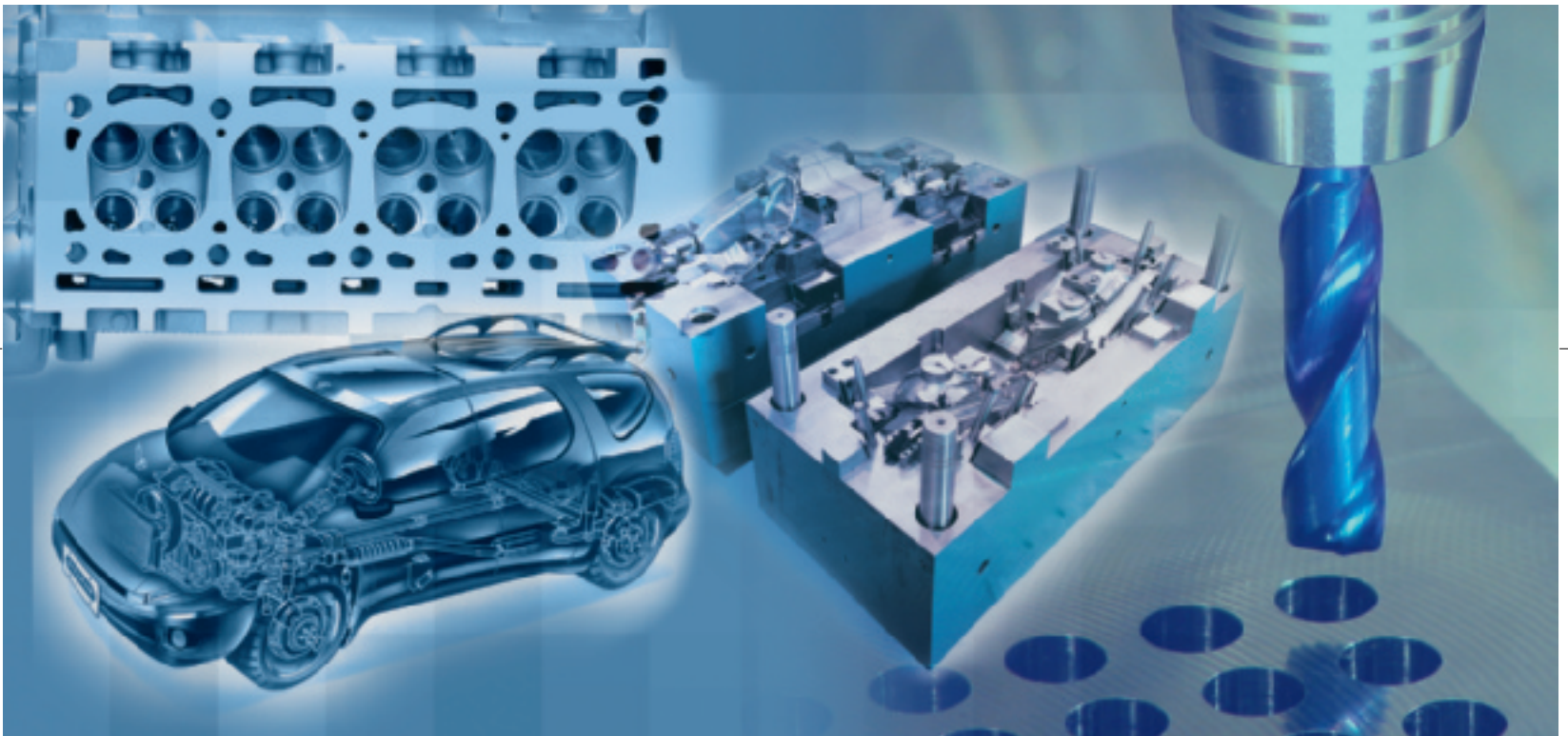




*HardCore*TM Drilling System

TECHNOLOGY BY ATI STELLRAM ●●●●



ATI Stellram tooling systems for
all your drilling requirements.



– Nomenclature

StellDrill HARDCORE Series 301

S	H	D	0317	/	0.125	/	301		HA	HCT600
↓	↓	↓	↓	↓	↓	↓	↓		↓	↓
Type	Diameter mm	Diameter inch	Series Ratio according DIN6537K					Shank	Grade	

StellDrill HARDCORE Series 501

S	H	D	0317	/	0.125	/	501		HE	HCT600
↓	↓	↓	↓	↓	↓	↓	↓		↓	↓
Type	Diameter mm	Diameter inch	Series Ratio according DIN6537L					Shank	Grade	

Please note: the shank description is in accordance with DIN6535.

HA = cylindrical shank

HE = inclined clamping flat / whistle notch

HAK = cylindrical shank internal coolant holes

HEK = inclined clamping flat / whistle notch internal coolant holes

Drilling tolerances

Common standard: DIN 6537

Shank tolerance: $(d_2) h6$

Drill tolerance: $(d_1) m7$

Hole tolerance: IT 8 - 9

Surface quality: $R_a 1 - 2$

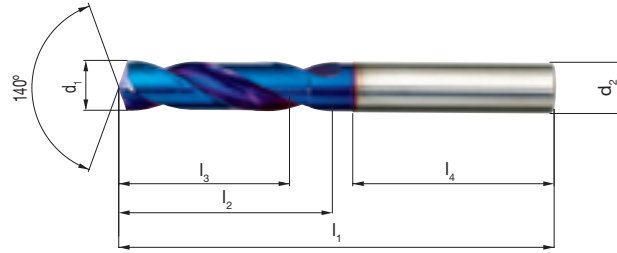
By drilling low carbon steel or stainless steel, the surface quality may be slightly inferior.

Drill tolerance – metric		
d_1	≤ 3	+ 0,012 / + 0,002
d_1	$3 \leq 6$	+ 0,016 / + 0,004
d_1	$6 \leq 10$	+ 0,021 / + 0,006
d_1	$10 \leq 16$	+ 0,025 / + 0,007

Drill tolerance – inch		
d_1	$\leq 0,118$	+ 0,000472 / + 0,0000787
d_1	$0,118 \leq 0,236$	+ 0,000623 / + 0,000157
d_1	$0,236 \leq 0,394$	+ 0,000827 / + 0,000236
d_1	$0,394 \leq 0,630$	+ 0,000984 / + 0,000275

HardCore™ – Series 301

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HARDCORE Drill Series 301

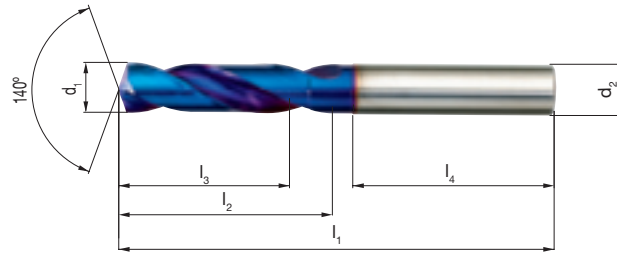
EDP#	Description	Grade	Drill Diameter d ₁ mm m ²	Drill Diameter d ₁ inch m ²	Drills for Threads	d ₂ mm Shank	d ₂ inch Shank	l ₁ mm	l ₁ inch	l ₂ mm	l ₂ inch	l ₃ mm	l ₃ inch	l ₄ mm	l ₄ inch	
029735	SHD0300/0.118/301HA	HCT600	3,00	0,118		6	0,236	62	2,441	20	0,787	14	0,551	36	1,417	◆◆◆◆
029736	SHD0300/0.118/301HE	HCT600	3,00	0,118		6	0,236	62	2,441	20	0,787	14	0,551	36	1,417	◆◆◆◆
029737	SHD0310/0.122/301HA	HCT600	3,10	0,122		6	0,236	62	2,441	20	0,787	14	0,551	36	1,417	◆◆◆◆
029738	SHD0310/0.122/301HE	HCT600	3,10	0,122		6	0,236	62	2,441	20	0,787	14	0,551	36	1,417	◆◆◆◆
029739	SHD0317/0.125/301HA	HCT600	3,17	1/8		6	0,236	62	2,441	20	0,787	14	0,551	36	1,417	◆◆◆◆
029740	SHD0317/0.125/301HE	HCT600	3,17	1/8		6	0,236	62	2,441	20	0,787	14	0,551	36	1,417	◆◆◆◆
029741	SHD0320/0.126/301HA	HCT600	3,20	0,126		6	0,236	62	2,441	20	0,787	14	0,551	36	1,417	◆◆◆◆
029742	SHD0320/0.126/301HE	HCT600	3,20	0,126		6	0,236	62	2,441	20	0,787	14	0,551	36	1,417	◆◆◆◆
029743	SHD0330/0.130/301HA	HCT600	3,30	0,130		6	0,236	62	2,441	20	0,787	14	0,551	36	1,417	◆◆◆◆
029744	SHD0330/0.130/301HE	HCT600	3,30	0,130		6	0,236	62	2,441	20	0,787	14	0,551	36	1,417	◆◆◆◆
029745	SHD0340/0.134/301HA	HCT600	3,40	0,134		6	0,236	62	2,441	20	0,787	14	0,551	36	1,417	◆◆◆◆
029746	SHD0340/0.134/301HE	HCT600	3,40	0,134		6	0,236	62	2,441	20	0,787	14	0,551	36	1,417	◆◆◆◆
029747	SHD0350/0.138/301HA	HCT600	3,50	0,138		6	0,236	62	2,441	20	0,787	14	0,551	36	1,417	◆◆◆◆
029748	SHD0350/0.138/301HE	HCT600	3,50	0,138		6	0,236	62	2,441	20	0,787	14	0,551	36	1,417	◆◆◆◆
029749	SHD0357/0.140/301HA	HCT600	3,57	9/64		6	0,236	62	2,441	20	0,787	14	0,551	36	1,417	◆◆◆◆
029750	SHD0357/0.140/301HE	HCT600	3,57	9/64		6	0,236	62	2,441	20	0,787	14	0,551	36	1,417	◆◆◆◆
029751	SHD0360/0.142/301HA	HCT600	3,60	0,142		6	0,236	62	2,441	20	0,787	14	0,551	36	1,417	◆◆◆◆
029752	SHD0360/0.142/301HE	HCT600	3,60	0,142		6	0,236	62	2,441	20	0,787	14	0,551	36	1,417	◆◆◆◆
029753	SHD0370/0.146/301HA	HCT600	3,70	0,146		6	0,236	62	2,441	20	0,787	14	0,551	36	1,417	◆◆◆◆
029754	SHD0370/0.146/301HE	HCT600	3,70	0,146		6	0,236	62	2,441	20	0,787	14	0,551	36	1,417	◆◆◆◆
029755	SHD0380/0.150/301HA	HCT600	3,80	0,150		6	0,236	66	2,598	24	0,945	17	0,669	36	1,417	◆◆◆◆
029756	SHD0380/0.150/301HE	HCT600	3,80	0,150		6	0,236	66	2,598	24	0,945	17	0,669	36	1,417	◆◆◆◆
029757	SHD0390/0.154/301HA	HCT600	3,90	0,154	10-24 UNC	6	0,236	66	2,598	24	0,945	17	0,669	36	1,417	◆◆◆◆
029758	SHD0390/0.154/301HE	HCT600	3,90	0,154	10-24 UNC	6	0,236	66	2,598	24	0,945	17	0,669	36	1,417	◆◆◆◆
029759	SHD0397/0.156/301HA	HCT600	3,97	5/32		6	0,236	66	2,598	24	0,945	17	0,669	36	1,417	◆◆◆◆
029760	SHD0397/0.156/301HE	HCT600	3,97	5/32		6	0,236	66	2,598	24	0,945	17	0,669	36	1,417	◆◆◆◆
029761	SHD0400/0.157/301HA	HCT600	4,00	0,157		6	0,236	66	2,598	24	0,945	17	0,669	36	1,417	◆◆◆◆
029762	SHD0400/0.157/301HE	HCT600	4,00	0,157		6	0,236	66	2,598	24	0,945	17	0,669	36	1,417	◆◆◆◆
029763	SHD0410/0.161/301HA	HCT600	4,10	0,161	10-32 UNF	6	0,236	66	2,598	24	0,945	17	0,669	36	1,417	◆◆◆◆
029764	SHD0410/0.161/301HE	HCT600	4,10	0,161	10-32 UNF	6	0,236	66	2,598	24	0,945	17	0,669	36	1,417	◆◆◆◆
029765	SHD0420/0.165/301HA	HCT600	4,20	0,165		6	0,236	66	2,598	24	0,945	17	0,669	36	1,417	◆◆◆◆
029766	SHD0420/0.165/301HE	HCT600	4,20	0,165		6	0,236	66	2,598	24	0,945	17	0,669	36	1,417	◆◆◆◆
029767	SHD0430/0.169/301HA	HCT600	4,30	0,169	M5	6	0,236	66	2,598	24	0,945	17	0,669	36	1,417	◆◆◆◆
029768	SHD0430/0.169/301HE	HCT600	4,30	0,169	M5	6	0,236	66	2,598	24	0,945	17	0,669	36	1,417	◆◆◆◆
029769	SHD0437/0.172/301HA	HCT600	4,37	11/64		6	0,236	66	2,598	24	0,945	17	0,669	36	1,417	◆◆◆◆
029770	SHD0437/0.172/301HE	HCT600	4,37	11/64		6	0,236	66	2,598	24	0,945	17	0,669	36	1,417	◆◆◆◆
029771	SHD0440/0.173/301HA	HCT600	4,40	0,173		6	0,236	66	2,598	24	0,945	17	0,669	36	1,417	◆◆◆◆
029772	SHD0440/0.173/301HE	HCT600	4,40	0,173		6	0,236	66	2,598	24	0,945	17	0,669	36	1,417	◆◆◆◆
029773	SHD0450/0.177/301HA	HCT600	4,50	0,177		6	0,236	66	2,598	24	0,945	17	0,669	36	1,417	◆◆◆◆
029774	SHD0450/0.177/301HE	HCT600	4,50	0,177		6	0,236	66	2,598	24	0,945	17	0,669	36	1,417	◆◆◆◆

Star Guide

Material Designations					
	P	Unalloyed Steels		M	Stainless Steels
	P	Alloyed Steels		M	PH Stainless
	K	Cast Irons		N	Aluminium & Alloys
	S	High Temp. Alloys		H	Hard Materials



Series 301 *Continued..*



HARDCORE Drill Series 301

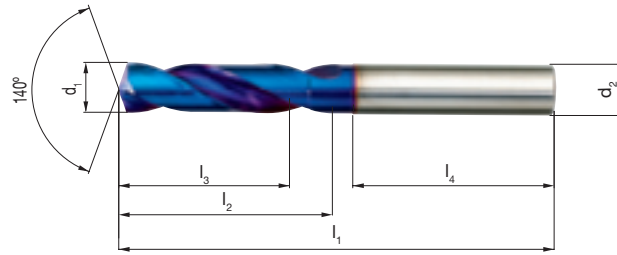
EDP#	Description	Grade	Drill Diameter d ₁ mm m ²	Drill Diameter d ₁ inch m ²	Drills for Threads	d ₂ mm Shank	d ₂ inch Shank	l ₁ mm	l ₁ inch	l ₂ mm	l ₂ inch	l ₃ mm	l ₃ inch	l ₄ mm	l ₄ inch	
029775	SHD0460/0.181/301HA	HCT600	4,60	0,181		6	0,236	66	2,598	24	0,945	17	0,669	36	1,417	◆◆◆◆
029776	SHD0460/0.181/301HE	HCT600	4,60	0,181		6	0,236	66	2,598	24	0,945	17	0,669	36	1,417	◆◆◆◆
029777	SHD0470/0.185/301HA	HCT600	4,70	0,185		6	0,236	66	2,598	24	0,945	17	0,669	36	1,417	◆◆◆◆
029778	SHD0470/0.185/301HE	HCT600	4,70	0,185		6	0,236	66	2,598	24	0,945	17	0,669	36	1,417	◆◆◆◆
029779	SHD0476/0.187/301HA	HCT600	4,76	3/16		6	0,236	66	2,598	28	1,102	20	0,787	36	1,417	◆◆◆◆
029780	SHD0476/0.187/301HE	HCT600	4,76	3/16		6	0,236	66	2,598	28	1,102	20	0,787	36	1,417	◆◆◆◆
029781	SHD0480/0.189/301HA	HCT600	4,80	0,189	12-32 UNF	6	0,236	66	2,598	28	1,102	20	0,787	36	1,417	◆◆◆◆
029782	SHD0480/0.189/301HE	HCT600	4,80	0,189	12-32 UNF	6	0,236	66	2,598	28	1,102	20	0,787	36	1,417	◆◆◆◆
029783	SHD0490/0.193/301HA	HCT600	4,90	0,193		6	0,236	66	2,598	28	1,102	20	0,787	36	1,417	◆◆◆◆
029784	SHD0490/0.193/301HE	HCT600	4,90	0,193		6	0,236	66	2,598	28	1,102	20	0,787	36	1,417	◆◆◆◆
030363	SHD0500/0.197/301HA	HCT600	5,00	0,197		6	0,236	66	2,598	28	1,102	20	0,787	36	1,417	◆◆◆◆
029785	SHD0500/0.197/301HE	HCT600	5,00	0,197		6	0,236	66	2,598	28	1,102	20	0,787	36	1,417	◆◆◆◆
029786	SHD0510/0.201/301HA	HCT600	5,10	0,201	M6	6	0,236	66	2,598	28	1,102	20	0,787	36	1,417	◆◆◆◆
029787	SHD0510/0.201/301HE	HCT600	5,10	0,201	M6	6	0,236	66	2,598	28	1,102	20	0,787	36	1,417	◆◆◆◆
029788	SHD0516/0.203/301HA	HCT600	5,16	13/64		6	0,236	66	2,598	28	1,102	20	0,787	36	1,417	◆◆◆◆
029789	SHD0516/0.203/301HE	HCT600	5,16	13/64		6	0,236	66	2,598	28	1,102	20	0,787	36	1,417	◆◆◆◆
029790	SHD0520/0.205/301HA	HCT600	5,20	0,205		6	0,236	66	2,598	28	1,102	20	0,787	36	1,417	◆◆◆◆
029791	SHD0520/0.205/301HE	HCT600	5,20	0,205		6	0,236	66	2,598	28	1,102	20	0,787	36	1,417	◆◆◆◆
029792	SHD0530/0.209/301HA	HCT600	5,30	0,209		6	0,236	66	2,598	28	1,102	20	0,787	36	1,417	◆◆◆◆
029793	SHD0530/0.209/301HE	HCT600	5,30	0,209		6	0,236	66	2,598	28	1,102	20	0,787	36	1,417	◆◆◆◆
029794	SHD0540/0.213/301HA	HCT600	5,40	0,213		6	0,236	66	2,598	28	1,102	20	0,787	36	1,417	◆◆◆◆
029795	SHD0540/0.213/301HE	HCT600	5,40	0,213		6	0,236	66	2,598	28	1,102	20	0,787	36	1,417	◆◆◆◆
029796	SHD0550/0.217/301HA	HCT600	5,50	0,217		6	0,236	66	2,598	28	1,102	20	0,787	36	1,417	◆◆◆◆
029797	SHD0550/0.217/301HE	HCT600	5,50	0,217		6	0,236	66	2,598	28	1,102	20	0,787	36	1,417	◆◆◆◆
029798	SHD0556/0.219/301HA	HCT600	5,56	7/32		6	0,236	66	2,598	28	1,102	20	0,787	36	1,417	◆◆◆◆
029799	SHD0556/0.219/301HE	HCT600	5,56	7/32		6	0,236	66	2,598	28	1,102	20	0,787	36	1,417	◆◆◆◆
029800	SHD0560/0.220/301HA	HCT600	5,60	0,220		6	0,236	66	2,598	28	1,102	20	0,787	36	1,417	◆◆◆◆
029801	SHD0560/0.220/301HE	HCT600	5,60	0,220		6	0,236	66	2,598	28	1,102	20	0,787	36	1,417	◆◆◆◆
029802	SHD0570/0.224/301HA	HCT600	5,70	0,224		6	0,236	66	2,598	28	1,102	20	0,787	36	1,417	◆◆◆◆
029803	SHD0570/0.224/301HE	HCT600	5,70	0,224		6	0,236	66	2,598	28	1,102	20	0,787	36	1,417	◆◆◆◆
029804	SHD0580/0.228/301HA	HCT600	5,80	0,228		6	0,236	66	2,598	28	1,102	20	0,787	36	1,417	◆◆◆◆
029805	SHD0580/0.228/301HE	HCT600	5,80	0,228		6	0,236	66	2,598	28	1,102	20	0,787	36	1,417	◆◆◆◆
029806	SHD0590/0.232/301HA	HCT600	5,90	0,232		6	0,236	66	2,598	28	1,102	20	0,787	36	1,417	◆◆◆◆
029807	SHD0590/0.232/301HE	HCT600	5,90	0,232		6	0,236	66	2,598	28	1,102	20	0,787	36	1,417	◆◆◆◆
029808	SHD0595/0.234/301HA	HCT600	5,95	15/64		6	0,236	66	2,598	28	1,102	20	0,787	36	1,417	◆◆◆◆
029809	SHD0595/0.234/301HE	HCT600	5,95	15/64		6	0,236	66	2,598	28	1,102	20	0,787	36	1,417	◆◆◆◆
029810	SHD0600/0.236/301HA	HCT600	6,00	0,236		6	0,236	66	2,598	28	1,102	20	0,787	36	1,417	◆◆◆◆
029811	SHD0600/0.236/301HE	HCT600	6,00	0,236		6	0,236	66	2,598	28	1,102	20	0,787	36	1,417	◆◆◆◆
029812	SHD0610/0.240/301HA	HCT600	6,10	0,240		8	0,315	79	3,110	34	1,339	24	0,945	36	1,417	◆◆◆◆
029813	SHD0610/0.240/301HE	HCT600	6,10	0,240		8	0,315	79	3,110	34	1,339	24	0,945	36	1,417	◆◆◆◆

Star Guide

Material Designations											
	P	Unalloyed Steels		M	Stainless Steels		K	Cast Irons		S	High Temp. Alloys
	P	Alloyed Steels		M	PH Stainless		N	Aluminium & Alloys		H	Hard Materials

HardCore™ – Series 301 *Continued..*

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HARDCORE Drill Series 301

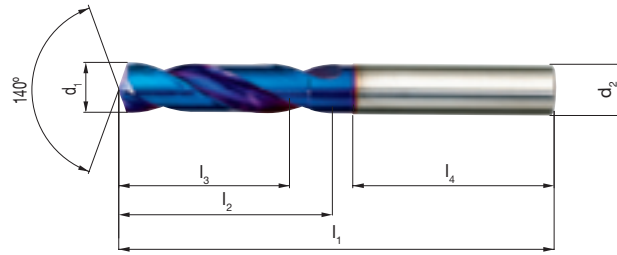
EDP#	Description	Grade	Drill Diameter d ₁ mm m ²	Drill Diameter d ₁ inch m ²	Drills for Threads	d ₂ mm Shank	d ₂ inch Shank	l ₁ mm	l ₁ inch	l ₂ mm	l ₂ inch	l ₃ mm	l ₃ inch	l ₄ mm	l ₄ inch	
030364	SHD0620/0.244/301HA	HCT600	6,20	0,244		8	0,315	79	3,110	34	1,339	24	0,945	36	1,417	◆◆◆◆
029814	SHD0620/0.244/301HE	HCT600	6,20	0,244		8	0,315	79	3,110	34	1,339	24	0,945	36	1,417	◆◆◆◆
029815	SHD0630/0.248/301HA	HCT600	6,30	0,248		8	0,315	79	3,110	34	1,339	24	0,945	36	1,417	◆◆◆◆
030365	SHD0630/0.248/301HE	HCT600	6,30	0,248		8	0,315	79	3,110	34	1,339	24	0,945	36	1,417	◆◆◆◆
029816	SHD0635/0.250/301HA	HCT600	6,35	1/4		8	0,315	79	3,110	34	1,339	24	0,945	36	1,417	◆◆◆◆
029817	SHD0635/0.250/301HE	HCT600	6,35	1/4		8	0,315	79	3,110	34	1,339	24	0,945	36	1,417	◆◆◆◆
029818	SHD0640/0.252/301HA	HCT600	6,40	0,252		8	0,315	79	3,110	34	1,339	24	0,945	36	1,417	◆◆◆◆
029819	SHD0640/0.252/301HE	HCT600	6,40	0,252		8	0,315	79	3,110	34	1,339	24	0,945	36	1,417	◆◆◆◆
029820	SHD0650/0.256/301HA	HCT600	6,50	0,256		8	0,315	79	3,110	34	1,339	24	0,945	36	1,417	◆◆◆◆
029821	SHD0650/0.256/301HE	HCT600	6,50	0,256		8	0,315	79	3,110	34	1,339	24	0,945	36	1,417	◆◆◆◆
029822	SHD0660/0.260/301HA	HCT600	6,60	0,260		8	0,315	79	3,110	34	1,339	24	0,945	36	1,417	◆◆◆◆
029823	SHD0660/0.260/301HE	HCT600	6,60	0,260		8	0,315	79	3,110	34	1,339	24	0,945	36	1,417	◆◆◆◆
029824	SHD0670/0.264/301HA	HCT600	6,70	0,264	5/18-18UNF	8	0,315	79	3,110	34	1,339	24	0,945	36	1,417	◆◆◆◆
029825	SHD0670/0.264/301HE	HCT600	6,70	0,264	5/18-18UNF	8	0,315	79	3,110	34	1,339	24	0,945	36	1,417	◆◆◆◆
029826	SHD0675/0.266/301HA	HCT600	6,75	17/64		8	0,315	79	3,110	34	1,339	24	0,945	36	1,417	◆◆◆◆
029827	SHD0675/0.266/301HE	HCT600	6,75	17/64		8	0,315	79	3,110	34	1,339	24	0,945	36	1,417	◆◆◆◆
029828	SHD0680/0.268/301HA	HCT600	6,80	0,268		8	0,315	79	3,110	34	1,339	24	0,945	36	1,417	◆◆◆◆
029829	SHD0680/0.268/301HE	HCT600	6,80	0,268		8	0,315	79	3,110	34	1,339	24	0,945	36	1,417	◆◆◆◆
029830	SHD0690/0.272/301HA	HCT600	6,90	0,272		8	0,315	79	3,110	34	1,339	24	0,945	36	1,417	◆◆◆◆
029831	SHD0690/0.272/301HE	HCT600	6,90	0,272		8	0,315	79	3,110	34	1,339	24	0,945	36	1,417	◆◆◆◆
029832	SHD0700/0.276/301HA	HCT600	7,00	0,276		8	0,315	79	3,110	34	1,339	24	0,945	36	1,417	◆◆◆◆
029833	SHD0700/0.276/301HE	HCT600	7,00	0,276		8	0,315	79	3,110	34	1,339	24	0,945	36	1,417	◆◆◆◆
029834	SHD0710/0.280/301HA	HCT600	7,10	0,280	MF8x1	8	0,315	79	3,110	41	1,614	29	1,142	36	1,417	◆◆◆◆
030366	SHD0710/0.280/301HE	HCT600	7,10	0,280	MF8x1	8	0,315	79	3,110	41	1,614	29	1,142	36	1,417	◆◆◆◆
029835	SHD0714/0.281/301HA	HCT600	7,14	9/32		8	0,315	79	3,110	41	1,614	29	1,142	36	1,417	◆◆◆◆
029836	SHD0714/0.281/301HE	HCT600	7,14	9/32		8	0,315	79	3,110	41	1,614	29	1,142	36	1,417	◆◆◆◆
029837	SHD0720/0.283/301HA	HCT600	7,20	0,283		8	0,315	79	3,110	41	1,614	29	1,142	36	1,417	◆◆◆◆
029838	SHD0720/0.283/301HE	HCT600	7,20	0,283		8	0,315	79	3,110	41	1,614	29	1,142	36	1,417	◆◆◆◆
029839	SHD0730/0.287/301HA	HCT600	7,30	0,287		8	0,315	79	3,110	41	1,614	29	1,142	36	1,417	◆◆◆◆
029840	SHD0730/0.287/301HE	HCT600	7,30	0,287		8	0,315	79	3,110	41	1,614	29	1,142	36	1,417	◆◆◆◆
029841	SHD0740/0.291/301HA	HCT600	7,40	0,291		8	0,315	79	3,110	41	1,614	29	1,142	36	1,417	◆◆◆◆
029842	SHD0740/0.291/301HE	HCT600	7,40	0,291		8	0,315	79	3,110	41	1,614	29	1,142	36	1,417	◆◆◆◆
029843	SHD0750/0.295/301HA	HCT600	7,50	0,295		8	0,315	79	3,110	41	1,614	29	1,142	36	1,417	◆◆◆◆
029844	SHD0750/0.295/301HE	HCT600	7,50	0,295		8	0,315	79	3,110	41	1,614	29	1,142	36	1,417	◆◆◆◆
029845	SHD0754/0.297/301HA	HCT600	7,54	19/64		8	0,315	79	3,110	41	1,614	29	1,142	36	1,417	◆◆◆◆
029846	SHD0754/0.297/301HE	HCT600	7,54	19/64		8	0,315	79	3,110	41	1,614	29	1,142	36	1,417	◆◆◆◆
029847	SHD0760/0.299/301HA	HCT600	7,60	0,299		8	0,315	79	3,110	41	1,614	29	1,142	36	1,417	◆◆◆◆
029848	SHD0760/0.299/301HE	HCT600	7,60	0,299		8	0,315	79	3,110	41	1,614	29	1,142	36	1,417	◆◆◆◆
029849	SHD0770/0.303/301HA	HCT600	7,70	0,303		8	0,315	79	3,110	41	1,614	29	1,142	36	1,417	◆◆◆◆
029850	SHD0770/0.303/301HE	HCT600	7,70	0,303		8	0,315	79	3,110	41	1,614	29	1,142	36	1,417	◆◆◆◆

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Material Designations					
	P	Unalloyed Steels		M	Stainless Steels
	P	Alloyed Steels		M	PH Stainless
	K	Cast Irons		N	Aluminium & Alloys
	S	High Temp. Alloys		H	Hard Materials

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HARDCORE Drill Series 301

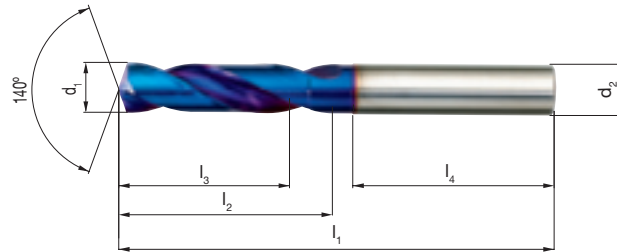
EDP#	Description	Grade	Drill Diameter d ₁ mm m ²	Drill Diameter d ₁ inch m ²	Drills for Threads	d ₂ mm Shank	d ₂ inch Shank	l ₁ mm	l ₁ inch	l ₂ mm	l ₂ inch	l ₃ mm	l ₃ inch	l ₄ mm	l ₄ inch	
029851	SHD0780/0.307/301HA	HCT600	7,80	0,307		8	0,315	79	3,110	41	1,614	29	1,142	36	1,417	◆◆◆◆
029852	SHD0780/0.307/301HE	HCT600	7,80	0,307		8	0,315	79	3,110	41	1,614	29	1,142	36	1,417	◆◆◆◆
029853	SHD0790/0.311/301HA	HCT600	7,90	0,311		8	0,315	79	3,110	41	1,614	29	1,142	36	1,417	◆◆◆◆
029854	SHD0790/0.311/301HE	HCT600	7,90	0,311		8	0,315	79	3,110	41	1,614	29	1,142	36	1,417	◆◆◆◆
029855	SHD0794/0.313/301HA	HCT600	7,94	5/16		8	0,315	79	3,110	41	1,614	29	1,142	36	1,417	◆◆◆◆
029856	SHD0794/0.313/301HE	HCT600	7,94	5/16		8	0,315	79	3,110	41	1,614	29	1,142	36	1,417	◆◆◆◆
029857	SHD0800/0.315/301HA	HCT600	8,00	0,315		8	0,315	79	3,110	41	1,614	29	1,142	36	1,417	◆◆◆◆
029858	SHD0800/0.315/301HE	HCT600	8,00	0,315		8	0,315	79	3,110	41	1,614	29	1,142	36	1,417	◆◆◆◆
029859	SHD0810/0.319/301HA	HCT600	8,10	0,319		10	0,394	89	3,504	47	1,850	35	1,378	40	1,575	◆◆◆◆
029860	SHD0810/0.319/301HE	HCT600	8,10	0,319		10	0,394	89	3,504	47	1,850	35	1,378	40	1,575	◆◆◆◆
029861	SHD0820/0.323/301HA	HCT600	8,20	0,323		10	0,394	89	3,504	47	1,850	35	1,378	40	1,575	◆◆◆◆
029862	SHD0820/0.323/301HE	HCT600	8,20	0,323		10	0,394	89	3,504	47	1,850	35	1,378	40	1,575	◆◆◆◆
029863	SHD0830/0.327/301HA	HCT600	8,30	0,327		10	0,394	89	3,504	47	1,850	35	1,378	40	1,575	◆◆◆◆
029864	SHD0830/0.327/301HE	HCT600	8,30	0,327		10	0,394	89	3,504	47	1,850	35	1,378	40	1,575	◆◆◆◆
029865	SHD0833/0.328/301HA	HCT600	8,33	21/64		10	0,394	89	3,504	47	1,850	35	1,378	40	1,575	◆◆◆◆
029866	SHD0833/0.328/301HE	HCT600	8,33	21/64		10	0,394	89	3,504	47	1,850	35	1,378	40	1,575	◆◆◆◆
029867	SHD0840/0.331/301HA	HCT600	8,40	0,331		10	0,394	89	3,504	47	1,850	35	1,378	40	1,575	◆◆◆◆
029868	SHD0840/0.331/301HE	HCT600	8,40	0,331		10	0,394	89	3,504	47	1,850	35	1,378	40	1,575	◆◆◆◆
029869	SHD0850/0.335/301HA	HCT600	8,50	0,335		10	0,394	89	3,504	47	1,850	35	1,378	40	1,575	◆◆◆◆
029870	SHD0850/0.335/301HE	HCT600	8,50	0,335		10	0,394	89	3,504	47	1,850	35	1,378	40	1,575	◆◆◆◆
029871	SHD0860/0.339/301HA	HCT600	8,60	0,339	3/8-24 UNF	10	0,394	89	3,504	47	1,850	35	1,378	40	1,575	◆◆◆◆
029872	SHD0860/0.339/301HE	HCT600	8,60	0,339	3/8-24 UNF	10	0,394	89	3,504	47	1,850	35	1,378	40	1,575	◆◆◆◆
029873	SHD0870/0.343/301HA	HCT600	8,70	0,343	M10	10	0,394	89	3,504	47	1,850	35	1,378	40	1,575	◆◆◆◆
029874	SHD0870/0.343/301HE	HCT600	8,70	0,343	M10	10	0,394	89	3,504	47	1,850	35	1,378	40	1,575	◆◆◆◆
029875	SHD0873/0.344/301HA	HCT600	8,73	11/32		10	0,394	89	3,504	47	1,850	35	1,378	40	1,575	◆◆◆◆
029876	SHD0873/0.344/301HE	HCT600	8,73	11/32		10	0,394	89	3,504	47	1,850	35	1,378	40	1,575	◆◆◆◆
029877	SHD0880/0.346/301HA	HCT600	8,80	0,346		10	0,394	89	3,504	47	1,850	35	1,378	40	1,575	◆◆◆◆
029878	SHD0880/0.346/301HE	HCT600	8,80	0,346		10	0,394	89	3,504	47	1,850	35	1,378	40	1,575	◆◆◆◆
029879	SHD0890/0.350/301HA	HCT600	8,90	0,350	MF10x1,25	10	0,394	89	3,504	47	1,850	35	1,378	40	1,575	◆◆◆◆
029880	SHD0890/0.350/301HE	HCT600	8,90	0,350	MF10x1,25	10	0,394	89	3,504	47	1,850	35	1,378	40	1,575	◆◆◆◆
029881	SHD0900/0.354/301HA	HCT600	9,00	0,354		10	0,394	89	3,504	47	1,850	35	1,378	40	1,575	◆◆◆◆
029882	SHD0900/0.354/301HE	HCT600	9,00	0,354		10	0,394	89	3,504	47	1,850	35	1,378	40	1,575	◆◆◆◆
029883	SHD0910/0.358/301HA	HCT600	9,10	0,358		10	0,394	89	3,504	47	1,850	35	1,378	40	1,575	◆◆◆◆
029884	SHD0910/0.358/301HE	HCT600	9,10	0,358		10	0,394	89	3,504	47	1,850	35	1,378	40	1,575	◆◆◆◆
029885	SHD0913/0.359/301HA	HCT600	9,13	23/64		10	0,394	89	3,504	47	1,850	35	1,378	40	1,575	◆◆◆◆
029886	SHD0913/0.359/301HE	HCT600	9,13	23/64		10	0,394	89	3,504	47	1,850	35	1,378	40	1,575	◆◆◆◆
029887	SHD0920/0.362/301HA	HCT600	9,20	0,362		10	0,394	89	3,504	47	1,850	35	1,378	40	1,575	◆◆◆◆
029888	SHD0920/0.362/301HE	HCT600	9,20	0,362		10	0,394	89	3,504	47	1,850	35	1,378	40	1,575	◆◆◆◆
029889	SHD0930/0.366/301HA	HCT600	9,30	0,366		10	0,394	89	3,504	47	1,850	35	1,378	40	1,575	◆◆◆◆
029890	SHD0930/0.366/301HE	HCT600	9,30	0,366		10	0,394	89	3,504	47	1,850	35	1,378	40	1,575	◆◆◆◆

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Material Designations								
	P ◆◆◆◆	Unalloyed Steels	M ◆◆◆◆	Stainless Steels	K ◆◆◆◆	Cast Irons	S ◆◆◆◆	High Temp. Alloys
	P ◆◆◆◆	Alloyed Steels	M ◆◆◆◆	PH Stainless	N ◆◆◆◆	Aluminium & Alloys	H ◆◆◆◆	Hard Materials

HardCore™ – Series 301 *Continued..*

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HARDCORE Drill Series 301

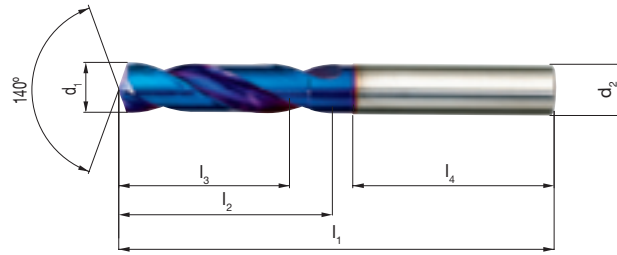
EDP#	Description	Grade	Drill Diameter d ₁ mm m ⁷	Drill Diameter d ₁ inch m ⁷	Drills for Threads	d ₂ mm Shank	d ₂ inch Shank	l ₁ mm	l ₁ inch	l ₂ mm	l ₂ inch	l ₃ mm	l ₃ inch	l ₄ mm	l ₄ inch	
029891	SHD0940/0.370/301HA	HCT600	9,40	0,370		10	0,394	89	3,504	47	1,850	35	1,378	40	1,575	◆◆◆◆
029892	SHD0940/0.370/301HE	HCT600	9,40	0,370		10	0,394	89	3,504	47	1,850	35	1,378	40	1,575	◆◆◆◆
029893	SHD0950/0.374/301HA	HCT600	9,50	0,374		10	0,394	89	3,504	47	1,850	35	1,378	40	1,575	◆◆◆◆
029894	SHD0950/0.374/301HE	HCT600	9,50	0,374		10	0,394	89	3,504	47	1,850	35	1,378	40	1,575	◆◆◆◆
029895	SHD0952/0.375/301HA	HCT600	9,52	3/8		10	0,394	89	3,504	47	1,850	35	1,378	40	1,575	◆◆◆◆
029896	SHD0952/0.375/301HE	HCT600	9,52	3/8		10	0,394	89	3,504	47	1,850	35	1,378	40	1,575	◆◆◆◆
029897	SHD0960/0.378/301HA	HCT600	9,60	0,378		10	0,394	89	3,504	47	1,850	35	1,378	40	1,575	◆◆◆◆
029898	SHD0960/0.378/301HE	HCT600	9,60	0,378		10	0,394	89	3,504	47	1,850	35	1,378	40	1,575	◆◆◆◆
029899	SHD0970/0.382/301HA	HCT600	9,70	0,382		10	0,394	89	3,504	47	1,850	35	1,378	40	1,575	◆◆◆◆
029900	SHD0970/0.382/301HE	HCT600	9,70	0,382		10	0,394	89	3,504	47	1,850	35	1,378	40	1,575	◆◆◆◆
029901	SHD0980/0.386/301HA	HCT600	9,80	0,386		10	0,394	89	3,504	47	1,850	35	1,378	40	1,575	◆◆◆◆
029902	SHD0980/0.386/301HE	HCT600	9,80	0,386		10	0,394	89	3,504	47	1,850	35	1,378	40	1,575	◆◆◆◆
029903	SHD0990/0.390/301HA	HCT600	9,90	0,390		10	0,394	89	3,504	47	1,850	35	1,378	40	1,575	◆◆◆◆
029904	SHD0990/0.390/301HE	HCT600	9,90	0,390		10	0,394	89	3,504	47	1,850	35	1,378	40	1,575	◆◆◆◆
029905	SHD0992/0.391/301HA	HCT600	9,92	25/64		10	0,394	89	3,504	47	1,850	35	1,378	40	1,575	◆◆◆◆
029906	SHD0992/0.391/301HE	HCT600	9,92	25/64		10	0,394	89	3,504	47	1,850	35	1,378	40	1,575	◆◆◆◆
029907	SHD1000/0.394/301HA	HCT600	10,00	0,394	7/16-20 UNF	10	0,394	89	3,504	47	1,850	35	1,378	40	1,575	◆◆◆◆
029908	SHD1000/0.394/301HE	HCT600	10,00	0,394	7/16-20 UNF	10	0,394	89	3,504	47	1,850	35	1,378	40	1,575	◆◆◆◆
029909	SHD1010/0.398/301HA	HCT600	10,10	0,398		12	0,472	102	4,016	55	2,165	40	1,575	45	1,772	◆◆◆◆
029910	SHD1010/0.398/301HE	HCT600	10,10	0,398		12	0,472	102	4,016	55	2,165	40	1,575	45	1,772	◆◆◆◆
029911	SHD1020/0.402/301HA	HCT600	10,20	0,402		12	0,472	102	4,016	55	2,165	40	1,575	45	1,772	◆◆◆◆
029912	SHD1020/0.402/301HE	HCT600	10,20	0,402		12	0,472	102	4,016	55	2,165	40	1,575	45	1,772	◆◆◆◆
029913	SHD1030/0.406/301HA	HCT600	10,30	0,406		12	0,472	102	4,016	55	2,165	40	1,575	45	1,772	◆◆◆◆
029914	SHD1030/0.406/301HE	HCT600	10,30	0,406		12	0,472	102	4,016	55	2,165	40	1,575	45	1,772	◆◆◆◆
029915	SHD1032/0.407/301HA	HCT600	10,32	13/32		12	0,472	102	4,016	55	2,165	40	1,575	45	1,772	◆◆◆◆
029916	SHD1032/0.407/301HE	HCT600	10,32	13/32		12	0,472	102	4,016	55	2,165	40	1,575	45	1,772	◆◆◆◆
029917	SHD1040/0.409/301HA	HCT600	10,40	0,409		12	0,472	102	4,016	55	2,165	40	1,575	45	1,772	◆◆◆◆
029918	SHD1040/0.409/301HE	HCT600	10,40	0,409		12	0,472	102	4,016	55	2,165	40	1,575	45	1,772	◆◆◆◆
029919	SHD1050/0.413/301HA	HCT600	10,50	0,413		12	0,472	102	4,016	55	2,165	40	1,575	45	1,772	◆◆◆◆
029920	SHD1050/0.413/301HE	HCT600	10,50	0,413		12	0,472	102	4,016	55	2,165	40	1,575	45	1,772	◆◆◆◆
029921	SHD1060/0.417/301HA	HCT600	10,60	0,417		12	0,472	102	4,016	55	2,165	40	1,575	45	1,772	◆◆◆◆
029922	SHD1060/0.417/301HE	HCT600	10,60	0,417		12	0,472	102	4,016	55	2,165	40	1,575	45	1,772	◆◆◆◆
029923	SHD1070/0.421/301HA	HCT600	10,70	0,421	MF12x1,5	12	0,472	102	4,016	55	2,165	40	1,575	45	1,772	◆◆◆◆
029924	SHD1070/0.421/301HE	HCT600	10,70	0,421	MF12x1,5	12	0,472	102	4,016	55	2,165	40	1,575	45	1,772	◆◆◆◆
029925	SHD1080/0.425/301HA	HCT600	10,80	0,425		12	0,472	102	4,016	55	2,165	40	1,575	45	1,772	◆◆◆◆
029926	SHD1080/0.425/301HE	HCT600	10,80	0,425		12	0,472	102	4,016	55	2,165	40	1,575	45	1,772	◆◆◆◆
029927	SHD1090/0.429/301HA	HCT600	10,90	0,429		12	0,472	102	4,016	55	2,165	40	1,575	45	1,772	◆◆◆◆
029928	SHD1090/0.429/301HE	HCT600	10,90	0,429		12	0,472	102	4,016	55	2,165	40	1,575	45	1,772	◆◆◆◆
029929	SHD1100/0.433/301HA	HCT600	11,00	0,433		12	0,472	102	4,016	55	2,165	40	1,575	45	1,772	◆◆◆◆
029930	SHD1100/0.433/301HE	HCT600	11,00	0,433		12	0,472	102	4,016	55	2,165	40	1,575	45	1,772	◆◆◆◆

Star Guide

Material Designations					
	P ◆ Unalloyed Steels		M ◆ Stainless Steels		K ◆ Cast Irons
	P ◆ Alloyed Steels		M ◆ PH Stainless		N ◆ Aluminium & Alloys
					S ◆ High Temp. Alloys
					H ◆ Hard Materials



Series 301 *Continued..*



HARDCORE Drill Series 301

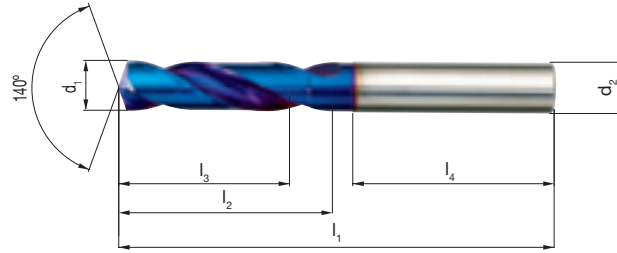
EDP#	Description	Grade	Drill Diameter d ₁ mm m ²	Drill Diameter d ₁ inch m ²	Drills for Threads	d ₂ mm Shank	d ₂ inch Shank	l ₁ mm	l ₁ inch	l ₂ mm	l ₂ inch	l ₃ mm	l ₃ inch	l ₄ mm	l ₄ inch	
029931	SHD1110/0.437/301HA	HCT600	11,10	0,437		12	0,472	102	4,016	55	2,165	40	1,575	45	1,772	◆◆◆◆
029932	SHD1110/0.437/301HE	HCT600	11,10	0,437		12	0,472	102	4,016	55	2,165	40	1,575	45	1,772	◆◆◆◆
029933	SHD1120/0.441/301HA	HCT600	11,20	0,441		12	0,472	102	4,016	55	2,165	40	1,575	45	1,772	◆◆◆◆
029934	SHD1120/0.441/301HE	HCT600	11,20	0,441		12	0,472	102	4,016	55	2,165	40	1,575	45	1,772	◆◆◆◆
029935	SHD1130/0.445/301HA	HCT600	11,30	0,445		12	0,472	102	4,016	55	2,165	40	1,575	45	1,772	◆◆◆◆
029936	SHD1130/0.445/301HE	HCT600	11,30	0,445		12	0,472	102	4,016	55	2,165	40	1,575	45	1,772	◆◆◆◆
029937	SHD1140/0.449/301HA	HCT600	11,40	0,449		12	0,472	102	4,016	55	2,165	40	1,575	45	1,772	◆◆◆◆
029938	SHD1140/0.449/301HE	HCT600	11,40	0,449		12	0,472	102	4,016	55	2,165	40	1,575	45	1,772	◆◆◆◆
029939	SHD1150/0.453/301HA	HCT600	11,50	0,453		12	0,472	102	4,016	55	2,165	40	1,575	45	1,772	◆◆◆◆
029940	SHD1150/0.453/301HE	HCT600	11,50	0,453		12	0,472	102	4,016	55	2,165	40	1,575	45	1,772	◆◆◆◆
029941	SHD1151/0.453/301HA	HCT600	11,51	29/64		12	0,472	102	4,016	55	2,165	40	1,575	45	1,772	◆◆◆◆
029942	SHD1151/0.453/301HE	HCT600	11,51	29/64		12	0,472	102	4,016	55	2,165	40	1,575	45	1,772	◆◆◆◆
029943	SHD1160/0.457/301HA	HCT600	11,60	0,457	1/2-20 UNF	12	0,472	102	4,016	55	2,165	40	1,575	45	1,772	◆◆◆◆
029944	SHD1160/0.457/301HE	HCT600	11,60	0,457	1/2-20 UNF	12	0,472	102	4,016	55	2,165	40	1,575	45	1,772	◆◆◆◆
029945	SHD1170/0.461/301HA	HCT600	11,70	0,461		12	0,472	102	4,016	55	2,165	40	1,575	45	1,772	◆◆◆◆
029946	SHD1170/0.461/301HE	HCT600	11,70	0,461		12	0,472	102	4,016	55	2,165	40	1,575	45	1,772	◆◆◆◆
029947	SHD1180/0.465/301HA	HCT600	11,80	0,465		12	0,472	102	4,016	55	2,165	40	1,575	45	1,772	◆◆◆◆
029948	SHD1180/0.465/301HE	HCT600	11,80	0,465		12	0,472	102	4,016	55	2,165	40	1,575	45	1,772	◆◆◆◆
029949	SHD1190/0.469/301HA	HCT600	11,90	0,469		12	0,472	102	4,016	55	2,165	40	1,575	45	1,772	◆◆◆◆
029950	SHD1190/0.469/301HE	HCT600	11,90	0,469		12	0,472	102	4,016	55	2,165	40	1,575	45	1,772	◆◆◆◆
029951	SHD1200/0.472/301HA	HCT600	12,00	0,472		12	0,472	102	4,016	55	2,165	40	1,575	45	1,772	◆◆◆◆
029952	SHD1200/0.472/301HE	HCT600	12,00	0,472		12	0,472	102	4,016	55	2,165	40	1,575	45	1,772	◆◆◆◆
029953	SHD1210/0.476/301HA	HCT600	12,10	0,476		14	0,551	107	4,213	60	2,362	43	1,693	45	1,772	◆◆◆◆
029954	SHD1210/0.476/301HE	HCT600	12,10	0,476		14	0,551	107	4,213	60	2,362	43	1,693	45	1,772	◆◆◆◆
029955	SHD1220/0.480/301HA	HCT600	12,20	0,480		14	0,551	107	4,213	60	2,362	43	1,693	45	1,772	◆◆◆◆
029956	SHD1220/0.480/301HE	HCT600	12,20	0,480		14	0,551	107	4,213	60	2,362	43	1,693	45	1,772	◆◆◆◆
029957	SHD1230/0.484/301HA	HCT600	12,30	31/64		14	0,551	107	4,213	60	2,362	43	1,693	45	1,772	◆◆◆◆
029958	SHD1230/0.484/301HE	HCT600	12,30	31/64		14	0,551	107	4,213	60	2,362	43	1,693	45	1,772	◆◆◆◆
029959	SHD1240/0.488/301HA	HCT600	12,40	0,488		14	0,551	107	4,213	60	2,362	43	1,693	45	1,772	◆◆◆◆
029960	SHD1240/0.488/301HE	HCT600	12,40	0,488		14	0,551	107	4,213	60	2,362	43	1,693	45	1,772	◆◆◆◆
029961	SHD1250/0.492/301HA	HCT600	12,50	0,492		14	0,551	107	4,213	60	2,362	43	1,693	45	1,772	◆◆◆◆
029962	SHD1250/0.492/301HE	HCT600	12,50	0,492		14	0,551	107	4,213	60	2,362	43	1,693	45	1,772	◆◆◆◆
029963	SHD1260/0.496/301HA	HCT600	12,60	0,496		14	0,551	107	4,213	60	2,362	43	1,693	45	1,772	◆◆◆◆
029964	SHD1260/0.496/301HE	HCT600	12,60	0,496		14	0,551	107	4,213	60	2,362	43	1,693	45	1,772	◆◆◆◆
029965	SHD1270/0.500/301HA	HCT600	12,70	1/2		14	0,551	107	4,213	60	2,362	43	1,693	45	1,772	◆◆◆◆
029966	SHD1270/0.500/301HE	HCT600	12,70	1/2		14	0,551	107	4,213	60	2,362	43	1,693	45	1,772	◆◆◆◆
029967	SHD1280/0.504/301HA	HCT600	12,80	0,504		14	0,551	107	4,213	60	2,362	43	1,693	45	1,772	◆◆◆◆
029968	SHD1280/0.504/301HE	HCT600	12,80	0,504		14	0,551	107	4,213	60	2,362	43	1,693	45	1,772	◆◆◆◆
029969	SHD1290/0.508/301HA	HCT600	12,90	0,508		14	0,551	107	4,213	60	2,362	43	1,693	45	1,772	◆◆◆◆
029970	SHD1290/0.508/301HE	HCT600	12,90	0,508		14	0,551	107	4,213	60	2,362	43	1,693	45	1,772	◆◆◆◆

Star Guide

Material Designations											
	P	Unalloyed Steels		M	Stainless Steels		K	Cast Irons		S	High Temp. Alloys
	P	Alloyed Steels		M	PH Stainless		N	Aluminium & Alloys		H	Hard Materials

HardCore™ – Series 301 *Continued..*

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HARDCORE Drill Series 301

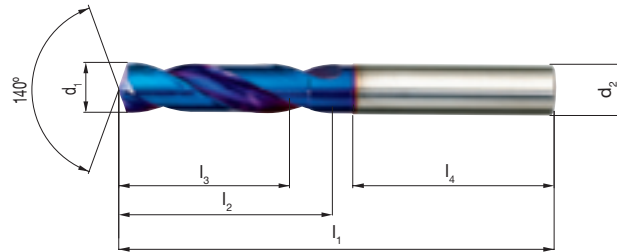
EDP#	Description	Grade	Drill Diameter d ₁ mm m ²	Drill Diameter d ₁ inch m ²	Drills for Threads	d ₂ mm Shank	d ₂ inch Shank	l ₁ mm	l ₁ inch	l ₂ mm	l ₂ inch	l ₃ mm	l ₃ inch	l ₄ mm	l ₄ inch	
029971	SHD1300/0.512/301HA	HCT600	13,00	0,512		14	0,551	107	4,213	60	2,362	43	1,693	45	1,772	◆◆◆◆
029972	SHD1300/0.512/301HE	HCT600	13,00	0,512		14	0,551	107	4,213	60	2,362	43	1,693	45	1,772	◆◆◆◆
029973	SHD1310/0.516/301HA	HCT600	13,10	0,516		14	0,551	107	4,213	60	2,362	43	1,693	45	1,772	◆◆◆◆
029974	SHD1310/0.516/301HE	HCT600	13,10	0,516		14	0,551	107	4,213	60	2,362	43	1,693	45	1,772	◆◆◆◆
029975	SHD1320/0.520/301HA	HCT600	13,20	0,520		14	0,551	107	4,213	60	2,362	43	1,693	45	1,772	◆◆◆◆
029976	SHD1320/0.520/301HE	HCT600	13,20	0,520		14	0,551	107	4,213	60	2,362	43	1,693	45	1,772	◆◆◆◆
029977	SHD1330/0.524/301HA	HCT600	13,30	0,524		14	0,551	107	4,213	60	2,362	43	1,693	45	1,772	◆◆◆◆
029978	SHD1330/0.524/301HE	HCT600	13,30	0,524		14	0,551	107	4,213	60	2,362	43	1,693	45	1,772	◆◆◆◆
029979	SHD1340/0.528/301HA	HCT600	13,40	0,528		14	0,551	107	4,213	60	2,362	43	1,693	45	1,772	◆◆◆◆
029980	SHD1340/0.528/301HE	HCT600	13,40	0,528		14	0,551	107	4,213	60	2,362	43	1,693	45	1,772	◆◆◆◆
029981	SHD1350/0.531/301HA	HCT600	13,50	0,531		14	0,551	107	4,213	60	2,362	43	1,693	45	1,772	◆◆◆◆
029982	SHD1350/0.531/301HE	HCT600	13,50	0,531		14	0,551	107	4,213	60	2,362	43	1,693	45	1,772	◆◆◆◆
029983	SHD1360/0.535/301HA	HCT600	13,60	0,535		14	0,551	107	4,213	60	2,362	43	1,693	45	1,772	◆◆◆◆
029984	SHD1360/0.535/301HE	HCT600	13,60	0,535		14	0,551	107	4,213	60	2,362	43	1,693	45	1,772	◆◆◆◆
029985	SHD1370/0.539/301HA	HCT600	13,70	0,539		14	0,551	107	4,213	60	2,362	43	1,693	45	1,772	◆◆◆◆
029986	SHD1370/0.539/301HE	HCT600	13,70	0,539		14	0,551	107	4,213	60	2,362	43	1,693	45	1,772	◆◆◆◆
029987	SHD1380/0.543/301HA	HCT600	13,80	0,543		14	0,551	107	4,213	60	2,362	43	1,693	45	1,772	◆◆◆◆
029988	SHD1380/0.543/301HE	HCT600	13,80	0,543		14	0,551	107	4,213	60	2,362	43	1,693	45	1,772	◆◆◆◆
029989	SHD1389/0.547/301HA	HCT600	13,89	35/64		14	0,551	107	4,213	60	2,362	43	1,693	45	1,772	◆◆◆◆
029990	SHD1389/0.547/301HE	HCT600	13,89	35/64		14	0,551	107	4,213	60	2,362	43	1,693	45	1,772	◆◆◆◆
029991	SHD1400/0.551/301HA	HCT600	14,00	0,551		14	0,551	107	4,213	60	2,362	43	1,693	45	1,772	◆◆◆◆
029992	SHD1400/0.551/301HE	HCT600	14,00	0,551		14	0,551	107	4,213	60	2,362	43	1,693	45	1,772	◆◆◆◆
029993	SHD1410/0.555/301HA	HCT600	14,10	0,555		16	0,630	115	4,528	65	2,559	45	1,772	48	1,890	◆◆◆◆
029994	SHD1410/0.555/301HE	HCT600	14,10	0,555		16	0,630	115	4,528	65	2,559	45	1,772	48	1,890	◆◆◆◆
029995	SHD1420/0.559/301HA	HCT600	14,20	0,559		16	0,630	115	4,528	65	2,559	45	1,772	48	1,890	◆◆◆◆
029996	SHD1420/0.559/301HE	HCT600	14,20	0,559		16	0,630	115	4,528	65	2,559	45	1,772	48	1,890	◆◆◆◆
029997	SHD1429/0.562/301HA	HCT600	14,29	9/16		16	0,630	115	4,528	65	2,559	45	1,772	48	1,890	◆◆◆◆
029998	SHD1429/0.562/301HE	HCT600	14,29	9/16		16	0,630	115	4,528	65	2,559	45	1,772	48	1,890	◆◆◆◆
029999	SHD1430/0.563/301HA	HCT600	14,30	0,563		16	0,630	115	4,528	65	2,559	45	1,772	48	1,890	◆◆◆◆
030000	SHD1430/0.563/301HE	HCT600	14,30	0,563		16	0,630	115	4,528	65	2,559	45	1,772	48	1,890	◆◆◆◆
030001	SHD1440/0.567/301HA	HCT600	14,40	0,567		16	0,630	115	4,528	65	2,559	45	1,772	48	1,890	◆◆◆◆
030002	SHD1440/0.567/301HE	HCT600	14,40	0,567		16	0,630	115	4,528	65	2,559	45	1,772	48	1,890	◆◆◆◆
030003	SHD1450/0.571/301HA	HCT600	14,50	0,571		16	0,630	115	4,528	65	2,559	45	1,772	48	1,890	◆◆◆◆
030004	SHD1450/0.571/301HE	HCT600	14,50	0,571		16	0,630	115	4,528	65	2,559	45	1,772	48	1,890	◆◆◆◆
030005	SHD1460/0.575/301HA	HCT600	14,60	0,575		16	0,630	115	4,528	65	2,559	45	1,772	48	1,890	◆◆◆◆
030006	SHD1460/0.575/301HE	HCT600	14,60	0,575		16	0,630	115	4,528	65	2,559	45	1,772	48	1,890	◆◆◆◆
030007	SHD1470/0.579/301HA	HCT600	14,70	0,579		16	0,630	115	4,528	65	2,559	45	1,772	48	1,890	◆◆◆◆
030008	SHD1470/0.579/301HE	HCT600	14,70	0,579		16	0,630	115	4,528	65	2,559	45	1,772	48	1,890	◆◆◆◆
030009	SHD1480/0.583/301HA	HCT600	14,80	0,583		16	0,630	115	4,528	65	2,559	45	1,772	48	1,890	◆◆◆◆
030010	SHD1480/0.583/301HE	HCT600	14,80	0,583		16	0,630	115	4,528	65	2,559	45	1,772	48	1,890	◆◆◆◆

Star Guide

Material Designations					
	P ◆ Unalloyed Steels		M ◆ Stainless Steels		K ◆ Cast Irons
	P ◆ Alloyed Steels		M ◆ PH Stainless		N ◆ Aluminium & Alloys
					S ◆ High Temp. Alloys
					H ◆ Hard Materials

HardCore™ – Series 301 *Continued..*

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HARDCORE Drill Series 301

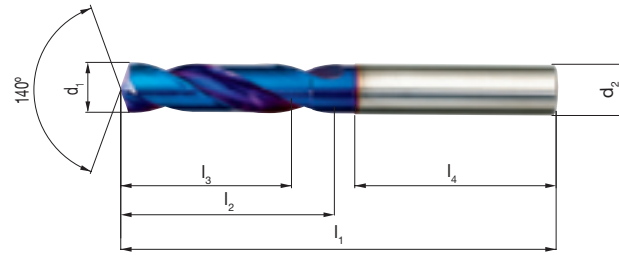
EDP#	Description	Grade	Drill Diameter d ₁ mm m ⁷	Drill Diameter d ₁ inch m ⁷	Drills for Threads	d ₂ mm Shank	d ₂ inch Shank	l ₁ mm	l ₁ inch	l ₂ mm	l ₂ inch	l ₃ mm	l ₃ inch	l ₄ mm	l ₄ inch	
030011	SHD1490/0.587/301HA	HCT600	14,90	0,587		16	0,630	115	4,528	65	2,559	45	1,772	48	1,890	◆◆◆◆
030012	SHD1490/0.587/301HE	HCT600	14,90	0,587		16	0,630	115	4,528	65	2,559	45	1,772	48	1,890	◆◆◆◆
030013	SHD1500/0.591/301HA	HCT600	15,00	0,591		16	0,630	115	4,528	65	2,559	45	1,772	48	1,890	◆◆◆◆
030014	SHD1500/0.591/301HE	HCT600	15,00	0,591		16	0,630	115	4,528	65	2,559	45	1,772	48	1,890	◆◆◆◆
030015	SHD1510/0.594/301HA	HCT600	15,10	0,594		16	0,630	115	4,528	65	2,559	45	1,772	48	1,890	◆◆◆◆
030016	SHD1510/0.594/301HE	HCT600	15,10	0,594		16	0,630	115	4,528	65	2,559	45	1,772	48	1,890	◆◆◆◆
030017	SHD1520/0.598/301HA	HCT600	15,20	0,598		16	0,630	115	4,528	65	2,559	45	1,772	48	1,890	◆◆◆◆
030018	SHD1520/0.598/301HE	HCT600	15,20	0,598		16	0,630	115	4,528	65	2,559	45	1,772	48	1,890	◆◆◆◆
030019	SHD1530/0.602/301HA	HCT600	15,30	0,602		16	0,630	115	4,528	65	2,559	45	1,772	48	1,890	◆◆◆◆
030020	SHD1530/0.602/301HE	HCT600	15,30	0,602		16	0,630	115	4,528	65	2,559	45	1,772	48	1,890	◆◆◆◆
030021	SHD1540/0.606/301HA	HCT600	15,40	0,606		16	0,630	115	4,528	65	2,559	45	1,772	48	1,890	◆◆◆◆
030022	SHD1540/0.606/301HE	HCT600	15,40	0,606		16	0,630	115	4,528	65	2,559	45	1,772	48	1,890	◆◆◆◆
030023	SHD1550/0.610/301HA	HCT600	15,50	0,610		16	0,630	115	4,528	65	2,559	45	1,772	48	1,890	◆◆◆◆
030024	SHD1550/0.610/301HE	HCT600	15,50	0,610		16	0,630	115	4,528	65	2,559	45	1,772	48	1,890	◆◆◆◆
030025	SHD1560/0.614/301HA	HCT600	15,60	0,614		16	0,630	115	4,528	65	2,559	45	1,772	48	1,890	◆◆◆◆
030026	SHD1560/0.614/301HE	HCT600	15,60	0,614		16	0,630	115	4,528	65	2,559	45	1,772	48	1,890	◆◆◆◆
030027	SHD1570/0.618/301HA	HCT600	15,70	0,618		16	0,630	115	4,528	65	2,559	45	1,772	48	1,890	◆◆◆◆
030028	SHD1570/0.618/301HE	HCT600	15,70	0,618		16	0,630	115	4,528	65	2,559	45	1,772	48	1,890	◆◆◆◆
030029	SHD1580/0.622/301HA	HCT600	15,80	0,622		16	0,630	115	4,528	65	2,559	45	1,772	48	1,890	◆◆◆◆
030030	SHD1580/0.622/301HE	HCT600	15,80	0,622		16	0,630	115	4,528	65	2,559	45	1,772	48	1,890	◆◆◆◆
030031	SHD1587/0.625/301HA	HCT600	15,87	5/8		16	0,630	115	4,528	65	2,559	45	1,772	48	1,890	◆◆◆◆
030032	SHD1587/0.625/301HE	HCT600	15,87	5/8		16	0,630	115	4,528	65	2,559	45	1,772	48	1,890	◆◆◆◆
030033	SHD1590/0.626/301HA	HCT600	15,90	0,626		16	0,630	115	4,528	65	2,559	45	1,772	48	1,890	◆◆◆◆
030034	SHD1590/0.626/301HE	HCT600	15,90	0,626		16	0,630	115	4,528	65	2,559	45	1,772	48	1,890	◆◆◆◆
030035	SHD1600/0.630/301HA	HCT600	16,00	0,630		16	0,630	115	4,528	65	2,559	45	1,772	48	1,890	◆◆◆◆
030036	SHD1600/0.630/301HE	HCT600	16,00	0,630		16	0,630	115	4,528	65	2,559	45	1,772	48	1,890	◆◆◆◆

Star Guide

Material Designations							
	P ◆ Unalloyed Steels	M ◆ Stainless Steels	K ◆ Cast Irons	S ◆ High Temp. Alloys			
	P ◆ Alloyed Steels	M ◆ PH Stainless	N ◆ Aluminium & Alloys	H ◆ Hard Materials			

HardCore™ – Series 501

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HARDCORE Drill Series 501

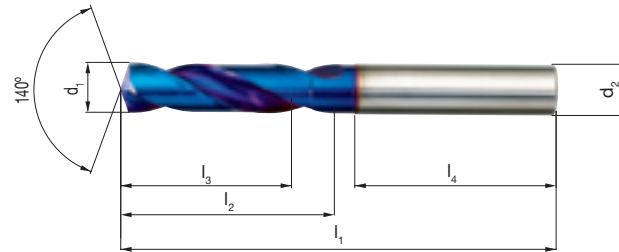
EDP#	Description	Grade	Drill Diameter d ₁ mm m ⁷	Drill Diameter d ₁ inch m ⁷	Drills for Threads	d ₂ mm Shank	d ₂ inch Shank	l ₁ mm	l ₁ inch	l ₂ mm	l ₂ inch	l ₃ mm	l ₃ inch	l ₄ mm	l ₄ inch	
030037	SHD0300/0.118/501HA	HCT600	3,00	0,118		6	0,236	66	2,598	28	1,102	23	0,906	36	1,417	◆◆◆◆
030038	SHD0300/0.118/501HE	HCT600	3,00	0,118		6	0,236	66	2,598	28	1,102	23	0,906	36	1,417	◆◆◆◆
030039	SHD0310/0.122/501HA	HCT600	3,10	0,122		6	0,236	66	2,598	28	1,102	23	0,906	36	1,417	◆◆◆◆
030040	SHD0310/0.122/501HE	HCT600	3,10	0,122		6	0,236	66	2,598	28	1,102	23	0,906	36	1,417	◆◆◆◆
030041	SHD0317/0.125/501HA	HCT600	3,17	1/8		6	0,236	66	2,598	28	1,102	23	0,906	36	1,417	◆◆◆◆
030042	SHD0317/0.125/501HE	HCT600	3,17	1/8		6	0,236	66	2,598	28	1,102	23	0,906	36	1,417	◆◆◆◆
030043	SHD0320/0.126/501HA	HCT600	3,20	0,126		6	0,236	66	2,598	28	1,102	23	0,906	36	1,417	◆◆◆◆
030044	SHD0320/0.126/501HE	HCT600	3,20	0,126		6	0,236	66	2,598	28	1,102	23	0,906	36	1,417	◆◆◆◆
030045	SHD0330/0.130/501HA	HCT600	3,30	0,130		6	0,236	66	2,598	28	1,102	23	0,906	36	1,417	◆◆◆◆
030046	SHD0330/0.130/501HE	HCT600	3,30	0,130		6	0,236	66	2,598	28	1,102	23	0,906	36	1,417	◆◆◆◆
030047	SHD0340/0.134/501HA	HCT600	3,40	0,134	M4	6	0,236	66	2,598	28	1,102	23	0,906	36	1,417	◆◆◆◆
030048	SHD0340/0.134/501HE	HCT600	3,40	0,134	M4	6	0,236	66	2,598	28	1,102	23	0,906	36	1,417	◆◆◆◆
030049	SHD0350/0.138/501HA	HCT600	3,50	0,138		6	0,236	66	2,598	28	1,102	23	0,906	36	1,417	◆◆◆◆
030050	SHD0350/0.138/501HE	HCT600	3,50	0,138		6	0,236	66	2,598	28	1,102	23	0,906	36	1,417	◆◆◆◆
030051	SHD0357/0.140/501HA	HCT600	3,57	9/64	8-36 UNF	6	0,236	66	2,598	28	1,102	23	0,906	36	1,417	◆◆◆◆
030052	SHD0357/0.140/501HE	HCT600	3,57	9/64	8-36 UNF	6	0,236	66	2,598	28	1,102	23	0,906	36	1,417	◆◆◆◆
030053	SHD0360/0.142/501HA	HCT600	3,60	0,142		6	0,236	66	2,598	28	1,102	23	0,906	36	1,417	◆◆◆◆
030054	SHD0360/0.142/501HE	HCT600	3,60	0,142		6	0,236	66	2,598	28	1,102	23	0,906	36	1,417	◆◆◆◆
030055	SHD0370/0.146/501HA	HCT600	3,70	0,146		6	0,236	66	2,598	28	1,102	23	0,906	36	1,417	◆◆◆◆
030056	SHD0370/0.146/501HE	HCT600	3,70	0,146		6	0,236	66	2,598	28	1,102	23	0,906	36	1,417	◆◆◆◆
030057	SHD0380/0.150/501HA	HCT600	3,80	0,150		6	0,236	74	2,913	36	1,417	29	1,142	36	1,417	◆◆◆◆
030058	SHD0380/0.150/501HE	HCT600	3,80	0,150		6	0,236	74	2,913	36	1,417	29	1,142	36	1,417	◆◆◆◆
030059	SHD0390/0.154/501HA	HCT600	3,90	0,154	10-24 UNC	6	0,236	74	2,913	36	1,417	29	1,142	36	1,417	◆◆◆◆
030060	SHD0390/0.154/501HE	HCT600	3,90	0,154	10-24 UNC	6	0,236	74	2,913	36	1,417	29	1,142	36	1,417	◆◆◆◆
030061	SHD0397/0.156/501HA	HCT600	3,97	5/32		6	0,236	74	2,913	36	1,417	29	1,142	36	1,417	◆◆◆◆
030062	SHD0397/0.156/501HE	HCT600	3,97	5/32		6	0,236	74	2,913	36	1,417	29	1,142	36	1,417	◆◆◆◆
030063	SHD0400/0.157/501HA	HCT600	4,00	0,157		6	0,236	74	2,913	36	1,417	29	1,142	36	1,417	◆◆◆◆
030064	SHD0400/0.157/501HE	HCT600	4,00	0,157		6	0,236	74	2,913	36	1,417	29	1,142	36	1,417	◆◆◆◆
030065	SHD0410/0.161/501HA	HCT600	4,10	0,161	10-32 UNF	6	0,236	74	2,913	36	1,417	29	1,142	36	1,417	◆◆◆◆
030066	SHD0410/0.161/501HE	HCT600	4,10	0,161	10-32 UNF	6	0,236	74	2,913	36	1,417	29	1,142	36	1,417	◆◆◆◆
030067	SHD0420/0.165/501HA	HCT600	4,20	0,165		6	0,236	74	2,913	36	1,417	29	1,142	36	1,417	◆◆◆◆
030068	SHD0420/0.165/501HE	HCT600	4,20	0,165		6	0,236	74	2,913	36	1,417	29	1,142	36	1,417	◆◆◆◆
030069	SHD0430/0.169/501HA	HCT600	4,30	0,169	M5	6	0,236	74	2,913	36	1,417	29	1,142	36	1,417	◆◆◆◆
030070	SHD0430/0.169/501HE	HCT600	4,30	0,169	M5	6	0,236	74	2,913	36	1,417	29	1,142	36	1,417	◆◆◆◆
030071	SHD0437/0.172/501HA	HCT600	4,37	11/64		6	0,236	74	2,913	36	1,417	29	1,142	36	1,417	◆◆◆◆
030072	SHD0437/0.172/501HE	HCT600	4,37	11/64		6	0,236	74	2,913	36	1,417	29	1,142	36	1,417	◆◆◆◆
030073	SHD0440/0.173/501HA	HCT600	4,40	0,173		6	0,236	74	2,913	36	1,417	29	1,142	36	1,417	◆◆◆◆
030074	SHD0440/0.173/501HE	HCT600	4,40	0,173		6	0,236	74	2,913	36	1,417	29	1,142	36	1,417	◆◆◆◆
030075	SHD0450/0.177/501HA	HCT600	4,50	0,177		6	0,236	74	2,913	36	1,417	29	1,142	36	1,417	◆◆◆◆
030076	SHD0450/0.177/501HE	HCT600	4,50	0,177		6	0,236	74	2,913	36	1,417	29	1,142	36	1,417	◆◆◆◆

Star Guide

Material Designations											
	P	Unalloyed Steels		M	Stainless Steels		K	Cast Irons		S	High Temp. Alloys
	P	Alloyed Steels		M	PH Stainless		N	Aluminium & Alloys		H	Hard Materials

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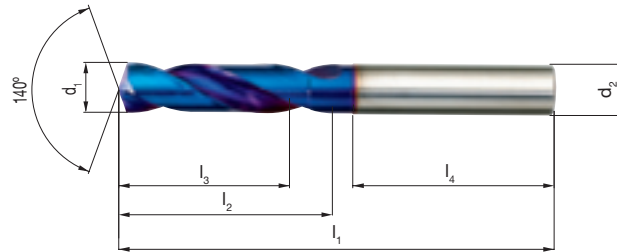
EDP#	Description	Grade	Drill Diameter d ₁ mm m ²	Drill Diameter d ₁ inch m ²	Drills for Threads	d ₂ mm Shank	d ₂ inch Shank	l ₁ mm	l ₁ inch	l ₂ mm	l ₂ inch	l ₃ mm	l ₃ inch	l ₄ mm	l ₄ inch	
030077	SHD0460/0.181/501HA	HCT600	4,60	0,181		6	0,236	74	2,913	36	1,417	29	1,142	36	1,417	◆◆◆◆
030078	SHD0460/0.181/501HE	HCT600	4,60	0,181		6	0,236	74	2,913	36	1,417	29	1,142	36	1,417	◆◆◆◆
030079	SHD0470/0.185/501HA	HCT600	4,70	0,185		6	0,236	74	2,913	36	1,417	29	1,142	36	1,417	◆◆◆◆
030080	SHD0470/0.185/501HE	HCT600	4,70	0,185		6	0,236	74	2,913	36	1,417	29	1,142	36	1,417	◆◆◆◆
030081	SHD0476/0.187/501HA	HCT600	4,76	3/16		6	0,236	82	3,228	44	1,732	35	1,378	36	1,417	◆◆◆◆
030082	SHD0476/0.187/501HE	HCT600	4,76	3/16		6	0,236	82	3,228	44	1,732	35	1,378	36	1,417	◆◆◆◆
030083	SHD0480/0.189/501HA	HCT600	4,80	0,189	12-32 UNF	6	0,236	82	3,228	44	1,732	35	1,378	36	1,417	◆◆◆◆
030084	SHD0480/0.189/501HE	HCT600	4,80	0,189	12-32 UNF	6	0,236	82	3,228	44	1,732	35	1,378	36	1,417	◆◆◆◆
030085	SHD0490/0.193/501HA	HCT600	4,90	0,193		6	0,236	82	3,228	44	1,732	35	1,378	36	1,417	◆◆◆◆
030086	SHD0490/0.193/501HE	HCT600	4,90	0,193		6	0,236	82	3,228	44	1,732	35	1,378	36	1,417	◆◆◆◆
030087	SHD0500/0.197/501HA	HCT600	5,00	0,197		6	0,236	82	3,228	44	1,732	35	1,378	36	1,417	◆◆◆◆
030088	SHD0500/0.197/501HE	HCT600	5,00	0,197		6	0,236	82	3,228	44	1,732	35	1,378	36	1,417	◆◆◆◆
030089	SHD0510/0.201/501HA	HCT600	5,10	0,201	M6	6	0,236	82	3,228	44	1,732	35	1,378	36	1,417	◆◆◆◆
030090	SHD0510/0.201/501HE	HCT600	5,10	0,201	M6	6	0,236	82	3,228	44	1,732	35	1,378	36	1,417	◆◆◆◆
030091	SHD0516/0.203/501HA	HCT600	5,16	13/64		6	0,236	82	3,228	44	1,732	35	1,378	36	1,417	◆◆◆◆
030092	SHD0516/0.203/501HE	HCT600	5,16	13/64		6	0,236	82	3,228	44	1,732	35	1,378	36	1,417	◆◆◆◆
030093	SHD0520/0.205/501HA	HCT600	5,20	0,205		6	0,236	82	3,228	44	1,732	35	1,378	36	1,417	◆◆◆◆
030094	SHD0520/0.205/501HE	HCT600	5,20	0,205		6	0,236	82	3,228	44	1,732	35	1,378	36	1,417	◆◆◆◆
030095	SHD0530/0.209/501HA	HCT600	5,30	0,209	1/4-20 UNC	6	0,236	82	3,228	44	1,732	35	1,378	36	1,417	◆◆◆◆
030096	SHD0530/0.209/501HE	HCT600	5,30	0,209	1/4-20 UNC	6	0,236	82	3,228	44	1,732	35	1,378	36	1,417	◆◆◆◆
030097	SHD0540/0.213/501HA	HCT600	5,40	0,213		6	0,236	82	3,228	44	1,732	35	1,378	36	1,417	◆◆◆◆
030098	SHD0540/0.213/501HE	HCT600	5,40	0,213		6	0,236	82	3,228	44	1,732	35	1,378	36	1,417	◆◆◆◆
030099	SHD0550/0.217/501HA	HCT600	5,50	0,217		6	0,236	82	3,228	44	1,732	35	1,378	36	1,417	◆◆◆◆
030100	SHD0550/0.217/501HE	HCT600	5,50	0,217		6	0,236	82	3,228	44	1,732	35	1,378	36	1,417	◆◆◆◆
030101	SHD0556/0.219/501HA	HCT600	5,56	7/32	1/4-28 UNF	6	0,236	82	3,228	44	1,732	35	1,378	36	1,417	◆◆◆◆
030102	SHD0556/0.219/501HE	HCT600	5,56	7/32	1/4-28 UNF	6	0,236	82	3,228	44	1,732	35	1,378	36	1,417	◆◆◆◆
030103	SHD0560/0.220/501HA	HCT600	5,60	0,220		6	0,236	82	3,228	44	1,732	35	1,378	36	1,417	◆◆◆◆
030104	SHD0560/0.220/501HE	HCT600	5,60	0,220		6	0,236	82	3,228	44	1,732	35	1,378	36	1,417	◆◆◆◆
030105	SHD0570/0.224/501HA	HCT600	5,70	0,224		6	0,236	82	3,228	44	1,732	35	1,378	36	1,417	◆◆◆◆
030106	SHD0570/0.224/501HE	HCT600	5,70	0,224		6	0,236	82	3,228	44	1,732	35	1,378	36	1,417	◆◆◆◆
030107	SHD0580/0.228/501HA	HCT600	5,80	0,228		6	0,236	82	3,228	44	1,732	35	1,378	36	1,417	◆◆◆◆
030108	SHD0580/0.228/501HE	HCT600	5,80	0,228		6	0,236	82	3,228	44	1,732	35	1,378	36	1,417	◆◆◆◆
030109	SHD0590/0.232/501HA	HCT600	5,90	0,232		6	0,236	82	3,228	44	1,732	35	1,378	36	1,417	◆◆◆◆
030110	SHD0590/0.232/501HE	HCT600	5,90	0,232		6	0,236	82	3,228	44	1,732	35	1,378	36	1,417	◆◆◆◆
030111	SHD0595/0.234/501HA	HCT600	5,95	15/64		6	0,236	82	3,228	44	1,732	35	1,378	36	1,417	◆◆◆◆
030112	SHD0595/0.234/501HE	HCT600	5,95	15/64		6	0,236	82	3,228	44	1,732	35	1,378	36	1,417	◆◆◆◆
030113	SHD0600/0.236/501HA	HCT600	6,00	0,236		6	0,236	82	3,228	44	1,732	35	1,378	36	1,417	◆◆◆◆
030114	SHD0600/0.236/501HE	HCT600	6,00	0,236		6	0,236	82	3,228	44	1,732	35	1,378	36	1,417	◆◆◆◆
030115	SHD0610/0.240/501HA	HCT600	6,10	0,240		8	0,315	91	3,583	53	2,087	43	1,693	36	1,417	◆◆◆◆
030116	SHD0610/0.240/501HE	HCT600	6,10	0,240		8	0,315	91	3,583	53	2,087	43	1,693	36	1,417	◆◆◆◆

Star Guide

Material Designations			
P	Unalloyed Steels	M	Stainless Steels
K	Cast Irons	N	Aluminium & Alloys
S	High Temp. Alloys	H	Hard Materials
P	Alloyed Steels	M	PH Stainless

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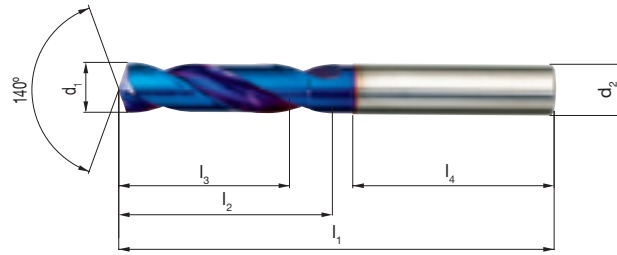
EDP#	Description	Grade	Drill Diameter d ₁ mm m ²	Drill Diameter d ₁ inch m ²	Drills for Threads	d ₂ mm Shank	d ₂ inch Shank	l ₁ mm	l ₁ inch	l ₂ mm	l ₂ inch	l ₃ mm	l ₃ inch	l ₄ mm	l ₄ inch	
030117	SHD0620/0.244/501HA	HCT600	6,20	0,244		8	0,315	91	3,583	53	2,087	43	1,693	36	1,417	◆◆◆◆
030118	SHD0620/0.244/501HE	HCT600	6,20	0,244		8	0,315	91	3,583	53	2,087	43	1,693	36	1,417	◆◆◆◆
030119	SHD0630/0.248/501HA	HCT600	6,30	0,248		8	0,315	91	3,583	53	2,087	43	1,693	36	1,417	◆◆◆◆
030120	SHD0630/0.248/501HE	HCT600	6,30	0,248		8	0,315	91	3,583	53	2,087	43	1,693	36	1,417	◆◆◆◆
030121	SHD0635/0.250/501HA	HCT600	6,35	1/4		8	0,315	91	3,583	53	2,087	43	1,693	36	1,417	◆◆◆◆
030122	SHD0635/0.250/501HE	HCT600	6,35	1/4		8	0,315	91	3,583	53	2,087	43	1,693	36	1,417	◆◆◆◆
030123	SHD0640/0.252/501HA	HCT600	6,40	0,252		8	0,315	91	3,583	53	2,087	43	1,693	36	1,417	◆◆◆◆
030124	SHD0640/0.252/501HE	HCT600	6,40	0,252		8	0,315	91	3,583	53	2,087	43	1,693	36	1,417	◆◆◆◆
030125	SHD0650/0.256/501HA	HCT600	6,50	0,256		8	0,315	91	3,583	53	2,087	43	1,693	36	1,417	◆◆◆◆
030126	SHD0650/0.256/501HE	HCT600	6,50	0,256		8	0,315	91	3,583	53	2,087	43	1,693	36	1,417	◆◆◆◆
030127	SHD0660/0.260/501HA	HCT600	6,60	0,260		8	0,315	91	3,583	53	2,087	43	1,693	36	1,417	◆◆◆◆
030128	SHD0660/0.260/501HE	HCT600	6,60	0,260		8	0,315	91	3,583	53	2,087	43	1,693	36	1,417	◆◆◆◆
030129	SHD0670/0.264/501HA	HCT600	6,70	0,264	5/18-18UNF	8	0,315	91	3,583	53	2,087	43	1,693	36	1,417	◆◆◆◆
030130	SHD0670/0.264/501HE	HCT600	6,70	0,264	5/18-18UNF	8	0,315	91	3,583	53	2,087	43	1,693	36	1,417	◆◆◆◆
030131	SHD0675/0.266/501HA	HCT600	6,75	17/64		8	0,315	91	3,583	53	2,087	43	1,693	36	1,417	◆◆◆◆
030132	SHD0675/0.266/501HE	HCT600	6,75	17/64		8	0,315	91	3,583	53	2,087	43	1,693	36	1,417	◆◆◆◆
030133	SHD0680/0.268/501HA	HCT600	6,80	0,268		8	0,315	91	3,583	53	2,087	43	1,693	36	1,417	◆◆◆◆
030134	SHD0680/0.268/501HE	HCT600	6,80	0,268		8	0,315	91	3,583	53	2,087	43	1,693	36	1,417	◆◆◆◆
030135	SHD0690/0.272/501HA	HCT600	6,90	0,272	M8	8	0,315	91	3,583	53	2,087	43	1,693	36	1,417	◆◆◆◆
030136	SHD0690/0.272/501HE	HCT600	6,90	0,272	M8	8	0,315	91	3,583	53	2,087	43	1,693	36	1,417	◆◆◆◆
030137	SHD0700/0.276/501HA	HCT600	7,00	0,276		8	0,315	91	3,583	53	2,087	43	1,693	36	1,417	◆◆◆◆
030138	SHD0700/0.276/501HE	HCT600	7,00	0,276		8	0,315	91	3,583	53	2,087	43	1,693	36	1,417	◆◆◆◆
030139	SHD0710/0.280/501HA	HCT600	7,10	0,280	MF8x1	8	0,315	91	3,583	53	2,087	43	1,693	36	1,417	◆◆◆◆
030140	SHD0710/0.280/501HE	HCT600	7,10	0,280	MF8x1	8	0,315	91	3,583	53	2,087	43	1,693	36	1,417	◆◆◆◆
030141	SHD0714/0.281/501HA	HCT600	7,14	9/32		8	0,315	91	3,583	53	2,087	43	1,693	36	1,417	◆◆◆◆
030142	SHD0714/0.281/501HE	HCT600	7,14	9/32		8	0,315	91	3,583	53	2,087	43	1,693	36	1,417	◆◆◆◆
030143	SHD0720/0.283/501HA	HCT600	7,20	0,283		8	0,315	91	3,583	53	2,087	43	1,693	36	1,417	◆◆◆◆
030144	SHD0720/0.283/501HE	HCT600	7,20	0,283		8	0,315	91	3,583	53	2,087	43	1,693	36	1,417	◆◆◆◆
030145	SHD0730/0.287/501HA	HCT600	7,30	0,287		8	0,315	91	3,583	53	2,087	43	1,693	36	1,417	◆◆◆◆
030146	SHD0730/0.287/501HE	HCT600	7,30	0,287		8	0,315	91	3,583	53	2,087	43	1,693	36	1,417	◆◆◆◆
030147	SHD0740/0.291/501HA	HCT600	7,40	0,291		8	0,315	91	3,583	53	2,087	43	1,693	36	1,417	◆◆◆◆
030148	SHD0740/0.291/501HE	HCT600	7,40	0,291		8	0,315	91	3,583	53	2,087	43	1,693	36	1,417	◆◆◆◆
030149	SHD0750/0.295/501HA	HCT600	7,50	0,295		8	0,315	91	3,583	53	2,087	43	1,693	36	1,417	◆◆◆◆
030150	SHD0750/0.295/501HE	HCT600	7,50	0,295		8	0,315	91	3,583	53	2,087	43	1,693	36	1,417	◆◆◆◆
030151	SHD0754/0.297/501HA	HCT600	7,54	19/64		8	0,315	91	3,583	53	2,087	43	1,693	36	1,417	◆◆◆◆
030152	SHD0754/0.297/501HE	HCT600	7,54	19/64		8	0,315	91	3,583	53	2,087	43	1,693	36	1,417	◆◆◆◆
030153	SHD0760/0.299/501HA	HCT600	7,60	0,299		8	0,315	91	3,583	53	2,087	43	1,693	36	1,417	◆◆◆◆
030154	SHD0760/0.299/501HE	HCT600	7,60	0,299		8	0,315	91	3,583	53	2,087	43	1,693	36	1,417	◆◆◆◆
030155	SHD0770/0.303/501HA	HCT600	7,70	0,303		8	0,315	91	3,583	53	2,087	43	1,693	36	1,417	◆◆◆◆
030156	SHD0770/0.303/501HE	HCT600	7,70	0,303		8	0,315	91	3,583	53	2,087	43	1,693	36	1,417	◆◆◆◆

Star Guide

Material Designations					
	P	Unalloyed Steels		M	Stainless Steels
	P	Alloyed Steels		M	PH Stainless
	K	Cast Irons		N	Aluminium & Alloys
	S	High Temp. Alloys		H	Hard Materials



Series 501 *Continued..*



HARDCORE Drill Series 501

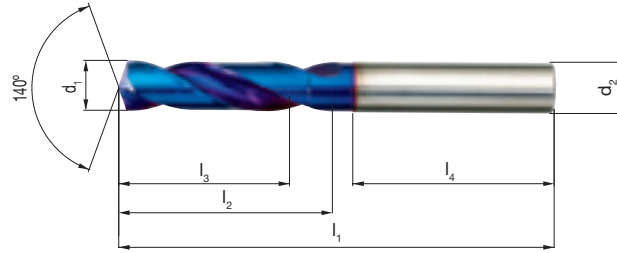
EDP#	Description	Grade	Drill Diameter d ₁ mm m ²	Drill Diameter d ₁ inch m ²	Drills for Threads	d ₂ mm Shank	d ₂ inch Shank	l ₁ mm	l ₁ inch	l ₂ mm	l ₂ inch	l ₃ mm	l ₃ inch	l ₄ mm	l ₄ inch	
030157	SHD0780/0.307/501HA	HCT600	7,80	0,307		8	0,315	91	3,583	53	2,087	43	1,693	36	1,417	◆◆◆◆
030158	SHD0780/0.307/501HE	HCT600	7,80	0,307		8	0,315	91	3,583	53	2,087	43	1,693	36	1,417	◆◆◆◆
030159	SHD0790/0.311/501HA	HCT600	7,90	0,311		8	0,315	91	3,583	53	2,087	43	1,693	36	1,417	◆◆◆◆
030160	SHD0790/0.311/501HE	HCT600	7,90	0,311		8	0,315	91	3,583	53	2,087	43	1,693	36	1,417	◆◆◆◆
030161	SHD0794/0.313/501HA	HCT600	7,94	5/16		8	0,315	91	3,583	53	2,087	43	1,693	36	1,417	◆◆◆◆
030162	SHD0794/0.313/501HE	HCT600	7,94	5/16		8	0,315	91	3,583	53	2,087	43	1,693	36	1,417	◆◆◆◆
030163	SHD0800/0.315/501HA	HCT600	8,00	0,315		8	0,315	91	3,583	53	2,087	43	1,693	36	1,417	◆◆◆◆
030164	SHD0800/0.315/501HE	HCT600	8,00	0,315		8	0,315	91	3,583	53	2,087	43	1,693	36	1,417	◆◆◆◆
030165	SHD0810/0.319/501HA	HCT600	8,10	0,319		10	0,394	103	4,055	61	2,402	49	1,929	40	1,575	◆◆◆◆
030166	SHD0810/0.319/501HE	HCT600	8,10	0,319		10	0,394	103	4,055	61	2,402	49	1,929	40	1,575	◆◆◆◆
030167	SHD0820/0.323/501HA	HCT600	8,20	0,323	3/8-16 UNC	10	0,394	103	4,055	61	2,402	49	1,929	40	1,575	◆◆◆◆
030168	SHD0820/0.323/501HE	HCT600	8,20	0,323	3/8-16 UNC	10	0,394	103	4,055	61	2,402	49	1,929	40	1,575	◆◆◆◆
030169	SHD0830/0.327/501HA	HCT600	8,30	0,327		10	0,394	103	4,055	61	2,402	49	1,929	40	1,575	◆◆◆◆
030170	SHD0830/0.327/501HE	HCT600	8,30	0,327		10	0,394	103	4,055	61	2,402	49	1,929	40	1,575	◆◆◆◆
030171	SHD0833/0.328/501HA	HCT600	8,33	21/64		10	0,394	103	4,055	61	2,402	49	1,929	40	1,575	◆◆◆◆
030172	SHD0833/0.328/501HE	HCT600	8,33	21/64		10	0,394	103	4,055	61	2,402	49	1,929	40	1,575	◆◆◆◆
030173	SHD0840/0.331/501HA	HCT600	8,40	0,331		10	0,394	103	4,055	61	2,402	49	1,929	40	1,575	◆◆◆◆
030174	SHD0840/0.331/501HE	HCT600	8,40	0,331		10	0,394	103	4,055	61	2,402	49	1,929	40	1,575	◆◆◆◆
030175	SHD0850/0.335/501HA	HCT600	8,50	0,335		10	0,394	103	4,055	61	2,402	49	1,929	40	1,575	◆◆◆◆
030176	SHD0850/0.335/501HE	HCT600	8,50	0,335		10	0,394	103	4,055	61	2,402	49	1,929	40	1,575	◆◆◆◆
030177	SHD0860/0.339/501HA	HCT600	8,60	0,339	3/8-24 UNF	10	0,394	103	4,055	61	2,402	49	1,929	40	1,575	◆◆◆◆
030178	SHD0860/0.339/501HE	HCT600	8,60	0,339	3/8-24 UNF	10	0,394	103	4,055	61	2,402	49	1,929	40	1,575	◆◆◆◆
030179	SHD0870/0.343/501HA	HCT600	8,70	0,343	M10	10	0,394	103	4,055	61	2,402	49	1,929	40	1,575	◆◆◆◆
030180	SHD0870/0.343/501HE	HCT600	8,70	0,343	M10	10	0,394	103	4,055	61	2,402	49	1,929	40	1,575	◆◆◆◆
030181	SHD0873/0.344/501HA	HCT600	8,73	11/32		10	0,394	103	4,055	61	2,402	49	1,929	40	1,575	◆◆◆◆
030182	SHD0873/0.344/501HE	HCT600	8,73	11/32		10	0,394	103	4,055	61	2,402	49	1,929	40	1,575	◆◆◆◆
030183	SHD0880/0.346/501HA	HCT600	8,80	0,346		10	0,394	103	4,055	61	2,402	49	1,929	40	1,575	◆◆◆◆
030184	SHD0880/0.346/501HE	HCT600	8,80	0,346		10	0,394	103	4,055	61	2,402	49	1,929	40	1,575	◆◆◆◆
030185	SHD0890/0.350/501HA	HCT600	8,90	0,350	MF10x1,25	10	0,394	103	4,055	61	2,402	49	1,929	40	1,575	◆◆◆◆
030186	SHD0890/0.350/501HE	HCT600	8,90	0,350	MF10x1,25	10	0,394	103	4,055	61	2,402	49	1,929	40	1,575	◆◆◆◆
030187	SHD0900/0.354/501HA	HCT600	9,00	0,354		10	0,394	103	4,055	61	2,402	49	1,929	40	1,575	◆◆◆◆
030188	SHD0900/0.354/501HE	HCT600	9,00	0,354		10	0,394	103	4,055	61	2,402	49	1,929	40	1,575	◆◆◆◆
030189	SHD0910/0.358/501HA	HCT600	9,10	0,358		10	0,394	103	4,055	61	2,402	49	1,929	40	1,575	◆◆◆◆
030190	SHD0910/0.358/501HE	HCT600	9,10	0,358		10	0,394	103	4,055	61	2,402	49	1,929	40	1,575	◆◆◆◆
030191	SHD0913/0.359/501HA	HCT600	9,13	23/64		10	0,394	103	4,055	61	2,402	49	1,929	40	1,575	◆◆◆◆
030192	SHD0913/0.359/501HE	HCT600	9,13	23/64		10	0,394	103	4,055	61	2,402	49	1,929	40	1,575	◆◆◆◆
030193	SHD0920/0.362/501HA	HCT600	9,20	0,362		10	0,394	103	4,055	61	2,402	49	1,929	40	1,575	◆◆◆◆
030194	SHD0920/0.362/501HE	HCT600	9,20	0,362		10	0,394	103	4,055	61	2,402	49	1,929	40	1,575	◆◆◆◆
030195	SHD0930/0.366/501HA	HCT600	9,30	0,366		10	0,394	103	4,055	61	2,402	49	1,929	40	1,575	◆◆◆◆
030196	SHD0930/0.366/501HE	HCT600	9,30	0,366		10	0,394	103	4,055	61	2,402	49	1,929	40	1,575	◆◆◆◆

Star Guide

Material Designations											
	P	Unalloyed Steels		M	Stainless Steels		K	Cast Irons		S	High Temp. Alloys
	P	Alloyed Steels		M	PH Stainless		N	Aluminium & Alloys		H	Hard Materials

HardCore™ – Series 501 *Continued..*

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HARDCORE Drill Series 501

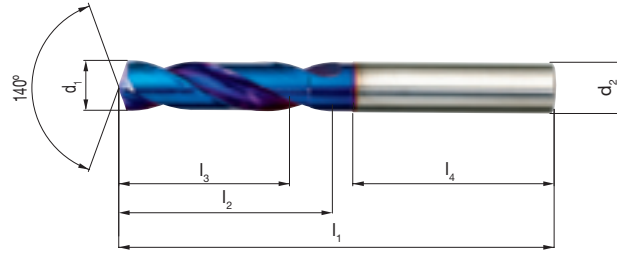
EDP#	Description	Grade	Drill Diameter d ₁ mm m ²	Drill Diameter d ₁ inch m ²	Drills for Threads	d ₂ mm Shank	d ₂ inch Shank	l ₁ mm	l ₁ inch	l ₂ mm	l ₂ inch	l ₃ mm	l ₃ inch	l ₄ mm	l ₄ inch	
030197	SHD0940/0.370/501HA	HCT600	9,40	0,370		10	0,394	103	4,055	61	2,402	49	1,929	40	1,575	◆◆◆◆
030198	SHD0940/0.370/501HE	HCT600	9,40	0,370		10	0,394	103	4,055	61	2,402	49	1,929	40	1,575	◆◆◆◆
030199	SHD0950/0.374/501HA	HCT600	9,50	0,374		10	0,394	103	4,055	61	2,402	49	1,929	40	1,575	◆◆◆◆
030200	SHD0950/0.374/501HE	HCT600	9,50	0,374		10	0,394	103	4,055	61	2,402	49	1,929	40	1,575	◆◆◆◆
030201	SHD0952/0.375/501HA	HCT600	9,52	3/8		10	0,394	103	4,055	61	2,402	49	1,929	40	1,575	◆◆◆◆
030202	SHD0952/0.375/501HE	HCT600	9,52	3/8		10	0,394	103	4,055	61	2,402	49	1,929	40	1,575	◆◆◆◆
030203	SHD0960/0.378/501HA	HCT600	9,60	0,378		10	0,394	103	4,055	61	2,402	49	1,929	40	1,575	◆◆◆◆
030204	SHD0960/0.378/501HE	HCT600	9,60	0,378		10	0,394	103	4,055	61	2,402	49	1,929	40	1,575	◆◆◆◆
030205	SHD0970/0.382/501HA	HCT600	9,70	0,382		10	0,394	103	4,055	61	2,402	49	1,929	40	1,575	◆◆◆◆
030206	SHD0970/0.382/501HE	HCT600	9,70	0,382		10	0,394	103	4,055	61	2,402	49	1,929	40	1,575	◆◆◆◆
030207	SHD0980/0.386/501HA	HCT600	9,80	0,386		10	0,394	103	4,055	61	2,402	49	1,929	40	1,575	◆◆◆◆
030208	SHD0980/0.386/501HE	HCT600	9,80	0,386		10	0,394	103	4,055	61	2,402	49	1,929	40	1,575	◆◆◆◆
030209	SHD0990/0.390/501HA	HCT600	9,90	0,390		10	0,394	103	4,055	61	2,402	49	1,929	40	1,575	◆◆◆◆
030210	SHD0990/0.390/501HE	HCT600	9,90	0,390		10	0,394	103	4,055	61	2,402	49	1,929	40	1,575	◆◆◆◆
030211	SHD0992/0.391/501HA	HCT600	9,92	25/64		10	0,394	103	4,055	61	2,402	49	1,929	40	1,575	◆◆◆◆
030212	SHD0992/0.391/501HE	HCT600	9,92	25/64		10	0,394	103	4,055	61	2,402	49	1,929	40	1,575	◆◆◆◆
030213	SHD1000/0.394/501HA	HCT600	10,00	0,394	7/16-20 UNF	10	0,394	103	4,055	61	2,402	49	1,929	40	1,575	◆◆◆◆
030214	SHD1000/0.394/501HE	HCT600	10,00	0,394	7/16-20 UNF	10	0,394	103	4,055	61	2,402	49	1,929	40	1,575	◆◆◆◆
030215	SHD1010/0.398/501HA	HCT600	10,10	0,398		12	0,472	118	4,646	71	2,795	56	2,205	45	1,772	◆◆◆◆
030367	SHD1010/0.398/501HE	HCT600	10,10	0,398		12	0,472	118	4,646	71	2,795	56	2,205	45	1,772	◆◆◆◆
030216	SHD1020/0.402/501HA	HCT600	10,20	0,402		12	0,472	118	4,646	71	2,795	56	2,205	45	1,772	◆◆◆◆
030217	SHD1020/0.402/501HE	HCT600	10,20	0,402		12	0,472	118	4,646	71	2,795	56	2,205	45	1,772	◆◆◆◆
030218	SHD1030/0.406/501HA	HCT600	10,30	0,406		12	0,472	118	4,646	71	2,795	56	2,205	45	1,772	◆◆◆◆
030219	SHD1030/0.406/501HE	HCT600	10,30	0,406		12	0,472	118	4,646	71	2,795	56	2,205	45	1,772	◆◆◆◆
030220	SHD1040/0.409/501HA	HCT600	10,40	0,409	M12	12	0,472	118	4,646	71	2,795	56	2,205	45	1,772	◆◆◆◆
030221	SHD1040/0.409/501HE	HCT600	10,40	0,409	M12	12	0,472	118	4,646	71	2,795	56	2,205	45	1,772	◆◆◆◆
030222	SHD1050/0.413/501HA	HCT600	10,50	0,413		12	0,472	118	4,646	71	2,795	56	2,205	45	1,772	◆◆◆◆
030223	SHD1050/0.413/501HE	HCT600	10,50	0,413		12	0,472	118	4,646	71	2,795	56	2,205	45	1,772	◆◆◆◆
030224	SHD1060/0.417/501HA	HCT600	10,60	0,417		12	0,472	118	4,646	71	2,795	56	2,205	45	1,772	◆◆◆◆
030225	SHD1060/0.417/501HE	HCT600	10,60	0,417		12	0,472	118	4,646	71	2,795	56	2,205	45	1,772	◆◆◆◆
030226	SHD1070/0.421/501HA	HCT600	10,70	0,421	MF12x1,5	12	0,472	118	4,646	71	2,795	56	2,205	45	1,772	◆◆◆◆
030227	SHD1070/0.421/501HE	HCT600	10,70	0,421	MF12x1,5	12	0,472	118	4,646	71	2,795	56	2,205	45	1,772	◆◆◆◆
030228	SHD1080/0.425/501HA	HCT600	10,80	0,425		12	0,472	118	4,646	71	2,795	56	2,205	45	1,772	◆◆◆◆
030229	SHD1080/0.425/501HE	HCT600	10,80	0,425		12	0,472	118	4,646	71	2,795	56	2,205	45	1,772	◆◆◆◆
030230	SHD1090/0.429/501HA	HCT600	10,90	0,429		12	0,472	118	4,646	71	2,795	56	2,205	45	1,772	◆◆◆◆
030231	SHD1090/0.429/501HE	HCT600	10,90	0,429		12	0,472	118	4,646	71	2,795	56	2,205	45	1,772	◆◆◆◆
030232	SHD1100/0.433/501HA	HCT600	11,00	0,433	1/2-13 UNC	12	0,472	118	4,646	71	2,795	56	2,205	45	1,772	◆◆◆◆
030233	SHD1100/0.433/501HE	HCT600	11,00	0,433	1/2-13 UNC	12	0,472	118	4,646	71	2,795	56	2,205	45	1,772	◆◆◆◆
030234	SHD1110/0.437/501HA	HCT600	11,10	0,437		12	0,472	118	4,646	71	2,795	56	2,205	45	1,772	◆◆◆◆
030235	SHD1110/0.437/501HE	HCT600	11,10	0,437		12	0,472	118	4,646	71	2,795	56	2,205	45	1,772	◆◆◆◆

Star Guide

Material Designations					
	P	Unalloyed Steels		M	Stainless Steels
	P	Alloyed Steels		M	PH Stainless
	K	Cast Irons		N	Aluminium & Alloys
	S	High Temp. Alloys		H	Hard Materials



Series 501 *Continued..*



HARDCORE Drill Series 501

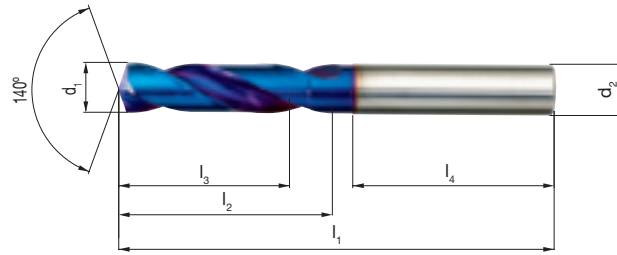
EDP#	Description	Grade	Drill Diameter d ₁ mm m ²	Drill Diameter d ₁ inch m ²	Drills for Threads	d ₂ mm Shank	d ₂ inch Shank	l ₁ mm	l ₁ inch	l ₂ mm	l ₂ inch	l ₃ mm	l ₃ inch	l ₄ mm	l ₄ inch	
030236	SHD1120/0.441/501HA	HCT600	11,20	0,441		12	0,472	118	4,646	71	2,795	56	2,205	45	1,772	◆◆◆◆
030237	SHD1120/0.441/501HE	HCT600	11,20	0,441		12	0,472	118	4,646	71	2,795	56	2,205	45	1,772	◆◆◆◆
030238	SHD1130/0.445/501HA	HCT600	11,30	0,445		12	0,472	118	4,646	71	2,795	56	2,205	45	1,772	◆◆◆◆
030239	SHD1130/0.445/501HE	HCT600	11,30	0,445		12	0,472	118	4,646	71	2,795	56	2,205	45	1,772	◆◆◆◆
030240	SHD1140/0.449/501HA	HCT600	11,40	0,449		12	0,472	118	4,646	71	2,795	56	2,205	45	1,772	◆◆◆◆
030241	SHD1140/0.449/501HE	HCT600	11,40	0,449		12	0,472	118	4,646	71	2,795	56	2,205	45	1,772	◆◆◆◆
030242	SHD1150/0.453/501HA	HCT600	11,50	0,453		12	0,472	118	4,646	71	2,795	56	2,205	45	1,772	◆◆◆◆
030243	SHD1150/0.453/501HE	HCT600	11,50	0,453		12	0,472	118	4,646	71	2,795	56	2,205	45	1,772	◆◆◆◆
030368	SHD1160/0.457/501HA	HCT600	11,60	0,457	1/2-20 UNF	12	0,472	118	4,646	71	2,795	56	2,205	45	1,772	◆◆◆◆
030244	SHD1160/0.457/501HE	HCT600	11,60	0,457	1/2-20 UNF	12	0,472	118	4,646	71	2,795	56	2,205	45	1,772	◆◆◆◆
030245	SHD1170/0.461/501HA	HCT600	11,70	0,461		12	0,472	118	4,646	71	2,795	56	2,205	45	1,772	◆◆◆◆
030246	SHD1170/0.461/501HE	HCT600	11,70	0,461		12	0,472	118	4,646	71	2,795	56	2,205	45	1,772	◆◆◆◆
030247	SHD1180/0.465/501HA	HCT600	11,80	0,465		12	0,472	118	4,646	71	2,795	56	2,205	45	1,772	◆◆◆◆
030248	SHD1180/0.465/501HE	HCT600	11,80	0,465		12	0,472	118	4,646	71	2,795	56	2,205	45	1,772	◆◆◆◆
030249	SHD1190/0.469/501HA	HCT600	11,90	0,469		12	0,472	118	4,646	71	2,795	56	2,205	45	1,772	◆◆◆◆
030250	SHD1190/0.469/501HE	HCT600	11,90	0,469		12	0,472	118	4,646	71	2,795	56	2,205	45	1,772	◆◆◆◆
030251	SHD1200/0.472/501HA	HCT600	12,00	0,472		12	0,472	118	4,646	71	2,795	56	2,205	45	1,772	◆◆◆◆
030252	SHD1200/0.472/501HE	HCT600	12,00	0,472		12	0,472	118	4,646	71	2,795	56	2,205	45	1,772	◆◆◆◆
030253	SHD1210/0.476/501HA	HCT600	12,10	0,476		14	0,551	124	4,882	77	3,031	60	2,362	45	1,772	◆◆◆◆
030369	SHD1210/0.476/501HE	HCT600	12,10	0,476		14	0,551	124	4,882	77	3,031	60	2,362	45	1,772	◆◆◆◆
030254	SHD1220/0.480/501HA	HCT600	12,20	0,480		14	0,551	124	4,882	77	3,031	60	2,362	45	1,772	◆◆◆◆
030255	SHD1220/0.480/501HE	HCT600	12,20	0,480		14	0,551	124	4,882	77	3,031	60	2,362	45	1,772	◆◆◆◆
030370	SHD1230/0.484/501HA	HCT600	12,30	0,484		14	0,551	124	4,882	77	3,031	60	2,362	45	1,772	◆◆◆◆
030256	SHD1230/0.484/501HE	HCT600	12,30	0,484		14	0,551	124	4,882	77	3,031	60	2,362	45	1,772	◆◆◆◆
030257	SHD1240/0.488/501HA	HCT600	12,40	0,488		14	0,551	124	4,882	77	3,031	60	2,362	45	1,772	◆◆◆◆
030258	SHD1240/0.488/501HE	HCT600	12,40	0,488		14	0,551	124	4,882	77	3,031	60	2,362	45	1,772	◆◆◆◆
030259	SHD1250/0.492/501HA	HCT600	12,50	0,492		14	0,551	124	4,882	77	3,031	60	2,362	45	1,772	◆◆◆◆
030260	SHD1250/0.492/501HE	HCT600	12,50	0,492		14	0,551	124	4,882	77	3,031	60	2,362	45	1,772	◆◆◆◆
030261	SHD1260/0.496/501HA	HCT600	12,60	0,496		14	0,551	124	4,882	77	3,031	60	2,362	45	1,772	◆◆◆◆
030262	SHD1260/0.496/501HE	HCT600	12,60	0,496		14	0,551	124	4,882	77	3,031	60	2,362	45	1,772	◆◆◆◆
030263	SHD1270/0.500/501HA	HCT600	12,70	0,500		14	0,551	124	4,882	77	3,031	60	2,362	45	1,772	◆◆◆◆
030264	SHD1270/0.500/501HE	HCT600	12,70	0,500		14	0,551	124	4,882	77	3,031	60	2,362	45	1,772	◆◆◆◆
030265	SHD1280/0.504/501HA	HCT600	12,80	0,504		14	0,551	124	4,882	77	3,031	60	2,362	45	1,772	◆◆◆◆
030266	SHD1280/0.504/501HE	HCT600	12,80	0,504		14	0,551	124	4,882	77	3,031	60	2,362	45	1,772	◆◆◆◆
030267	SHD1290/0.508/501HA	HCT600	12,90	0,508		14	0,551	124	4,882	77	3,031	60	2,362	45	1,772	◆◆◆◆
030268	SHD1290/0.508/501HE	HCT600	12,90	0,508		14	0,551	124	4,882	77	3,031	60	2,362	45	1,772	◆◆◆◆
030269	SHD1300/0.512/501HA	HCT600	13,00	0,512		14	0,551	124	4,882	77	3,031	60	2,362	45	1,772	◆◆◆◆
030270	SHD1300/0.512/501HE	HCT600	13,00	0,512		14	0,551	124	4,882	77	3,031	60	2,362	45	1,772	◆◆◆◆
030271	SHD1310/0.516/501HA	HCT600	13,10	0,516		14	0,551	124	4,882	77	3,031	60	2,362	45	1,772	◆◆◆◆
030272	SHD1310/0.516/501HE	HCT600	13,10	0,516		14	0,551	124	4,882	77	3,031	60	2,362	45	1,772	◆◆◆◆

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Material Designations											
	P	Unalloyed Steels		M	Stainless Steels		K	Cast Irons		S	High Temp. Alloys
	P	Alloyed Steels		M	PH Stainless		N	Aluminium & Alloys		H	Hard Materials

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HARDCORE Drill Series 501

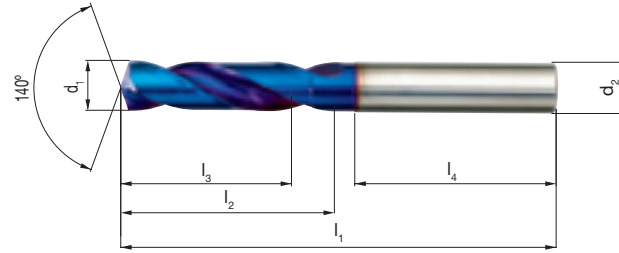
EDP#	Description	Grade	Drill Diameter d ₁ mm m ²	Drill Diameter d ₁ inch m ²	Drills for Threads	d ₂ mm Shank	d ₂ inch Shank	l ₁ mm	l ₁ inch	l ₂ mm	l ₂ inch	l ₃ mm	l ₃ inch	l ₄ mm	l ₄ inch	
030273	SHD1320/0.520/501HA	HCT600	13,20	0,520		14	0,551	124	4,882	77	3,031	60	2,362	45	1,772	◆◆◆◆
030274	SHD1320/0.520/501HE	HCT600	13,20	0,520		14	0,551	124	4,882	77	3,031	60	2,362	45	1,772	◆◆◆◆
030275	SHD1330/0.524/501HA	HCT600	13,30	0,524		14	0,551	124	4,882	77	3,031	60	2,362	45	1,772	◆◆◆◆
030276	SHD1330/0.524/501HE	HCT600	13,30	0,524		14	0,551	124	4,882	77	3,031	60	2,362	45	1,772	◆◆◆◆
030277	SHD1340/0.528/501HA	HCT600	13,40	0,528		14	0,551	124	4,882	77	3,031	60	2,362	45	1,772	◆◆◆◆
030278	SHD1340/0.528/501HE	HCT600	13,40	0,528		14	0,551	124	4,882	77	3,031	60	2,362	45	1,772	◆◆◆◆
030279	SHD1350/0.531/501HA	HCT600	13,50	0,531		14	0,551	124	4,882	77	3,031	60	2,362	45	1,772	◆◆◆◆
030280	SHD1350/0.531/501HE	HCT600	13,50	0,531		14	0,551	124	4,882	77	3,031	60	2,362	45	1,772	◆◆◆◆
030281	SHD1360/0.535/501HA	HCT600	13,60	0,535		14	0,551	124	4,882	77	3,031	60	2,362	45	1,772	◆◆◆◆
030371	SHD1360/0.535/501HE	HCT600	13,60	0,535		14	0,551	124	4,882	77	3,031	60	2,362	45	1,772	◆◆◆◆
030282	SHD1370/0.539/501HA	HCT600	13,70	0,539		14	0,551	124	4,882	77	3,031	60	2,362	45	1,772	◆◆◆◆
030283	SHD1370/0.539/501HE	HCT600	13,70	0,539		14	0,551	124	4,882	77	3,031	60	2,362	45	1,772	◆◆◆◆
030284	SHD1380/0.543/501HA	HCT600	13,80	0,543		14	0,551	124	4,882	77	3,031	60	2,362	45	1,772	◆◆◆◆
030285	SHD1380/0.543/501HE	HCT600	13,80	0,543		14	0,551	124	4,882	77	3,031	60	2,362	45	1,772	◆◆◆◆
030286	SHD1390/0.547/501HA	HCT600	13,90	0,547		14	0,551	124	4,882	77	3,031	60	2,362	45	1,772	◆◆◆◆
030287	SHD1390/0.547/501HE	HCT600	13,90	0,547		14	0,551	124	4,882	77	3,031	60	2,362	45	1,772	◆◆◆◆
030288	SHD1400/0.551/501HA	HCT600	14,00	0,551		14	0,551	124	4,882	77	3,031	60	2,362	45	1,772	◆◆◆◆
030289	SHD1400/0.551/501HE	HCT600	14,00	0,551		14	0,551	124	4,882	77	3,031	60	2,362	45	1,772	◆◆◆◆
030290	SHD1410/0.555/501HA	HCT600	14,10	0,555		16	0,630	133	5,236	83	3,268	63	2,480	48	1,890	◆◆◆◆
030291	SHD1410/0.555/501HE	HCT600	14,10	0,555		16	0,630	133	5,236	83	3,268	63	2,480	48	1,890	◆◆◆◆
030292	SHD1420/0.559/501HA	HCT600	14,20	0,559		16	0,630	133	5,236	83	3,268	63	2,480	48	1,890	◆◆◆◆
030293	SHD1420/0.559/501HE	HCT600	14,20	0,559		16	0,630	133	5,236	83	3,268	63	2,480	48	1,890	◆◆◆◆
030294	SHD1430/0.563/501HA	HCT600	14,30	0,563		16	0,630	133	5,236	83	3,268	63	2,480	48	1,890	◆◆◆◆
030372	SHD1430/0.563/501HE	HCT600	14,30	0,563		16	0,630	133	5,236	83	3,268	63	2,480	48	1,890	◆◆◆◆
030295	SHD1440/0.567/501HA	HCT600	14,40	0,567		16	0,630	133	5,236	83	3,268	63	2,480	48	1,890	◆◆◆◆
030373	SHD1440/0.567/501HE	HCT600	14,40	0,567		16	0,630	133	5,236	83	3,268	63	2,480	48	1,890	◆◆◆◆
030296	SHD1450/0.571/501HA	HCT600	14,50	0,571		16	0,630	133	5,236	83	3,268	63	2,480	48	1,890	◆◆◆◆
030297	SHD1450/0.571/501HE	HCT600	14,50	0,571		16	0,630	133	5,236	83	3,268	63	2,480	48	1,890	◆◆◆◆
030298	SHD1460/0.575/501HA	HCT600	14,60	0,575		16	0,630	133	5,236	83	3,268	63	2,480	48	1,890	◆◆◆◆
030299	SHD1460/0.575/501HE	HCT600	14,60	0,575		16	0,630	133	5,236	83	3,268	63	2,480	48	1,890	◆◆◆◆
030300	SHD1470/0.579/501HA	HCT600	14,70	0,579		16	0,630	133	5,236	83	3,268	63	2,480	48	1,890	◆◆◆◆
030301	SHD1470/0.579/501HE	HCT600	14,70	0,579		16	0,630	133	5,236	83	3,268	63	2,480	48	1,890	◆◆◆◆
030302	SHD1480/0.583/501HA	HCT600	14,80	0,583		16	0,630	133	5,236	83	3,268	63	2,480	48	1,890	◆◆◆◆
030303	SHD1480/0.583/501HE	HCT600	14,80	0,583		16	0,630	133	5,236	83	3,268	63	2,480	48	1,890	◆◆◆◆
030304	SHD1490/0.587/501HA	HCT600	14,90	0,587		16	0,630	133	5,236	83	3,268	63	2,480	48	1,890	◆◆◆◆
030305	SHD1490/0.587/501HE	HCT600	14,90	0,587		16	0,630	133	5,236	83	3,268	63	2,480	48	1,890	◆◆◆◆
030306	SHD1500/0.591/501HA	HCT600	15,00	0,591		16	0,630	133	5,236	83	3,268	63	2,480	48	1,890	◆◆◆◆
030307	SHD1500/0.591/501HE	HCT600	15,00	0,591		16	0,630	133	5,236	83	3,268	63	2,480	48	1,890	◆◆◆◆
030308	SHD1510/0.594/501HA	HCT600	15,10	0,594		16	0,630	133	5,236	83	3,268	63	2,480	48	1,890	◆◆◆◆
030309	SHD1510/0.594/501HE	HCT600	15,10	0,594		16	0,630	133	5,236	83	3,268	63	2,480	48	1,890	◆◆◆◆

Star Guide

Material Designations							
	P ◆ Unalloyed Steels		M ◆ Stainless Steels		K ◆ Cast Irons		S ◆ High Temp. Alloys
	P ◆ Alloyed Steels		M ◆ PH Stainless		N ◆ Aluminium & Alloys		H ◆ Hard Materials

HardCore™ – Series 501 *Continued..*

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EDP#	Description	Grade	Drill Diameter d ₁ mm m ⁷	Drill Diameter d ₁ inch m ⁷	Drills for Threads	d ₂ mm Shank	d ₂ inch Shank	l ₁ mm	l ₁ inch	l ₂ mm	l ₂ inch	l ₃ mm	l ₃ inch	l ₄ mm	l ₄ inch	
030310	SHD1520/0.598/501HA	HCT600	15,20	0,598		16	0,630	133	5,236	83	3,268	63	2,480	48	1,890	◆◆◆◆
030311	SHD1520/0.598/501HE	HCT600	15,20	0,598		16	0,630	133	5,236	83	3,268	63	2,480	48	1,890	◆◆◆◆
030312	SHD1530/0.602/501HA	HCT600	15,30	0,602		16	0,630	133	5,236	83	3,268	63	2,480	48	1,890	◆◆◆◆
030313	SHD1530/0.602/501HE	HCT600	15,30	0,602		16	0,630	133	5,236	83	3,268	63	2,480	48	1,890	◆◆◆◆
030314	SHD1540/0.606/501HA	HCT600	15,40	0,606		16	0,630	133	5,236	83	3,268	63	2,480	48	1,890	◆◆◆◆
030315	SHD1540/0.606/501HE	HCT600	15,40	0,606		16	0,630	133	5,236	83	3,268	63	2,480	48	1,890	◆◆◆◆
030316	SHD1550/0.610/501HA	HCT600	15,50	0,610		16	0,630	133	5,236	83	3,268	63	2,480	48	1,890	◆◆◆◆
030317	SHD1550/0.610/501HE	HCT600	15,50	0,610		16	0,630	133	5,236	83	3,268	63	2,480	48	1,890	◆◆◆◆
030374	SHD1560/0.614/501HA	HCT600	15,60	0,614		16	0,630	133	5,236	83	3,268	63	2,480	48	1,890	◆◆◆◆
030318	SHD1560/0.614/501HE	HCT600	15,60	0,614		16	0,630	133	5,236	83	3,268	63	2,480	48	1,890	◆◆◆◆
030319	SHD1570/0.618/501HA	HCT600	15,70	0,618		16	0,630	133	5,236	83	3,268	63	2,480	48	1,890	◆◆◆◆
030320	SHD1570/0.618/501HE	HCT600	15,70	0,618		16	0,630	133	5,236	83	3,268	63	2,480	48	1,890	◆◆◆◆
030321	SHD1580/0.622/501HA	HCT600	15,80	0,622		16	0,630	133	5,236	83	3,268	63	2,480	48	1,890	◆◆◆◆
030322	SHD1580/0.622/501HE	HCT600	15,80	0,622		16	0,630	133	5,236	83	3,268	63	2,480	48	1,890	◆◆◆◆
030323	SHD1590/0.626/501HA	HCT600	15,90	0,626		16	0,630	133	5,236	83	3,268	63	2,480	48	1,890	◆◆◆◆
030324	SHD1590/0.626/501HE	HCT600	15,90	0,626		16	0,630	133	5,236	83	3,268	63	2,480	48	1,890	◆◆◆◆
030325	SHD1600/0.630/501HA	HCT600	16,00	0,630		16	0,630	133	5,236	83	3,268	63	2,480	48	1,890	◆◆◆◆
030326	SHD1600/0.630/501HE	HCT600	16,00	0,630		16	0,630	133	5,236	83	3,268	63	2,480	48	1,890	◆◆◆◆

Star Guide

Material Designations							
	P ◆ Unalloyed Steels	M ◆ Stainless Steels	K ◆ Cast Irons	S ◆ High Temp. Alloys			
	P ◆ Alloyed Steels	M ◆ PH Stainless	N ◆ Aluminium & Alloys	H ◆ Hard Materials			