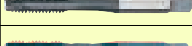
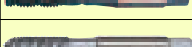
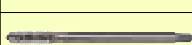
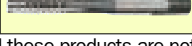
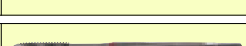
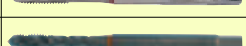
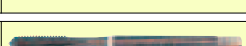
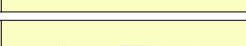
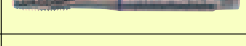
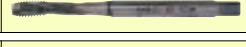


HSS Hand Taps

ISO 529	SHERWOOD		METRIC COARSE	METRIC FINE	UNC	UNF	BSW	BSF	BA	BSP	BSPT	NPT NPTF	NPS NPSF
HSS Ground Thread For Hand & General Use	Taper-Second Plug		Page 110	Page 112	Page 114	Page 116	Page 117	Page 118	Page 119	Page 120	Page 121	Page 122	Page 122
	Sets of Three		Page 110	Page 112	Page 114	Page 116	Page 117	Page 118	Page 119	Page 120	Page 121	*	*
	Spiral Point/ Gun Nose		Page 111	Page 113	Page 115	Page 116	Page 117	Page 118	Page 119	Page 120	*	*	*
	Spiral Flute		Page 111	Page 113	Page 115	Page 116	Page 117	Page 118	Page 119	Page 120	*	*	*
	Fluteless		Page 111	*	Page 115	*	*	*	*	*	*	*	*
	Long Series		Page 111	*	*	*	*	*	*	*	*	*	*
	Dies		Page 110	Page 112	Page 114	Page 116	Page 117	Page 185	Page 119	Page 120	Page 121	Page 112	Page 112
	Die Nuts		Page 110	Page 112	Page 114	Page 116	Page 117	Page 185	*	Page 120	Page 121	Page 112	Page 112
	Left Hand Taps & Dies		Page 111	*	*	*	*	*	*	*	*	*	*

*Where indicated these products are not shown in this catalogue but can be supplied on request. Please contact your local branch for more information.

Production Taps

DIN 371/6	SWISS+TECH		METRIC COARSE	BSP
BLACK RING MULTI APPLICATION	Spiral Point For Through Holes		Page 124	-
	Spiral Flute For Blind Holes		Page 124	-
YELLOW RING FOR STEELS	Spiral Point For Through Holes		Page 125	Page 125
	Spiral Flute For Blind Holes		Page 125	Page 125
BLUE RING FOR STAINLESS	Spiral Point For Through Holes		Page 126	-
	Spiral Flute - BLF For Shorter Blind Holes		Page 126	-
	Spiral Flute - BLT For Deeper Blind Holes		Page 126	-
RED RING FOR ALLOY STEELS	Spiral Point For Through Holes		Page 125	-
	Spiral Flute For Blind Holes		Page 125	-
WHITE RING FOR CAST IRON	Straight Flute For Through Holes		Page 126	-
	Straight Flute For Blind Holes		Page 126	-
PURPLE RING FOR TITANIUM ALLOYS	Left Hand Spiral Flute For Through Holes		Page 127	-
	Spiral Flute For Blind Holes		Page 127	-
ORANGE RING FOR HI-TEMP ALLOYS	Spiral Point For Through Holes		Page 127	-
	Spiral Flute For Blind Holes		Page 127	-
GREEN RING FOR ALUMINIUM ALLOYS	Spiral Point For Through Holes		Page 128	-
	Spiral Flute For Blind Holes		Page 128	-
FOR BRASS/ALUMINIUM	Fluteless For Through & Blind Holes		Page 128	-



PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR


**Metric Coarse HSS
Ground Thread Taps**

Straight Flute Individual Sizes
ISO 529



(1) Diameter and pitch not mentioned in ISO.

Size - Pitch (mm)	Thread Length	Overall Length	Shank Diameter	Weight each	Taper	Second	Plug	Price/1 TB
					Order Code SHR-085	Order Code SHR-085	Order Code SHR-085	
M1.0 x 0.25	5.5	38.5	2.50	3g	-0100A	-0100B	-0100C	3914.00
M1.4 x 0.30	7.0	40.0	2.50	3g	-0120A	-0120B	-0120C	4017.00
M1.6 x 0.35	8.0	41.0	2.50	3g	-0130A	-0130B	-0130C	1983.00
M2.0 x 0.40	8.0	41.0	2.50	3g	-0160A	-0160B	-0160C	464.00
M2.2 x 0.45	9.5	44.5	2.80	4g	-0180A	-0180B	-0180C	1300.00
M2.5 x 0.45	9.5	44.5	2.80	4g	-0200A	-0200B	-0200C	263.00
M3.0 x 0.50	11.0	48.0	3.15	4g	-0230A	-0230B	-0230C	263.00
M3.0 x 0.60 ⁽¹⁾	14.5	48.0	3.15	4g	-0240A	-0240B	-0240C	680.00
M3.5 x 0.60	13.0	50.0	3.55	4g	-0260A	-0260B	-0260C	294.00
M4.0 x 0.70	13.0	53.0	4.00	6g	-0280A	-0280B	-0280C	233.00
M4.0 x 0.75 ⁽¹⁾	17.0	53.0	4.00	6g	-0290A	-0290B	-0290C	623.00
M4.5 x 0.75	12.0	53.0	4.50	6g	-0310A	-0310B	-0310C	427.00
M5.0 x 0.80	12.0	58.0	5.00	8g	-0330A	-0330B	-0330C	258.00
M5.0 x 0.90 ⁽¹⁾	12.0	58.0	5.00	6g	-0340A	-0340B	-0340C	258.00
M6.0 x 1.00	19.0	66.0	6.30	14g	-0370A	-0370B	-0370C	361.00
M7.0 x 1.00	17.0	66.0	7.10	21g	-0390A	-0390B	-0390C	489.00
M8.0 x 1.25	22.0	72.0	8.00	23g	-0410A	-0410B	-0410C	368.00
M9.0 x 1.25	22.0	72.0	9.00	32g	-0420A	-0420B	-0420C	603.00
M10.0 x 1.50	24.0	80.0	10.00	39g	-0450A	-0450B	-0450C	376.00
M11.0 x 1.50	20.0	85.0	8.00	41g	-0460A	-0460B	-0460C	1391.00
M12.0 x 1.75	23.0	89.0	9.00	48g	-0480A	-0480B	-0480C	567.00
M14.0 x 2.00	25.0	95.0	11.20	76g	-0510A	-0510B	-0510C	670.00
M16.0 x 2.00	25.0	102.0	12.50	100g	-0530A	-0530B	-0530C	773.00
M18.0 x 2.50	30.0	112.0	14.00	133g	-0550A	-0550B	-0550C	1133.00
M20.0 x 2.50	30.0	112.0	14.00	144g	-0570A	-0570B	-0570C	1324.00
M22.0 x 2.50	30.0	118.0	16.00	194g	-0590A	-0590B	-0590C	1540.00
M24.0 x 3.00	36.0	130.0	18.00	260g	-0610A	-0610B	-0610C	1854.00
M27.0 x 3.00	36.0	135.0	20.00	256g	-0640A	-0640B	-0640C	3399.00
M30.0 x 3.50	42.0	138.0	20.00	380g	-0660A	-0660B	-0660C	3075.00
M33.0 x 3.50	42.0	151.0	22.40	512g	-0680A	-0680B	-	5665.00
M36.0 x 4.00	48.0	162.0	25.00	646g	-0690A	-0690B	-0690C	4738.00
M39.0 x 4.00	48.0	170.0	28.00	700g	-0700A	-0700B	-0700C	14100.00
M42.0 x 4.50	54.0	170.0	28.00	915g	-0710A	-0710B	-0710C	14111.00
M48.0 x 4.50	60.0	187.0	31.50	1340g	-	-0730B	-0730C	19999.00

Metric Coarse HSS Ground Thread Dies

BS 1127

For use in diestocks to produce external
screw threads.



Size - Pitch (mm)	Outside Diameter	Thickness	Weight each	Order Code SHR-086	Price/1 TB
M1.6 x 0.35	13/16"	1/4"	17g	-0090K	3796.00
M2.0 x 0.40	13/16"	1/4"	13g	-0110K	1411.00
M2.5 x 0.45	13/16"	1/4"	12g	-0130K	1411.00
M3.0 x 0.50	13/16"	1/4"	14g	-0140K	824.00
M3.5 x 0.60	13/16"	1/4"	13g	-0150K	901.00
M4.0 x 0.70	13/16"	1/4"	13g	-0160K	824.00
M4.0 x 0.70	1"	3/8"	25g	-0410K	1236.00
M5.0 x 0.80	1"	3/8"	24g	-0430K	1339.00
M5.0 x 0.80	13/16"	1/4"	12g	-0180K	824.00
M6.0 x 1.00	13/16"	1/4"	12g	-0200K	824.00
M6.0 x 1.00	1"	3/8"	27g	-0440K	979.00
M6.0 x 1.00	1 5/16"	7/16"	54g	-0590K	1545.00
M7.0 x 1.00	13/16"	1/4"	11g	-0210K	979.00
M8.0 x 1.25	1"	3/8"	27g	-0460K	979.00
M8.0 x 1.25	1 5/16"	7/16"	62g	-0610K	1442.00
M8.0 x 1.25	1 1/2"	1/2"	85g	-0790K	1947.00
M9.0 x 1.25	1"	3/8"	26g	-0470K	1246.00
M9.0 x 1.25	1 5/16"	3/8"	26g	-0620K	3700.00
M10.0 x 1.50	1"	3/8"	26g	-0480K	979.00
M10.0 x 1.50	1 5/16"	7/16"	51g	-0630K	1442.00
M10.0 x 1.50	1 1/2"	1/2"	85g	-0810K	1947.00
M11.0 x 1.50	1 5/16"	7/16"	54g	-0640K	1761.00
M12.0 x 1.75	1 5/16"	7/16"	54g	-0650K	1442.00
M12.0 x 1.75	1 1/2"	1/2"	78g	-0830K	1947.00
M12.0 x 1.75	2"	5/8"	156g	-1020K	2575.00
M14.0 x 2.00	1 5/16"	7/16"	50g	-0660K	1761.00
M14.0 x 2.00	1 1/2"	1/2"	73g	-0840K	1947.00
M14.0 x 2.00	2"	5/8"	167g	-1030K	1947.00
M16.0 x 2.00	1 1/2"	1/2"	72g	-0850K	1947.00
M16.0 x 2.00	2"	5/8"	167g	-1040K	1947.00
M18.0 x 2.50	1 1/2"	1/2"	96g	-0860K	2163.00
M18.0 x 2.50	2"	5/8"	160g	-1050K	2163.00
M20.0 x 2.50	1 1/2"	1/2"	66g	-0870K	2163.00
M20.0 x 2.50	2"	5/8"	160g	-1060K	2163.00
M22.0 x 2.50	2"	5/8"	157g	-1070K	2472.00
M24.0 x 3.00	2"	5/8"	152g	-1080K	2472.00
M27.0 x 3.00	2"	5/8"	180g	-1090K	5459.00
M30.0 x 3.50	3"	7/8"	471g	-1220K	5459.00
M36.0 x 4.00	3"	7/8"	-	-1240K	11500.00

Metric Coarse HSS Ground Thread Die Nuts

BS 1127

For use with spanners to clean
and repair existing external
screw threads.

METRIC COARSE HSS



Size - Pitch (mm)	Outside Diameter	Thickness	Weight each	Order Code SHR-086	Price/1 TB
M3.0 x 0.50	0.71"	1/4"	11g	-1310K	824.00
M4.0 x 0.70	0.71"	1/4"	10g	-1330K	824.00
M5.0 x 0.80	0.71"	1/4"	11g	-1350K	876.00
M6.0 x 1.00	0.71"	1/4"	10g	-1360K	979.00
M7.0 x 1.00	0.82"	5/16"	16g	-1440K	2112.00
M8.0 x 1.25	0.82"	5/16"	16g	-1450K	1030.00
M9.0 x 1.25	0.92"	3/8"	25g	-1490K	2678.00
M10.0 x 1.50	0.92"	3/8"	24g	-1500K	1288.00
M11.0 x 1.50	1.01"	7/16"	-	-1540K	3750.00
M12.0 x 1.75	1.10"	1/2"	36g	-1570K	1288.00
M14.0 x 2.00	1.30"	5/8"	45g	-1600K	1339.00
M16.0 x 2.00	1.30"	5/8"	48g	-1610K	1803.00
M18.0 x 2.50	1.48"	1 1/16"	106g	-1640K	2163.00
M20.0 x 2.50	1.48"	1 1/16"	140g	-1650K	2575.00
M22.0 x 2.50	1.67"	1 1/4"	147g	-1690K	3605.00
M24.0 x 3.00	2.05"	1 5/16"	274g	-1720K	3760.00
M30.0 x 3.50	2.22"	1 1/4"	330g	-1760K	5665.00
M36.0 x 4.00	2.76"	1 1/4"	489g	-1790K	9013.00



Metric Coarse HSS Ground Thread Taps



Spiral Point/Gun Nose


METRIC COARSE HSS


Size - Pitch (mm)	Shank Dia.	A/F Square	Weight Each	Order Code SHR-085	Price/1 TB
M1.6 x 0.35	2.50	2.00	9g	-0130E	3300.00
M2.0 x 0.40	2.50	2.00	9g	-0160E	1650.00
M2.5 x 0.45	2.80	2.24	9g	-0200E	1246.00
M3.0 x 0.50	3.15	2.50	12g	-0230E	599.00
M3.5 x 0.60	3.55	2.80	12g	-0260E	700.00
M4.0 x 0.70	4.00	3.15	18g	-0280E	435.00
M4.5 x 0.75	4.50	3.55	18g	-0310E	1190.00
M5.0 x 0.80	5.00	4.00	18g	-0330E	453.00
M6.0 x 1.00	6.30	5.00	45g	-0370E	464.00
M7.0 x 1.00	7.10	5.60	54g	-0390E	1473.00
M8.0 x 1.25	8.00	6.30	72g	-0410E	906.00
M10.0 x 1.50	10.00	8.00	120g	-0450E	1133.00
M12.0 x 1.75	9.00	7.10	149g	-0480E	1586.00
M14.0 x 2.00	11.20	9.00	233g	-0510E	2379.00
M16.0 x 2.00	12.50	10.00	307g	-0530E	2379.00
M18.0 x 2.50	14.00	11.20	427g	-0550E	4079.00
M20.0 x 2.50	14.00	11.20	459g	-0570E	3966.00
M22.0 x 2.50	16.00	12.50	599g	-0590E	5268.00
M24.0 x 3.00	18.00	14.00	826g	-0610E	6005.00

Straight Flute Long Series

Also Available in UNC/F and BSW/F Thread Forms
METRIC COARSE HSS


Size - Pitch (mm)	Thread Length	Overall Length	Shank Diameter	Weight Each	Taper		Second		Plug		
					Order Code	Price/1 TB	Order Code	Price/1 TB	Order Code	Price/1 TB	
M3.0 x 0.50	11	66	2.24	5g	SHR-085	-0230G	1869.00	SHR-085	-0230H	-0230J	1869.00
M4.0 x 0.70	13	73	3.15	9g		-0280G	1643.00		-0280H	-0280J	1643.00
M5.0 x 0.80	16	79	4.00	13g		-0330G	1869.00		-0330H	-0330J	1869.00
M6.0 x 1.00	19	89	4.50	16g		-0370G	1813.00		-0370H	-0370J	1813.00
M8.0 x 1.25	22	97	6.30	30g		-0410G	1869.00		-0410H	-0410J	1869.00
M10.0 x 1.50	24	108	8.00	48g		-0450G	2436.00		-0450H	-0450J	2436.00
M12.0 x 1.75	29	119	9.00	68g		-0480G	3399.00		-0480H	-0480J	3399.00
M14.0 x 2.00	30	127	11.20	102g		-0510G	4475.00		-0510H	-0510J	4475.00
M16.0 x 2.00	32	137	12.50	130g		-0530G	5150.00		-0530H	-0530J	5150.00
M20.0 x 2.50	37	149	14.00	198g		-			-0570H	-0570J	8214.00
M24.0 x 3.00	45	172	18.00	151g		-0610G	8498.00		-0610H	-0610J	8498.00

Metric Coarse Left Hand Straight Flute Ground Thread Taps

ISO 529

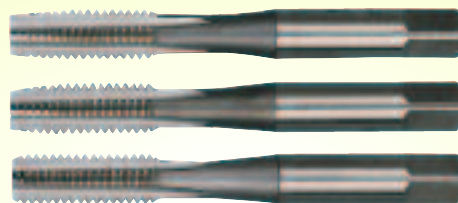
LEFT HAND
NEW
METRIC COARSE HSS


Straight Flute Individual Sizes



Size - Pitch (mm)	Taper Order Code SHR-087	Second Order Code SHR-087	Plug Order Code SHR-087	Price/1 TB
M3.0 x 0.50	-0230L	-0230M	-0230N	1320.00
M4.0 x 0.70	-0280L	-0280M	-0280N	1210.00
M5.0 x 0.80	-0330L	-0330M	-0330N	1265.00
M6.0 x 1.00	-0370L	-0370M	-0370N	1320.00
M8.0 x 1.25	-0410L	-0410M	-0410N	1430.00
M10.0 x 1.50	-0450L	-0450M	-0450N	1870.00
M12.0 x 1.75	-0480L	-0480M	-0480N	2640.00
M14.0 x 2.00	-0510L	-0510M	-0510N	3300.00
M16.0 x 2.00	-0530L	-0530M	-0530N	3960.00
M20.0 x 2.50	-0570L	-0570M	-0570N	6300.00

Sets of Three
1 each, taper,
second and plug lead.

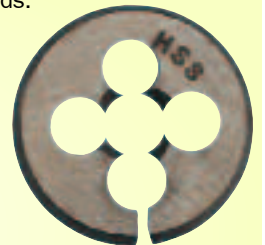
LEFT HAND
METRIC COARSE HSS


Square AF	Tap Drill Size	Set of 3 Order Code SHR-087	Price/1 TB
2.50	2.40	-0230P	4070.00
3.15	3.30	-0280P	3630.00
4.00	4.20	-0330P	3850.00
5.00	5.00	-0370P	4015.00
6.30	6.80	-0410P	4400.00
8.00	8.50	-0450P	5665.00
7.10	10.20	-0480P	7975.00
9.00	12.00	-0510P	9625.00
10.00	14.00	-0530P	11935.00
11.20	17.50	-0570P	18000.00

Metric HSS Left Hand Dies

BS 1127

For use in diestocks to produce
external screw threads.

EXTENDED RANGE

LEFT HAND
METRIC COARSE HSS

Size - Pitch (mm)	Outside Diameter	Order Code SHR-087	Offer Price/1
M3.0 x 0.50	13/16"	-2320K	3400.00
M4.0 x 0.70	13/16"	-2340K	3400.00
M5.0 x 0.80	13/16"	-2360K	3400.00
M6.0 x 1.00	13/16"	-2380K	3400.00
M6.0 x 1.00	1"	-2530K	2600.00
M8.0 x 1.25	1"	-2550K	4100.00
M10.0 x 1.50	1"	-2570K	4100.00
M12.0 x 1.75	1 5/16"	-2740K	5950.00
M16.0 x 2.00	1 1/2"	-2970K	6999.00

PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR

GROUP 085 HSS TAPS & DIES



Metric Fine HSS Ground Thread Taps

ISO 529
Straight Flute Individual Sizes

(1) Diameter and pitch not mentioned in ISO.



EXTENDED RANGE

Size - Pitch (mm)	Thread Length	Overall Length	Shank Diameter	Weight each	Taper	Second	Plug	Price/1 TB
					Order Code SHR-085	Order Code SHR-085	Order Code SHR-085	
Metric Fine								
M3.0 x 0.35	11.0	48.0	3.15	3g	-0220A	-0220B	-0220C	824.00
M3.5 x 0.35	13.0	50.0	3.55	4g	-0250A	-0250B	-0250C	2493.00
M4.0 x 0.50	13.0	53.0	4.00	6g	-0270A	-0270B	-0270C	577.00
M5.0 x 0.50	16.0	58.0	5.00	9g	-0320A	-0320B	-0320C	582.00
M6.0 x 0.75	19.0	66.0	6.30	17g	-0360A	-0360B	-0360C	448.00
M8.0 x 1.00 ⁽¹⁾	19.0	72.0	8.00	21g	-0400A	-0400B	-0400C	670.00
M10.0 x 1.25 ⁽¹⁾	20.0	80.0	10.00	45g	-0440A	-0440B	-0440C	670.00
M12.0 x 1.25	29.0	89.0	9.00	46g	-0470A	-0470B	-0470C	953.00
M14.0 x 1.00	30.0	95.0	11.20	71g	-0485A	-0485B	-0485C	2663.00
M14.0 x 1.50	30.0	95.0	11.20	76g	-0500A	-0500B	-0500C	953.00
M16.0 x 1.50	32.0	102.0	12.50	101g	-0520A	-0520B	-0520C	2096.00
M18.0 x 1.50	45.0	95.0	14.00	132g	-0540A	-0540B	-0540C	1494.00
M18.0 x 2.00	37.0	112.0	14.00	138g	-0545A	-0545B	-0545C	3919.00
M20.0 x 1.50	37.0	112.0	14.00	144g	-0560A	-0560B	-0560C	1803.00
M22.0 x 1.50	38.0	118.0	16.00	86g	-0580A	-0580B	-0580C	2421.00
M24.0 x 2.00	45.0	130.0	18.00	250g	-0600A	-0600B	-0600C	3044.00
M27.0 x 2.00	37.0	127.0	20.00	320g	-0630A	-0630B	-0630C	8837.00
M30.0 x 1.50	37.0	127.0	20.00	398g	-0645A	-0645B	-0645C	7983.00
M30.0 x 2.00	37.0	127.0	20.00	366g	-0650A	-0650B	-0650C	5413.00
ISO Metric Special Pitch								
M2.0 x 0.45	8.0	41.0	2.50	3g	-0170A	-0170B	-0170C	1586.00
M6.0 x 0.50	15.0	55.0	6.00	7g	-0355A	-0355B	-0355C	979.00
M8.0 x 0.50	15.0	55.0	6.20	27g	-	-	-0393C	700.00
M8.0 x 0.75	19.0	72.0	8.00	22g	-0395A	-0395B	-0395C	706.00
M10.0 x 0.75	20.0	80.0	10.00	36g	-0425A	-0425B	-0425C	2209.00
M10.0 x 1.00 ⁽¹⁾	24.0	80.0	10.00	38g	-0430A	-0430B	-0430C	675.00
M12.0 x 1.00	29.0	89.0	9.00	44g	-0465A	-0465B	-0465C	1427.00
M12.0 x 1.50	29.0	89.0	9.00	48g	-0475A	-0475B	-0475C	979.00
M14.0 x 1.25	30.0	95.0	11.20	72g	-0490A	-0490B	-0490C	1957.00
M16.0 x 1.00	32.0	102.0	12.50	96g	-0515A	-0515B	-0515C	2833.00
M18.0 x 1.00	37.0	112.0	14.00	130g	-0535A	-0535B	-0535C	4311.00
M20.0 x 1.00	37.0	112.0	14.00	146g	-0555A	-0555B	-0555C	4702.00
M20.0 x 2.00	37.0	112.0	14.00	132g	-0565A	-0565B	-0565C	4702.00
M24.0 x 1.50	45.0	130.0	18.00	254g	-0595A	-0595B	-0595C	5382.00
M25.0 x 1.50	45.0	130.0	18.00	260g	-0620A	-0620B	-0620C	5778.00
M32.0 x 1.50	37.0	137.0	22.40	488g	-0670A	-0670B	-0670C	8755.00

Left Hand
Also
Available

METRIC FINE



Sets of Three

1 each, taper, second and plug lead.

Square AF	Tap Drill Size	Set of 3	Price/1 TB
		Order Code SHR-085	
Metric Fine			
2.50	2.65	-0220D	2163.00
2.80	3.15	-0250D	7313.00
3.15	3.50	-0270D	1730.00
4.00	4.50	-0320D	1648.00
5.00	5.20	-0360D	1288.00
6.30	7.00	-0400D	1906.00
8.00	8.80	-0440D	1957.00
7.10	10.80	-0470D	2781.00
9.00	13.00	-0485D	7725.00
9.00	12.50	-0500D	2833.00
10.00	14.50	-0520D	6283.00
11.20	16.80	-0540D	4429.00
11.20	16.00	-0545D	10583.00
11.20	18.50	-0560D	5408.00
12.50	20.50	-0580D	7262.00
14.00	22.50	-0600D	9131.00
16.00	25.00	-0630D	25956.00
16.00	28.50	-0645D	23896.00
16.00	28.00	-0650D	16223.00
ISO Metric Special Pitch			
2.00	1.55	-0170D	4500.00
5.00	5.50	-0355D	2833.00
-	-	-	-
6.34	7.20	-0395D	2060.00
8.00	9.20	-0425D	6592.00
8.00	9.00	-0430D	1957.00
7.10	11.00	-0465D	4223.00
7.10	10.50	-0475D	2833.00
9.00	12.80	-0490D	5459.00
10.00	15.00	-0515D	8343.00
11.20	17.00	-0535D	12875.00
11.20	19.00	-0555D	13905.00
11.20	18.00	-0565D	14008.00
14.00	22.50	-0595D	16145.00
14.00	23.50	-0620D	17335.00

Metric Fine HSS Ground Thread Dies

BS 1127

For use in diestocks to produce external screw threads.



METRIC FINE

HSS

Size - Pitch (mm)	Outside Diameter	Thickness	Weight each	Order Code SHR-086	Price/1 TB
Metric Fine					
M4.0 x 0.50	13/16"	1/4"	12g	-1930K	2323.00
M5.0 x 0.50	13/16"	1/4"	12g	-1950K	2323.00
M6.0 x 0.50	13/16"	1/4"	12g	-0190K	2323.00
M6.0 x 0.75	13/16"	1/4"	12g	-1980K	2323.00
M8.0 x 1.00	1"	3/8"	27g	-2040K	2719.00
M10.0 x 1.25	1"	3/8"	25g	-2080K	2719.00
M10.0 x 1.25	1 5/16"	7/16"	53g	-2130K	4702.00
M12.0 x 1.25	1 5/16"	7/16"	53g	-2150K	4079.00
M14.0 x 1.00	1 5/16"	7/16"	48g	-0655K	1947.00
M14.0 x 1.50	1 5/16"	7/16"	49g	-2180K	4079.00
M16.0 x 1.50	1 1/2"	1/2"	73g	-2220K	4790.00
M18.0 x 1.00	2"	5/8"	82g	-1045K	2163.00
M18.0 x 1.50	1 1/2"	1/2"	74g	-2230K	4790.00
M20.0 x 1.50	1 1/2"	1/2"	66g	-2250K	4475.00
M20.0 x 1.50	2"	5/8"	154g	-2330K	7025.00
M22.0 x 1.50	2"	5/8"	178g	-2350K	7025.00
M24.0 x 2.00	2"	5/8"	153g	-2380K	7025.00
M30.0 x 2.00	3"	7/8"	260g	-1216K	5665.00
ISO Metric Special Pitch					
M4.0 x 0.75	13/16"	1/4"	12g	-0165K	824.00
M4.5 x 0.75	13/16"	1/4"	12g	-0170K	2050.00
M5.0 x 0.90	13/16"	1/4"	12g	-0185K	1339.00
M8.0 x 0.75	1"	3/8"	27g	-2030K	3512.00
M10.0 x 1.00	1"	3/8"	25g	-2070K	2719.00
M12.0 x 1.00	1 5/16"	7/16"	50g	-2140K	4079.00
M12.0 x 1.50	1 5/16"	7/16"	53g	-2160K	4079.00
M14.0 x 1.25	1 5/16"	7/16"	48g	-2170K	4079.00
M16.0 x 1.00	1 1/2"	1/2"	68g	-2210K	4790.00
M20.0 x 1.00	1 1/2"	1/2"	64g	-2240K	4790.00
M24.0 x 1.50	2"	5/8"	145g	-2370K	7025.00
M25.0 x 1.50	2"	5/8"	145g	-2390K	7025.00
M30.0 x 1.50	3"	7/8"	230g	-1215K	5562.00

Metric Fine HSS Ground Thread Die Nuts

BS 1127

For use with spanners to clean and repair existing external screw threads.

METRIC FINE

HSS



Group 582



Size - Pitch (mm)	Width	Thickness	Weight each	Order Code SHR-086	Price/1 TB
Metric Fine					
M3.0 x 0.35	0.71"	1/4"	10g	-2480K	6750.00
M6.0 x 0.75	0.71"	1/4"	10g	-2550K	2379.00
M8.0 x 1.00	0.82"	5/16"	16g	-2590K	3512.00
M10.0 x 1.25	0.92"	3/8"	24g	-2640K	4079.00
M12.0 x 1.25	1.10"	1/2"	46g	-2660K	4929.00
M14.0 x 1.50	1.30"	5/8"	77g	-2770K	6123.00
M16.0 x 1.50	1.30"	5/8"	71g	-2790K	6118.00
M18.0 x 1.50	1.48"	1 1/16"	102g	-2810K	7478.00
M20.0 x 1.50	1.48"	1 1/16"	92g	-2830K	7478.00
M22.0 x 1.50	1.67"	1 3/16"	146g	-2860K	8554.00
M24.0 x 2.00	2.05"	1 5/16"	249g	-2890K	12360.00
ISO Metric Special Pitch					
M8.0 x 0.75				-2580K	3450.00
M10.0 x 0.75	0.92"	3/8"	22g	-1495K	1288.00
M10.0 x 1.00	0.92"	3/8"	22g	-2630K	4079.00
M12.0 x 1.00	1.10"	1/2"	35g	-2650K	4929.00
M12.0 x 1.50	1.10"	1/2"	52g	-2670K	4929.00
M14.0 x 1.25	1.30"	5/8"	70g	-2760K	6150.00
M16.0 x 1.00	1.30"	5/8"	70g	-2780K	4702.00
M20.0 x 1.00	1.48"	1 1/16"	95g	-2820K	5835.00
M20.0 x 2.00	1.48"	1 1/16"	99g	-2840K	5835.00
M24.0 x 1.50	2.05"	1 5/16"		-2880K	12250.00



Metric Fine HSS Ground Thread Taps

HSS

ISO 529

Spiral Point/Gun Nose

METRIC FINE

† = Metric Spark Plug
* = Metric Conduit



Size - Pitch (mm)	Shank Diameter	A/F Square	Weight each	Order Code SHR-085	Price/1 TB
Metric Fine					
M4.0 x 0.50	4.00	3.15	8g	-0270E	803.00
M5.0 x 0.50	5.00	4.00	10g	-0320E	1869.00
M6.0 x 0.75	6.30	5.00	27g	-0360E	1303.00
M8.0 x 1.00	8.00	6.30	23g	-0400E	1540.00
M10.0 x 1.25	10.00	8.00	40g	-0440E	2606.00
M12.0 x 1.25	9.00	7.10	48g	-0470E	3456.00
M14.0 x 1.50	11.20	9.00	78g	-0500E	3760.00
M16.0 x 1.50	12.50	10.00	82g	-0520E	3002.00
M18.0 x 1.50	14.00	11.20	132g	-0540E	5871.00
M20.0 x 1.50	14.00	11.20	159g	-0560E	8300.00
M22.0 x 1.50	16.00	12.50	185g	-0580E	8214.00
ISO Metric Special Pitch					
M10.0 x 1.00†	10.00	8.00	40g	-0430E	1983.00
M12.0 x 1.50	9.00	7.10	40g	-0475E	2323.00

Spiral Flute

† = Metric Spark Plug
* = Metric Conduit

METRIC FINE HSS



Size - Pitch (mm)	Shank Diameter	A/F Square	Weight each	Order Code SHR-085	Price/1 TB
Metric Fine					
M4.0 x 0.50	4.00	3.15	6g	-0270F	1133.00
M5.0 x 0.50	5.00	4.00	10g	-0320F	2379.00
M6.0 x 0.75	6.30	5.00	14g	-0360F	1756.00
M8.0 x 1.00	8.00	6.30	22g	-0400F	2039.00
M10.0 x 1.25	10.00	8.00	37g	-0440F	3116.00
M12.0 x 1.25	9.00	7.10	47g	-0470F	3739.00
M14.0 x 1.50	11.20	9.00	75g	-0500F	4815.00
M16.0 x 1.50	12.50	10.00	82g	-0520F	4985.00
M18.0 x 1.50†	14.00	11.00	148g	-0540F	7004.00
M20.0 x 1.50*	14.00	11.20	131g	-0560F	8549.00
M22.0 x 1.50	16.00	12.50	184g	-0580F	9687.00
ISO Metric Special Pitch					
M6.0 x 0.50	6.30	5.00	14g	-0355F	1756.00
M10.0 x 1.00†	10.00	8.00	38g	-0430F	2436.00
M12.0 x 1.50	9.00	7.10	48g	-0475F	3342.00
M14.0 x 1.25†	11.20	9.00		-0490F	4999.00

HSS Ground Flute Tap & Drill Set

Industrial quality. Ground flute, blue finish.

Supplied in indexing metal cases.

Manufactured to BS328 : Part 1 : 1986, DIN 338N & ANSI B94 -11M.



METRIC COARSE

HSS

28
PIECES

METRIC Taps M3 ~ M12
+ Tapping Drills
2.5 ~ 10.2

28 Piece Tap & Drill Set
Taps (Taper, Second and Bottom)

M3 M4	M5 M6	M8 M10	M12
(mm) 2.5	3.3 4.2	5.0 6.8	8.5 10.2

Number of Pieces	Order Code SHR-025	Price/1 TB
28	-9960K	8250.00

Machine Tapping Speeds

Group	Materials	Hardness	Tensile	Cutting	Hole Type	Tap Type
	Colour defines similar machineability	Brinell HB	Rockwell HRC	Strength N/mm²	Speed M/min	
Carbon	1.1 Mild Steel	<130	-	<400	15 - 20	Various Through Hole Blind Hole
	1.2 Case Hardening & Structural Steel	<200	-	<700	15 - 20	
	1.3 Medium Carbon Steel	<260	<26	<850	15 - 20	
Alloy	1.4 Low Alloy Steel	<260	<26	<850	10 - 15	Through Hole Blind Hole
	1.5 Medium to High Alloy Steel	260 - 340	26 - 36	850 - 1200	6 - 10	
	1.6 Heat Treated Steel	340 - 450	36 - 48	1200 - 1500	4 - 6	
Stainless Steels	2.1 Free Machining Stainless	<230	<20	<800	8 - 10	Through Hole Blind Hole
	2.2 Medium Strength Austenitic Stainless	<290	<30	<1000	6 - 8	
	2.3 Difficult to Machine, Duplex Stainless	<340	<36	<1200	4 - 6	
Cast Iron	3.1 Grey Cast Iron - Soft	<180	-	-	18 - 25	Blind & Through Hole
	3.2 Grey Cast Iron - Hard	180 - 300	-	-	15 - 18	
	3.3 Malleable & Nodular Iron	<220	-	-	8 - 12	
Aluminium	3.4 Malleable & Nodular Iron - Hard	200 - 300	-	-	4 - 6	Through Hole
	7.1 Unalloyed Aluminium - Zinc - Magnesium	-	-	<150	20 - 25	Blind & Through Hole
	7.2 Aluminium Alloy less than 5% Si	-	-	150 - 300	17 - 22	
	7.3 Aluminium Alloy 5% to 10% Si	-	-	200 - 500	15 - 20	
	7.4 Aluminium Alloy above 10% Si	-	-	200 - 500	12 - 15	Blind & Through Hole

Power Requirements For Taps

Many factors are involved when considering power requirements for a particular application. Factors such as the choice of tap design, tapping drill size, depth of threaded hole, lubricant and tapping speed all play a part in determining these requirements.

To estimate the power requirements for varying percentage thread depths, the following general formula and constants may be used:

$$\text{Tapping Power (KW)} = \frac{C \times D \times p^2 \times N \times K}{10000}$$

$$\text{HP} = \text{KW} \times 1.341$$

Where **D** = Thread Diameter (mm)**P** = Pitch (mm)**N** = Spindle speed RPM**K** = Material Factor Constant**C** = A constant based on % thread depth, as follows:

C	% Thread Depth
0.231	60
0.326	75
0.433	80



**UNC (Unified Coarse)
HSS Ground Thread Taps**

ISO 529

**Left Hand
Also
Available**

NEW



Straight Flute Individual Sizes

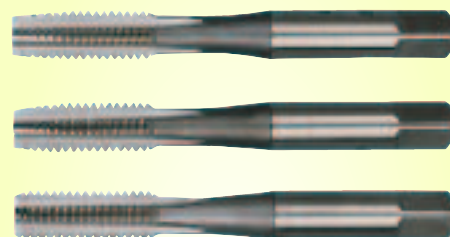
Size - Pitch	Thread Length	Overall Length	Shank Diameter	Weight each	Taper Order Code SHR-085	Second Order Code SHR-085	Plug Order Code SHR-085	Price/1 TB
No.1 x 64	8.0	41.0	2.50	3g	-0760A	-	-0760C	2900.00
No.2 x 56	9.5	44.5	2.80	3g	-0770A	-0770B	-0770C	1333.00
No.3 x 48	9.5	44.5	2.80	3g	-	-	-0780C	1999.00
No.4 x 40	11.0	48.0	3.15	3g	-0790A	-0790B	-0790C	927.00
No.5 x 40	11.0	48.0	3.15	4g	-0800A	-0800B	-0800C	885.00
No.6 x 32	13.0	50.0	3.55	4g	-0810A	-0810B	-0810C	700.00
No.8 x 32	13.0	53.0	4.50	7g	-0820A	-0820B	-0820C	650.00
No.10 x 24	16.0	58.0	5.00	8g	-0830A	-0830B	-0830C	727.00
No.12 x 24	17.0	62.0	5.60	11g	-0840A	-0840B	-0840C	959.00
1/4" x 20	19.0	66.0	6.30	14g	-0850A	-0850B	-0850C	684.00
5/16" x 18	22.0	72.0	8.00	22g	-0860A	-0860B	-0860C	795.00
3/8" x 16	24.0	80.0	10.00	38g	-0870A	-0870B	-0870C	894.00
7/16" x 14	25.0	85.0	8.00	38g	-0880A	-0880B	-0880C	1425.00
1/2" x 13	29.0	89.0	9.00	50g	-0890A	-0890B	-0890C	1258.00
9/16" x 12	30.0	95.0	11.20	75g	-0900A	-0900B	-0900C	2147.00
5/8" x 11	32.0	102.0	12.50	82g	-0910A	-0910B	-0910C	1917.00
3/4" x 10	37.0	112.0	14.00	142g	-0920A	-0920B	-0920C	2795.00
7/8" x 9	38.0	118.0	16.00	193g	-0930A	-0930B	-0930C	4212.00
1" x 8	45.0	130.0	18.00	323g	-0940A	-0940B	-0940C	4860.00
1 1/8" x 7	48.0	138.0	20.00	373g	-0950A	-0950B	-	8100.00
1 1/4" x 7	51.0	151.0	22.40	478g	-0960A	-0960B	-0960C	6750.00
1 3/8" x 6	57.0	162.0	25.00	577g	-	-0970B	-	12999.00
1 1/2" x 6	60.0	170.0	28.00	782g	-0980A	-	-0980C	8900.00

Sets of Three

1 each, taper, second and plug lead.



UNC HSS



Square AF	Tap Drill Size	Set of 3 Order Code SHR-085	Price/1 TB
2.00	1.55	-0760D	7999.00
2.24	1.85	-0770D	3500.00
2.24	2.10	-	-
2.50	2.35	-0790D	3059.00
2.50	2.65	-0800D	2500.00
2.80	2.85	-0810D	1999.00
3.55	3.50	-0820D	1800.00
4.00	3.90	-0830D	2185.00
4.50	4.50	-0840D	2880.00
5.00	5.10	-0850D	2048.00
6.30	6.60	-0860D	2385.00
8.00	8.00	-0870D	2683.00
6.30	9.40	-0880D	4275.00
7.10	10.80	-0890D	3776.00
9.00	12.20	-0900D	6450.00
10.00	13.50	-0910D	5800.00
11.20	16.50	-0920D	8400.00
12.50	19.50	-0930D	12650.00
14.00	22.25	-0940D	14600.00
16.00	25.00	-	-
18.00	28.00	-0960D	19950.00
20.00	30.75	-	-
22.40	34.00	-0980D	25999.00

**UNC (Unified Coarse)
HSS Ground Thread Dies**

BS 1127

For use in diestocks to produce external screw threads.

UNC HSS



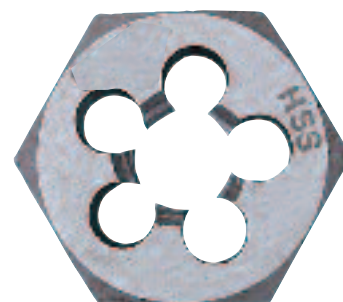
Size - Pitch	Outside Diameter	Thickness	Weight each	Order Code SHR-086	Price/1 TB
No.2 x 56	13/16"	1/4"	12g	-2980K	3200.00
No.12 x 24	13/16"	1/4"	12g	-3050K	2350.00
No.4 x 40	13/16"	1/4"	12g	-3000K	1169.00
No.6 x 32	13/16"	1/4"	7g	-3020K	1169.00
No.8 x 32	13/16"	1/4"	13g	-3030K	1169.00
No.10 x 24	13/16"	1/4"	17g	-3040K	1391.00
1/4" x 20	13/16"	3/8"	12g	-3060K	927.00
1/4" x 20	1"	3/8"	26g	-3220K	1097.00
1/4" x 20	1 5/16"	7/16"	46g	-3340K	1978.00
5/16" x 18	1"	3/8"	27g	-3230K	1097.00
5/16" x 18	1 5/16"	7/16"	47g	-3350K	1978.00
3/8" x 16	1"	3/8"	24g	-3240K	2431.00
3/8" x 16	1 5/16"	7/16"	62g	-3360K	1978.00
7/16" x 14	1"	3/8"	27g	-3250K	1607.00
7/16" x 14	1 5/16"	7/16"	51g	-3370K	1978.00
1/2" x 13	1 5/16"	7/16"	52g	-3380K	1978.00
1/2" x 13	1 1/2"	1/2"	79g	-3480K	2431.00
1/2" x 13	2"	5/8"	74g	-3620K	7850.00
9/16" x 12	1 5/16"	7/16"	37g	-3390K	3502.00
9/16" x 12	1 1/2"	1/2"	71g	-3490K	5999.00
5/8" x 11	1 1/2"	1/2"	71g	-3500K	2575.00
3/4" x 10	1 1/2"	1/2"	70g	-3510K	2678.00
7/8" x 9	2"	5/8"	149g	-3660K	2781.00
1" x 8	2"	5/8"	157g	-3670K	2781.00

**UNC (Unified Coarse)
HSS Ground Thread Die Nuts**

BS 1127

For use with spanners to clean and repair existing external screw threads.

UNC HSS



Size - Pitch	Width	Thickness	Weight each	Order Code SHR-086	Price/1 TB
1/4" x 20	0.71"	1/4"	13g	-3920K	2379.00
5/16" x 18	0.82"	5/16"	12g	-3950K	2833.00
3/8" x 16	0.92"	3/8"	11g	-3970K	3229.00
7/16" x 14	1.01"	7/16"	33g	-3990K	4475.00
1/2" x 13	1.10"	1/2"	45g	-4010K	3909.00
1/2" x 13	1.10"	1/2"	44	-4020K	5665.00
5/8" x 11	1.30"	5/8"	72g	-4040K	4872.00
3/4" x 10	1.48"	11/16"	102g	-4070K	6062.00
1" x 8	2.05"	1 5/16"	269g	-4110K	9914.00



**UNC (Unified Coarse)
HSS Ground Thread Taps**

ISO 529

Spiral Point/Gun Nose

UNC HSS

**EXTENDED
RANGE**



Size - Pitch	Shank Dia.	A/F Square	Weight each	Order Code SHR-085	Price/1 TB
No.1 x 64	2.50	2.00	1g	-0760E	3999.00
No.2 x 56	2.80	2.24	1g	-0770E	999.00
No.4 x 40	3.15	2.50	1g	-0790E	1800.00
No.5 x 40	3.15	2.50	2g	-0800E	1999.00
No.6 x 32	3.55	2.80	2g	-0810E	1150.00
No.8 x 32	4.50	3.55	4g	-0820E	1150.00
No.10 x 24	5.00	4.00	5g	-0830E	1226.00
No.12 x 24	5.60	4.50	8g	-0840E	1620.00
1/4" x 20	6.30	5.00	11g	-0850E	1065.00
5/16" x 18	8.00	6.30	17g	-0860E	1338.00
3/8" x 16	10.00	8.00	33g	-0870E	1501.00
7/16" x 14	8.00	6.30	38g	-0880E	2401.00
1/2" x 13	9.00	7.10	44g	-0890E	2124.00
9/16" x 12	11.20	9.00	62g	-0900E	3125.00
5/8" x 11	12.50	10.00	91g	-0910E	3233.00
3/4" x 10	14.00	11.20	130g	-0920E	4703.00
7/8" x 9	16.00	12.20	173g	-0930E	7100.00
1" x 8	18.00	14.00	294g	-0940E	8200.00

Fluteless

UNC HSS

NEW



Size - Pitch	Shank Diameter	Weight each	Order Code SHR-085	Price/1 TB
No.4 x 40	3.15	2g	-0790K	2575.00
No.6 x 32	3.55	3g	-0810K	2575.00
No.8 x 32	4.50	8g	-0820K	2678.00
No.10 x 24	5.00	9g	-0830K	1750.00
1/4" x 20	6.30	11g	-0850K	2094.00
3/8" x 16	10.00	41g	-0870K	3021.00

Spiral Flute

UNC HSS

**EXTENDED
RANGE**



Size - Pitch	Shank Dia.	A/F Square	Weight each	Order Code SHR-085	Price/1 TB
No.3 x 48	2.80	2.24	1g	-0780F	3500.00
No.4 x 40	3.15	2.50	1g	-0790F	2200.00
No.5 x 40	3.15	2.50	2g	-0800F	2300.00
No.6 x 32	3.55	2.80	3g	-0810F	1400.00
No.8 x 32	4.50	3.55	4g	-0820F	1400.00
No.10 x 24	5.00	4.00	5g	-0830F	1499.00
No.12 x 24	5.60	4.50	8g	-0840F	1985.00
1/4" x 20	6.30	5.00	11g	-0850F	1330.00
5/16" x 18	8.00	6.30	19g	-0860F	1372.00
3/8" x 16	10.00	8.00	31g	-0870F	1760.00
7/16" x 14	8.00	6.30	31g	-0880F	2942.00
1/2" x 13	9.00	7.10	41g	-0890F	2131.00
9/16" x 12	11.20	9.00	66g	-0900F	4004.00
5/8" x 11	12.50	10.00	89g	-0910F	3881.00
3/4" x 10	14.00	11.20	123g	-0920F	5750.00
7/8" x 9	16.00	12.50	180g	-0930F	8250.00
1" x 8	18.00	14.00	240g	-0940F	10050.00

FREE

**Tapping Drill
Wall Chart
(A2 Size)**

**AVAILABLE
ON REQUEST**

CAT-849-0938A

Contact your local
branch or representative.



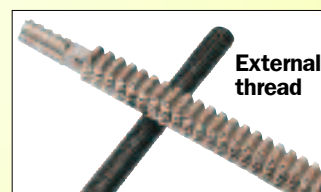
Thread Restoring Files

Restore internal and external threads by filing, where the use of taps and dies are impractical. The restorer file overlaps several good threads and files the damaged ones. Restore right and left hand, internal and external threads.

Long lasting, fast cutting teeth. Thread restoring files are available in ISO, Whit/BSF, UNF/UNC and BSP thread types.



**GROUP
620**



**External
thread**

Thread Type	Range	Weight each	Order Code SHR-017	Price/1 TB
ISO	.80 to 3mm	133g	-9020C	850.00
Whit/BSF	10 tpi to 24 tpi	132g	-9001A	850.00
UNF/UNC	11 tpi to 24 tpi	130g	-9010B	850.00
BSP	11 tpi to 28 tpi	127g	-9030D	950.00

PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR



**UNF (Unified Fine)
HSS Ground Thread Taps**

ISO 529



Straight Flute Individual Sizes

Size - Pitch	Thread Length	Overall Length	Shank Diameter	Taper	Second	Plug	Price/1 TB
				Order Code SHR-085	Order Code SHR-085	Order Code SHR-085	
No.4 x 48	9.45	44.5	2.80	-1050A	-1050B	-	1250.00
No.5 x 44	11.0	48.0	3.15	-1060A	-1060B	-1060C	1300.00
No.6 x 40	13.0	50.0	3.55	-1070A	-1070B	-1070C	808.00
No.8 x 36	13.0	53.0	4.50	-1080A	-1080B	-1080C	797.00
No.10 x 32	16.0	58.0	5.00	-1090A	-1090B	-1090C	835.00
No.12 x 28	17.0	62.0	5.60	-1100A	-1100B	-1100C	1107.00
1/4" x 28	19.0	66.0	6.30	-1110A	-1110B	-1110C	788.00
5/16" x 24	19.0	69.0	8.00	-1120A	-1120B	-1120C	909.00
3/8" x 24	20.0	76.0	10.00	-1130A	-1130B	-1130C	1114.00
7/16" x 20	25.0	85.0	8.00	-1140A	-1140B	-1140C	1641.00
1/2" x 20	29.0	89.0	9.00	-1150A	-1150B	-1150C	1449.00
9/16" x 18	30.0	95.0	11.20	-1160A	-1160B	-1160C	2471.00
5/8" x 18	32.0	102.0	12.50	-1170A	-1170B	-1170C	2205.00
3/4" x 16	37.0	112.0	14.00	-1180A	-1180B	-1180C	3209.00
7/8" x 14	38.0	118.0	16.00	-1190A	-1190B	-1190C	4860.00
1" x 12	45.0	130.0	18.00	-1200A	-1200B	-1200C	5600.00
1 1/8" x 12	37.0	127.0	20.00	-1210A	-	-	9100.00
1 1/4" x 12	37.0	137.0	22.40	-1220A	-	-	12500.00
1 3/8" x 12	39.0	144.0	25.00	-1230A	-1230B	-	14500.00
1 1/2" x 12	39.0	149.0	28.00	-	-	-1240C	11500.00

**Left Hand
Also
Available**

**EXTENDED
RANGE**

Sets of Three

1 each, taper, second and plug lead.



HSS

UNF

Square AF	Tap Drill Size	Set of 3 Order Code SHR-085	Price/1 TB
2.50	2.40	-1050D	3500.00
2.50	2.70	-1060D	3500.00
2.80	2.95	-1070D	2421.00
3.55	3.50	-1080D	2390.00
4.00	4.10	-1090D	2507.00
4.50	4.70	-1100D	3321.00
5.00	5.50	-1110D	2358.00
6.30	6.90	-1120D	2727.00
8.00	8.50	-1130D	3344.00
6.30	9.90	-1140D	4905.00
7.10	11.50	-1150D	4347.00
9.00	12.90	-1160D	7450.00
10.00	14.50	-1170D	6650.00
11.20	17.50	-1180D	9650.00
12.50	20.50	-1190D	14550.00
14.00	23.25	-1200D	16800.00
16.00	26.50	-	-
18.00	29.50	-	-
20.00	32.75	-	-
22.40	36.00	-	-

UNF (Unified Fine) HSS Ground Thread Taps

Spiral Point/Gun Nose

UNF HSS

NEW



Size - Pitch	Shank Dia.	A/F Square	Weight each	Order Code SHR-085	Price/1 TB
No.5 x 44	3.15	2.50	3g	-1060E	2400.00
No.6 x 40	3.55	2.80	5g	-1070E	1650.00
No.8 x 36	4.50	3.55	7g	-1080E	1340.00
No.10 x 32	5.00	4.00	7g	-1090E	1407.00
No.12 x 28	5.60	4.50	11g	-1100E	1863.00
1/4" x 28	6.30	5.00	15g	-1110E	1327.00
5/16" x 24	8.00	6.30	23g	-1120E	1535.00
3/8" x 24	10.00	8.00	37g	-1130E	1878.00
7/16" x 20	8.00	6.30	33g	-1140E	2768.00
1/2" x 20	9.00	7.10	52g	-1150E	2444.00
9/16" x 18	11.20	9.00	71g	-1160E	4161.00
5/8" x 18	12.50	10.00	100g	-1170E	3715.00
3/4" x 16	14.00	11.20	156g	-1180E	5450.00
7/8" x 14	16.00	12.50	185g	-1190E	8150.00
1" x 12	18.00	14.00	222g	-1200E	9500.00

**UNF (Unified Fine)
HSS Ground Thread Dies**

ISO 529

For use in diestocks to produce external screw threads.

UNF HSS



UNF (Unified Fine)

Size - Pitch	Outside Diameter	Thickness	Weight each	Order Code SHR-086	Price/1 TB
No.6 x 40	13/16"	1/4"	11g	-4280K	1313.00
No.10 x 32	13/16"	1/4"	12g	-4300K	1313.00
No.12 x 28	13/16"	1/4"	12g	-4310K	2800.00
No.10 x 32	1"	3/8"	12g	-4470K	1236.00
1/4" x 28	13/16"	1/4"	12g	-4320K	1045.00
1/4" x 28	1"	3/8"	28g	-4490K	1236.00
1/4" x 28	1 5/16"	7/16"	32g	-4620K	2833.00
5/16" x 24	1"	3/8"	42g	-4500K	1236.00
3/8" x 24	1"	3/8"	42g	-4510K	1236.00
3/8" x 24	1 5/16"	7/16"	55g	-4640K	2730.00
7/16" x 20	1"	3/8"	23g	-4520K	1803.00
7/16" x 20	1 5/16"	7/16"	53g	-4650K	2730.00
1/2" x 20	1 5/16"	7/16"	51g	-4660K	2730.00
1/2" x 20	1 1/2"	1/2"	73g	-4780K	2730.00
9/16" x 18	1 1/2"	1/2"	74g	-4790K	2730.00
9/16" x 18	1 5/16"	7/16"	49g	-4670K	2730.00
5/8" x 18	1 1/2"	1/2"	72g	-4800K	3131.00
3/4" x 16	1 1/2"	1/2"	69g	-4810K	3193.00
3/4" x 16	2"	5/8"	165g	-4970K	6911.00
7/8" x 14	2"	5/8"	159g	-4980K	6911.00
1" x 12	2"	5/8"	156g	-4990K	6911.00

Spiral Flute

UNF HSS

NEW



Size - Pitch	Shank Dia.	A/F Square	Weight each	Order Code SHR-085	Price/1 TB
No.4 x 48	3.15	2.50	4g	-1050F	2250.00
No.5 x 44	3.15	2.50	8g	-1060F	2400.00
No.8 x 36	4.50	3.55	6g	-1070F	1650.00
No.10 x 32	4.50	3.55	6g	-1080F	1640.00
No.10 x 32	5.00	4.00	7g	-1090F	1728.00
5/16" x 24	8.00	6.30	22g	-1120F	1735.00
3/8" x 24	10.00	8.00	37g	-1130F	2164.00
7/16" x 20	8.00	6.30	39g	-1140F	3379.00
1/2" x 20	9.00	7.10	48g	-1150F	2987.00
9/16" x 18	11.20	9.00	75g	-1160F	5100.00
5/8" x 18	12.50	10.00	95g	-1170F	4541.00
3/4" x 16	14.00	11.20	131g	-1180F	6650.00
7/8" x 14	16.00	12.50	192g	-1190F	10050.00
1" x 12	18.00	14.00	221g	-1200F	11550.00

**UNF (Unified Fine)
HSS Ground Thread Die Nuts**

UNF HSS

BS 1127

For use with spanners to clean and repair existing external screw threads.



Group 588



Group 582



UNF (Fine)

Size - Pitch	Width	Thickness	Weight each	Order Code SHR-086	Price/1 TB
1/4" x 28	0.71"	1/4"	10g	-5280K	2776.00
5/16" x 24	0.82"	5/16"	20g	-5310K	3229.00
3/8" x 24	0.92"	3/8"	24g	-5330K	3739.00
7/16" x 20	1.10"	7/16"	33g	-5350K	5722.00
1/2" x 20	1.10"	1/2"	44g	-5370K	4532.00
9/16" x 18	1.30"	5/8"	76g	-5390K	5552.00
5/8" x 18	1.30"	5/8"	72g	-5400K	5552.00
3/4" x 16	1.48"	1 1/16"	101g	-5430K	6911.00
7/8" x 14	1.67"	1 3/16"	148g	-5450K	7884.00



**Left Hand
Also
Available**

**EXTENDED
RANGE**

Straight Flute Individual Sizes

Size - Pitch	Thread Length	Overall Length	Shank Diameter	Weight each	Taper Order Code SHR-085	Second Order Code SHR-085	Plug Order Code SHR-085	Price/1 TB
3/32" x 48	9.5	44.5	2.80	2g	-	-1310B	-1310C	3750.00
1/8" x 40	16.0	48.0	3.15	1g	-1320A	-1320B	-1320C	1371.00
5/32" x 32	13.0	53.0	4.00	4g	-1330A	-1330B	-1330C	950.00
3/16" x 24	16.0	58.0	5.00	8g	-1340A	-1340B	-1340C	835.00
7/32" x 24	17.0	62.0	5.60	9g	-1350A	-	-	1250.00
1/4" x 20	19.0	66.0	6.30	14g	-1360A	-1360B	-1360C	788.00
5/16" x 18	22.0	72.0	8.00	23g	-1370A	-1370B	-1370C	909.00
3/8" x 16	24.0	80.0	10.00	38g	-1380A	-1380B	-1380C	1114.00
7/16" x 14	25.0	85.0	8.00	37g	-1390A	-1390B	-1390C	1641.00
1/2" x 12	29.0	89.0	9.00	49g	-1400A	-1400B	-1400C	1449.00
9/16" x 12	30.0	95.0	11.20	67g	-1410A	-1410B	-1410C	2466.00
5/8" x 11	32.0	102.0	12.50	98g	-1420A	-1420B	-1420C	2205.00
3/4" x 10	37.0	112.0	14.00	143g	-1430A	-1430B	-1430C	3209.00
7/8" x 9	38.0	118.0	16.00	195g	-1440A	-1440B	-1440C	4902.00
1" x 8	45.0	130.0	18.00	269g	-1450A	-1450B	-1450C	5600.00
1 1/8" x 7	51.0	151.0	22.40	473g	-1460A	-1460B	-1460C	11300.00
1 1/4" x 7	51.0	151.0	22.40	473g	-	-	-1470C	15250.00
1 1/2" x 6	60.0	170.0	28.00	865g	-1480A	-1480B	-1480C	21000.00

Sets of Three

1 each, taper, second and plug lead.



HSS

BSW

Square AF	Tap Drill Size	Set of 3 Order Code SHR-085	Price/1 TB
2.24	1.90	-	-
2.50	2.55	-1320D	4109.00
3.15	3.10	-1330D	2800.00
4.00	3.70	-1340D	2507.00
4.50	4.40	-	-
5.00	5.10	-1360D	2358.00
6.30	6.50	-1370D	2727.00
8.00	7.90	-1380D	3344.00
6.30	9.30	-1390D	4905.00
7.10	10.50	-1400D	4347.00
9.00	12.10	-1410D	7450.00
10.00	13.50	-1420D	6650.00
11.20	16.25	-1430D	9650.00
12.50	19.25	-1440D	14750.00
14.00	22.00	-1450D	16800.00
16.00	24.75	-	-
18.00	28.00	-1470D	44500.00
22.40	33.50	-1480D	61000.00

**BSW (British Standard Whitworth)
HSS Ground Thread Taps**

ISO 529

Spiral Point/Gun Nose

**EXTENDED
RANGE**

BSW

HSS



Size - Pitch	Shank Dia.	A/F Square	Weight each	Order Code SHR-085	Price/1 TB
1/8" x 40	3.15	2.50	3g	-1320E	2156.00
5/32" x 32	4.00	3.15	3g	-1330E	1250.00
3/16" x 24	5.00	4.00	8g	-1340E	1315.00
1/4" x 20	6.30	5.00	15g	-1360E	1240.00
5/16" x 18	8.00	6.30	23g	-1370E	1434.00
3/8" x 16	10.00	8.00	38g	-1380E	1755.00
7/16" x 14	8.00	6.30	25g	-1390E	2587.00
1/2" x 12	9.00	7.10	49g	-1400E	2284.00
5/8" x 11	12.50	10.00	62g	-1420E	3715.00
3/4" x 10	14.00	11.20	85g	-1430E	5450.00
7/8" x 9	16.00	12.50	113g	-1440E	9800.00
1" x 8	18.00	14.00	221g	-1450E	9500.00

Spiral Flute

BSW

HSS



Size - Pitch	Shank Dia.	A/F Square	Weight each	Order Code SHR-085	Price/1 TB
1/8" x 40	3.15	2.50	2g	-1320F	2600.00
3/16" x 24	5.00	4.00	6g	-1340F	1615.00
1/4" x 20	6.30	5.00	14g	-1360F	1517.00
5/16" x 18	8.00	6.30	26g	-1370F	1755.00
3/8" x 16	10.00	8.00	37g	-1380F	2143.00
7/16" x 14	8.00	6.30	21g	-1390F	2698.00
1/2" x 12	9.00	7.10	46g	-1400F	2791.00
5/8" x 11	12.50	10.00	60g	-1420F	4711.00
3/4" x 10	14.00	11.20	75g	-1430F	6650.00
7/8" x 9	16.00	15.50	107g	-1440F	9800.00

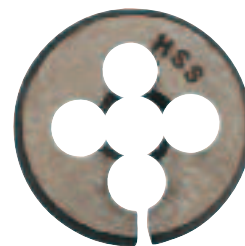
**BSW (British Standard Whitworth)
HSS Ground Thread Dies**

BSW

HSS

BS 1127

For use in diestocks to produce external screw threads.



**EXTENDED
RANGE**

Size - Pitch	Outside Diameter	Thickness	Weight each	Order Code SHR-086	Price/1 TB
1/8" x 40	13/16"	1/4"	13g	-5600K	1313.00
3/16" x 24	13/16"	1/4"	12g	-5620K	1313.00
1/4" x 20	13/16"	1/4"	12g	-5640K	1236.00
1/4" x 20	1"	3/8"	27g	-5730K	1236.00
5/16" x 18	1"	3/8"	27g	-5740K	1236.00
3/8" x 16	1"	3/8"	26g	-5750K	1236.00
3/8" x 16	1 5/16"	7/16"	54g	-5810K	1442.00
7/16" x 14	1 5/16"	7/16"	53g	-5820K	1545.00
1/2" x 12	1 5/16"	7/16"	53g	-5830K	1823.00
1/2" x 12	1 1/2"	1/2"	52g	-5940K	4750.00
5/8" x 11	1 1/2"	1/2"	71g	-5960K	2127.00
3/4" x 10	1 1/2"	1/2"	66g	-5980K	2730.00
3/4" x 10	2"	5/8"	158g	-6120K	2730.00
7/8" x 9	2"	5/8"	135g	-6140K	3605.00
1" x 8	2"	5/8"	140g	-6160K	3966.00

**BSW (British Standard Whitworth)
HSS Ground Thread Die Nuts**

BSW

HSS

BS 1127

For use with spanners to clean and repair existing external screw threads.



**EXTENDED
RANGE**

Size - Pitch	Width	Thickness	Weight each	Order Code SHR-086	Price/1 TB
1/8" x 40	0.71"	1/4"	13g	-6450K	4250.00
3/16" x 24	0.71"	1/4"	11g	-6470K	2833.00
1/4" x 20	0.71"	1/4"	10g	-6490K	2833.00
5/16" x 18	0.82"	5/16"	16g	-6570K	2833.00
3/8" x 16	0.92"	3/8"	25g	-6590K	3909.00
7/16" x 14	1.01"	7/16"	35g	-6610K	4378.00
1/2" x 12	1.10"	1/2"	44g	-6630K	4702.00
5/8" x 11	1.30"	5/8"	78g	-6660K	5897.00
3/4" x 10	1.48"	1 1/16"	102g	-6700K	7195.00
1" x 8	2.05"	1 5/16"	265g	-6780K	11742.00

FREE

**Tapping Drill
Wall Chart
(A2 Size)**

**AVAILABLE
ON REQUEST
CAT-849-0938A**

Contact your local branch
or representative.





**BSF (British Standard Fine)
HSS Ground Thread Taps**

ISO 529



**Left Hand
Also
Available**

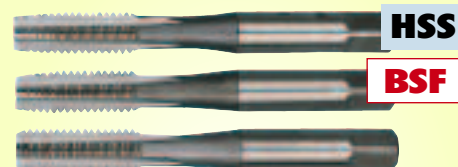
**EXTENDED
RANGE**

Straight Flute Individual Sizes

Size - Pitch	Thread Length	Overall Length	Shank Diameter	Weight each	Taper Order Code SHR-085	Second Order Code SHR-085	Plug Order Code SHR-085	Price/1 TB
3/16" x 32	16.0	58.0	5.0	8g	-1600A	-1600B	-1600C	958.00
1/4" x 26	19.0	66.0	6.3	14g	-1610A	-1610B	-1610C	889.00
5/16" x 22	22.0	72.0	8.0	23g	-1630A	-1630B	-1630C	1029.00
3/8" x 20	24.0	80.0	10.0	38g	-1640A	-1640B	-1640C	1256.00
7/16" x 18	25.0	85.0	8.0	24g	-1650A	-1650B	-1650C	1852.00
1/2" x 16	29.0	89.0	9.0	30g	-1660A	-1660B	-1660C	1638.00
5/8" x 14	32.0	102.0	12.5	60g	-	-1680B	-1680C	2493.00
3/4" x 12	37.0	112.0	14.0	85g	-1690A	-1690B	-1690C	3627.00
13/16" x 12	37.0	112.0	14.0	96g	-	-	-	-
7/8" x 11	38.0	118.0	16.0	187g	-1700A	-1700B	-1700C	5500.00
1" x 10	45.0	130.0	18.0	266g	-1710A	-1710B	-1710C	6300.00
1 1/4" x 9	51.0	151.0	22.4	300g	-1730A	-1730B	-1730C	17850.00
1 1/2" x 8	60.0	170.0	28.0	402g	-	-1740B	-1740C	24100.00
1 3/4" x 7	67.0	187.0	31.5	603g	-1750A	-1750B	-1750C	38300.00
2" x 7	70.0	200.0	35.5	710g	-1760A	-1760B	-1760C	23100.00

Sets of Three

1 each, taper, second and plug lead.



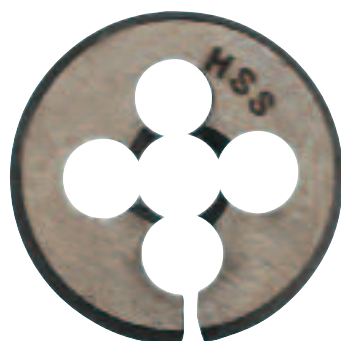
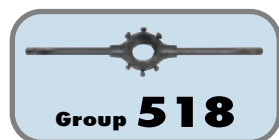
Square AF	Tap Drill Size	Set of 3 Order Code SHR-085	Price/1 TB
4.00	4.00	-1600D	2875.00
5.00	5.30	-1610D	2669.00
6.30	6.80	-1630D	3087.00
8.00	8.30	-1640D	3771.00
6.30	9.70	-1650D	5550.00
7.10	11.10	-1660D	4905.00
10.00	14.00	-1680D	7500.00
11.20	15.50	-1690D	10900.00
11.20	18.25	-	-
12.50	19.75	-1700D	16450.00
14.00	22.75	-1710D	18000.00
18.00	28.50	-1730D	52000.00
	22.40	34.50	-
25.00	40.50	-	-
28.00	47.00	-	-

**BSF (British Standard Fine)
HSS Ground Thread Dies**

BS 1127

For use in diestocks to produce
external screw threads.

BSF HSS



Size - Pitch	Outside Diameter	Thickness	Weight each	Order Code SHR-086	Price/1 TB
3/16" x 32	13/16"	1/4"	12g	-6950K	3399.00
1/4" x 26	13/16"	1/4"	12g	-6980K	2436.00
1/4" x 26	1"	3/8"	27g	-7020K	2889.00
5/16" x 22	1"	3/8"	27g	-7030K	2889.00
3/8" x 20	1"	3/8"	26g	-7040K	2889.00
3/8" x 20	1 5/16"	7/16"	51g	-7100K	4249.00
7/16" x 18	1 5/16"	7/16"	56g	-7110K	4249.00
1/2" x 16	1 5/16"	7/16"	54g	-7120K	4249.00
5/8" x 14	1 1/2"	1/2"	73g	-7250K	4985.00

**BSF (British Standard Fine)
HSS Ground Thread Taps**

ISO 529

Spiral Point/Gun Nose

NEW



Size - Pitch	Shank Dia.	A/F Square	Weight each	Order Code SHR-085	Price/1 TB
3/16" x 32	5.0	4.0	8g	-1600E	1597.00
1/4" x 26	6.3	5.0	15g	-1610E	1499.00
5/16" x 22	8.0	6.3	23g	-1630E	1740.00
3/8" x 20	10.0	8.0	40g	-1640E	2119.00
7/16" x 18	8.0	6.3	35g	-1650E	3125.00
1/2" x 16	9.0	7.1	54g	-1660E	2759.00
9/16" x 16	11.2	9.0	70g	-1670E	3297.00
5/8" x 14	12.5	10.0	100g	-1680E	5050.00
3/4" x 12	14.0	11.2	143g	-1690E	7800.00
1" x 10	18.0	14.0	-	-1710E	12500.00

**BSF (British Standard Fine)
HSS Ground Thread Die Nuts**

BS 1127

For use with spanners to clean and repair existing external screw
threads.

BSF HSS

**EXTENDED
RANGE**



Size - Pitch	Width	Thickness	Weight each	Order Code SHR-086	Price/1 TB
1/4" x 26	0.71"	1/4"	10g	-7720K	2833.00
3/8" x 20	0.92"	3/8"	24g	-7780K	3863.00
1/2" x 16	1.10"	1/2"	48g	-7820K	4687.00
5/8" x 14	1.30"	5/8"	78g	-7850K	5871.00
3/4" x 12	1.48"	11/16"	108g	-7890K	7209.00
7/8" x 11	1.67"	13/16"	149g	-7920K	8239.00
1" x 10	2.05"	15/16"	274g	-7940K	11845.00

**BSF (British Standard Fine)
HSS Ground Thread Taps**

ISO 529

Spiral Flute

NEW



Size - Pitch	Shank Dia.	A/F Square	Weight each	Order Code SHR-085	Price/1 TB
3/16" x 32	5.0	4.0	8g	-1600F	1951.00
1/4" x 26	6.3	5.0	15g	-1610F	1836.00
5/16" x 22	8.0	6.3	23g	-1630F	2125.00
3/8" x 20	10.0	8.0	40g	-1640F	2592.00
7/16" x 18	8.0	6.3	40g	-1650F	3820.00
1/2" x 16	9.0	7.1	50g	-1660F	3373.00
5/8" x 14	12.5	10.0	99g	-1680F	6400.00
3/4" x 12	14.0	11.2	120g	-1690F	9500.00

BA (British Association) HSS Ground Thread Taps

Left Hand
Also
Available



ISO 529 - 1975 (E)

Nominal Dia. of Tap		Maximum Deviation on Thread Length	
Over	Including		
-	5.5mm	+ 0.0	- 2.5
5.5mm	12.0mm	+ 0.0	- 3.2
12.0mm	39.0mm	+ 0.0	- 5.0
39.0mm	-	+ 0.0	- 6.5

EXTENDED
RANGE



Straight Flute Individual Sizes

Size - Pitch	Shank Diameter	Weight each	Taper Order Code SHR-085	Second Order Code SHR-085	Plug Order Code SHR-085	Price/1 TB
No.0 x 0.0394	6.30	14g	-1800A	-1800B	-1800C	777.00
No.2 x 0.0319	5.00	8g	-1820A	-1820B	-1820C	574.00
No.3 x 0.0287	4.50	7g	-1830A	-1830B	-1830C	1195.00
No.4 x 0.0260	3.55	4g	-1840A	-1840B	-1840C	588.00
No.5 x 0.0232	3.15	4g	-1850A	-1850B	-1850C	912.00
No.6 x 0.0209	2.80	3g	-1860A	-1860B	-1860C	644.00
No.8 x 0.0169	2.80	3g	-1880A	-1880B	-1880C	1170.00

Spiral Point/Gun Nose

BA HSS



Size - Pitch	Shank Dia.	A/F Square	Weight each	Order Code SHR-085	Price/1 TB
No.0 x 0.0394	6.30	5.00	15g	-1800E	1195.00
No.1 x 0.0354	5.60	4.50	11g	-1810E	1858.00
No.2 x 0.0319	5.00	4.00	9g	-1820E	965.00
No.4 x 0.0260	3.55	2.80	4g	-1840E	988.00
No.5 x 0.0232	3.15	2.50	4g	-1850E	1800.00
No.6 x 0.0209	2.80	2.24	3g	-1860E	1089.00
No.8 x 0.0169	2.80	2.24	3g	-1880E	1972.00

Spiral Flute

BA HSS



Size - Pitch	Shank Dia.	A/F Square	Weight each	Order Code SHR-085	Price/1 TB
No.0 x 0.0394	6.30	5.00	14g	-1800F	1527.00
No.2 x 0.0319	5.00	4.00	6g	-1820F	1182.00
No.3 x 0.0287	4.50	3.55	5g	-1830F	1858.00
No.4 x 0.0260	3.55	2.80	4g	-1840F	1206.00
No.5 x 0.0232	3.15	2.50	4g	-1850F	2300.00
No.6 x 0.0209	2.80	2.24	3g	-1860F	1327.00
No.8 x 0.0169	2.80	2.24	3g	-1880F	2415.00

Sherwood STD

Spray

400ml foam aerosol penetrates and is able to cling to normally inaccessible areas and moving cutting edges.



Lubricant Type	Size	Order Code SHR-732	Price/1 TB
Spray	400ml	-4000K	562.00



Sherwood STD Liquid (Poly Bottle)

Low odour liquid. Coats the cutting edge with a film of EP additives.

Sherwood STD Compound

Low melting point paste maintains a continual lubricant feed to the cutting edge. Hand applied. Suitable for the most severe cutting operations.



Lubricant Type	Size	Order Code SHR-732	Price/1 TB
Liquid	500ml	-4020K	652.00
Liquid	5ltr	-4060K	5627.00
Compound	500g	-4040K	534.00

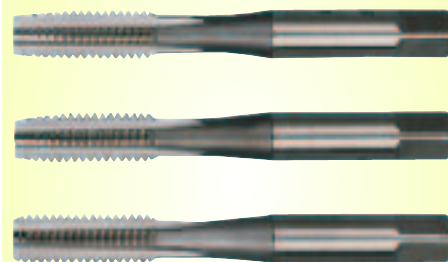
HSS TAPS & DIES GROUP 085

Sets of Three

1 each, taper, second and plug lead.



BA HSS



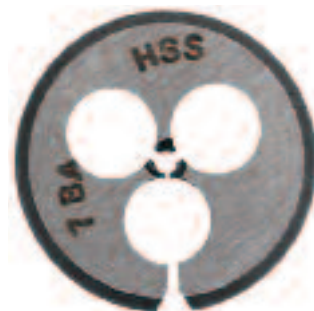
Square AF	Tap Drill Size	Set of 3 Order Code SHR-085	Price/1 TB
5.00	5.10	-1800D	2331.00
4.00	4.00	-1820D	1744.00
3.55	3.40	-1830D	3587.00
2.80	3.00	-1840D	1760.00
2.50	2.65	-1850D	2732.00
2.24	2.30	-1860D	1931.00
2.24	1.80	-1880D	3515.00

BA (British Association) HSS Ground Thread Dies

BA HSS

BS 1127

For use in diestocks to produce external screw threads.



Pitch	Outside Diameter	Thickness	Weight each	Order Code SHR-086	Price/1 TB
No.6	13/16"	1/4"	11g	-8200K	3002.00
No.5	13/16"	1/4"	10g	-8210K	4197.00
No.4	13/16"	1/4"	12g	-8220K	3064.00
No.2	13/16"	1/4"	12g	-8240K	3064.00
No.1	13/16"	1/4"	13g	-8250K	3064.00

STD Tapping & Drilling

Non-Soluble Foam Lubricant

Foam aerosol penetrates and is able to cling to normally inaccessible areas and moving cutting edges. Can be used on yellow metals without the risk of staining.



Lubricant Type	Size	Order Code SHR-732	Price/1 TB
Foam	400ml	-4210K	567.00

PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR



**BSP(F) (British Standard Pipe Fitting)
HSS Ground Thread Taps**

**Left Hand
Also
Available**

ISO 529



Straight Flute Individual Sizes

Size - Pitch	Thread Length	Overall Length	Shank Diameter	Weight each	Taper	Second	Plug	Price/1 TB
					Order Code SHR-085	Order Code SHR-085	Order Code SHR-085	
1/8" x 28	15.0	59.0	8.0	26g	-2010A	-2010B	-2010C	986.00
1/4" x 19	19.0	67.0	10.0	47g	-2020A	-2020B	-2020C	1319.00
3/8" x 19	21.0	75.0	12.5	75g	-2030A	-2030B	-2030C	1956.00
1/2" x 14	26.0	87.0	16.0	137g	-2040A	-2040B	-2040C	2772.00
5/8" x 14	26.0	91.0	18.0	191g	-2050A	-2050B	-2050C	4392.00
3/4" x 14	28.0	96.0	20.0	228g	-2060A	-2060B	-2060C	4122.00
7/8" x 14	29.0	102.0	22.4	228g	-2070A	-2070B	-	7350.00
1" x 11	33.0	109.0	25.0	446g	-2080A	-2080B	-2080C	6900.00
1 1/4" x 11	36.0	119.0	31.5	775g	-2090A	-2090B	-2090C	12300.00
1 1/2" x 11	37.0	125.0	35.5	1024g	-2100A	-2100B	-2100C	15600.00

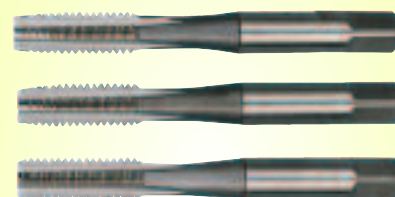
Sets of Three

1 each, taper, second and plug lead.



BSP

HSS



Square AF	Tap Drill Size	Set of 3	Price/1 TB
		Order Code SHR-085	
6.30	8.80	-2010D	2823.00
8.00	11.80	-2020D	3901.00
10.00	15.25	-2030D	5950.00
12.50	19.00	-2040D	8150.00
14.00	21.00	-2050D	13200.00
16.00	24.50	-2060D	12400.00
18.00	28.25	-	-
20.00	30.75	-2080D	20700.00
25.00	39.50	-2090D	36900.00
28.00	45.00	-2100D	46750.00

**BSP(F) (British Standard Pipe Fine)
HSS Ground Thread Taps**

ISO 529

Spiral Point/Gun Nose

BSP

HSS



Size - Pitch	Shank Dia.	A/F Square	Weight each	Order Code SHR-085	Price/1 TB
1/8" x 28	8.0	6.3	24g	-2010E	2273.00
1/4" x 19	10.0	8.0	51g	-2020E	2858.00
3/8" x 19	12.5	10.0	85g	-2030E	4775.00
1/2" x 14	16.0	12.5	143g	-2040E	6600.00
3/4" x 14	20.0	16.0	250g	-2060E	7850.00

**BSP(F) (British Standard Pipe Fitting)
HSS Ground Thread Dies**

BS 1127

For use in diestocks to produce
external screw threads.

BSP

HSS



**Group
588**



Size - Pitch	Outside Diameter	Thickness	Weight each	Order Code SHR-086	Price/1 TB
1/8" x 28	1"	3/8"	26g	-8620K	2549.00
1/8" x 28	1 5/16"	7/16"	50g	-8640K	4532.00
1/4" x 19	1 5/16"	7/16"	50g	-8650K	3852.00
1/4" x 19	1 1/2"	1/2"	76g	-8690K	5268.00
3/8" x 19	1 1/2"	1/2"	75g	-8700K	4419.00
1/2" x 14	2"	5/8"	158g	-8760K	6628.00
3/4" x 14	2"	5/8"	144g	-8780K	8240.00
1" x 11	2 1/4"	1 1/16"	174g	-8860K	11330.00

**BSP(F) (British Standard Pipe Fitting)
HSS Ground Thread Taps**

ISO 529

Spiral Flute

BSP

HSS



Size - Pitch	Shank Dia.	A/F Square	Weight each	Order Code SHR-085	Price/1 TB
1/8" x 28	8.0	6.3	24g	-2010F	2419.00
1/4" x 19	10.0	8.0	51g	-2020F	3038.00
3/8" x 19	12.5	10.0	85g	-2030F	4930.00
1/2" x 14	16.0	12.5	143g	-2040F	6750.00
3/4" x 14	20.0	16.0	250g	-2060F	11200.00

**BSP(F) (British Standard Pipe Fitting)
HSS Ground Thread Die Nuts**

BS 1127

For use with spanners to clean and
repair existing external screw threads.

BSP

HSS



**Group
518**



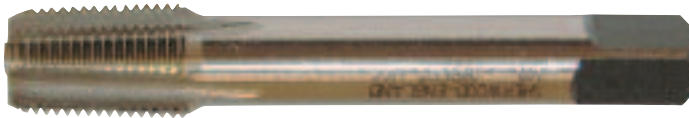
Size - Pitch	Width	Thickness	Weight each	Order Code SHR-086	Price/1 TB
1/8" x 28	0.92"	3/8"	23g	-8940K	1236.00
1/4" x 19	1.10"	1/2"	43g	-8960K	1813.00
3/8" x 19	1.30"	5/8"	80g	-8980K	2112.00
1/2" x 14	1.67"	1 3/16"	161g	-9000K	3131.00
3/4" x 14	2.05"	1 5/16"	247g	-9040K	3955.00
1" x 11	2.58"	1 1/8"	428g	-9080K	9332.00
1 1/4" x 11	2.76"	1 1/4"	619g	-9100K	15141.00



**BSPT (British Standard Pipe Taper)
HSS Ground Thread Taps**

ISO 529

Straight Flute



R = With Reamer
NR = Without Reamer

Size - Pitch	Thread Length	Shank Diameter	Overall Length	Weight each	Square AF	Tap Drill Size R	Size NR	Taper Order Code SHR-085	Second Order Code SHR-085	Plug Order Code SHR-085	Price/1 TB
1/8" x 28	15.0	8.0	59.0	29g	6.30	8.00	8.40	-	-	-2200C	1782.00
1/4" x 19	19.0	10.0	67.0	50g	8.00	10.80	11.20	-	-	-2210C	2381.00
3/8" x 19	21.0	12.5	75.0	66g	10.00	14.25	14.75	-	-	-2220C	3542.00
1/2" x 14	26.0	16.0	87.0	142g	12.50	17.75	18.25	-	-	-2230C	4995.00
3/4" x 14	28.0	20.0	96.0	241g	16.00	23.00	23.75	-	-	-2240C	7500.00
1" x 11	33.0	25.0	109.0	267g	20.00	29.00	30.00	-	-	-2250C	12500.00



BSPT HSS

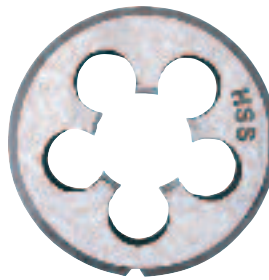
Left Hand Also Available

**BSPT (British Standard Pipe Taper)
HSS Ground Thread Dies**

ISO 2284

For use in diestocks to produce external screw threads.

BSPT HSS



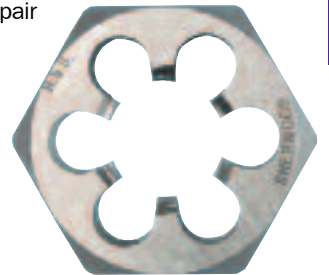
Size - Pitch	Outside Diameter	Thickness	Weight each	Order Code SHR-086	Price/1 TB
1/8" x 28	1"	3/8"	26g	-9150K	3296.00
1/4" x 19	1 5/16"	7/16"	62g	-9170K	4532.00
3/8" x 19	1 1/2"	1/2"	75g	-9200K	5433.00
1/2" x 14	2"	5/8"	175g	-9230K	6592.00

**BSPT (British Standard Pipe Taper)
HSS Ground Thread Die Nuts**

BS 1127

For use with spanners to clean and repair existing external screw threads.

BSPT HSS



Size - Pitch	Width	Thickness	Weight each	Order Code SHR-086	Price/1 TB
1/4" x 19	1.10"	1/2"	43g	-9310K	4532.00
3/8" x 19	1.30"	5/8"	80g	-9320K	6850.00
1/2" x 14	1.67"	1 3/16"	142g	-9330K	6950.00

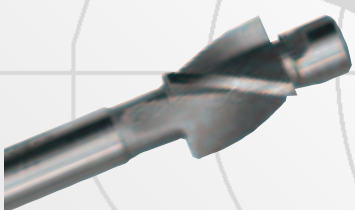


**THE COMPLETE RANGE
OF HSS TOOLING**

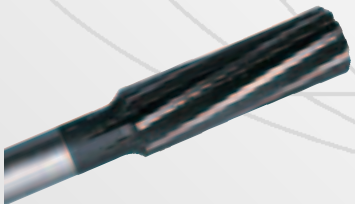
**Bore
Milling Cutters**



**Countersinks &
Counterbores**



**Hand & Machine
Reamers**



**Shank
Milling Cutters**



**Straight & Taper
Shank Drills**



**Hand &
Machine Taps**

Full Range of Sizes and Sets - Massive Stocks Available!
mm, inch, DIN, ISO, UN, BS, and ANSI Standards

PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR



**NPT (National Pipe Taper)
HSS Ground Thread Taps**

ANSI 94.9

Straight Flute

**Left Hand
Also
Available**

Sets of Three

1 each, taper, second and plug lead.



NPT

HSS



Size - Pitch	Thread Length	Overall Length	Shank Diameter	Weight each	Taper	Second	Plug	Price/1 TB
					Order Code SHR-085	Order Code SHR-085	Order Code SHR-085	
1/16" x 27	1 1/16"	0.312	2 1/8"	20g	-	-	-3010C	1852.00
1/8" x 27	3/4"	0.437	2 1/8"	50g	-3020A	-3020B	-3020C	1616.00
1/4" x 18	1 1/16"	0.562	2 7/16"	70g	-	-3030B	-3030C	2156.00
3/8" x 18	1 1/16"	0.700	2 9/16"	100g	-3040A	-3040B	-3040C	3209.00
1/2" x 14	1 3/8"	0.687	3 1/8"	180g	-	-	-3050C	4545.00
3/4" x 14	1 3/8"	0.906	3 1/4"	230g	-	-3060B	-3060C	6750.00
1" x 11.5	1 3/4"	1.125	3 3/4"	420g	-3070A	-3070B	-3070C	11300.00
1 1/2" x 11.5	1 3/4"	1.500	4 1/2"	420g	-	-	-3090C	10750.00



R = With Reamer

NR = Without Reamer

Set of 3					
Square AF	Tap R	Drill Size NR	Order Code SHR-085	Price/1 TB	
0.234	6.00	6.30	-3010D	5100.00	
0.328	8.40	8.70	-3020D	3500.00	
0.421	10.70	11.10	-3030D	6500.00	
0.531	14.25	14.50	-3040D	9500.00	
0.515	17.50	18.00	-	-	
0.679	22.75	23.25	-	-	
0.843	28.50	29.00	-3070D	16999.00	
1.125	43.50	44.00	-	-	

Straight Flute Interrupted Thread
For reduced tapping friction.

INTERRUPTED

HSS

Size - Pitch	Thread Length	Shank Diameter	Overall Length	Weight each	Order Code SHR-085	Price/1 TB
1/8" x 27	3/4"	0.437	2 1/8"	50g	-3210C	2696.00
1/4" x 18	1 1/16"	0.562	2 7/16"	70g	-3220C	3596.00
3/8" x 18	1 1/16"	0.700	2 9/16"	100g	-3230C	5400.00
1/2" x 14	1 3/8"	0.687	3 1/8"	180g	-3240C	7600.00

**NPT (National Pipe Taper)
HSS Ground Thread Die Nuts**

For use with spanners to clean and
repair existing external
screw threads.



**Group
588**



NPT

HSS

Size - Pitch	Width	Thickness	Weight each	Order Code SHR-086	Price/1 TB
1/4" x 18	1.10"	1/2"	51g	-9580K	4532.00
3/8" x 18	1.50"	5/8"	67g	-9590K	5433.00
1/2" x 14	1.67"	1 3/16"	147g	-9600K	8500.00
3/4" x 14	2.05"	1 5/16"	225g	-9610K	9500.00

**NPT (National Pipe Taper)
HSS Ground Thread Dies**

For use in diestocks to produce external
screw threads.



NPT

HSS

Size - Pitch	Outside Diameter	Thickness	Weight each	Order Code SHR-086	Price/1 TB
1/8" x 27	1 5/16"	7/16"	44g	-9400K	3296.00
1/4" x 18	1 5/16"	7/16"	69g	-9410K	4532.00
1/4" x 18	1 1/2"	1/2"	88g	-9430K	5433.00
3/8" x 18	1 1/2"	1/2"	80g	-9440K	5433.00
1/2" x 14	2"	5/8"	159g	-9470K	6592.00
3/4" x 14	2"	5/8"	189g	-9480K	6592.00

**NPTF (National Pipe Taper Fuel)
HSS Ground Thread Taps**

NPTF

HSS

ANSI 94.9

Straight Flute



Size - Pitch	Thread Length	Shank Diameter	Overall Length	Weight each	Order Code SHR-085	Price/1 TB
Plug Lead						
1/16" x 27	1 1/16"	0.312	2 1/8"	20g	-3400C	2721.00
1/8" x 27	3/4"	0.437	2 1/8"	50g	-3410C	3305.00
1/4" x 18	1 1/16"	0.562	2 7/16"	91g	-3420C	3104.00
1/2" x 14	1 3/8"	0.687	3 1/8"	205g	-3440C	6700.00

**NPS (National Pipe Standard)
HSS Ground Thread Taps**

NPS

HSS

ANSI 94.9

Straight Flute



Size - Pitch	Thread Length	Overall Length	Shank Diameter	Weight each	Order Code SHR-085	Price/1 TB
Plug Lead						
1/8" x 27	3/4"	2 1/8"	0.437	-	-2800C	2250.00
1/2" x 14	1 3/8"	3 1/8"	0.687	123g	-2830C	6650.00
3/4" x 14	1 3/8"	3 1/4"	0.906	-	-2840C	9500.00

**NPSF (National Pipe Standard Fuel)
HSS Ground Thread Taps**

NPSF

HSS

ANSI 94.9

Straight Flute



Size - Pitch	Thread Length	Overall Length	Shank Diameter	Weight each	Order Code SHR-085	Price/1 TB
Plug Lead						
1/8" x 27	3/4"	2 1/8"	0.437	45g	-2910C	2738.00
1/2" x 14	1 3/8"	3 1/8"	0.687	-	-2940C	3850.00
3/4" x 14	1 3/8"	3 1/4"	0.906	-	-2950C	5100.00
1" x 11.5	1 3/4"	3 3/4"	1.125	-	-2960C	9100.00



Metric Threading Set



M2 - M16:

HSS Ground Thread

Taper and Second Taps:

M2 x 0.40, M3 x 0.50, M4 x 0.70, M5 x 0.80, M6 x 1.00, M8 x 1.25, M10 x 1.50 and M12 x 1.75.

Manufactured to **ISO 529**.

Bar Type Tap Wrenches: 1/16" - 1/4" and 3/16" - 1/2".

Tapping Drills to Suit: 1.6, 2.5, 3.3, 4.2, 5.0, 6.8, 8.5 and 10.2mm.

Made to **BS 328/DIN 338N**.

13/16" O/D Split Dies:

M2 x 0.40, M3 x 0.50, M4 x 0.70, M5 x 0.80 and M6 x 1.00.

1" O/D Split Dies:

M8 x 1.25 and M10 x 1.50. Manufactured to **BS 1127**.

Diastocks:

13/16" O/D and 1" O/D.

HSS Die Nuts: M12 x 1.75 and M16 x 2.00.

Manufactured to **BS 1127**.

**37
PIECES**



Range	Number of Pieces	Order Code	Price/1 TB
M2 - M16	37	SHR-086	11500.00



Metric Threading Set



Metric M3 - M12

Comprehensive threading set containing machine ground HSS Taps and Dies in a metal box.

Contents:

O/D Split Dies: M3, M4, M5, M6, M8, M10 and M12.

Ground Thread Taps (1 of each, taper, second and plug lead): M3, M4, M5, M6, M8, M10 and M12.

Bar Type Tap Wrench: M1 - M12 x 210mm.

Die Stock:

25 x 9 x 210mm.

Metric Thread Pitch Gauge.

Flat Bladed

Screwdriver: 6mm.

NEW

**32
PIECES**



Range	Number of Pieces	Order Code	Price/1 TB
M3 - M12	32	SEN-086	6250.00

UNC Threading Set

No.10 - 3/4" UNC:

HSSGT Straight Flute Taps:

Taper: No. 10 x 24, 1/4" x 20, 5/16" x 18, 3/8" x 16.

Second:

7/16" x 14, 1/2" x 13, 5/8" x 11, 3/4" x 10.

Plug:

No. 10 x 24, 1/4" x 20, 5/16" x 18, 3/8" x 16.

Bar Type Tap Wrenches:

1/16" - 1/4" and 1/4" - 3/4".

Tapping Drills to suit: HSS S/S.

3.90, 5.10, 6.60, 8.00, 9.40, 10.80mm

HSS 1" O/D Dies:

1/4" x 20, 5/16" x 18, 3/8" x 16.

Diastock:

1" O/D.

HSS Die Nuts:

7/16" x 14, 1/2" x 13, 5/8" x 11, 3/4" x 10.

Range	No. of Pcs	Order Code	Price/1 TB
10-3/4"UNC	28	SHR-086	16500.00

UNC

**28
PIECES**

BSW Threading Set

3/16" - 3/4" BSW:

HSSGT Straight Flute Taps:

Taper: 3/16" x 24, 1/4" x 20, 5/16" x 18, 3/8" x 16.

Second: 7/16" x 14, 1/2" x 12, 5/8" x 11, 3/4" x 10.

Plug: 3/8" x 16, 5/16" x 18, 1/4" x 20, 3/16" x 24.

Bar Type Tap Wrenches:

1/4" - 3/4" and 1/16" - 1/4".

Tapping Drills to Suit: HSS S/S.

3.70, 5.10, 6.50, 7.90, 9.30, 10.50mm

HSS 1" O/D Dies:

1/4" x 2, 5/16" x 18 and 3/8" x 16.

Diastock: 1" O/D.

HSS Die Nuts:

7/16" x 14, 1/2" x 12, 5/8" x 11 and 3/4" x 10.

Range	No. of Pcs	Order Code	Price/1 TB
3/16-3/4"BSW	28	SHR-086	16500.00

BSW

**28
PIECES**

BSF Threading Set

3/16" - 3/4" BSF:

HSSGT Straight Flute Taps:

Taper: 3/16" x 32, 1/4" x 26, 5/16" x 22, 3/8" x 20.

Second: 3/4" x 12, 7/16" x 18, 5/8" x 14, 1/2" x 16.

Plug: 3/16" x 32, 1/4" x 26, 5/16" x 22, 3/8" x 20.

Bar Type Tap Wrenches:

1/16" - 1/4" and 1/4" - 3/4".

Tapping Drills to Suit: HSS S/S.

4.00, 5.30, 6.80, 8.30, 9.70, 11.10mm

HSS 1" O/D Split Dies: 1/4" x 26, 5/16" x 22 and 3/8" x 20.

Diastock: 1" O/D.

HSS Die Nuts: 7/16" x 18, 1/2" x 16, 5/8" x 14 and 3/4" x 12.

Range	No. of Pcs	Order Code	Price/1 TB
3/16-3/4"BSF	28	SHR-086	15500.00

BSF

**28
PIECES**

UNF Threading Set

No.10 - 3/4" UNF:

HSSGT Straight Flute Taps:

Taper: No.10 x 32, 1/4" x 28, 5/16" x 24, 3/8" x 24.

Second:

3/4" x 16, 7/16" x 20, 5/8" x 18, 1/2" x 20.

Plug:

No.10 x 32, 1/4" x 28, 5/16" x 24, 3/8" x 24.

Bar Type Tap Wrenches:

1/16" - 1/4" and 1/4" - 3/4".

Tapping Drills to Suit: HSS S/S.

4.10, 5.50, 6.90, 8.50, 9.50, 11.50mm

HSS 1" O/D Dies:

1/4" x 28, 5/16" x 24, 3/8" x 24.

Diastock:

1" O/D.

HSS Die Nuts: 7/16" x 20, 1/2" x 20, 5/8" x 18, 3/4" x 16.

Range	No. of Pcs	Order Code	Price/1 TB
10-3/4"BSF	28	SHR-086	16500.00

UNF

**28
PIECES**



UNC, UNF, BSW and BSF Sets