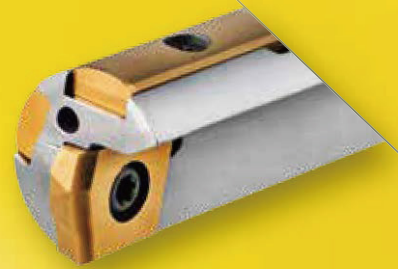


12~52mm

EB 800刀片替換式大尺寸槍鑽

EB 800

THE FLEXIBLE



**刀片與導引塊更換容易、快速
不需微調，效率高**

使用EB 800刀片替換式槍鑽與使用傳統焊刃式槍鑽比較

- 1、**操作容易**：適合長期大量工件鑽孔與除料使用。例如：齒輪傳動心軸、冷凝器鑽孔除料。
- 2、**降低人力需求**：不需仰賴修磨的技術人員為刀頭修磨，人員可確實直接投入生產需要。
- 3、**不需停機換刀**：機上即可更換刀片與導引塊，大量降低停機、更換刀具、校正刀具的時間。
- 4、**斷屑槽設計**：刀片有斷屑溝，使斷屑更容易、加工壽命長，而傳統焊刃式槍鑽頭沒有斷屑槽設計。
- 5、**塗層選用**：刀片與導引塊皆可以根據加工材質來選用適合的塗層，刀具壽命大為提升。
- 6、**節省儲存空間**：管理簡單化，同一規格降低流動使用數，不需準備太多庫存。

歐美日國家的大尺寸槍鑽加工皆使用刀片替換式，因為人工成本昂貴

EB 800: THE FLEXIBLE

- \ single-fluted gun drills with interchangeable inserts and interchangeable guide pads
- \ total length up to 3,600 mm
- \ manufactured from 12.000 to 52.000 mm nominal diameter
- \ each body covers 0.5mm dia. insert range
- \ any coating possible
- \ suitable for most materials

EB 800：刀片替換式 槍鑽

- \ 單刃槍鑽的刀片和導引塊為替換式。
- \ 總長度可達3.6米。
- \ 直徑12.0到52.0mm。
- \ 每個刀桿主體應用範圍為直徑0.5mm以內。
- \ 多種塗層可以選用。
- \ 大多數的材料加工皆可使用。

EB 800 – THE FLEXIBLE

- up to nom. \varnothing 52.000mm
- inserts and guide pads in 1/10 diameters as standard, in 1/100 diameters as special tools
- for each nominal diameter, both the appropriate inserts and interchangeable guide pads must be used



EB 800刀片替換式槍鑽

- 切削最大孔徑至 \varnothing 52mm。
- 刃徑刀片與導引塊尺寸每1/10，即每隔0.1mm為標準規格，1/100小數點下3位，則為特殊規格。
- 對於每個尺寸，必須使用尺寸正確的刀片與導引塊。

Gühring single-fluted gun drills with interchangeable inserts and guide pads are also produced as special tools according to customer requirements. They are suitable for nearly every material and available from diameter 12.000 to 52.000 mm up to a maximum total length of 3,600 mm.

鈷領單刃替換式槍鑽也可根據客戶需求來訂製，幾乎所有材料皆能使用，直徑從12.0mm到52.0mm，總長度最大為3.6米。

Advantages :

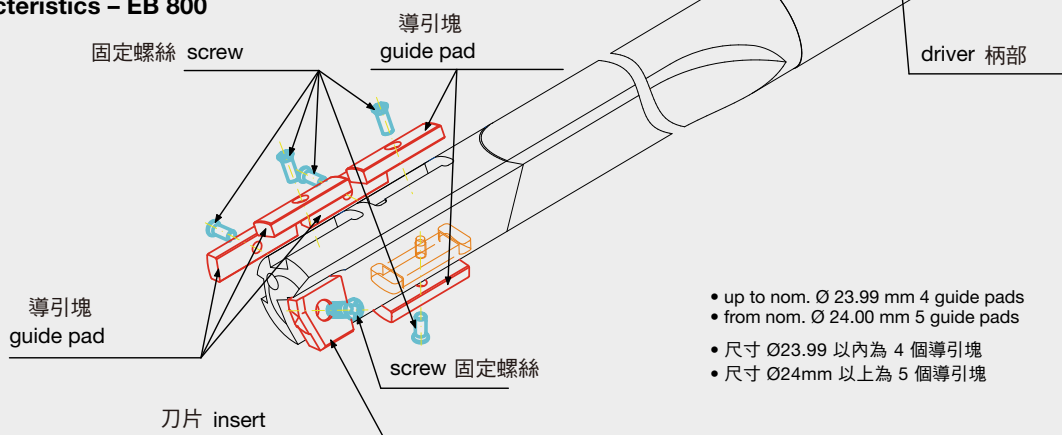
- Due to the interchangeable inserts and supporting strips, coatings can be individually applied.
可以選用適合的塗層來對應加工材質需要
- Thanks to the precision interchangeable inserts and guide pads complicated adjustments are no longer necessary
尺寸不需額外調整
- The guide pads and the inner inserts can be mounted laterally inverted, thus providing a doubled tool life.
導引塊與內側刀片可以雙頭使用，降低成本
- Small number of exchangeable parts makes construction extremely stable.
替換式零件少，使本體非常穩定
- From 40.001 mm \varnothing with additional inner cutting edge
尺寸從40.001mm起需額外再加一片內部刀片使用
- Parts can be changed within the machine: expensive downtimes are eliminated.
更換刀片與導引塊可在機上直接更換，不需拆下，節省停機時間
- Less storage space required for tools
刀具儲存空間大為降低

- User-oriented selection of the insert ensures optimum chip breaking - even with problematic materials.
用戶選擇正確的斷屑槽刀片，即使在有問題的材料下，也能確保最佳的斷屑效果。
- The nominal diameter can be changed by replacing the exchange parts.
可以通過更換刀片來更改加工直徑，最多約0.5mm。
- The driver is produced in heat-treatable steel according to: 柄部根據以下標準以熱處理鋼材製造

- | | |
|---------------|--------------|
| • DIN 6535 HA | • DIN 1835 A |
| • DIN 6535 HB | • DIN 1835 B |
| • DIN 6535 HE | • DIN 1835 E |

Also, all the forms generally required for deep drilling machines are possible to be manufactured.
而且可以依照深孔加工需求來製造刀頭的形式。

Characteristics – EB 800



- up to nom. \varnothing 23.99 mm 4 guide pads
- from nom. \varnothing 24.00 mm 5 guide pads
- 尺寸 \varnothing 23.99 以內為 4 個導引塊
- 尺寸 \varnothing 24mm 以上為 5 個導引塊

加工材質	圖示	鑽孔深度		切削方向	刀具材質	塗層種類	直徑範圍	編號	切削參數 頁數	頁數
P M K N S H	Tool illustration	Drilling depth	Standard Type	Cutting direction	Tool material	Surface	d1/mm	Article no.	Cutting data page	Page

EB 800 single-fluted gun drills with indexable inserts

		30xD	WN	EB 800	R	HM	S	12.000 - 31.900	5644	20	05
--	--	------	----	--------	---	----	---	-----------------	------	----	----

Outer inserts for single-fluted gun drills EB 800

外側刀片 單頭使用

		WN	EB 800	R	VHM	S	12.000 - 52.000	5029	20	10
		WN	EB 800	R	VHM	Y	12.000 - 52.000	5702	20	13
		WN	EB 800	R	VHM	F	12.000 - 52.000	5704	20	13
		WN	EB 800	R	VHM	a	12.000 - 52.000	5706	20	13

Guide pads for single-fluted gun drills EB 800

導引塊 雙頭使用

		WN	EB 800		VHM	S	12.000 - 52.000	5030	20	14
		WN	EB 800		VHM	Y	12.000 - 52.000	5703	20	17
		WN	EB 800		VHM	F	12.000 - 52.000	5705	20	17
		WN	EB 800		VHM	a	12.000 - 52.000	5707	20	17

Inner inserts for single-fluted gun drills EB 800

內側刀片40mm以上 雙頭使用

		WN	EB 800	R	VHM	S	40.001 - 52.000	5665	20	18
		WN	EB 800	R	VHM	Y	40.001 - 52.000	5667	20	18
		WN	EB 800	R	VHM	F	40.001 - 52.000	5666	20	19
		WN	EB 800	R	VHM	a	40.001 - 52.000	5668	20	19

EB 800 single-fluted gun drills with indexable inserts



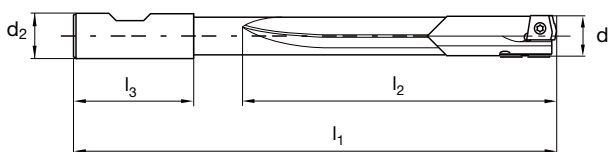
Tool material	Carbide
Surface	S
Shank form	HB

P	●	with interchangeable inserts • with interchangeable guide pads • with screw driver • with screws • for universal application • order torque wrench set art. no. 4966 separately
M	○	
K	○	訂購整組 # 5644
N	●	包含安裝一組TiN塗層的使用刀片 / 導引塊 / 螺絲起子 / 固定螺絲扭力扳手 # 4966，需額外訂購
S	○	
H		

GÜHRING NAVIGATOR

Cutting data page 20

切削參數 頁數：20








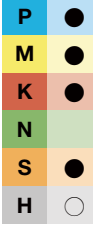



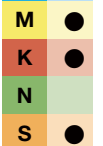



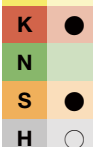
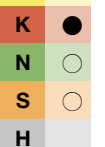


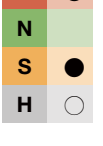


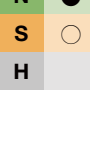
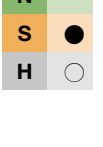

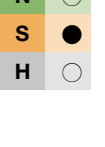
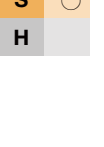

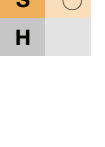
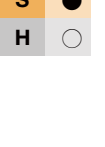




























































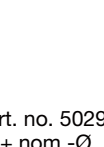
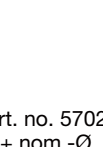
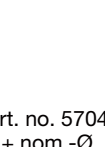
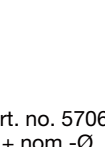
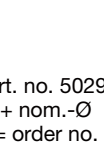
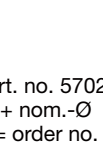
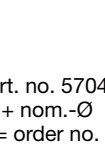
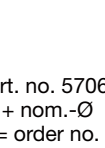
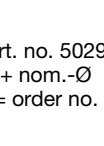
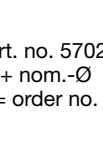
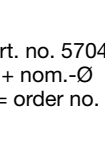
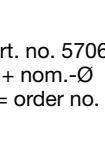
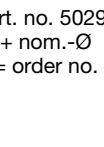
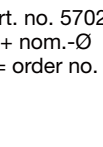
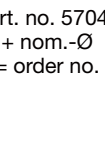
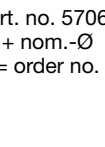
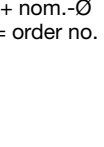
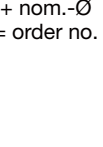
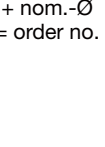
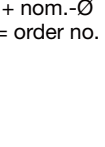























































































編號 **5644**

d1 h8 直徑		Ø-range	d2 柄徑	l1 總長	l2 溝長	l3 柄長	價格
mm	inch	尺寸範圍	mm	mm	mm	mm	
12.000		12,000-12,499	20.000	446.00	384.00	50.00	39,100
12.100		12,000-12,499	20.000	446.00	384.00	50.00	39,100
12.200		12,000-12,499	20.000	446.00	384.00	50.00	39,100
12.300	31/64	12,000-12,499	20.000	446.00	384.00	50.00	39,100
12.400		12,000-12,499	20.000	446.00	384.00	50.00	39,100
12.500		12,500-12,999	20.000	468.00	406.00	50.00	41,300
12.600		12,500-12,999	20.000	468.00	406.00	50.00	41,300
12.700	1/2	12,500-12,999	20.000	468.00	406.00	50.00	41,300
12.800		12,500-12,999	20.000	468.00	406.00	50.00	41,300
12.900		12,500-12,999	20.000	468.00	406.00	50.00	41,300
14.000		14,000-14,499	20.000	510.00	448.00	50.00	41,600
14.100		14,000-14,499	20.000	510.00	448.00	50.00	41,600
14.200		14,000-14,499	20.000	510.00	448.00	50.00	41,600
14.300		14,000-14,499	20.000	510.00	448.00	50.00	41,600
14.400		14,000-14,499	20.000	510.00	448.00	50.00	41,600
15.000		15,000-15,499	25.000	548.00	480.00	56.00	43,000
15.100		15,000-15,499	25.000	548.00	480.00	56.00	43,000
15.200		15,000-15,499	25.000	548.00	480.00	56.00	43,000
15.300		15,000-15,499	25.000	548.00	480.00	56.00	43,000
15.400		15,000-15,499	25.000	548.00	480.00	56.00	43,000
15.500		15,500-15,999	25.000	580.00	515.00	56.00	44,900
15.600		15,500-15,999	25.000	580.00	515.00	56.00	44,900
15.700		15,500-15,999	25.000	580.00	515.00	56.00	44,900
15.800		15,500-15,999	25.000	580.00	515.00	56.00	44,900
15.900		15,500-15,999	25.000	580.00	515.00	56.00	44,900
16.000		16,000-16,499	25.000	580.00	512.00	56.00	45,300
16.100		16,000-16,499	25.000	580.00	512.00	56.00	45,300
16.200		16,000-16,499	25.000	580.00	512.00	56.00	45,300
16.300		16,000-16,499	25.000	580.00	512.00	56.00	45,300
16.400		16,000-16,499	25.000	580.00	512.00	56.00	45,300
18.000		18,000-18,499	25.000	644.00	576.00	56.00	47,200
18.100		18,000-18,499	25.000	644.00	576.00	56.00	47,200
18.200		18,000-18,499	25.000	644.00	576.00	56.00	47,200
18.300		18,000-18,499	25.000	644.00	576.00	56.00	47,200
18.400		18,000-18,499	25.000	644.00	576.00	56.00	47,200
19.000		19,000-19,499	25.000	695.00	635.00	56.00	47,900
19.050	3/4	19,000-19,499	25.000	695.00	635.00	56.00	47,900
19.100		19,000-19,499	25.000	695.00	635.00	56.00	47,900
19.200		19,000-19,499	25.000	695.00	635.00	56.00	47,900
19.300		19,000-19,499	25.000	695.00	635.00	56.00	47,900
19.400		19,000-19,499	25.000	695.00	635.00	56.00	47,900
20.000		20,000-20,499	32.000	712.00	640.00	60.00	48,400

d1 h8 直徑		Ø-range	d2 柄徑	l1 總長	l2 溝長	l3 柄長	
mm	inch	尺寸範圍	mm	mm	mm	mm	價格
20.100		20,000-20,499	32.000	712.00	640.00	60.00	48,400
20.200		20,000-20,499	32.000	712.00	640.00	60.00	48,400
20.300		20,000-20,499	32.000	712.00	640.00	60.00	48,400
20.400		20,000-20,499	32.000	712.00	640.00	60.00	48,400
24.000		24,000-24,499	32.000	840.00	768.00	60.00	54,700
24.100		24,000-24,499	32.000	840.00	768.00	60.00	54,700
24.200		24,000-24,499	32.000	840.00	768.00	60.00	54,700
24.300		24,000-24,499	32.000	840.00	768.00	60.00	54,700
24.400		24,000-24,499	32.000	840.00	768.00	60.00	54,700
25.000	63/64	25,000-25,499	32.000	875.00	810.00	60.00	56,500
25.100		25,000-25,499	32.000	875.00	810.00	60.00	56,500
25.200		25,000-25,499	32.000	875.00	810.00	60.00	56,500
25.300		25,000-25,499	32.000	875.00	810.00	60.00	56,500
25.400	1	25,000-25,499	32.000	875.00	810.00	60.00	56,500
31.500		31,500-31,999	40.000	1080.00	1005.00	70.00	72,200
31.600		31,500-31,999	40.000	1080.00	1005.00	70.00	72,200
31.700		31,500-31,999	40.000	1080.00	1005.00	70.00	72,200
31.800		31,500-31,999	40.000	1080.00	1005.00	70.00	72,200
31.900		31,500-31,999	40.000	1080.00	1005.00	70.00	72,200

Ø12.000-52.000 mm, total length max. 3,600 mm

Hoder size 刀桿尺寸 群組	Diameter range 加工孔徑範圍	Body / holder 刀桿本體	Outer inserts 外側刀片				Inserts 刀片				
							Screw	Screw driver			
											
TiN-coated	Signum-coated	FIRE-coated	TiAlN nanoA-coated								
0.	Ø12.000 - Ø12.499	Standard range Art. no. 5644 from diameter 12.000 mm up to 31.900 mm in preferred sizes complete with TiN inserts and TiN guide pads Alternative: Body/holder especially to customer re-quirements. Total length up to 3,600 mm 標準品範圍 編號#5644， 直徑從12mm 到31.9mm， 首選尺寸， 配有TiN刀片 和TiN導引塊 依照客戶需求 特殊規格選配 總長度達3.6米					Art. no. 4071 2.502 T8 M2.5x 5.2	Art. no. 1612 8.001			
	Ø12.500 - Ø12.999		1.					Art. no. 4071 3.002 T9 M3x6.4	Art. no. 1612 9.001		
	Ø13.000 - Ø13.499			2.					Art. no. 4071 4.001 T15 M4x7.7	Art. no. 1612 15.001	
	Ø13.500 - Ø13.999				3.						Art. no. 4071 4.002 T15 M4x10.6
	Ø14.000 - Ø14.499					4.					
Ø14.500 - Ø14.999	5.							Art. no. 4071 4.001 T15 M4x7.7	Art. no. 1612 20.001		
Ø15.000 - Ø15.499			6.					Art. no. 4071 4.002 T15 M4x10.6			
Ø15.500 - Ø15.999	7.							Art. no. 4071 4.001 T15 M4x7.7	Art. no. 1612 15.001		
Ø16.000 - Ø16.499			8.					Art. no. 4071 4.001 T15 M4x7.7			
Ø16.500 - Ø16.999	9.							Art. no. 4071 4.001 T15 M4x7.7	Art. no. 1612 15.001		
Ø17.000 - Ø17.499							Art. no. 4071 4.001 T15 M4x7.7				
Ø17.500 - Ø17.999						Art. no. 4071 4.001 T15 M4x7.7					
Ø18.000 - Ø18.499						Art. no. 4071 4.001 T15 M4x7.7					
Ø18.500 - Ø18.999						Art. no. 4071 4.001 T15 M4x7.7					
Ø19.000 - Ø19.499						Art. no. 4071 4.001 T15 M4x7.7					
Ø19.500 - Ø19.999						Art. no. 4071 4.001 T15 M4x7.7					
Ø20.000 - Ø20.499						Art. no. 4071 4.001 T15 M4x7.7					
Ø20.500 - Ø20.999						Art. no. 4071 4.001 T15 M4x7.7					
Ø21.000 - Ø21.499						Art. no. 4071 4.001 T15 M4x7.7					
Ø21.500 - Ø21.999						Art. no. 4071 4.001 T15 M4x7.7					
Ø22.000 - Ø22.499						Art. no. 4071 4.001 T15 M4x7.7					
Ø22.500 - Ø22.999						Art. no. 4071 4.001 T15 M4x7.7					
Ø23.000 - Ø23.499						Art. no. 4071 4.001 T15 M4x7.7					
Ø23.500 - Ø23.999						Art. no. 4071 4.001 T15 M4x7.7					
Ø24.000 - Ø24.499						Art. no. 4071 4.001 T15 M4x7.7					
Ø24.500 - Ø24.999					Art. no. 4071 4.001 T15 M4x7.7						
Ø25.000 - Ø25.499					Art. no. 4071 4.001 T15 M4x7.7						
Ø25.500 - Ø25.999					Art. no. 4071 4.001 T15 M4x7.7						
Ø26.000 - Ø26.499					Art. no. 4071 4.001 T15 M4x7.7						
Ø26.500 - Ø26.999					Art. no. 4071 4.001 T15 M4x7.7						
Ø27.000 - Ø27.499					Art. no. 4071 4.001 T15 M4x7.7						
Ø27.500 - Ø27.999					Art. no. 4071 4.001 T15 M4x7.7						
Ø28.000 - Ø28.499					Art. no. 4071 4.001 T15 M4x7.7						
Ø28.500 - Ø28.999					Art. no. 4071 4.001 T15 M4x7.7						
Ø29.000 - Ø29.499					Art. no. 4071 4.001 T15 M4x7.7						
Ø29.500 - Ø29.999					Art. no. 4071 4.001 T15 M4x7.7						
Ø30.000 - Ø30.499					Art. no. 4071 4.001 T15 M4x7.7						
Ø30.500 - Ø30.999					Art. no. 4071 4.001 T15 M4x7.7						
Ø31.000 - Ø31.499					Art. no. 4071 4.001 T15 M4x7.7						
Ø31.500 - Ø31.999					Art. no. 4071 4.001 T15 M4x7.7						
Ø32.000 - Ø32.499					Art. no. 4071 4.001 T15 M4x7.7						
Ø32.500 - Ø32.999					Art. no. 4071 4.001 T15 M4x7.7						
Ø33.000 - Ø33.499					Art. no. 4071 4.001 T15 M4x7.7						
Ø33.500 - Ø33.999					Art. no. 4071 4.001 T15 M4x7.7						
Ø34.000 - Ø34.499					Art. no. 4071						

內部雙頭刀片			Guide pads 導引塊																																																					
Inner inserts	Screw	Screw driver	Guide pads 導引塊				Screw	Screw driver																																																
																																																								
			TiN-coated	Signum-coated	FIRE-coated	TiAlN nanoA-coated																																																		
			<table border="1"> <tr><td>P</td><td>●</td></tr> <tr><td>M</td><td>○</td></tr> <tr><td>K</td><td>○</td></tr> <tr><td>N</td><td>●</td></tr> <tr><td>S</td><td>○</td></tr> <tr><td>H</td><td>○</td></tr> </table>	P	●	M	○	K	○	N	●	S	○	H	○	<table border="1"> <tr><td>P</td><td>●</td></tr> <tr><td>M</td><td>●</td></tr> <tr><td>K</td><td>●</td></tr> <tr><td>N</td><td>○</td></tr> <tr><td>S</td><td>●</td></tr> <tr><td>H</td><td>○</td></tr> </table>	P	●	M	●	K	●	N	○	S	●	H	○	<table border="1"> <tr><td>P</td><td>●</td></tr> <tr><td>M</td><td>○</td></tr> <tr><td>K</td><td>●</td></tr> <tr><td>N</td><td>○</td></tr> <tr><td>S</td><td>○</td></tr> <tr><td>H</td><td>○</td></tr> </table>	P	●	M	○	K	●	N	○	S	○	H	○	<table border="1"> <tr><td>P</td><td>○</td></tr> <tr><td>M</td><td>●</td></tr> <tr><td>K</td><td>○</td></tr> <tr><td>N</td><td>○</td></tr> <tr><td>S</td><td>●</td></tr> <tr><td>H</td><td>○</td></tr> </table>	P	○	M	●	K	○	N	○	S	●	H	○	Art. no. 4071 1.601 T5 M1.6x4.4	Art. no. 1612 5.001
P	●																																																							
M	○																																																							
K	○																																																							
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N	○																																																							
S	●																																																							
H	○																																																							
							Art. no. 4071 2.203 T7 / M2.2x 4.6	Art. no. 1612 7.001																																																
							Art. no. 4071 2.202 T7 / M2.2x5.6																																																	
							Art. no. 4071 2.502 T8 M2.5x 5.2	Art. no. 1612 8.001																																																
							Art. no. 4071 2.501 T8 M2.5x6.4																																																	
			Art. no. 5030 + nom.-Ø = order no.	Art. no. 5703 + nom.-Ø = order no.	Art. no. 5705 + nom.-Ø = order no.	Art. no. 5707 + nom.-Ø = order no.																																																		
TiN Art. no. 5665 1.000	Art. no. 4071 4.501 T15 M4.5x11.8	Art. no. 1612 15.001					Art. no. 4071 3.003 T9 M3x8	Art. no. 1612 9.001																																																
Signum Art. no. 5667 1.000																																																								
FIRE Art. no. 5666 1.000																																																								
TiAlN nanoA Art. no. 5668 1.000																																																								

Tightening torque-guide values 鎖固扭力建議值

Outer insert 外部刀片

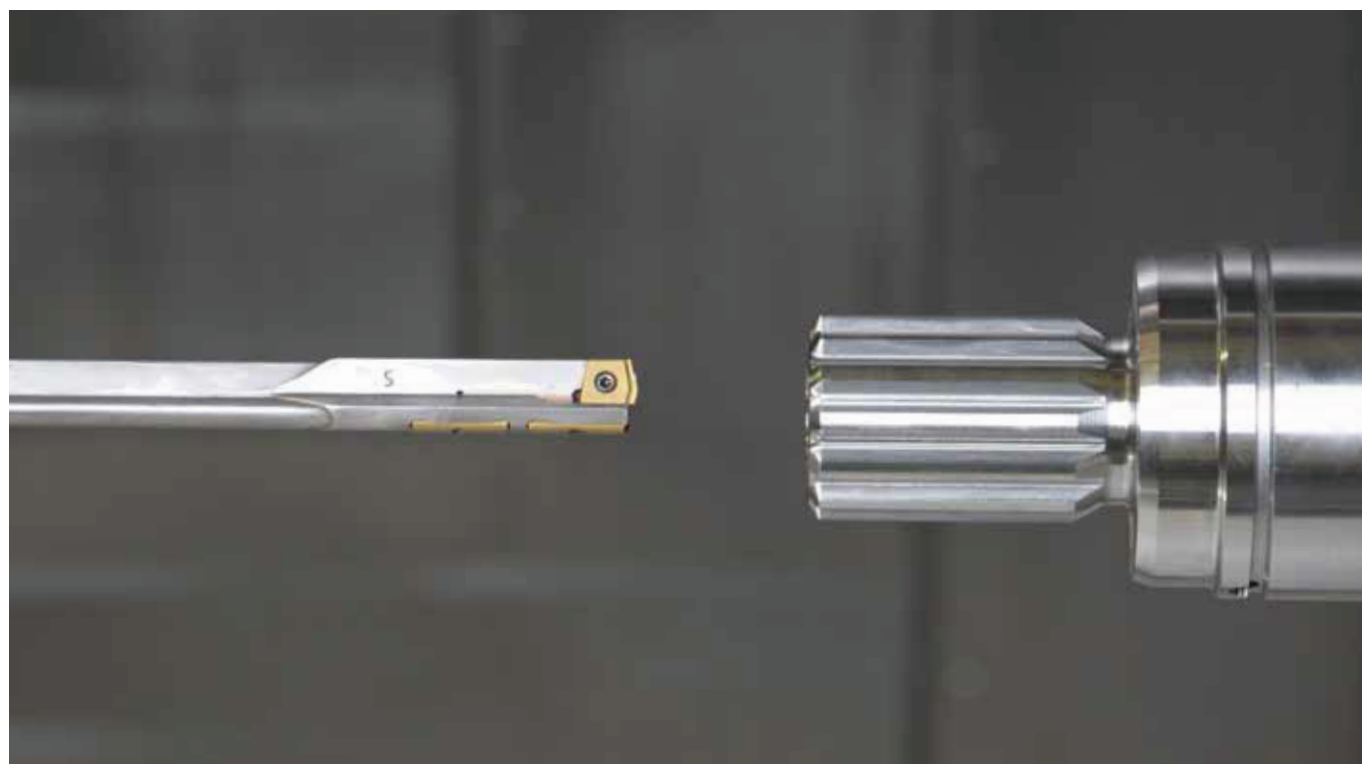
Size	Diameter in mm 尺寸範圍	ISO metric thread in mm 公制 ISO 固定螺絲	Torx size T形扳手尺寸	Tightening torque in Nm 扭力範圍
0.	12.000-15.999	M2.5 x 5.2	T8	1.0
1.	16.000-19.999	M3.0 x 6.4	T9	1.4
2.	20.000-25.999	M4.0 x 7.7	T15	2.5
3.	26.000-29.999	M4.0 x 10.6	T15	2.5
4.	30.000-33.999	M4.0 x 10.6	T15	2.5
5.	34.000-37.999	M5.0 x 14.2	T20	5.0
6.	38.000-40.000	M5.0 x 14.2	T20	5.0
7.	40.001-43.999	M4.0 x 7.7	T15	2.5
8.	44.000-47.999	M4.0 x 10.6	T15	2.5
9.	48.000-52.000	M4.0 x 10.6	T15	2.5

Inner insert 內部刀片

Size	Diameter in mm 尺寸範圍	ISO metric thread in mm 公制 ISO 固定螺絲	Torx size T形扳手尺寸	Tightening torque in Nm 扭力範圍
7.-9.	40.001-52.000	M4.5 x 11.8	T15	3.0

Guide pads 導引塊

Size	Diameter in mm 尺寸範圍	ISO metric thread in mm 公制 ISO 固定螺絲	Torx size T形扳手尺寸	Tightening torque in Nm 扭力範圍
0.	12.000-15.999	M1.6 x 4.4	T5	0.4
1.	16.000-17.999	M2.2 x 4.6	T7	0.6
1.	18.000-19.999	M2.2 x 5.6	T7	0.6
2.	20.000-22.499	M2.5 x 5.2	T8	1.0
2.	22.500-25.999	M2.5 x 6.4	T8	1.0
3.	26.000-29.999	M2.5 x 6.4	T8	1.0
4.-9.	30.000-52.000	M3.0 x 8.0	T9	1.4



Outer inserts for single-fluted gun drills EB 800 單頭式 外側刀片



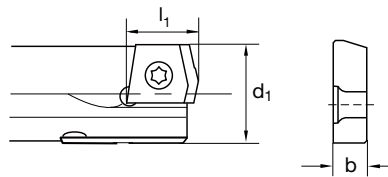
Tool material **Solid carbide**
Surface **S**

- P** ● interchangeable insert with 1 cutting edge • observe tightening torques • order torque wrench set art. no. 4966 separately
- M** ○
- K** ○ • 外側刀片，單頭使用
- N** ● • 扭力扳手 # 4966，需額外訂購
- S** ○ • 刃口具有斷屑槽設計，使排屑更順暢
- H** ○

GÜHRING NAVIGATOR

Cutting data page 20
切削參數 頁數：20

推薦使用材質如下：
構造用鋼/ 易削鋼/ 碳鋼
鋁合金/ 鎂合金/ 紅銅/ 黃銅/ 青銅
塑膠/ 玻璃纖維/ 碳纖維/ 杜邦克維拉纖維



刃口斷屑槽設計



編號 **5029**

d1 直徑	b 厚度	l1 長度	價格
mm	mm	mm	
12.000	2.80	10.00	2,100
12.100	2.80	10.00	2,200
12.200	2.80	10.00	2,200
12.300	2.80	10.00	2,200
12.400	2.80	10.00	2,200
12.500	2.80	10.00	2,100
12.600	2.80	10.00	2,200
12.700	2.80	10.00	2,200
12.800	2.80	10.00	2,200
12.900	2.80	10.00	2,200
13.000	2.80	10.00	2,100
13.100	2.80	10.00	2,200
13.200	2.80	10.00	2,200
13.300	2.80	10.00	2,200
13.400	2.80	10.00	2,200
13.500	2.80	10.00	2,100
13.600	2.80	10.00	2,200
13.700	2.80	10.00	2,200
13.800	2.80	10.00	2,200
13.900	2.80	10.00	2,200
14.000	2.80	10.00	2,100
14.100	2.80	10.00	2,200
14.200	2.80	10.00	2,200
14.300	2.80	10.00	2,200
14.400	2.80	10.00	2,200
14.500	2.80	10.00	2,100
14.600	2.80	10.00	2,200
14.700	2.80	10.00	2,200
14.800	2.80	10.00	2,200
14.900	2.80	10.00	2,200
15.000	2.80	10.00	2,100
15.100	2.80	10.00	2,200
15.200	2.80	10.00	2,200
15.300	2.80	10.00	2,200
15.400	2.80	10.00	2,200
15.500	2.80	10.00	2,100
15.600	2.80	10.00	2,200
15.700	2.80	10.00	2,200
15.800	2.80	10.00	2,200
15.900	2.80	10.00	2,200
16.000	3.00	12.00	2,900
16.100	3.00	12.00	2,900

d1 直徑	b 厚度	l1 長度	價格
mm	mm	mm	
16.200	3.00	12.00	2,900
16.300	3.00	12.00	2,900
16.400	3.00	12.00	2,900
16.500	3.00	12.00	2,900
16.600	3.00	12.00	2,900
16.700	3.00	12.00	2,900
16.800	3.00	12.00	2,900
16.900	3.00	12.00	2,900
17.000	3.00	12.00	2,900
17.100	3.00	12.00	2,900
17.200	3.00	12.00	2,900
17.300	3.00	12.00	2,900
17.400	3.00	12.00	2,900
17.500	3.00	12.00	2,900
17.600	3.00	12.00	2,900
17.700	3.00	12.00	2,900
17.800	3.00	12.00	2,900
17.900	3.00	12.00	2,900
18.000	3.00	12.00	2,900
18.100	3.00	12.00	2,900
18.200	3.00	12.00	2,900
18.300	3.00	12.00	2,900
18.400	3.00	12.00	2,900
18.500	3.00	12.00	2,900
18.600	3.00	12.00	2,900
18.700	3.00	12.00	2,900
18.800	3.00	12.00	2,900
18.900	3.00	12.00	2,900
19.000	3.00	12.00	2,900
19.050	3.00	12.00	2,900
19.100	3.00	12.00	2,900
19.200	3.00	12.00	2,900
19.300	3.00	12.00	2,900
19.400	3.00	12.00	2,900
19.500	3.00	12.00	2,900
19.600	3.00	12.00	2,900
19.700	3.00	12.00	2,900
19.800	3.00	12.00	2,900
19.900	3.00	12.00	2,900
20.000	4.00	15.00	2,900
20.100	4.00	15.00	3,700
20.200	4.00	15.00	3,700

d1 直徑	b 厚度	l1 長度	價格
mm	mm	mm	
20.300	4.00	15.00	3,700
20.400	4.00	15.00	3,700
20.500	4.00	15.00	3,700
20.600	4.00	15.00	3,700
20.700	4.00	15.00	3,700
20.800	4.00	15.00	3,700
20.900	4.00	15.00	3,700
21.000	4.00	15.00	3,700
21.100	4.00	15.00	3,700
21.200	4.00	15.00	3,700
21.300	4.00	15.00	3,700
21.400	4.00	15.00	3,700
21.500	4.00	15.00	3,700
21.600	4.00	15.00	3,700
21.700	4.00	15.00	3,700
21.800	4.00	15.00	3,700
21.900	4.00	15.00	3,700
22.000	4.00	15.00	3,700
22.100	4.00	15.00	3,700
22.200	4.00	15.00	3,700
22.300	4.00	15.00	3,700
22.400	4.00	15.00	3,700
22.500	4.00	15.00	3,700
22.600	4.00	15.00	3,700
22.700	4.00	15.00	3,700
22.800	4.00	15.00	3,700
22.900	4.00	15.00	3,700
23.000	4.00	15.00	3,700
23.100	4.00	15.00	3,700
23.200	4.00	15.00	3,700
23.300	4.00	15.00	3,700
23.400	4.00	15.00	3,700
23.500	4.00	15.00	3,700
23.600	4.00	15.00	3,700
23.700	4.00	15.00	3,700
23.800	4.00	15.00	3,700
23.900	4.00	15.00	3,700
24.000	4.00	15.00	3,700
24.100	4.00	15.00	3,700
24.200	4.00	15.00	3,700
24.300	4.00	15.00	3,700
24.400	4.00	15.00	3,700
24.500	4.00	15.00	3,700
24.600	4.00	15.00	3,700
24.700	4.00	15.00	3,700
24.800	4.00	15.00	3,700
24.900	4.00	15.00	3,700
25.000	4.00	15.00	3,700
25.100	4.00	15.00	3,700
25.200	4.00	15.00	3,700
25.300	4.00	15.00	3,700
25.400	4.00	15.00	3,700
25.500	4.00	15.00	3,700
25.600	4.00	15.00	3,700
25.700	4.00	15.00	3,700
25.800	4.00	15.00	3,700
25.900	4.00	15.00	3,700
26.000	5.00	16.00	3,700
26.100	5.00	16.00	4,200
26.200	5.00	16.00	4,200
26.300	5.00	16.00	4,200
26.400	5.00	16.00	4,200
26.500	5.00	16.00	4,200
26.600	5.00	16.00	4,200
26.700	5.00	16.00	4,200
26.800	5.00	16.00	4,200
26.900	5.00	16.00	4,200
27.000	5.00	16.00	4,200
27.100	5.00	16.00	4,200
27.200	5.00	16.00	4,200
27.300	5.00	16.00	4,200
27.400	5.00	16.00	4,200

d1 直徑	b 厚度	l1 長度	價格
mm	mm	mm	
27.500	5.00	16.00	4,200
27.600	5.00	16.00	4,200
27.700	5.00	16.00	4,200
27.800	5.00	16.00	4,200
27.900	5.00	16.00	4,200
28.000	5.00	16.00	4,200
28.100	5.00	16.00	4,200
28.200	5.00	16.00	4,200
28.300	5.00	16.00	4,200
28.400	5.00	16.00	4,200
28.500	5.00	16.00	4,200
28.600	5.00	16.00	4,200
28.700	5.00	16.00	4,200
28.800	5.00	16.00	4,200
28.900	5.00	16.00	4,200
29.000	5.00	16.00	4,200
29.100	5.00	16.00	4,200
29.200	5.00	16.00	4,200
29.300	5.00	16.00	4,200
29.400	5.00	16.00	4,200
29.500	5.00	16.00	4,200
29.600	5.00	16.00	4,200
29.700	5.00	16.00	4,200
29.800	5.00	16.00	4,200
29.900	5.00	16.00	4,200
30.000	6.00	18.00	4,200
30.100	6.00	18.00	4,500
30.200	6.00	18.00	4,500
30.300	6.00	18.00	4,500
30.400	6.00	18.00	4,500
30.500	6.00	18.00	4,500
30.600	6.00	18.00	4,500
30.700	6.00	18.00	4,500
30.800	6.00	18.00	4,500
30.900	6.00	18.00	4,500
31.000	6.00	18.00	4,500
31.100	6.00	18.00	4,500
31.200	6.00	18.00	4,500
31.300	6.00	18.00	4,500
31.400	6.00	18.00	4,500
31.500	6.00	18.00	4,500
31.600	6.00	18.00	4,500
31.700	6.00	18.00	4,500
31.800	6.00	18.00	4,500
31.900	6.00	18.00	4,500
32.000	6.00	18.00	4,500
32.100	6.00	18.00	4,500
32.200	6.00	18.00	4,500
32.300	6.00	18.00	4,500
32.400	6.00	18.00	4,500
32.500	6.00	18.00	4,500
32.600	6.00	18.00	4,500
32.700	6.00	18.00	4,500
32.800	6.00	18.00	4,500
32.900	6.00	18.00	4,500
33.000	6.00	18.00	4,500
33.100	6.00	18.00	4,600
33.200	6.00	18.00	4,600
33.300	6.00	18.00	4,600
33.400	6.00	18.00	4,600
33.500	6.00	18.00	4,600
33.600	6.00	18.00	4,600
33.700	6.00	18.00	4,600
33.800	6.00	18.00	4,600
33.900	6.00	18.00	4,600
34.000	6.50	19.00	4,700
34.100	6.50	19.00	4,700
34.200	6.50	19.00	4,700
34.300	6.50	19.00	4,700
34.400	6.50	19.00	4,700
34.500	6.50	19.00	4,700
34.600	6.50	19.00	4,700

d1 直徑	b 厚度	l1 長度	
mm	mm	mm	價格
34.700	6.50	19.00	4,700
34.800	6.50	19.00	4,700
34.900	6.50	19.00	4,700
35.000	6.50	19.00	4,700
35.100	6.50	19.00	4,700
35.200	6.50	19.00	4,700
35.300	6.50	19.00	4,700
35.400	6.50	19.00	4,700
35.500	6.50	19.00	4,700
35.600	6.50	19.00	4,700
35.700	6.50	19.00	4,700
35.800	6.50	19.00	4,700
35.900	6.50	19.00	4,700
36.000	6.50	19.00	4,700
36.100	6.50	19.00	4,700
36.200	6.50	19.00	4,700
36.300	6.50	19.00	4,700
36.400	6.50	19.00	4,700
36.500	6.50	19.00	4,700
36.600	6.50	19.00	4,700
36.700	6.50	19.00	4,700
36.800	6.50	19.00	4,700
36.900	6.50	19.00	4,700
37.000	6.50	19.00	4,700
37.100	6.50	19.00	4,700
37.200	6.50	19.00	4,700
37.300	6.50	19.00	4,700
37.400	6.50	19.00	4,700
37.500	6.50	19.00	4,700
37.600	6.50	19.00	4,700
37.700	6.50	19.00	4,700
37.800	6.50	19.00	4,700
37.900	6.50	19.00	4,700
38.000	7.00	20.00	4,700
38.100	7.00	20.00	4,700
38.200	7.00	20.00	4,700
38.300	7.00	20.00	4,700
38.400	7.00	20.00	4,700
38.500	7.00	20.00	4,700
38.600	7.00	20.00	4,700
38.700	7.00	20.00	4,700
38.800	7.00	20.00	4,700
38.900	7.00	20.00	4,700
39.000	7.00	20.00	4,700
39.100	7.00	20.00	4,700
39.200	7.00	20.00	4,700
39.300	7.00	20.00	4,700
39.400	7.00	20.00	4,700
39.500	7.00	20.00	4,700
39.600	7.00	20.00	4,700
39.700	7.00	20.00	4,700
39.800	7.00	20.00	4,700
39.900	7.00	20.00	4,700
40.000	7.00	20.00	4,700
40.100	4.00	15.00	
40.200	4.00	15.00	
40.300	4.00	15.00	
40.400	4.00	15.00	
40.500	4.00	15.00	
40.600	4.00	15.00	
40.700	4.00	15.00	
40.800	4.00	15.00	
40.900	4.00	15.00	
41.000	4.00	15.00	
41.100	4.00	15.00	
41.200	4.00	15.00	
41.300	4.00	15.00	
41.400	4.00	15.00	
41.500	4.00	15.00	
41.600	4.00	15.00	
41.700	4.00	15.00	
41.800	4.00	15.00	

d1 直徑	b 厚度	l1 長度	
mm	mm	mm	
41.900	4.00	15.00	
42.000	4.00	15.00	
42.100	4.00	15.00	
42.200	4.00	15.00	
42.300	4.00	15.00	
42.400	4.00	15.00	
42.500	4.00	15.00	
42.600	4.00	15.00	
42.700	4.00	15.00	
42.800	4.00	15.00	
42.900	4.00	15.00	
43.000	4.00	15.00	
43.100	4.00	15.00	
43.200	4.00	15.00	
43.300	4.00	15.00	
43.400	4.00	15.00	
43.500	4.00	15.00	
43.600	4.00	15.00	
43.700	4.00	15.00	
43.800	4.00	15.00	
43.900	4.00	15.00	
44.000	5.00	16.00	
44.100	5.00	16.00	
44.200	5.00	16.00	
44.300	5.00	16.00	
44.400	5.00	16.00	
44.500	5.00	16.00	
44.600	5.00	16.00	
44.700	5.00	16.00	
44.800	5.00	16.00	
44.900	5.00	16.00	
45.000	5.00	16.00	
45.100	5.00	16.00	
45.200	5.00	16.00	
45.300	5.00	16.00	
45.400	5.00	16.00	
45.500	5.00	16.00	
45.600	5.00	16.00	
45.700	5.00	16.00	
45.800	5.00	16.00	
45.900	5.00	16.00	
46.000	5.00	16.00	
46.100	5.00	16.00	
46.200	5.00	16.00	
46.300	5.00	16.00	
46.400	5.00	16.00	
46.500	5.00	16.00	
46.600	5.00	16.00	
46.700	5.00	16.00	
46.800	5.00	16.00	
46.900	5.00	16.00	
47.000	5.00	16.00	
47.100	5.00	16.00	
47.200	5.00	16.00	
47.300	5.00	16.00	
47.400	5.00	16.00	
47.500	5.00	16.00	
47.600	5.00	16.00	
47.700	5.00	16.00	
47.800	5.00	16.00	
47.900	5.00	16.00	
48.000	6.00	18.00	
48.100	6.00	18.00	
48.200	6.00	18.00	
48.300	6.00	18.00	
48.400	6.00	18.00	
48.500	6.00	18.00	
48.600	6.00	18.00	
48.700	6.00	18.00	
48.800	6.00	18.00	
48.900	6.00	18.00	
49.000	6.00	18.00	

d1 直徑	b 厚度	l1 長度	
mm	mm	mm	
49.100	6.00	18.00	
49.200	6.00	18.00	
49.300	6.00	18.00	
49.400	6.00	18.00	
49.500	6.00	18.00	
49.600	6.00	18.00	
49.700	6.00	18.00	
49.800	6.00	18.00	
49.900	6.00	18.00	
50.000	6.00	18.00	
50.100	6.00	18.00	
50.200	6.00	18.00	
50.300	6.00	18.00	
50.400	6.00	18.00	
50.500	6.00	18.00	
50.600	6.00	18.00	
50.700	6.00	18.00	
50.800	6.00	18.00	

d1 直徑	b 厚度	l1 長度	
mm	mm	mm	
50.900	6.00	18.00	
51.000	6.00	18.00	
51.100	6.00	18.00	
51.200	6.00	18.00	
51.300	6.00	18.00	
51.400	6.00	18.00	
51.500	6.00	18.00	
51.600	6.00	18.00	
51.700	6.00	18.00	
51.800	6.00	18.00	
51.900	6.00	18.00	
52.000	6.00	18.00	

※40mm 以上 ~ 52mm 依需求再行報價



5702

- P** ● Signum Y coating 適用材質
M ● 鑄鐵 / HRC 50度高硬度鋼 / 高速鋼 / 彈簧鋼
K ● 詳細尺寸請參考 #5029
N ○
S ●
H ○



5704

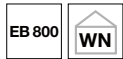
- P** ● Fire Coating 適用材質
M ○ 合金鋼 / 表面滲氮與調質硬化處理鋼材 / 工具鋼 推薦使用
K ● 詳細尺寸請參考 #5029
N ○
S ○
H ○



5706

- P** ○ Nano A Coating 適用材質
M ● 不鏽鋼 / 鈦合金 / 鎳基合金等難切削材料 推薦使用
K ○ 詳細尺寸請參考 #5029
N ○
S ●
H ○

Guide pads for single-fluted gun drills EB 800



Tool material **Solid carbide**
Surface **S**

- P** ● interchangeable guide pad • observe tightening torques • order torque wrench set art. no. 4966 separately
- M** ○
- K** ○ • 導引塊，雙頭使用
- N** ● • 確實使用扭力扳手與扭力要求鎖固
- S** ○ • 扭力扳手 # 4966，需額外訂購
- H** ○

GÜHRING NAVIGATOR

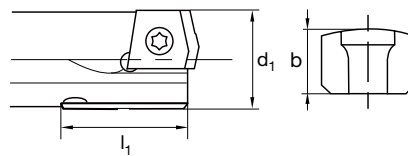
Cutting data page 20
切削參數 頁數：20

推薦使用材質如下：

構造用鋼/ 易削鋼/ 碳鋼

鋁合金/ 鎂合金/ 紅銅/ 黃銅/ 青銅

塑膠/ 玻璃纖維/ 碳纖維/ 杜邦克維拉纖維



編號 **5030**

d1 直徑 mm	b 厚度 mm	l1 長度 mm	Code no.	價格	d1 直徑 mm	b 厚度 mm	l1 長度 mm	Code no.	價格
12.000	2.15	19.95	12.000	1,400	16.200	2.95	20.00	16.200	2,300
12.100	2.20	19.95	12.100	2,200	16.300	3.00	20.00	16.300	2,300
12.200	2.25	19.95	12.200	2,200	16.400	3.05	20.00	16.400	2,300
12.300	2.30	19.95	12.300	2,200	16.500	2.85	20.00	16.500	2,300
12.400	2.35	19.95	12.400	2,200	16.600	2.90	20.00	16.600	2,300
12.500	2.15	19.95	12.500	2,100	16.700	2.95	20.00	16.700	2,300
12.600	2.20	19.95	12.600	2,200	16.800	3.00	20.00	16.800	2,300
12.700	2.25	19.95	12.700	2,200	16.900	3.05	20.00	16.900	2,300
12.800	2.30	19.95	12.800	2,200	17.000	2.85	20.00	17.000	2,300
12.900	2.35	19.95	12.900	2,200	17.100	2.90	20.00	17.100	2,300
13.000	2.15	19.95	13.000	2,100	17.200	2.95	20.00	17.200	2,300
13.100	2.20	19.95	13.100	2,200	17.300	3.00	20.00	17.300	2,300
13.200	2.25	19.95	13.200	2,200	17.400	3.05	20.00	17.400	2,300
13.300	2.30	19.95	13.300	2,200	17.500	2.85	20.00	17.500	2,300
13.400	2.35	19.95	13.400	2,200	17.600	2.90	20.00	17.600	2,300
13.500	2.15	19.95	13.500	2,100	17.700	2.95	20.00	17.700	2,300
13.600	2.20	19.95	13.600	2,200	17.800	3.00	20.00	17.800	2,300
13.700	2.25	19.95	13.700	2,200	17.900	3.05	20.00	17.900	2,300
13.800	2.30	19.95	13.800	2,200	18.000	2.85	20.00	18.000	2,300
13.900	2.35	19.95	13.900	2,200	18.100	2.90	20.00	18.100	2,300
14.000	2.15	19.95	14.000	2,100	18.200	2.95	20.00	18.200	2,300
14.100	2.20	19.95	14.100	2,200	18.300	3.00	20.00	18.300	2,300
14.200	2.25	19.95	14.200	2,200	18.400	3.05	20.00	18.400	2,300
14.300	2.30	19.95	14.300	2,200	18.500	2.85	20.00	18.500	2,300
14.400	2.35	19.95	14.400	2,200	18.600	2.90	20.00	18.600	2,300
14.500	2.15	19.95	14.500	2,100	18.700	2.95	20.00	18.700	2,300
14.600	2.20	19.95	14.600	2,200	18.800	3.00	20.00	18.800	2,300
14.700	2.25	19.95	14.700	2,200	18.900	3.05	20.00	18.900	2,300
14.800	2.30	19.95	14.800	2,200	19.000	2.85	20.00	19.000	2,300
14.900	2.35	19.95	14.900	2,200	19.050	2.87	20.00	19.050	2,300
15.000	2.15	19.95	15.000	2,100	19.100	2.90	20.00	19.100	2,300
15.100	2.20	19.95	15.100	2,200	19.200	2.95	20.00	19.200	2,300
15.200	2.25	19.95	15.200	2,200	19.300	3.00	20.00	19.300	2,300
15.300	2.30	19.95	15.300	2,200	19.400	3.05	20.00	19.400	2,300
15.400	2.35	19.95	15.400	2,200	19.500	2.85	20.00	19.500	2,300
15.500	2.15	19.95	15.500	2,100	19.600	2.90	20.00	19.600	2,300
15.600	2.20	19.95	15.600	2,200	19.700	2.95	20.00	19.700	2,300
15.700	2.25	19.95	15.700	2,200	19.800	3.00	20.00	19.800	2,300
15.800	2.30	19.95	15.800	2,200	19.900	3.05	20.00	19.900	2,300
15.900	2.35	19.95	15.900	2,200	20.000	3.35	25.00	20.000	2,600
16.000	2.85	20.00	16.000	2,200	20.100	3.40	25.00	20.100	2,600
16.100	2.90	20.00	16.100	2,300	20.200	3.45	25.00	20.200	2,600

d1 直徑	b 厚度	l1 長度	Code no.	價格
mm	mm	mm		
20.300	3.50	25.00	20.300	2,600
20.400	3.55	25.00	20.400	2,600
20.500	3.35	25.00	20.500	2,600
20.600	3.40	25.00	20.600	2,600
20.700	3.45	25.00	20.700	2,600
20.800	3.50	25.00	20.800	2,600
20.900	3.55	25.00	20.900	2,600
21.000	3.35	25.00	21.000	2,600
21.100	3.40	25.00	21.100	2,600
21.200	3.45	25.00	21.200	2,600
21.300	3.50	25.00	21.300	2,600
21.400	3.55	25.00	21.400	2,600
21.500	3.35	25.00	21.500	2,600
21.600	3.40	25.00	21.600	2,600
21.700	3.45	25.00	21.700	2,600
21.800	3.50	25.00	21.800	2,600
21.900	3.55	25.00	21.900	2,600
22.000	3.35	25.00	22.000	2,600
22.100	3.40	25.00	22.100	2,600
22.200	3.45	25.00	22.200	2,600
22.300	3.50	25.00	22.300	2,600
22.400	3.55	25.00	22.400	2,600
22.500	3.35	25.00	22.500	2,600
22.600	3.40	25.00	22.600	2,600
22.700	3.45	25.00	22.700	2,600
22.800	3.50	25.00	22.800	2,600
22.900	3.55	25.00	22.900	2,600
23.000	3.35	25.00	23.000	2,600
23.100	3.40	25.00	23.100	2,600
23.200	3.45	25.00	23.200	2,600
23.300	3.50	25.00	23.300	2,600
23.400	3.55	25.00	23.400	2,600
23.500	3.35	25.00	23.500	2,600
23.600	3.40	25.00	23.600	2,600
23.700	3.45	25.00	23.700	2,600
23.800	3.50	25.00	23.800	2,600
23.900	3.55	25.00	23.900	2,600
24.000	3.35	25.00	24.000	2,600
24.100	3.40	25.00	24.100	2,600
24.200	3.45	25.00	24.200	2,600
24.300	3.50	25.00	24.300	2,600
24.400	3.55	25.00	24.400	2,600
24.500	3.35	25.00	24.500	2,600
24.600	3.40	25.00	24.600	2,600
24.700	3.45	25.00	24.700	2,600
24.800	3.50	25.00	24.800	2,600
24.900	3.55	25.00	24.900	2,600
25.000	3.35	25.00	25.000	2,600
25.100	3.40	25.00	25.100	2,600
25.200	3.45	25.00	25.200	2,600
25.300	3.50	25.00	25.300	2,600
25.400	3.55	25.00	25.400	2,600
25.500	3.35	25.00	25.500	2,600
25.600	3.40	25.00	25.600	2,600
25.700	3.45	25.00	25.700	2,600
25.800	3.50	25.00	25.800	2,600
25.900	3.55	25.00	25.900	2,600
26.000	3.85	25.00	26.000	2,600
26.100	3.90	25.00	26.100	2,900
26.200	3.95	25.00	26.200	2,900
26.300	4.00	25.00	26.300	2,900
26.400	4.05	25.00	26.400	2,900
26.500	3.85	25.00	26.500	2,900
26.600	3.90	25.00	26.600	2,900
26.700	3.95	25.00	26.700	2,900
26.800	4.00	25.00	26.800	2,900
26.900	4.05	25.00	26.900	2,900
27.000	3.85	25.00	27.000	2,900
27.100	3.90	25.00	27.100	2,900
27.200	3.95	25.00	27.200	2,900
27.300	4.00	25.00	27.300	2,900
27.400	4.05	25.00	27.400	2,900

d1 直徑	b 厚度	l1 長度	Code no.	價格
mm	mm	mm		
27.500	3.85	25.00	27.500	2,900
27.600	3.90	25.00	27.600	2,900
27.700	3.95	25.00	27.700	2,900
27.800	4.00	25.00	27.800	2,900
27.900	4.05	25.00	27.900	2,900
28.000	3.85	25.00	28.000	2,900
28.100	3.90	25.00	28.100	2,900
28.200	3.95	25.00	28.200	2,900
28.300	4.00	25.00	28.300	2,900
28.400	4.05	25.00	28.400	2,900
28.500	3.85	25.00	28.500	2,900
28.600	3.90	25.00	28.600	2,900
28.700	3.95	25.00	28.700	2,900
28.800	4.00	25.00	28.800	2,900
28.900	4.05	25.00	28.900	2,900
29.000	3.85	25.00	29.000	2,900
29.100	3.90	25.00	29.100	2,900
29.200	3.95	25.00	29.200	2,900
29.300	4.00	25.00	29.300	2,900
29.400	4.05	25.00	29.400	2,900
29.500	3.85	25.00	29.500	2,900
29.600	3.90	25.00	29.600	2,900
29.700	3.95	25.00	29.700	2,900
29.800	4.00	25.00	29.800	2,900
29.900	4.05	25.00	29.900	2,900
30.000	4.35	30.00	30.000	3,100
30.100	4.40	30.00	30.100	3,200
30.200	4.45	30.00	30.200	3,200
30.300	4.50	30.00	30.300	3,200
30.400	4.55	30.00	30.400	3,200
30.500	4.35	30.00	30.500	3,200
30.600	4.40	30.00	30.600	3,200
30.700	4.45	30.00	30.700	3,200
30.800	4.50	30.00	30.800	3,200
30.900	4.55	30.00	30.900	3,200
31.000	4.35	30.00	31.000	3,200
31.100	4.40	30.00	31.100	3,200
31.200	4.45	30.00	31.200	3,200
31.300	4.50	30.00	31.300	3,200
31.400	4.55	30.00	31.400	3,200
31.500	4.35	30.00	31.500	3,200
31.600	4.40	30.00	31.600	3,200
31.700	4.45	30.00	31.700	3,200
31.800	4.50	30.00	31.800	3,200
31.900	4.55	30.00	31.900	3,200
32.000	4.35	30.00	32.000	3,200
32.100	4.40	30.00	32.100	3,200
32.200	4.45	30.00	32.200	3,200
32.300	4.50	30.00	32.300	3,200
32.400	4.55	30.00	32.400	3,200
32.500	4.35	30.00	32.500	3,200
32.600	4.40	30.00	32.600	3,200
32.700	4.45	30.00	32.700	3,200
32.800	4.50	30.00	32.800	3,200
32.900	4.55	30.00	32.900	3,200
33.000	4.35	30.00	33.000	3,200
33.100	4.40	30.00	33.100	3,200
33.200	4.45	30.00	33.200	3,200
33.300	4.50	30.00	33.300	3,200
33.400	4.55	30.00	33.400	3,200
33.500	4.35	30.00	33.500	3,200
33.600	4.40	30.00	33.600	3,200
33.700	4.45	30.00	33.700	3,200
33.800	4.50	30.00	33.800	3,200
33.900	4.55	30.00	33.900	3,200
34.000	4.85	30.00	34.000	3,500
34.100	4.90	30.00	34.100	3,500
34.200	4.95	30.00	34.200	3,500
34.300	5.00	30.00	34.300	3,500
34.400	5.05	30.00	34.400	3,500
34.500	4.85	30.00	34.500	3,500
34.600	4.90	30.00	34.600	3,500

d1 直徑	b 厚度	l1 長度	Code no.	價格
mm	mm	mm		
34.700	4.95	30.00	34.700	3,500
34.800	5.00	30.00	34.800	3,500
34.900	5.05	30.00	34.900	3,500
35.000	4.85	30.00	35.000	3,500
35.100	4.90	30.00	35.100	3,500
35.200	4.95	30.00	35.200	3,500
35.300	5.00	30.00	35.300	3,500
35.400	5.05	30.00	35.400	3,500
35.500	4.85	30.00	35.500	3,500
35.600	4.90	30.00	35.600	3,500
35.700	4.95	30.00	35.700	3,500
35.800	5.00	30.00	35.800	3,500
35.900	5.05	30.00	35.900	3,500
36.000	4.85	30.00	36.000	3,500
36.100	4.90	30.00	36.100	3,500
36.200	4.95	30.00	36.200	3,500
36.300	5.00	30.00	36.300	3,500
36.400	5.05	30.00	36.400	3,500
36.500	4.85	30.00	36.500	3,500
36.600	4.90	30.00	36.600	3,500
36.700	4.95	30.00	36.700	3,500
36.800	5.00	30.00	36.800	3,500
36.900	5.05	30.00	36.900	3,500
37.000	4.85	30.00	37.000	3,500
37.100	4.90	30.00	37.100	3,600
37.200	4.95	30.00	37.200	3,600
37.300	5.00	30.00	37.300	3,600
37.400	5.05	30.00	37.400	3,600
37.500	4.85	30.00	37.500	3,600
37.600	4.90	30.00	37.600	3,600
37.700	4.95	30.00	37.700	3,600
37.800	5.00	30.00	37.800	3,600
37.900	5.05	30.00	37.900	3,600
38.000	5.35	30.00	38.000	4,000
38.100	5.40	30.00	38.100	4,000
38.200	5.45	30.00	38.200	4,000
38.300	5.50	30.00	38.300	4,000
38.400	5.55	30.00	38.400	4,000
38.500	5.35	30.00	38.500	4,000
38.600	5.40	30.00	38.600	4,000
38.700	5.45	30.00	38.700	4,000
38.800	5.50	30.00	38.800	4,000
38.900	5.55	30.00	38.900	4,000
39.000	5.35	30.00	39.000	4,000
39.100	5.40	30.00	39.100	4,000
39.200	5.45	30.00	39.200	4,000
39.300	5.50	30.00	39.300	4,000
39.400	5.55	30.00	39.400	4,000
39.500	5.35	30.00	39.500	4,000
39.600	5.40	30.00	39.600	4,000
39.700	5.45	30.00	39.700	4,000
39.800	5.50	30.00	39.800	4,000
39.900	5.55	30.00	39.900	4,000
40.000	5.60	30.00	40.000	4,000
40.100	5.40	30.00	40.100	
40.200	5.45	30.00	40.200	
40.300	5.50	30.00	40.300	
40.400	5.55	30.00	40.400	
40.500	5.35	30.00	40.500	
40.600	5.40	30.00	40.600	
40.700	5.45	30.00	40.700	
40.800	5.50	30.00	40.800	
40.900	5.55	30.00	40.900	
41.000	5.35	30.00	41.000	
41.100	5.40	30.00	41.100	
41.200	5.45	30.00	41.200	
41.300	5.50	30.00	41.300	
41.400	5.55	30.00	41.400	
41.500	5.35	30.00	41.500	
41.600	5.40	30.00	41.600	
41.700	5.45	30.00	41.700	
41.800	5.50	30.00	41.800	

d1 直徑	b 厚度	l1 長度	Code no.	價格
mm	mm	mm		
41.900	5.55	30.00	41.900	
42.000	5.35	30.00	42.000	
42.100	5.40	30.00	42.100	
42.200	5.45	30.00	42.200	
42.300	5.50	30.00	42.300	
42.400	5.55	30.00	42.400	
42.500	5.35	30.00	42.500	
42.600	5.40	30.00	42.600	
42.700	5.45	30.00	42.700	
42.800	5.50	30.00	42.800	
42.900	5.55	30.00	42.900	
43.000	5.35	30.00	43.000	
43.100	5.40	30.00	43.100	
43.200	5.45	30.00	43.200	
43.300	5.50	30.00	43.300	
43.400	5.55	30.00	43.400	
43.500	5.35	30.00	43.500	
43.600	5.40	30.00	43.600	
43.700	5.45	30.00	43.700	
43.800	5.50	30.00	43.800	
43.900	5.55	30.00	43.900	
44.000	5.35	30.00	44.000	
44.100	5.40	30.00	44.100	
44.200	5.45	30.00	44.200	
44.300	5.50	30.00	44.300	
44.400	5.55	30.00	44.400	
44.500	5.35	30.00	44.500	
44.600	5.40	30.00	44.600	
44.700	5.45	30.00	44.700	
44.800	5.50	30.00	44.800	
44.900	5.55	30.00	44.900	
45.000	5.35	30.00	45.000	
45.100	5.40	30.00	45.100	
45.200	5.45	30.00	45.200	
45.300	5.50	30.00	45.300	
45.400	5.55	30.00	45.400	
45.500	5.35	30.00	45.500	
45.600	5.40	30.00	45.600	
45.700	5.45	30.00	45.700	
45.800	5.50	30.00	45.800	
45.900	5.55	30.00	45.900	
46.000	5.35	30.00	46.000	
46.100	5.40	30.00	46.100	
46.200	5.45	30.00	46.200	
46.300	5.50	30.00	46.300	
46.400	5.55	30.00	46.400	
46.500	5.35	30.00	46.500	
46.600	5.40	30.00	46.600	
46.700	5.45	30.00	46.700	
46.800	5.50	30.00	46.800	
46.900	5.55	30.00	46.900	
47.000	5.35	30.00	47.000	
47.100	5.40	30.00	47.100	
47.200	5.45	30.00	47.200	
47.300	5.50	30.00	47.300	
47.400	5.55	30.00	47.400	
47.500	5.35	30.00	47.500	
47.600	5.40	30.00	47.600	
47.700	5.45	30.00	47.700	
47.800	5.50	30.00	47.800	
47.900	5.55	30.00	47.900	
48.000	5.35	30.00	48.000	
48.100	5.40	30.00	48.100	
48.200	5.45	30.00	48.200	
48.300	5.50	30.00	48.300	
48.400	5.55	30.00	48.400	
48.500	5.35	30.00	48.500	
48.600	5.40	30.00	48.600	
48.700	5.45	30.00	48.700	
48.800	5.50	30.00	48.800	
48.900	5.55	30.00	48.900	
49.000	5.35	30.00	49.000	

d1 直徑	b 厚度	l1 長度	Code no.	價格
mm	mm	mm		
49.100	5.40	30.00	49.100	
49.200	5.45	30.00	49.200	
49.300	5.50	30.00	49.300	
49.400	5.55	30.00	49.400	
49.500	5.35	30.00	49.500	
49.600	5.40	30.00	49.600	
49.700	5.45	30.00	49.700	
49.800	5.50	30.00	49.800	
49.900	5.55	30.00	49.900	
50.000	5.35	30.00	50.000	
50.100	5.40	30.00	50.100	
50.200	5.45	30.00	50.200	
50.300	5.50	30.00	50.300	
50.400	5.55	30.00	50.400	
50.500	5.35	30.00	50.500	
50.600	5.40	30.00	50.600	
50.700	5.45	30.00	50.700	
50.800	5.50	30.00	50.800	

d1 直徑	b 厚度	l1 長度	Code no.	價格
mm	mm	mm		
50.900	5.55	30.00	50.900	
51.000	5.35	30.00	51.000	
51.100	5.40	30.00	51.100	
51.200	5.45	30.00	51.200	
51.300	5.50	30.00	51.300	
51.400	5.55	30.00	51.400	
51.500	5.35	30.00	51.500	
51.600	5.40	30.00	51.600	
51.700	5.45	30.00	51.700	
51.800	5.50	30.00	51.800	
51.900	5.55	30.00	51.900	
52.000	5.60	30.00	52.000	

※40mm 以上 ~ 52mm 依需求再行報價



鑄鐵 / HRC 50度高硬度鋼 / 高速鋼 / 彈簧鋼 推薦使用
詳細尺寸請參考 #5030



合金鋼 / 表面滲氮與調質硬化處理鋼材 / 工具鋼 推薦使用
詳細尺寸請參考 #5030



不鏽鋼 / 鈦合金 / 鎳基合金等難切削材料 推薦使用
詳細尺寸請參考 #5030

Inner inserts for single-fluted gun drills EB 800 大尺寸用 內側雙頭刀片



Tool material **Solid carbide**
Surface **S**

- P** ● indexable insert with 2 cutting edges • observe tightening torques • order torque wrench set art. no. 4966 separately
- M** ○
- K** ○ • 刀片雙頭皆可使用
- N** ● • 確實使用扭力扳手與扭力要求鎖固
- S** ○ • 扭力扳手 # 4966需額外採購
- H** ○

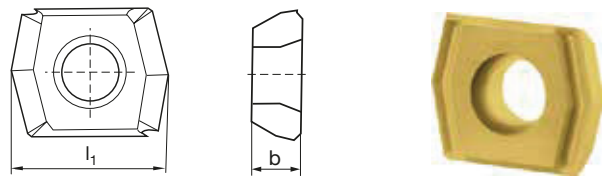


GUHRING NAVIGATOR

Cutting data page 20
切削參數 頁數：20

推薦使用材質如下：

- 構造用鋼 / 易削鋼 / 碳鋼
- 鋁合金 / 鎂合金 / 紅銅 / 黃銅 / 青銅
- 塑膠 / 玻璃纖維 / 碳纖維 / 杜邦克維拉纖維



編號 **5665**

Ø-range 直徑範圍	b 厚度 mm	l1 長度 mm	Code no.	價格
40,001 - 52,000	4.763	15.000	1.000	2,100

Inner inserts for single-fluted gun drills EB 800 大尺寸用 內側雙頭刀片



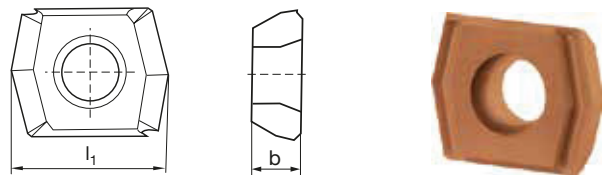
Tool material **Solid carbide**
Surface **Y**

- P** ● indexable insert with 2 cutting edges • observe tightening torques • order torque wrench set art. no. 4966 separately
- M** ●
- K** ● • 刀片雙頭皆可使用
- N** ● • 確實使用扭力扳手與扭力要求鎖固
- S** ● • 扭力扳手 # 4966需額外採購
- H** ○



GUHRING NAVIGATOR

Cutting data page 21
切削參數 頁數：21



編號 **5667**

Ø-range 直徑範圍	b 厚度 mm	l1 長度 mm	Code no.	價格
40,001 - 52,000	4.763	15.000	1.000	2,100

鑄鐵 / HRC 50度高硬度鋼 / 高速鋼 / 彈簧鋼 推薦使用

Inner inserts for single-fluted gun drills EB 800 大尺寸用 內側雙頭刀片



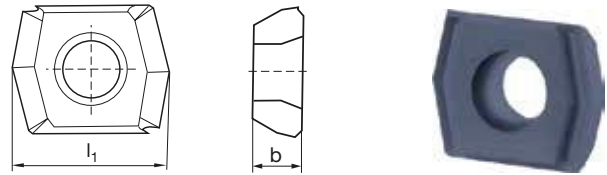
Tool material **Solid carbide**
Surface **F**

- P** ● indexable insert with 2 cutting edges • observe tightening torques
• order torque wrench set art. no. 4966 separately
- M** ○
- K** ● • 刀片雙頭皆可使用
- N** ○ • 確實使用扭力扳手與扭力要求鎖固
- S** ○ • 扭力扳手 # 4966需額外採購
- H** ○



GÜHRING NAVIGATOR

Cutting data page 20
切削參數 頁數：20



編號 **5666**

Ø-range 直徑範圍	b 厚度 mm	l1 長度 mm	Code no.	價格
40,001 - 52,000	4.763	15.000	1.000	2,100

合金鋼 / 表面滲氮與調質硬化處理鋼材 / 工具鋼 推薦使用

Inner inserts for single-fluted gun drills EB 800 大尺寸用 內側雙頭刀片



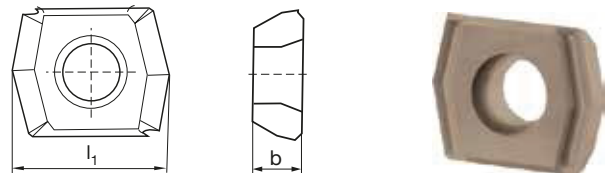
Tool material **Solid carbide**
Surface **a**

- P** ○ indexable insert with 2 cutting edges • observe tightening torques
• order torque wrench set art. no. 4966 separately
- M** ●
- K** ○ • 刀片雙頭皆可使用
- N** ○ • 確實使用扭力扳手與扭力要求鎖固
- S** ● • 扭力扳手 # 4966需額外採購
- H** ○



GÜHRING NAVIGATOR

Cutting data page 21
切削參數 頁數：21



編號 **5668**

Ø-range 直徑範圍	b 厚度 mm	l1 長度 mm	Code no.	價格
40,001 - 52,000	4.763	15.000	1.000	2,100

不鏽鋼 / 鈦合金 / 鎳基合金等難切削材料 推薦使用

GÜHRING NAVIGATOR

To select the optimal tool and the recommended machining parameters for your application, please use the electronic version of the GühringNavigator on the internet: www.guehring.com.

為您的加工應用選擇最佳的刀具和推薦的加工參數，請使用網上的GühringNavigator電子版：www.guehring.com。

注意事項：

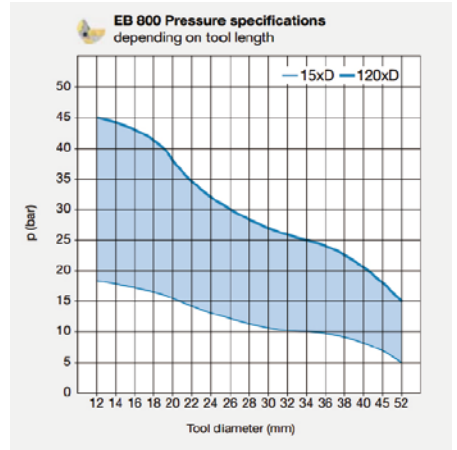
- 1、刀具的進給速度與推薦的鍍層有關，在某些情況下無法保證無鍍層之槍鑽能成功應用。
- 2、所有的深孔鑽必須有導向孔的支撐，沒有支撐的深孔鑽絕對不能全速運轉。

Drill Ø mm	Feed column no.									
	20	19	18	17	16	15	14	13	12	11
	f (mm/rev.)									
1.0	0.050	0.030	0.022	0.015	0.010	0.006	0.004	0.003	0.002	0.001
1.5	0.075	0.050	0.045	0.032	0.020	0.012	0.008	0.006	0.004	0.002
2.0	0.100	0.060	0.055	0.046	0.028	0.016	0.010	0.007	0.005	0.003
2.5	0.125	0.075	0.070	0.054	0.030	0.018	0.012	0.008	0.006	0.004
4.0	0.240	0.120	0.085	0.065	0.043	0.025	0.016	0.010	0.007	0.005
6.0	0.360	0.180	0.120	0.085	0.061	0.035	0.024	0.013	0.009	0.007
8.0	0.480	0.240	0.150	0.100	0.068	0.045	0.032	0.022	0.014	0.010
10.0	0.600	0.300	0.160	0.120	0.075	0.055	0.040	0.028	0.016	0.012
14.0	0.700	0.350	0.180	0.130	0.085	0.065	0.050	0.035	0.025	0.020
20.0	0.800	0.400	0.250	0.180	0.110	0.080	0.060	0.045	0.035	0.026
24.0	0.900	0.450	0.300	0.185	0.130	0.085	0.065	0.047	0.036	0.027
30.0	1.050	0.500	0.400	0.200	0.150	0.100	0.070	0.050	0.040	0.030
35.0	1.100	0.600	0.450	0.250	0.180	0.120	0.075	0.055	0.045	0.035
40.0	1.200	0.700	0.500	0.300	0.200	0.150	0.080	0.060	0.050	0.040
52.0	1.300	0.800	0.550	0.350	0.230	0.180	0.100	0.070	0.060	0.050

* The feed rates always relate to tools with the recommended coating. In some cases the successful application of un-coated tools cannot be guaranteed.

STOP All deep hole drills must have support for the pilot hole. Deep hole drills must never operate at full speed without support in the machine shop.

Material group	Material examples Figures in bold = material no. to DIN EN	Tens. str. Hardness N/mm²	Coolant	recom. coating*
Common structural steels 一般構造用鋼	1.0035 S185 (St33), 1.0486 P275N (StE285), 1.0345 1.0050 E295 (St50-2), 1.0070 E360 (St70-2), 1.8937	≤500 ≤1000	●○	⑤
Free-cutting steels 易削鋼	1.0718 11SMnPb30 (9SMnPb28), 1.0736 11SMn37 1.0727 46S20 (45S20), 1.0728 (60S20), 1.0757 46SPb2	≤850 ≤1000	●○	⑤
Unalloyed heat-treatable steels 碳鋼	1.0402 C22, 1.1178 C30E (Ck30) 1.0503 C45, 1.1191 C45E (Ck45) 1.0601 C60, 1.1221 C60E (Ck60)	≤700 ≤850 ≤1000	●○	⑤
Alloyed heat-treatable steels 合金鋼	1.5131 50MnSi4, 1.7003 38Cr2, 1.7030 28Cr4 1.5710 36NiCr6, 1.7035 41Cr4, 1.7225 42CrMo4	≤1000 ≤1400	●○	⑤
Unalloyed case hard. steels 低碳鋼 表面硬化	1.0301 (C10), 1.1121 C10E (Ck10)	≤850	●○	⑤
Alloyed case hardened steels 合金鋼 表面硬化	1.7276 10CrMo11, 1.5125 11MnSi6 1.5752 15NiCr13, 1.7131 16MnCr5, 1.7264 20CrMo5	≤1000 ≤1400	●○	⑤
Nitriding steels 氮化鋼	1.8504 34CrAl6 1.8519 31CrMoV9, 1.8550 34CrAlNi7	≤1000 ≤1400	●○	⑤
Tool steels 工具鋼	1.1750 C75W, 1.2067 102Cr6, 1.2307 29CrMoV9 1.2080 X210Cr12, 1.2083 X42Cr13, 1.2419 105WCr6	≤850 ≤1400	●○	⑤
High speed steels 高速鋼	1.3243 S 6-5-2-5, 1.3343 S 6-5-2, 1.3344 S 6-5-3 1.5026 55Si7, 1.7176 55Cr3, 1.8159 51CrV4 (51CrV4)	≤350 HB ≤48 HRC ≤66 HRC	●○	⑤
Hardened steels 高硬度鋼	-	≤48 HRC ≤66 HRC	●○	⑤
Stainless steels, sulphured 不銹鋼	1.4005 X12CrS13, 1.4104 X14CrMoS17, 1.4105 1.4301 X5CrNi18-10 (V2A), 1.4541 X6CrNiTi18-10 1.4057 X20CrNi172 (X17CrNi16-2), 1.4122	≤900 ≤1100 ≤1500	●○	⑤
Cast iron 鑄鐵	0.6010 EN-GJL-100 (GG10), 0.6020 EN-GJL-200 (GG20) 0.6025 EN-GJL-250 (GG25), 0.6035 EN-GJL-350 (GG35)	≤240 HB ≤350 HB	●○	⑤
Spheroidal graphite iron and malleable cast iron 球墨鑄鐵	0.7050 EN-GJS-500-7 (GGG50), 0.8035 0.7070 EN-GJS-700-2 (GGG70), 0.8170 EN-GJMB-700-2	≤240 HB ≤350 HB	●○	⑤
Chilled cast iron 冷鍛鑄鐵	-	≤350 HB	●○	⑤
New cast materials GGV 蠕墨鑄鐵	EN-GJV250 (GGV25), EN-GJV350 (GGV35) EN-GJV400 (GGV40), EN-GJV500 (GGV50), SiMo 6	≤220 HB ≤300 HB	●○	⑤
New cast materials ADI 等溫淬火球墨鑄鐵	EN-GJS-800-8 (ADI800), EN-GJS-1000-5 (ADI1000) EN-GJS-1200-2 (ADI1200), EN-GJS-1400-1 (ADI1400)	≤1000 ≤1400	●○	⑤
Special alloys 特殊合金	Nimonic, Inconel, Monel, Hastelloy 3.7024 Ti99,5, 3.7114 TiAl5Sn2,5, 3.7124 TiCu2 3.7154 TiAl6Zr5, 3.7165 TiAl6V4, 3.7184 TiAl4Mo4Sn2,5	≤2000 ≤850 ≤1400	●○	⑤
Ti and Ti-alloys 鈦及鈦合金	3.0255 Al99,5, 3.2315 AlMgSi1, 3.3515 AlMg1	≤400	●○	⑤
Aluminium and Al-alloys 鋁及鋁合金	3.0615 AlMgSiPb, 3.1325 AlCuMg1, 3.3245 AlMg3Si 3.2131 G-AlSi5Cu1, 3.2153 G-AlSi7Cu3, 3.2573 G-AlSi9 3.2581 G-AlSi12, 3.2583 G-AlSi12Cu, - G-AlSi12CuNiMg	≤650 ≤600 ≤600	●○	⑤
Magnesium alloys 鎂合金	3.5200 MgMn2, 3.5812.05 G-MgAl8Zn1, 3.5612.05	≤400	●○	⑤
Copper, low-alloyed 純銅 紅銅	2.0070 SE-Cu, 2.1020 CuSn6, 2.1096 G-CuSn5ZnPb	≤500	●○	⑤
Brass, short-chipping 黃銅 短屑型	2.0380 CuZn39Pb2, 2.0401 CuZn39Pb3, 2.0410 2.0250 CuZn20, 2.0280 CuZn33, 2.0332 CuZn37Pb0,5	≤600	●○	⑤
Brass, long-chipping 黃銅 長屑型	2.1090 CuSn7ZnPb, 2.1170 CuPb5Sn5, 2.1176 2.0790 CuNi18Zn19Pb	≤600 ≤850	●○	⑤
Bronze, short-chipping 青銅 短屑型	2.0916 CuAl5, 2.0960 CuAl9Mn, 2.1050 CuSn10 2.0980 CuAl11Ni, 2.1247 CuBe2	≤850 ≤1000	●○	⑤
Bronze, long-chipping 青銅 長屑型	2.0916 CuAl5, 2.0960 CuAl9Mn, 2.1050 CuSn10 2.0980 CuAl11Ni, 2.1247 CuBe2	≤850 ≤1000	●○	⑤
Duroplastics 硬質塑膠	Bakelit, Resopal, Pertinax, Moltopren	≤150	●○	⑤
Thermoplastics 熱塑性塑膠	Plexiglas, Hostalen, Novodur, Makralon	≤100	●○	⑤
Kevlar 杜邦 克維拉纖維	Kevlar	≤1000	●○	⑤
Glass, carbon concentr. plastics 玻璃纖維 / 碳纖維	GFK/CFK	≤1000	●○	⑤



EB 800
single-fluted gun drill
with indexable inserts
12.000 ... 52.000



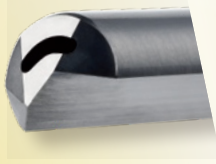
Material dependent coolants:

- air 空氣
- neat oil 純油性
- soluble oil 水溶性

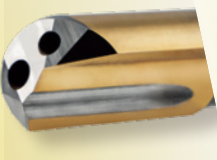
Cutting direction:

- ④ right-hand cutting

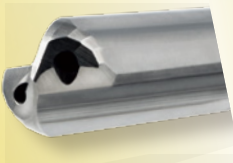
recom. coating*	≤35xD		>35xD	
	Vc m/min	Feed col. no.	Vc m/min	Feed col. no.
⑤	90	15	85	15
⑤	80	15	75	15
⑤	85	16	80	16
⑤	75	16	70	16
⑤	85	15	80	15
⑤	80	15	75	15
⑤	75	15	70	15
⑤	75	15	70	15
⑤	75	15	70	15
⑤	65	15	60	15
⑤	80	15	75	15
⑤	75	15	70	15
⑤	70	15	65	15
⑤	70	15	65	15
⑤	60	15	55	15
⑤	65	14	60	14
⑤	60	14	55	14
⑤	55	14	50	14
⑤	65	15	60	15
⑤	30	13	25	13
⑤	25	12	20	12
⑤	50	14	45	14
⑤	45	14	40	14
⑤	40	14	35	14
⑤	85	16	80	16
⑤	80	16	75	16
⑤	75	16	70	16
⑤	70	16	65	16
⑤	55	15	50	15
⑤	60	14	60	14
⑤	50	14	50	14
⑤	60	14	60	14
⑤	50	14	50	14
⑤	25	13	20	13
⑤	35	13	30	13
⑤	30	12	25	12
⑤	140	16	135	16
⑤	125	16	120	16
⑤	170	17	165	17
⑤	140	17	135	17
⑤	115	16	110	16
⑤	75	15	70	15
⑤	120	17	115	17
⑤	90	17	85	17
⑤	95	17	90	17
⑤	75	17	70	17
⑤	70	17	65	17
⑤	60	17	55	17
⑤	75	16	70	16
⑤	70	16	65	16
⑤	60	15	55	15
⑤	50	15	45	15



EB100 & EB100M
THE SMALLEST AND THE ROBUST



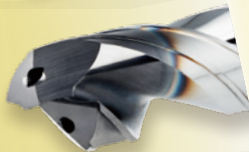
EB80
THE CONVENTIONAL



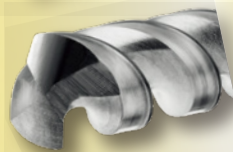
ZB80
THE SPECIALIST FOR CAST IRON



EB800
THE FLEXIBLE



SOLID CARBIDE **SPIRAL-FLUTED**
DEEP HOLE DRILLS



HSS/HSCO **SPIRAL-FLUTED**
DEEP HOLE DRILLS

GÜHRING

台灣鈷領股份有限公司

桃園總公司：(32846)桃園市觀音區忠愛路2段200號
中部辦事處：(40764)台中市西屯區台灣大道四段936號10F之3
南部辦事處：(82054)高雄市岡山區大仁南路140號
Website: www.guhring.com.tw

Tel : +886-3-498-7530 Fax : +886-3-498-7331
Tel : +886-4-2463-3788 Fax : +886-4-2463-0793
Tel : +886-7-622-4855 Fax : +886-7-622-4123
E-mail : info@guhring.com.tw