.00	1	15.79	11-27/64	1	16.13	11-27/64S
7/16	11.11	103.00	140.00	1	16.46	11-7/16	1	16.79	11-7/16S
29/64	11.51	106.00	143.00	1	19.74	11-29/64	1	20.08	11-29/64S
15/32	11.91	110.00	146.00	1	20.06	11-15/32	1	20.50	11-15/32S
31/64	12.30	111.00	149.00	1	21.88	11-31/64	1	22.19	11-31/64S
1/2	12.70	114.00	152.00	1	22.37	11-1/2	1	22.70	11-1/2S

**METRIC  
JOBBER DRILLS  
DIN338**

**FRACTIONAL  
JOBBER DRILLS  
ANSI  
B94-11**



**135° Split Point**  
*(crankshaft point)*  
Split point is self centering and the short distance from the drill axis to the outer corners results in faster penetration, reducing end thrust. The 135° point should be used to cut harder steel materials especially in deep hole applications. In these situations it will produce thicker chips minimising work hardening of the cavity. Faster penetration reduces abrasion and friction along the cutting edges.

**DRILL BIT  
SURFACE  
TREATMENT**

**GOLD FINISH (TiN)**  
*(Titanium Nitride)*  
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TYPE	JOBBER - METRIC	JOBBER - FRACTIONAL
SURFACE FINISH	GOLD COLOURED	GOLD COLOURED
MATERIAL	HSS TIN COATED	HSS TIN COATED
POINT TYPE	<b>135° SPLIT POINT</b>	<b>135° SPLIT POINT</b>
FLUTE TYPE	30° HELIX	30° HELIX
PACKAGING	<b>CLAM SHELL</b>	<b>CLAM SHELL</b>



MERCHANDISER TYPE	\$ MERCHANDISER	PART NUMBER	\$ MERCHANDISER	PART NUMBER
<b>METRIC</b> – 113 CLAM SHELLS	<b>990.50</b>	10-D1	–	–
<b>FRACTIONAL</b> – 129 CLAM SHELLS	–	–	<b>1,142.29</b>	11-D1

MERCHANDISER CONTENTS	QTY CLAM	PART NUMBER	QTY CLAM	PART NUMBER
	5	10-1.00S	5	11-1/16S
	5	10-1.50S	5	11-5/64S
	5	10-2.00S	5	11-3/32S
	5	10-2.50S	5	11-7/64S
	5	10-3.00S	5	11-1/8S
	5	10-3.50S	5	11-9/64S
	5	10-4.00S	5	11-5/32S
	5	10-4.50S	5	11-11/64S
	5	10-5.00S	5	11-3/16S
	5	10-5.50S	5	11-13/64S
	5	10-6.00S	5	11-7/32S
	5	10-6.50S	5	11-15/64S
	5	10-7.00S	5	11-1/4S
	5	10-7.50S	5	11-17/64S
	5	10-8.00S	5	11-9/32S
	5	10-8.50S	5	11-19/64S
	5	10-9.00S	5	11-5/16S
	5	10-9.50S	5	11-21/64S
	5	10-10.00S	5	11-11/32S
	3	10-10.50S	5	11-23/64S
	3	10-11.00S	5	11-3/8S
	3	10-11.50S	3	11-25/64S
	3	10-12.00S	3	11-13/32S
	3	10-12.50S	3	11-27/64S
	3	10-13.00S	3	11-7/16S
	–	–	3	11-29/64S
	–	–	3	11-15/32S
	–	–	3	11-31/64S
	–	–	3	11-1/2S



TYPE	JOBBER	JOBBER	JOBBER
SURFACE FINISH	GOLD COLOURED	BRONZE COLOURED	BRIGHT
MATERIAL	HSS TIN COATED	HSS-Co5	HSS
POINT TYPE	<b>135° SPLIT POINT</b>	<b>135° SPLIT POINT</b>	<b>118° CHISEL POINT</b>
FLUTE TYPE	30° HELIX	30° HELIX	30° HELIX
PACKAGING	SET	SET	SET



**Standard Point**  
(chisel point)  
Standard point is suitable for general purpose drilling.

**DRILL BIT SURFACE TREATMENT**

**GOLD FINISH (TiN)**  
(Titanium Nitride)  
A very hard gold coloured surface finish a few microns thick is achieved by Physical Vapour Deposition (PVD). As with all surface coated tools, performance will deteriorate after resharping. *The coating helps to dissipate heat and reduces friction and cold welding. Higher speed and feed rates can be achieved and tool life is greatly increased.*

**BRIGHT FINISH**  
A bright finish tool has no surface treatment and is supplied in the as-ground condition. *These tools are suitable for general purpose use, particularly for non-ferrous applications.*

**BRONZE FINISH**  
(gold oxide)  
This metallic brown coloured low temperature temper treatment is normally only used on cobalt tools for identification purposes. *Cobalt HSS drills are extremely hard and provide superior performance and increased tool life especially in stainless steel and high tensile steel.*

SET DESCRIPTION SET CONTENTS	DRILLS QTY	\$ SET	PART NUMBER	\$ SET	PART NUMBER	\$ SET	PART NUMBER
<b>METRIC M3 – ABS CASE</b> 1.0 - 13.0 x 0.5mm rises	25	<b>204.30</b>	10-M3P	<b>463.96</b>	10-CM3	–	–
<b>FRACTIONAL F3 – ABS CASE</b> 1/16" - 1/2" x 1/64" rises	29	<b>249.24</b>	11-F3P	<b>544.64</b>	11-CF3	–	–



SET DESCRIPTION SET CONTENTS	DRILLS QTY	\$ SET	PART NUMBER	\$ SET	PART NUMBER	\$ SET	PART NUMBER
<b>METRIC M3 – METAL CASE</b> 1.0 - 13.0 x 0.5mm rises	25	<b>189.18</b>	10-M3	–	–	<b>97.93</b>	10-SBM3
<b>FRACTIONAL F3 – METAL CASE</b> 1/16" - 1/2" x 1/64" rises	29	<b>230.79</b>	11-F3	–	–	<b>103.36</b>	11-SBF3

\* Some older stock may be 118° standard chisel point

**DRILLS  
REDUCED  
SHANK**

METRIC

HANG SELL

**DRILL BIT  
SURFACE  
TREATMENT**

**GOLD FINISH (TiN)**

(Titanium Nitride)

A very hard gold coloured surface finish a few microns thick is achieved by Physical Vapour Deposition (PVD). As with all surface coated tools, performance will deteriorate after resharping.

*The coating helps to dissipate heat and reduces friction and cold welding. Higher speed and feed rates can be achieved and tool life is greatly increased.*



TYPE	REDUCED SHANK - METRIC
SURFACE FINISH	GOLD COLOURED
MATERIAL	HSS TIN COATED
POINT TYPE	<b>118° SPLIT POINT</b>
FLUTE TYPE	30° HELIX
SHANK DIAMETER	<b>1/2"</b>
PACKAGING	<b>BULK POUCH</b>



DIAMETER MM	FL MM	OAL MM	PACK QTY	\$ EACH	PART NUMBER
13.00	89.00	152.00	1	38.01	15-13.00
13.50	89.00	152.00	1	38.01	15-13.50
14.00	89.00	152.00	1	38.01	15-14.00
14.50	89.00	152.00	1	42.27	15-14.50
15.00	89.00	152.00	1	45.20	15-15.00
15.50	89.00	152.00	1	45.87	15-15.50
16.00	89.00	152.00	1	46.04	15-16.00
16.50	89.00	152.00	1	46.65	15-16.50
17.00	89.00	152.00	1	48.14	15-17.00
17.50	89.00	152.00	1	49.59	15-17.50
18.00	89.00	152.00	1	52.84	15-18.00
18.50	89.00	152.00	1	56.20	15-18.50
19.00	89.00	152.00	1	56.86	15-19.00
19.50	89.00	152.00	1	59.94	15-19.50
20.00	89.00	152.00	1	63.88	15-20.00
21.00	89.00	152.00	1	66.44	15-21.00
22.00	89.00	152.00	1	69.93	15-22.00
23.00	89.00	152.00	1	73.42	15-23.00
24.00	89.00	152.00	1	79.42	15-24.00
25.00	89.00	152.00	1	86.54	15-25.00

SET DESCRIPTION SET CONTENTS	DRILLS QTY	\$ SET	PART NUMBER
REDUCED SHANK METRIC 16, 18, 22, 25mm	4	255.35	15-MS1





**DRILLS  
REDUCED  
SHANK**

FRACTIONAL

HANG SELL



TYPE	REDUCED SHANK - FRACTIONAL
SURFACE FINISH	GOLD COLOURED
MATERIAL	HSS TiN COATED
POINT TYPE	<b>118° SPLIT POINT</b>
FLUTE TYPE	30° HELIX
SHANK DIAMETER	<b>1/2"</b>
PACKAGING	<b>BULK POUCH</b>



**DRILL BIT  
SURFACE  
TREATMENT**

**GOLD FINISH (TiN)**

(Titanium Nitride)

A very hard gold coloured surface finish a few microns thick is achieved by Physical Vapour Deposition (PVD). As with all surface coated tools, performance will deteriorate after resharpening.

*The coating helps to dissipate heat and reduces friction and cold welding. Higher speed and feed rates can be achieved and tool life is greatly increased.*

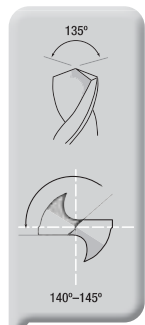
DIAMETER INCH	DIAMETER MM	FL MM	OAL MM	PACK QTY	\$ EACH	PART NUMBER
9/16	14.29	86.00	152.00	1	<b>39.47</b>	15-9/16
19/32	15.08	86.00	152.00	1	<b>42.32</b>	15-19/32
5/8	15.88	86.00	152.00	1	<b>41.95</b>	15-5/8
21/32	16.67	86.00	152.00	1	<b>45.41</b>	15-21/32
11/16	17.46	86.00	152.00	1	<b>49.02</b>	15-11/16
23/32	18.26	86.00	152.00	1	<b>52.64</b>	15-23/32
3/4	19.05	86.00	152.00	1	<b>55.93</b>	15-3/4
25/32	19.84	86.00	152.00	1	<b>60.53</b>	15-25/32
13/16	20.64	86.00	152.00	1	<b>64.16</b>	15-13/16
27/32	21.43	86.00	152.00	1	<b>65.00</b>	15-27/32
7/8	22.23	86.00	152.00	1	<b>67.78</b>	15-7/8
29/32	23.02	86.00	152.00	1	<b>70.13</b>	15-29/32
15/16	23.81	86.00	152.00	1	<b>75.68</b>	15-15/16
31/32	24.61	86.00	152.00	1	<b>78.96</b>	15-31/32
1	25.40	86.00	152.00	1	<b>82.25</b>	15-1



SET DESCRIPTION SET CONTENTS	DRILLS QTY	\$ SET	PART NUMBER
REDUCED SHANK FRACTIONAL 5/8", 3/4", 7/8", 1"	4	<b>247.91</b>	15-FS1



TYPE	PANEL DRILL	PANEL DRILL
SURFACE FINISH	GOLD COLOURED	GOLD COLOURED
MATERIAL	HSS TIN COATED	HSS TIN COATED
POINT TYPE	135° SPLIT POINT	135° SPLIT POINT
END TYPE	<b>SINGLE ENDED</b>	<b>DOUBLE ENDED</b>
PACKAGING	<b>BULK TELEPACK</b>	<b>BULK TELEPACK</b>



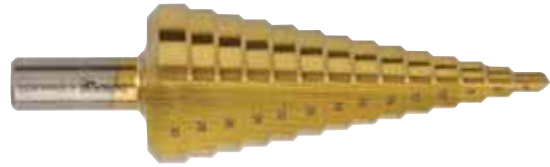
**135° Split Point**  
(crankshaft point)  
Split point is self centering and the short distance from the drill axis to the outer corners results in faster penetration, reducing end thrust. The 135° point should be used to cut harder steel materials especially in deep hole applications. In these situations it will produce thicker chips minimising work hardening of the cavity. Faster penetration reduces abrasion and friction along the cutting edges.



DIA GAUGE	DIA MM / INCH	RIVET DIA.	FL MM	OAL MM	PACK QTY	\$ EACH	PART NUMBER	\$ EACH	PART NUMBER
—	1/8"	3mm	14	51	10	—	—	<b>2.36</b>	40-1/8
<b>30</b>	3.26mm	1/8"	14	51	10	<b>2.36</b>	42-30	<b>2.53</b>	40-30
<b>20</b>	4.09mm	5/32"	14	55	10	<b>2.96</b>	42-20	<b>3.99</b>	40-20
<b>11</b>	4.85mm	3/16"	17	62	10	<b>3.99</b>	42-11	<b>4.17</b>	40-11

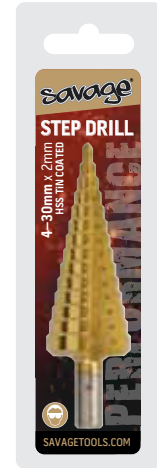
**USAGE**

**PANEL DRILLS**  
Panel drills are principally used during sheet metal fabrication to drill holes for rivets. They are designed to drill shallow holes that do not exceed 1.25 x drill diameter. When using double ended panel drills ensure the drill chuck jaws are tight to prevent damage to the back of the chuck.



TYPE	STEP DRILL
SURFACE FINISH	GOLD COLOURED
MATERIAL	HSS TIN COATED
FLUTE TYPE	STRAIGHT
FLUTES	2
PACKAGING	CLAM SHELL

**NEW**  
MERCHANDISER  
PAGE 11



**HSS SPIRAL FLUTE TIN COATED STEP DRILLS**

Spiral Flute Titanium Nitride (TiN) coated step drills offer additional benefits over the standard range of two flute bright finish drills.

- New high performance point for faster starting and reduced bit wander.
- TiN coating extends tool life, helps to dissipate heat, reduces friction and cold welding.

DIAMETER MIN MAX	INCREMENT MM	STEP DEPTH MM	SHANK DIA. MM	OAL MM	PACK QTY	\$ EACH	PART NUMBER
4 - 12	1.0	5.0	6.0	79.0	1	<b>51.50</b>	30-M1
4 - 20	2.0	3.0	8.0	67.0	1	<b>65.94</b>	30-M2
4 - 30	2.0	4.0	10.0	100.0	1	<b>143.04</b>	30-M3

DIAMETER MIN MAX	INCREMENT INCH	STEP DEPTH MM	SHANK DIA. INCH	OAL INCH	PACK QTY	\$ EACH	PART NUMBER
1/8" - 1/2"	1/32	5.0	1/4	3-1/8	1	<b>67.78</b>	30-F1
1/4" - 3/4"	1/16	3.0	3/8	2-3/4	1	<b>74.00</b>	30-F2



SET DESCRIPTION SET CONTENTS	DRILLS QTY	\$ SET	PART NUMBER
<b>METRIC STEP DRILL SET – METAL CASE</b>	3	<b>257.48</b>	30-S1
30-M1, 30-M2, 30-M3			

**CROSS HOLE COUNTERSINKS**

For countersinking and deburring in a wide range of materials including ferrous and non-ferrous metals. The intersection of the hole and cone form the cutting edge on the tool. The cone is not truly symmetrical as it is essential that the cone retreats away from the cutting edge as the tool rotates. If this does not occur the cutting edge will lack clearance and rub rather than bite into the material. This clearance is referred to as cutting relief. The radially relieved single cutting edge provides fast stock removal with low vibration for chatter-free operation ensuring the smoothest finish. These tools are best used as deburring tools, where a burr, or sharp edge, from a previous machining operation needs to be removed for cosmetic and safety reasons. They also may be used in softer materials (such as wood or plastic) to create a countersunk hole for a screw.

**TRIPLE FLUTE COUNTERSINKS**

For countersinking and deburring in a wide range of materials including ferrous and non-ferrous metals. The three fluted countersink is self centering with wide flutes and is used to provide a heavy chamfer in the entrance to a drilled hole. This may be required to allow the correct seating for a countersunk head screw or to provide the lead in for a second machining operation such as tapping. Use on medium to hard materials. Resharpenable.



TYPE	CROSS HOLE
SURFACE FINISH	GOLD COLOURED
MATERIAL	HSS-Co5 – TIN COATED
FLUTE TYPE	CROSS HOLE
ANGLE	90°
PACKAGING	SINGLE

DIAMETER		CAPACITY MIN - MAX	SHANK TYPE		OAL MM	PACK QTY	\$ EACH	PART NUMBER
MM	INCH		MM	INCH				
10.0	—	4.0 - 9.0	6	—	45	1	32.92	32-10
15.0	—	6.0 - 14.0	8	—	48	1	44.98	32-15
21.0	—	8.0 - 18.0	10	—	65	1	80.78	32-21
28.0	—	10.0 - 23.0	12	—	85	1	129.40	32-28
35.0	—	12.0 - 28.0	12	—	102	1	219.87	32-35



TYPE	TRIPLE FLUTE
SURFACE FINISH	GOLD COLOURED
MATERIAL	HSS-Co5 – TIN COATED
FLUTE TYPE	TRIPLE FLUTE
ANGLE	90°
PACKAGING	SINGLE

DIAMETER		CAPACITY MIN - MAX	SHANK TYPE		OAL MM	PACK QTY	\$ EACH	PART NUMBER
MM	INCH		MM	INCH				
10.0	—	2.2 - 10.0	6	—	50	1	30.78	34-10
16.0	—	3.0 - 16.0	8	—	60	1	56.53	34-16
20.0	—	4.0 - 20.0	10	—	63	1	69.72	34-20
25.0	—	4.0 - 25.0	10	—	67	1	85.43	34-25
31.0	—	5.0 - 31.0	12	—	71	1	140.71	34-31
40.0	—	6.0 - 40.0	16	—	80	1	314.10	34-40



TYPE	CROSS HOLE	TRIPLE FLUTE
SURFACE FINISH	GOLD COLOURED	GOLD COLOURED
MATERIAL	HSS-Co5 – TIN COATED	HSS-Co5 – TIN COATED
FLUTE TYPE	CROSS HOLE	TRIPLE FLUTE
ANGLE	90°	90°
PACKAGING	SET	SET



SET DESCRIPTION SET CONTENTS	QTY	\$ SET	PART NUMBER	\$ SET	PART NUMBER
COUNTERSINK SET – CROSS HOLE 15, 21 AND 28MM	3	255.16	32-S1	–	–
COUNTERSINK SET – TRIPLE FLUTE 16, 20 AND 25MM	3	–	–	211.68	34-S1

**NEW SETS**



MERCHANDISER TYPE	\$ MERCHANDISER	PART NUMBER
PERSPEX BENCH MERCHANDISER	1,923.19	32-D1

**NEW MERCHANDISER**

MERCHANDISER CONTENTS	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER
	STEP DRILLS		CROSS HOLE		TRIPLE FLUTE	
	1	30-F1	2	32-10	2	34-10
	1	30-F2	2	32-15	2	34-16
	1	30-M1	2	32-21	2	34-20
	1	30-M2	1	32-28	1	34-25
	1	30-M3	1	32-35	1	34-31
	–	–	–	–	1	34-40

**EXPRESS CUT  
TUNGSTEN  
CARBIDE BURRS**

Also known as  
Double Cut Burrs

These high performance general purpose burrs provide rapid stock removal in harder materials with minimum tool chatter and improved operator control. The express cut design eliminates loading of the flutes and reduces chip size and the production of sharp silver chips. Ideal for use in carbon steel, cast iron, high strength steel, stainless steel, steel castings, steel welds, titanium alloy and fibreglass composites.

**IMPORTANT**  
Because of the high speeds when using tungsten carbide burrs it is essential that approved eye protection and clothing are worn at all times.



TYPE	TUNGSTEN CARBIDE BURRS
SURFACE FINISH	BRIGHT
MATERIAL	TUNGSTEN CARBIDE
SHANK	1/4"
TYPE	<b>EXPRESS CUT</b>
PACKAGING	<b>SET</b>

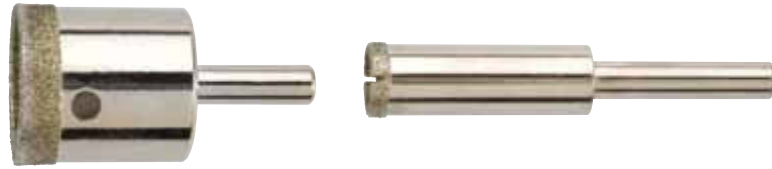


SET DESCRIPTION SET CONTENTS	BURR QTY	\$ SET	PART NUMBER
<b>BURR SET</b>	5	<b>195.94</b>	20-S1
3/8" HEAD SB-3 CYLINDRICAL END CUT			
3/8" HEAD SC-3 CYLINDRICAL BALL			
1/2" HEAD SC-5 CYLINDRICAL BALL			
3/8" HEAD SF-3 TREE RADIUS			
1/2" HEAD SF-5 TREE RADIUS			



**NEW  
SET**

SET DESCRIPTION SET CONTENTS	BURR QTY	\$ SET	PART NUMBER
<b>BURR SET</b>	3	<b>133.18</b>	20-S2
3/8" HEAD SB-3 CYLINDRICAL END CUT			
3/8" HEAD SC-3 CYLINDRICAL BALL			
3/8" HEAD SF-3 TREE RADIUS			



TYPE	DIAMOND HOLE SAWS
MATERIAL	DIAMOND
TYPE	1 PIECE
INTERNAL DEPTH	<b>50MM</b>
PACKAGING	<b>CLAM SHELL</b>

**DIAMOND HOLE SAWS**

Diamond core drills and hole saws require the use of proper lubrication, correct drill speed and proper pressure. Drilling methods and techniques vary significantly depending upon the material being drilled.

To achieve optimum cutting performance and maximum core drill life use a slow to very slow drill speed, low drill pressure, and plenty of water for lubrication. Variable speed drills work best since the correct speed can be selected.

Diamond core drills only drill out a portion of the resulting hole so they drill much faster than conventional blunt nose drills. Core drills can be used on most non-ferrous hard materials such as glass, ceramic, porcelain, fibreglass, slate, marble, granite and other natural and manufactured stone materials.

The life of any type of diamond drill depends upon the hardness, abrasiveness and thickness of the material being drilled and the specific drilling techniques used.

Using diamond core drills in hard materials is not difficult, however drilling the hole takes time. You should consider that they aren't "drilling" a hole – they are "grinding" a hole.

**SPEEDS IN RPM**

- Fibreglass – 1200
- Glass, Ceramic and China – 800
- Limestone and Marble – 600
- Ceramic Tile – 600
- Porcelain – 500
- Granite and Comp. Stone – 400

**DO NOT USE HAMMER ACTION. NOT FOR DRILLING BEYOND 13MM.**



DIAMETER MM	DIAMETER INCH EQUIV.	PACK QTY	\$ EACH	PART NUMBER
4.00	5/32	1	8.60	62-4
5.00	13/64	1	8.60	62-5
6.00	15/64	1	8.60	62-6
6.50	–	1	9.28	62-6.5
8.00	5/16	1	11.10	62-8
10.00	25/64	1	13.59	62-10
12.00	–	1	16.16	62-12
16.00	5/8	1	29.90	62-16
19.00	3/4	1	29.90	62-19
22.00	7/8	1	35.10	62-22
25.00	1	1	36.40	62-25
32.00	1-1/4	1	41.60	62-32
35.00	1-3/8	1	44.20	62-35
38.00	1-1/2	1	45.50	62-38
42.00	–	1	48.10	62-42
45.00	–	1	50.70	62-45
50.00	–	1	52.00	62-50
63.00	–	1	58.50	62-63
68.00	–	1	78.00	62-68
105.00	4-1/8	1	117.00	62-105
110.00	–	1	123.50	62-110
124.00	–	1	130.00	62-124
128.00	–	1	135.91	62-128



SET DESCRIPTION SET CONTENTS	DRILL QTY	\$ SET	PART NUMBER
<b>DIAMOND CORE DRILLS - 6 PCE</b>	5	<b>101.40</b>	62-S1

5, 6, 6.5, 8 & 10MM DRILLS PLUS SUCTION DRILLING TEMPLATE

**CORE DRILLS**

DIAMOND

HANG SELL



**DIAMOND CORE DRILLS**

Diamond core drills and hole saws require the use of proper lubrication, correct drill speed and proper pressure. Drilling methods and techniques vary significantly depending upon the material being drilled.

To achieve optimum cutting performance and maximum core drill life use a slow to very slow drill speed, low drill pressure, and plenty of water for lubrication. Variable speed drills work best since the correct speed can be selected.

TYPE	DIAMOND HOLE SAWS
MATERIAL	DIAMOND
TYPE	1 PIECE
INTERNAL DEPTH	<b>50MM</b>
PACKAGING	<b>CLAM SHELL</b>



MERCHANDISER TYPE	\$ MERCHANDISER	PART NUMBER
DIAMOND CORE DRILL	<b>430.59</b>	62-D1

MERCHANDISER CONTENTS	QTY CLAM	PART NUMBER
	3	62-4
	3	62-5
	3	62-6
	3	62-6.5
	3	62-8
	3	62-10
	3	62-12
	2	62-S1







TYPE	TAP & DIE SETS
TAP AND DIE MATERIAL	TUNGSTEN STEEL
TYPE	SETS
PACKAGING	BLOW MOULDED CASE

**CREATE NEW THREADS IN ALUMINIUM AND MILD STEEL**

**CLEAN AND REPAIR EXISTING THREADS**

Savage Tap and Die Sets are great value, high quality sets that include various combinations of metric and SAE taps and button dies. Manufactured from premium quality tungsten steel they are packaged in tough, compact, blow moulded cases.



SET DESCRIPTION SET CONTENTS	PIECES QTY	\$ SET	PART NUMBER
<b>S1 TAP AND DIE SET – METRIC &amp; SAE</b>	115	<b>433.68</b>	50-S1

**48 INTERMEDIATE LEAD TAPS AND 48 BUTTON DIES**

4GX40, 5GX40, 6GX32, 8GX32, 10GX24, 10GX32, 12GX24, 1/4"X20, 1/4"X28, 5/16"X18, 5/16"X24, 3/8"X16, 3/8"X24, 7/16"X14, 7/16"X20, 1/2"X13, 1/2"X20, 9/16"X12, 9/16"X18, 5/8"X11, 5/8"X18, 3/4"X10, 3/4"X16, 2X0.4, 3X0.5, 4X0.7, 5X0.8, 6X1.0, 7X1.0, 8X1.0, 8X1.25, 9X1.25, 10X1.0, 10X1.25, 10X1.5, 11X1.5, 12X1.75, 12X1.25, 14X2.0, 14X1.5, 16X2.0, 16X1.5, 18X2.5, 18X1.5, NPT1/4"X18, BSP1/8"X28, BSP1/4"X19

**5 HSS JOBBER DRILLS 2.5MM, 3.3MM, 4.2MM, 5.0MM, 6.8MM**

- 5 X SCREW EXTRACTORS #1, #2, #3, #4, #5
- 2 X SCREW PITCH GAUGES
- 2 X DIE HOLDERS
- 3 X TAP WRENCHES
- 1 X SCREWDRIVER
- 1 X CENTRE PUNCH



SET DESCRIPTION SET CONTENTS	PIECES QTY	\$ SET	PART NUMBER
<b>S2 TAP AND DIE SET – METRIC, UNC/UNF + 1/8" NPT</b>	60	<b>187.58</b>	50-S2

**27 INTERMEDIATE LEAD TAPS AND 27 BUTTON DIES**

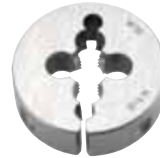
3X0.5, 4X0.7, 5X0.8, 6X1.0, 7X1.0, 8X1.25, 9X1.25, 10X1.0, 10X1.5, 12X1.75, 4GX40, 6GX32, 8GX32, 10GX24, 10GX32, 12GX24, 1/4"X20, 1/4"X28, 5/16"X18, 5/16"X24, 3/8"X16, 3/8"X24, 7/16"X14, 7/16"X20, 1/2"X13, 1/2"X20, NPT1/8"X27

- 2 X SCREW PITCH GAUGES
- 1 X DIE HOLDER
- 2 X TAP WRENCHES
- 1 X SCREWDRIVER

# TAPS & DIES

## TUNGSTEN STEEL

### SETS



#### CREATE NEW THREADS IN ALUMINIUM AND MILD STEEL

#### CLEAN AND REPAIR EXISTING THREADS

Savage Tap and Die Sets are great value, high quality sets that include various combinations of metric and SAE taps and button dies. Manufactured from premium quality tungsten steel they are packaged in tough, compact, blow moulded cases.

TYPE	TAP & DIE SETS
TAPS AND DIE MATERIAL	TUNGSTEN STEEL
TYPE	SETS
PACKAGING	BLOW MOULDED CASE



SET DESCRIPTION	PIECES	\$	PART
SET CONTENTS	QTY	SET	NUMBER
<b>S3 TAP AND DIE SET – UNC/UNF + 1/8" NPT</b>	39	<b>114.43</b>	50-S3

**17 INTERMEDIATE LEAD TAPS AND 17 BUTTON DIES**  
 4GX40, 6GX32, 8GX32, 10GX24, 10GX32, 12GX24, 1/4"X20, 1/4"X28, 5/16"X18, 5/16"X24, 3/8"X16, 3/8"X24, 7/16"X14, 7/16"X20, 1/2"X13, 1/2"X20, NPT1/8"X27  
 1 X SCREW PITCH GAUGE  
 1 X DIE HOLDER  
 2 X TAP WRENCHES  
 1 X SCREWDRIVER



SET DESCRIPTION	PIECES	\$	PART
SET CONTENTS	QTY	SET	NUMBER
<b>S4 TAP AND DIE SET – METRIC + 1/8" NPT</b>	39	<b>114.43</b>	50-S4

**17 INTERMEDIATE LEAD TAPS AND 17 BUTTON DIES**  
 3X0.5, 3X0.6, 4X0.7, 4X0.75, 5X0.8, 5X0.9, 6X1.0, 6X0.75, 7X1.0, 7X0.75, 8X1.0, 8X1.25, 10X1.25, 10X1.5, 12X1.5, 12X1.75, NPT1/8"X27  
 1 X SCREW PITCH GAUGE  
 1 X DIE HOLDER  
 2 X TAP WRENCHES  
 1 X SCREWDRIVER

SET



TYPE	DRILL & TAP SET
TAP MATERIAL	TUNGSTEN STEEL
DRILL MATERIAL	HSS
PACKAGING	METAL CASE



**CREATE NEW THREADS IN ALUMINIUM AND MILD STEEL**

**CLEAN AND REPAIR EXISTING THREADS**

Savage Drill and Tap Sets are great value, high quality sets that include a range of metric coarse intermediate lead taps and matching HSS tapping drills. The taps are manufactured from premium quality tungsten steel and the drills from HSS. The set is packaged in tough, heavy duty metal case.

SET DESCRIPTION SET CONTENTS	PIECES QTY	\$ SET	PART NUMBER
<b>DRILL &amp; TAP SET – METRIC COARSE</b>	14	<b>86.21</b>	50-S5
<b>7 INTERMEDIATE LEAD TAPS</b> M12X1.75, M10X1.50, M8X1.25, M6X1.00, M5X0.80, M4X0.70, M3X0.50			
<b>7 HSS JOBBER DRILLS</b> 2.5MM, 3.3MM, 4.2MM, 5.0MM, 6.8MM, 8.50MM, 10.20MM			

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