

超硬OHノンステップボーラー 20D



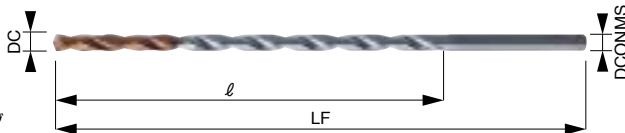
下表を参照
Refer to under table



(mm)



平面二段
S-X形シンニング
Plane, S-X thinning



切削
条件表 **E32**
Cutting Conditions

20WHNSB-TH

商品コード Item code	在庫 Stock	寸法 Size (mm) 直径 Tool dia. 溝長 Flute length 全長 Overall length シャフト径 Shank dia. DC LF DCONMS	希望小売価格 (¥) Suggested retail price(¥)
20WHNSB0200-TH	●	2.0 50 93 3.0	32,600
20WHNSB0210-TH	●	2.1 55 98 3.0	32,600
20WHNSB0220-TH	●	2.2 55 98 3.0	32,600
20WHNSB0230-TH	●	2.3 62 105 3.0	32,600
20WHNSB0240-TH	●	2.4 62 105 3.0	32,600
20WHNSB0250-TH	●	2.5 62 105 3.0	32,600
20WHNSB0260-TH	●	2.6 67 110 3.0	32,600
20WHNSB0270-TH	●	2.7 67 110 3.0	32,600
20WHNSB0280-TH	●	2.8 69 115 3.0	32,600
20WHNSB0290-TH	●	2.9 69 115 3.0	32,600
20WHNSB0300-TH	●	3.0 69 117 3.0	32,600
20WHNSB0310-TH	●	3.1 81 129 4.0	33,090
20WHNSB0320-TH	●	3.2 81 129 4.0	33,090
20WHNSB0330-TH	●	3.3 81 129 4.0	33,090
20WHNSB0340-TH	●	3.4 81 129 4.0	33,090
20WHNSB0350-TH	●	3.5 81 129 4.0	33,090
20WHNSB0360-TH	●	3.6 92 141 4.0	33,470
20WHNSB0370-TH	●	3.7 92 141 4.0	33,470
20WHNSB0380-TH	●	3.8 92 141 4.0	33,470
20WHNSB0390-TH	●	3.9 92 141 4.0	33,470
20WHNSB0400-TH	●	4.0 92 141 4.0	33,470
20WHNSB0410-TH	●	4.1 104 155 5.0	34,200
20WHNSB0420-TH	●	4.2 104 155 5.0	34,200
20WHNSB0430-TH	●	4.3 104 155 5.0	34,200
20WHNSB0440-TH	●	4.4 104 155 5.0	34,200
20WHNSB0450-TH	●	4.5 104 155 5.0	34,200
20WHNSB0460-TH	●	4.6 116 167 5.0	34,940
20WHNSB0470-TH	●	4.7 116 167 5.0	34,940
20WHNSB0480-TH	●	4.8 116 167 5.0	34,940
20WHNSB0490-TH	●	4.9 116 167 5.0	34,940
20WHNSB0500-TH	●	5.0 116 167 5.0	34,940
20WHNSB0510-TH	●	5.1 127 178 6.0	37,290
20WHNSB0520-TH	●	5.2 127 178 6.0	37,290
20WHNSB0530-TH	●	5.3 127 178 6.0	37,290
20WHNSB0540-TH	●	5.4 127 178 6.0	37,290
20WHNSB0550-TH	●	5.5 127 178 6.0	37,290
20WHNSB0560-TH	●	5.6 139 190 6.0	39,510
20WHNSB0570-TH	●	5.7 139 190 6.0	39,510
20WHNSB0580-TH	●	5.8 139 190 6.0	39,510
20WHNSB0590-TH	●	5.9 139 190 6.0	39,510
20WHNSB0600-TH	●	6.0 139 190 6.0	39,510
20WHNSB0610-TH	●	6.1 150 203 7.0	42,340
20WHNSB0620-TH	●	6.2 150 203 7.0	42,340

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20WHNSB0630-TH	●	6.3 150 203 7.0	42,340
20WHNSB0640-TH	●	6.4 150 203 7.0	42,340
20WHNSB0650-TH	●	6.5 150 203 7.0	42,340
20WHNSB0660-TH	●	6.6 162 215 7.0	45,060
20WHNSB0670-TH	●	6.7 162 215 7.0	45,060
20WHNSB0680-TH	●	6.8 162 215 7.0	45,060
20WHNSB0690-TH	●	6.9 162 215 7.0	45,060
20WHNSB0700-TH	●	7.0 162 215 7.0	45,060
20WHNSB0710-TH	●	7.1 173 228 8.0	47,660
20WHNSB0720-TH	●	7.2 173 228 8.0	47,660
20WHNSB0730-TH	●	7.3 173 228 8.0	47,660
20WHNSB0740-TH	●	7.4 173 228 8.0	47,660
20WHNSB0750-TH	●	7.5 173 228 8.0	47,660
20WHNSB0760-TH	●	7.6 185 240 8.0	50,130
20WHNSB0770-TH	●	7.7 185 240 8.0	50,130
20WHNSB0780-TH	●	7.8 185 240 8.0	50,130
20WHNSB0790-TH	●	7.9 185 240 8.0	50,130
20WHNSB0800-TH	●	8.0 185 240 8.0	50,130
20WHNSB0810-TH	□	8.1 196 251 9.0	—
20WHNSB0820-TH	□	8.2 196 251 9.0	—
20WHNSB0830-TH	●	8.3 196 251 9.0	58,150
20WHNSB0840-TH	●	8.4 196 251 9.0	58,150
20WHNSB0850-TH	●	8.5 196 251 9.0	58,150
20WHNSB0860-TH	□	8.6 208 263 9.0	—
20WHNSB0870-TH	□	8.7 208 263 9.0	—
20WHNSB0880-TH	●	8.8 208 263 9.0	61,100
20WHNSB0890-TH	●	8.9 208 263 9.0	61,100
20WHNSB0900-TH	●	9.0 208 263 9.0	61,100
20WHNSB0910-TH	□	9.1 219 274 10.0	—
20WHNSB0920-TH	□	9.2 219 274 10.0	—
20WHNSB0930-TH	●	9.3 219 274 10.0	63,450
20WHNSB0940-TH	●	9.4 219 274 10.0	63,450
20WHNSB0950-TH	●	9.5 219 274 10.0	63,450
20WHNSB0960-TH	□	9.6 231 286 10.0	—
20WHNSB0970-TH	□	9.7 231 286 10.0	—
20WHNSB0980-TH	●	9.8 231 286 10.0	66,530
20WHNSB0990-TH	●	9.9 231 286 10.0	66,530
20WHNSB1000-TH	●	10.0 231 286 10.0	66,530
20WHNSB1010-TH	□	10.1 243 298 11.0	—
20WHNSB1020-TH	□	10.2 243 298 11.0	—
20WHNSB1030-TH	●	10.3 243 298 11.0	74,560
20WHNSB1040-TH	●	10.4 243 298 11.0	74,560
20WHNSB1050-TH	●	10.5 243 298 11.0	74,560

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20WHNSB1060-TH	□	10.6 254 315 11.0	—
20WHNSB1070-TH	□	10.7 254 315 11.0	—
20WHNSB1080-TH	●	10.8 254 315 11.0	82,580
20WHNSB1090-TH	●	10.9 254 315 11.0	82,580
20WHNSB1100-TH	●	11.0 254 315 11.0	82,580
20WHNSB1110-TH	□	11.1 266 327 12.0	—
20WHNSB1120-TH	□	11.2 266 327 12.0	—
20WHNSB1130-TH	●	11.3 266 327 12.0	86,400
20WHNSB1140-TH	●	11.4 266 327 12.0	86,400
20WHNSB1150-TH	●	11.5 266 327 12.0	86,400
20WHNSB1160-TH	□	11.6 277 338 12.0	—
20WHNSB1170-TH	□	11.7 277 338 12.0	—
20WHNSB1180-TH	●	11.8 277 338 12.0	90,480
20WHNSB1190-TH	●	11.9 277 338 12.0	90,480
20WHNSB1200-TH	●	12.0 277 338 12.0	90,480
20WHNSB1210-TH	□	12.1 289 350 13.0	—
20WHNSB1220-TH	□	12.2 289 350 13.0	—
20WHNSB1230-TH	□	12.3 289 350 13.0	—
20WHNSB1240-TH	□	12.4 289 350 13.0	—
20WHNSB1250-TH	●	12.5 289 350 13.0	108,870
20WHNSB1260-TH	□	12.6 300 366 13.0	—
20WHNSB1270-TH	□	12.7 300 366 13.0	—
20WHNSB1280-TH	□	12.8 300 366 13.0	—
20WHNSB1290-TH	□	12.9 300 366 13.0	—
20WHNSB1300-TH	●	13.0 300 366 13.0	112,940

20WHNSB直径公差表

Table of Tolerance on tool dia.

直径2.0~3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0, 8.5, 9.0, 10.0, 11.0, 12.0, 13.0はh8となります。

上記以外のアイテムは下表の直径公差になります。

h8 for diameters of 2.0 to 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0, 8.5, 9.0, 10.0, 11.0, 12.0 and 13.0. For other items, the diameter tolerance will be as in the table below.

(mm)

20WHNSB			
	3.0<DC<6.0	6.0<DC<10.0	10.0<DC<13.0
上限 Max	-0.020	-0.024	-0.030
下限 Min	-0.036	-0.045	-0.053

○ 対応被削材

Applicable work material

軟鋼 Mild steel	炭素鋼 Carbon steel	合金鋼 Alloy steel	調質鋼 Heat-treated steel	工具鋼 Tool steel	焼入れ鋼 Hardened steel	ステンレス鋼 Stainless steel	耐熱鋼 Ti alloy	鋳鉄 Cast iron	ダクトイル鋳鉄 Ductile cast iron	アルミ合金 Aluminum alloy	銅合金 Copper alloy
SS	SCOC	SCM, SCr	SKD, SKS	~40HRC	~45HRC 45HRC~	SUS	Inconel	FC	FCD	Al	Cu
○	○	○	○	○	○	○	○	○	○	○	○

○ 再研磨対応外径範囲

Re-grinding compatibility range

商品コード Item code	エンド End (mm)
20WHNSB-TH	2 ~ 13