

## Combined Drills & Countersinks HSS — Metric Sizes



- Plain type
- 60° countersink



Size (mm)	Drill Diameter (in.)	Body Diameter (in.)	Overall Length (in.)	HSS Code No.	Price \$
0.50 *	0.0197	1/8	13/16	116306	22.23
0.80 *	0.0315	1/8	13/16	116307	16.39
1.00	0.0394	1/8	1-1/4	116308	16.39
1.25	0.0492	1/8	1-1/4	116309	16.39
1.60	0.0630	5/32	1-5/16	116310	15.56
2.00	0.0787	0.1969	1-9/16	116311	17.37
2.50	0.0984	1/4	1-3/4	116312	19.64
3.15	0.1240	0.3150	2	116313	24.08
4.00	0.1575	0.3937	2-1/4	116314	41.12
5.00	0.1969	0.4921	2-1/2	116315	56.86
6.30	0.2480	0.6299	2-3/4	116316	83.26
8.00	0.3150	0.7874	3-1/8	116317	129.47

\* Single end

## Missile & Aircraft Series HSS



Size	Body Dia. (in.)	Drill Dia. (in.)	Drill Length (in.)	Overall Length (in.)	HSS Code No.	Price \$
000	1/8	0.020	0.02	1-1/4	116318	8.03
00	1/8	0.025	0.025	1-1/4	116319	8.03
0	1/8	1/32	1/32	1-1/4	116320	8.03

## Carbide Tipped Combined Drills & Countersinks



These drills are used for centre drilling hardened high speed steel in the range up to 65HRC.

- 60° countersink



Size	Body Diameter (in.)	Drill Diameter (in.)	Overall Length (in.)	Code No.	Price \$
4-1	5/16	3/32	2-1/8	116321	150.26
4-2	5/16	1/8	2-1/8	116322	136.61
6-1	1/2	7/32	3	116323	191.95
6-2	1/2	9/32	3	116324	191.95

## Spotting & Centering Drills HSS



To provide greater rigidity, these drills are made with short overall and flute lengths.



Size (in.)	Decimal Equiv. (in.)	Flute Length (in.)	Overall Length (in.)	Right Hand Code No.	Price \$	Left Hand Code No.	Price \$
3/8	0.3750	1	2	116325	16.05	116336	29.73
7/16	0.4375	1	2	116326	31.45	116337	40.37
1/2	0.5000	1	2	116327	28.18	116338	43.32
5/8	0.6250	1-1/8	2-1/4	116328	44.72	116339	67.60
3/4	0.7500	1-1/8	2-1/4	116329	63.73	116340	94.23
7/8	0.8750	1-1/4	2-1/2	116330	91.62	116341	133.16
1	1.0000	1-1/4	2-1/2	116331	102.92	116342	142.90
1-1/4	1.2500	2	4	116332	204.85	116343	315.01
1-1/2	1.5000	2-1/2	5	116333	319.56	116344	430.19
1-3/4	1.7500	2-3/4	5-1/2	116334	483.45	116345	659.61
2	2.000	3	6	116335	573.57	-	-

## NC/CNC Spotting Drills HSS



These drills are used for perfect alignment of the follow-on tool.

- Standard length
- Right hand cut



Size (in.)	Decimal Equiv. (in.)	Overall Length (in.)	90° Flute Length	HSS Code No.	Price \$	120° Flute Length	HSS Code No.	Price \$
1/4	0.2500	2-1/2	3/4	116346	33.49	21/32	116352	33.90
3/8	0.3750	3-1/8	1-1/8	116347	36.07	1	116353	36.48
1/2	0.5000	3-3/4	1-3/8	116348	46.17	1-3/16	116354	46.74
5/8	0.6250	4-3/8	1-5/8	116349	61.07	1-15/32	116355	60.55
3/4	0.7500	5	1-7/8	116350	77.05	1-3/4	116356	77.85
1	1.0000	6	2-1/4	116351	130.04	2-3/32	116357	131.44

## Centre Drills HSS



These drills are used for starting and centering screw machine operations. Their short flute and overall length increase rigidity while minimizing runout.



Size	Decimal Equiv. (in.)	Flute Length (in.)	Overall Length (in.)	HSS Code No.	Price \$
#56	0.0465	3/8	1-3/16	116358	3.45
1/16	0.0625	3/8	1-3/16	116359	3.45
5/64	0.0781	3/4	1-1/4	116360	3.45
3/32	0.0938	3/4	1-1/4	116361	3.75
#41	0.0960	3/4	1-1/4	116362	5.68
#40	0.0980	3/4	1-1/4	116363	3.75
7/64	0.1094	3/4	1-1/4	116364	3.75
1/8	0.1250	3/4	1-1/4	116365	3.20
#30	0.1285	3/4	1-1/4	116366	3.34
9/64	0.1406	3/4	1-1/4	116367	4.97
5/32	0.1562	1	1-1/2	116368	6.52
#21	0.1590	1	1-1/2	116369	5.55
#20	0.1610	1	1-1/2	116370	5.55
11/64	0.1719	1	1-1/2	116371	5.55
3/16	0.1875	1	1-1/2	116372	5.55
13/64	0.2031	1	1-1/2	116373	5.55
#5	0.2055	1	1-1/2	116374	5.55
7/32	0.2188	1	1-1/2	116375	5.55
1/4	0.2500	1	1-1/2	116376	6.18
9/32	0.2812	1	1-1/2	116377	8.61
5/16	0.3125	1	1-1/2	116378	10.20
29/64	0.4531	1	1-1/2	116379	24.97