

水晶纖維油石 Crystal Fiber Stones

Cristone® The Crystal Fiber Stones

Cristone 水晶纖維油石以強韌的水晶陶瓷纖維所製成，強度比一般的纖維油石提高一倍，適合用於去除放電加工後 (EDM) 所產生的粗糙表面，高單位纖維含量以及整齊銳利的水晶纖維端面讓切削速度大幅度提升，使您的工作更有效率。

Cristone stands for Crystal Stone made from using the highest quality, chemically produced crystal fibers. The crystal line structure of the crystal fibers offers high polishing efficiency and incredible bending strength. These are the perfect stones for detail polishing. Extremely strong for tight ribs and slots, excellent for EDM removal.



粒度編號及訂購代號 Grit Size & Order No.

TxWxL (ØDxL)mm		1 x 2 x 100	1 x 4 x 100	1 x 6 x 100	1 x 10 x 100	1 x 13 x 100	Ø3 x 100	Ø2.35 x 100
粒度 Grit Size	顏色 Color	 T W	 T W	 T W	 T W	 T W	 D	 D
#150	Green	JRG-0102100	JRG-0104100	JRG-0106100	JRG-0110100	JRG-0113100	JRG-03100	JRG-0235100
#200	Pink	JRP-0102100	JRP-0104100	JRP-0106100	JRP-0110100	JRP-0113100	JRP-03100	JRP-0235100
#400	Violet	JRV-0102100	JRV-0104100	JRV-0106100	JRV-0110100	JRV-0113100	JRV-03100	JRV-0235100
#600	Orange	JRO-0102100	JRO-0104100	JRO-0106100	JRO-0110100	JRO-0113100	JRO-03100	JRO-0235100
#800	Blue	JRB-0102100	JRB-0104100	JRB-0106100	JRB-0110100	JRB-0113100	JRB-03100	JRB-0235100
#1000	White	JRW-0102100	JRW-0104100	JRW-0106100	JRW-0110100	JRW-0113100	JRW-03100	JRW-0235100



高強度

High Strength

抗折強度 1300MPA

The highest bending strength 1300MPA

高研磨力

High Polishing

研磨速度約提升 2 倍

(500mg 研磨時間縮短 50%，#400 使用實績)

2 times polishing efficiency of Ceramic stones!

(can save 50% in EDM scale removal times)

平滑的切削面

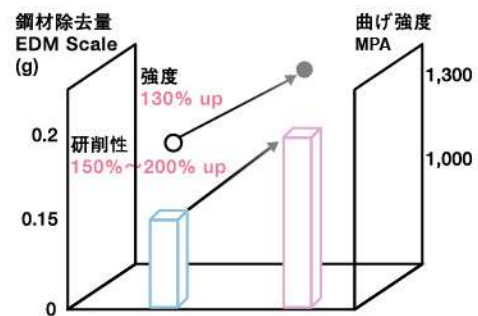
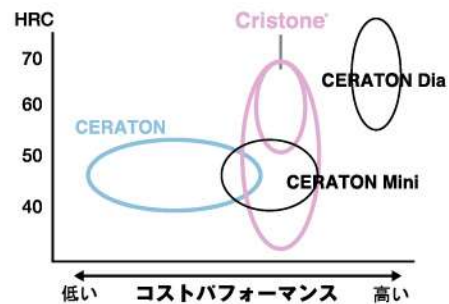
High Surface

纖維構成面平整，研磨效果更佳！

(Ra = 0.4μ 研磨時間縮短 50%，#400 使用實績)

Optimal crystal line structure for polishing

(can save 50% cutting time to reach Ra = 0.4μ)



犀利盾系列纖維油石

水晶系列纖維油石

犀利盾纖維油石

Ceramic Fiber Stones

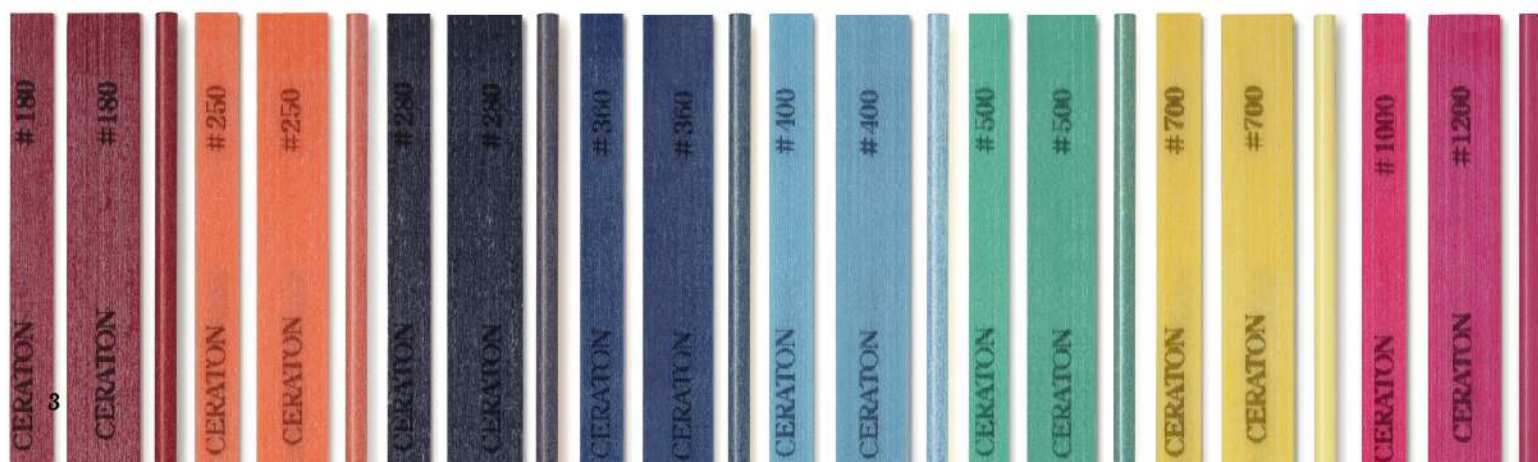
CERATON® The Ceramic Fiber Stones

粒度 Grit Size	用途 Application
#180 #250 #280	模具放電加工後之硬化表層去除及機械切削粗糙刀痕之去除 To remove the rough machining surface or hard EDM scale of tool & die steels.
#360 #400 #500	細緻加工痕跡之去除及一般拋磨 General lapping and removal of the scratches after fine polishing.
#700 #1000 #1200	精細研磨或鏡面處理前之拋光 Fine polishing & finishing.
Ø3.00mm 圓柱 / Round	可搭配刻磨機當成研磨棒使用 (長度勿超過 50mm 長), 亦或將之磨尖用於細緻角落或窄縫處之研磨 It can use as grinding point (max, length 50mm), or by sharpening it for detail lapping.

我們建議將油石端面和工件夾角呈 30°~40° 的方式研磨，以得到最佳的切削性。

In order to reach the best performance, we recommend that the stone should be hold up-right making an angle of approx 30°~40° to the workpiece.

粒度編號及訂購代號 Grit Size & Order No.						
粒度 Grit Size	顏色 Color		1 x 4 x 100	1 x 6 x 100	1 x 10 x 100	Ø2.35 x 100 Ø3 x 100
#180	Brown		CSC1004	CSC1006	CSC1010	CGC235 CGC30
#250	Orange		CSO1004	CSO1006	CSO1010	CGO235 CGO30
#280	Black		CSD1004	CSD1006	CSD1010	CGD235 CGD30
#360	Navy Blue		CSN1004	CSN1006	CSN1010	CGN235 CGN30
#400	Blue		CSB1004	CSB1006	CSB1010	CGB235 CGB30
#500	Green		CSG1004	CSG1006	CSG1010	CGG235 CGG30
#700	Yellow		CSY1004	CSY1006	CSY1010	CGY235 CGY30
#1000	Pink		CSP1004	CSP1006	CSP1010	CGP235 CGP30
#1200	Red		CSR1004	CSR1006	CSR1010	CGR235 CGR30



超級犀利盾纖維油石 Super Ceramic Fiber Stones

SUPER CERATON®

犀利盾纖維油石以強韌的陶瓷纖維結合樹脂所製成，比起傳統油石更具高強度的切削力及切削壽命。手持研磨效果優於傳統油石且纖維油石本身耐高熱、富高彈性及不易塞穴的特性，適合使用於電動超音波研磨機、電動或氣動旋轉工具及氣動銼磨機等各類長時間連續加工機具。

CERATON is made from ceramic fibers bonded in thermosetting resin, exhibits superior strength compared by normal abrasive stones. Long life and no clogging is suitable for all kinds of equipments like ultrasonic machines, high speed rotaries, Air Lappers & Air Grinders and also good by hand polishing.

而超級犀利盾(SUPER CERATON)則提供給您更強勁的切削效率，與犀利盾相比，硬度更高、使用壽命更長，抗折力亦較佳。SUPER CERATON provides more powerful cutting efficiency, higher hardness, longer using life, and stronger bending strength than CERATON.

粒度編號及訂購代號 Grit Size & Order No.					
粒度 Grit Size	顏色 Color		1 x 4 x 100	1 x 6 x 100	1 x 10 x 100
#120	Brown		CUSC1004	CUSC1006	CUSC1010
#220	Orange		CUSO1004	CUSO1006	CUSO1010
#400	Blue		CUSB1004	CUSB1006	CUSB1010
#800	Yellow		CUSY1004	CUSY1006	CUSY1010
#1000	White		CUSW1004	CUSW1006	CUSW1010
#1200	Red		CUSR1004	CUSR1006	CUSR1010



水晶迷你纖維油石

Cristone Mini Crystal Fiber Stones

Cristone® The Mini Crystal Fiber Stones

水晶迷你纖維油石是將纖維油石裁切成 0.3 x 0.3 mm ~ 0.9 x 0.9 mm 等各式微小尺寸，主要用於凹縫、小溝槽等細部研磨。一般傳統油石或紅寶石油石如果裁成相同大小的尺寸時會產生容易斷裂的情形，但水晶迷你纖維油石具高強度的韌性，是用於解決細部加工首選的研磨工具。

Mini Crystal Fiber Stones are cut by crystal fiber stones. Each size from 0.3 x 0.3mm ~ 0.9 x 0.9 mm. Ideal for various molds and dies detail lapping. Traditional oil stone and ruby stone in such a small size are very easy to break, while mini crystal fiber stones provide high strength and high elasticity. Due to its hard to break, they solve the problems of using these stones.

適合於各類模具一般研磨或精加工使用，尤其針對細部雕刻、溝縫、R 角等等...複雜表面的研磨。此外對於小型零件的細部研磨，水晶迷你纖維油石是您完美的選擇。

It is good for all types of molds and dies fine and super fine finishing. Especially for engraving parts, slight ribs, R ribs, corners, complicated areas and details. Besides, all other tool parts that need details lapping. Our Mini crystal fiber stone will be the wonderful tools.



粒度編號及訂購代號 Grit Size & Order No.					
粒度 Grit Size	顏色 Color	0.3 x 0.3 x 100	0.5 x 0.5 x 100	0.7 x 0.7 x 100	0.9 x 0.9 x 100
#150	Green	JR150-0303100	JR150-0505100	JR150-0707100	JR150-0909100
#200	Pink	JR200-0303100	JR200-0505100	JR200-0707100	JR200-0909100
#400	Violet	JR400-0303100	JR400-0505100	JR400-0707100	JR400-0909100
#600	Orange	JR600-0303100	JR600-0505100	JR600-0707100	JR600-0909100
#800	Blue	JR800-0303100	JR800-0505100	JR800-0707100	JR800-0909100
#1000	White	JR1000-0303100	JR1000-0505100	JR1000-0707100	JR1000-0909100
油石夾柄	Holder	XH-005	XH-007	XH-009	XH-013

單一尺寸，粒度最小訂購量 10 支 / 盒 Minimum order 10 pcs / box per grit size

犀利盾迷你纖維油石

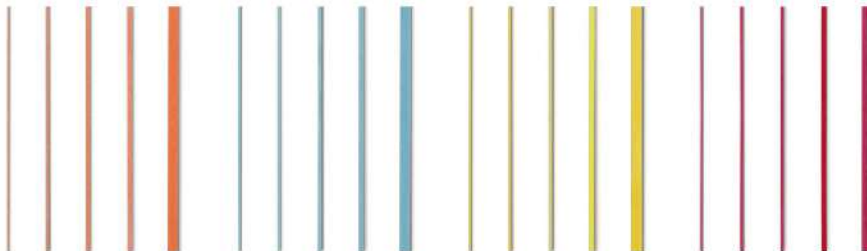
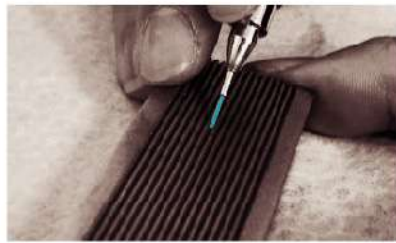
Ceraton Mini Ceramic Fiber Stones

CERATON® The Mini Ceramic Fiber Stones

犀利盾迷你纖維油石是將纖維油石切成細微尺寸，從 0.3 x 0.3 mm ~ 1 x 2 mm。專門使用於各種模具之細微部位或是其它類似之加工，由於陶瓷纖維具有高抗折強度，可解決一般油石易斷之困擾。

犀利盾迷你纖維油石可適用於各種模具之研磨及各種零件之精細拋光，尤其是雕刻部位之加工、微小肋部、模具角部精細拋磨及各種細微或複雜部位之加工。

It is an excellent stone for EDM removal and is suitable for using on all types of molds and dies, fine and super fine finishing. Especially for engraving parts, slight ribs, radius ribs, corners, complicated area and details. Besides, all other tool parts that need detail lapping. Our mini ceramic fiber stone will be the wonderful tools.



粒度編號及訂購代號 Grit Size & Order No.								
粒度 Grit Size	顏色 Color	0.3x0.3x50	0.5x0.5x50	0.7x0.7x50	0.9x0.9x50	1.0x2.0x100	Ø0.9x50	Ø2.0x100
#250	Orange	JMOS-035	JMOS-055	JMOS-075	JMOS-095	JMOS-121	JMOG-105	JMOG-201
#400	Blue	JMBS-035	JMBS-055	JMBS-075	JMBS-095	JMBS-121	JMBG-105	JMBG-201
#700	Yellow	JMYS-035	JMYS-055	JMYS-075	JMYS-095	JMYS-121	JMYG-105	JMYG-201
#1200	Red	JMRS-035	JMRS-055	JMRS-075	JMRS-095	JMRS-121	JMRG-105	JMRG-201
油石夾柄	Holder	XH-005	XH-007	XH-009	XH-013	XH-200	XH-009	XH-200

鑽石纖維油石

Ceramic Diamond Stones

1

一般纖維油石的切削性來自於油石的端面，但鑽石纖維油石的各部位如平面、側邊或先端等皆可以使用。
The ordinary ceramic fiber stone is efficient only to lap its end side or edge, while the ceramic diamond stone works well with any sides.

2

一般傳統油石無法加工如超硬度模具等許多特殊材質的模具，但鑽石纖維油石無此限制。
Hard materials, those are difficult to be ground by ordinary ceramic stone, now the ceramic diamond stone can provide a much better cut.

3

鑽石纖維油石可用於各類加工如：EDM 放電後表面研磨、鎢鋼模具拋光、陶瓷加工研磨及玻璃表面研磨等。
Ceramic diamond stone is suitable for lapping all kinds of harden steels, EDM surface, tungsten carbides, ceramics and glasses efficiently.

CERATON® The Ceramic Diamond Stones

以獨家技術結合陶瓷纖維及鑽石研磨顆粒再搭配強韌的樹脂所製成此款鑽石纖維油石。加入鑽石研磨粉後，除了大幅的提昇纖維油石的切削性外，對於硬度較高的工件更是游刃有餘並同時縮短了加工的時程。

Ceramic diamond stones are made of diamond abrasives and ceramic fibers bonded together with thermosetting resin. The combination of diamond and ceramic fibers create the outstanding cutting performance. Ceramic diamond stone is a perfect lapping tool.



粒度編號及訂購代號 Grit Size & Order No.						
粒度 Grit Size	顏色 Color		1 x 4 x 100	1 x 6 x 100	1 x 10 x 100	Ø3 x 100
#200	Black		CDS1004-200	CDS1006-200	CDS1010-200	CDS30-200
#400	Gray		CDS1004-400	CDS1006-400	CDS1010-400	CDS30-400
#600	Moss Green		CDS1004-600	CDS1006-600	CDS1010-600	CDS30-600
#800	Green		CDS1004-800	CDS1006-800	CDS1010-800	CDS30-800

對於特殊含鐵元素材質的工件，我們另外可提供 CBN 磨料的纖維油石。詳細內容請洽詢本公司。

In some special applications, ceramic CBN stones are also available. Depend on your requests, other sizes and grits are also available, Please ask our salespersons for details.