

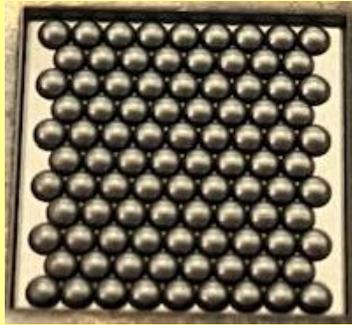
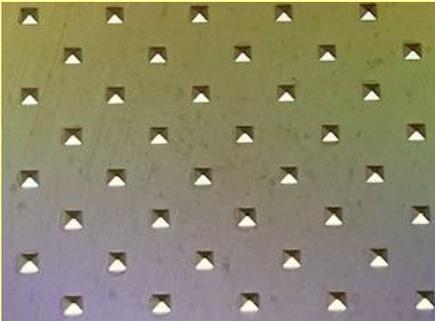
レーザー精密加工 & 精密・微細部品



精密打抜き金型に取り組み半世紀

発色

四角錐 超硬 □0.8×0.2H



φ 1.0 半球 超硬

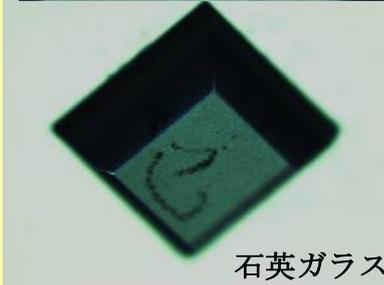
□0.9×0.7凸 高さ0.2 超硬



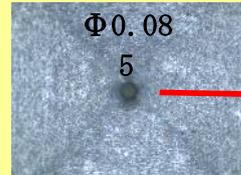
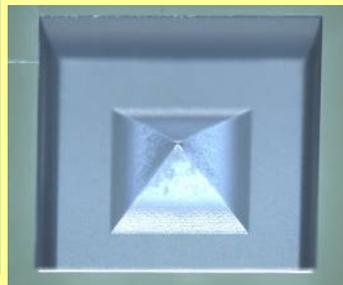
彫刻刃 超硬



□0.9×0.7ザグリ 深さ0.2 超硬



石英ガラス



Φ0.08
5



□4×4四角錐ザグリ 深さ0.5
中央部 φ0.085深0.8 超硬



発色 SUS304



グレースケール SUS430

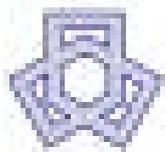
Ra0.5

Ra0.3

粗さ制御 超硬

Ra0.6

Ra1.1



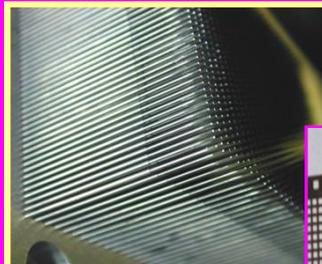
伊藤精工株式会社
(Itoh Seiko Co., Ltd)
担当 長谷川公平
(Kohei Hasegawa)

TEL 075-921-6388

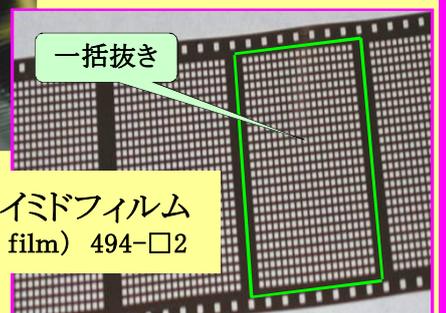
〒601-8203 京都市南区久世築山町378-6

e-mail : production@itoh-seiko.co.jp

URL https://www.itoh-seiko.co.jp



4000穴一括抜き金型



一括抜き

ポリイミドフィルム
(PI film) 494-□2

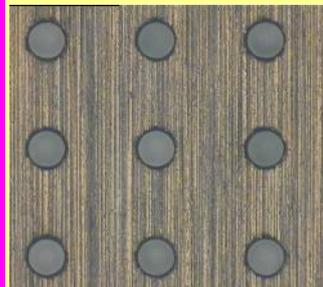
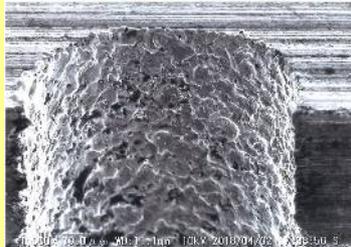
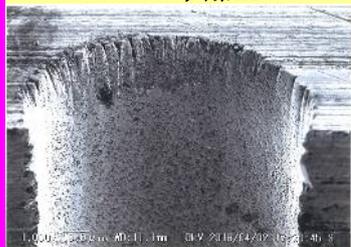
金型

裏面に続く ----->

微細レーザー加工 Fine Laser Machining

レーザー加工

細穴放電加工

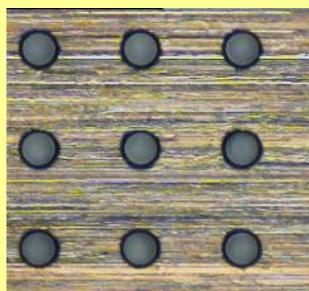
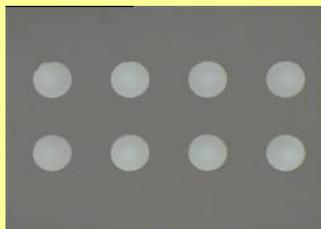


	X軸	Y軸	穴径	真円度
最大値	0.0046	0.0035	0.0856	0.0031
最小値	-0.0014	-0.0038	0.0812	0.0003
平均値	0.0009	-0.0002	0.0833	0.0008

10000-Φ0.08

超硬 (Tungsten Carbide)
厚さ 0.85mm (Thickness)

アルミナ 0.7t
φ125 μm

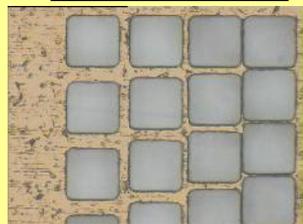


SKD-11

0.85t φ65 μm

SUS304

0.2t φ20 μm



栈幅

40/30/20/10 μm



石英ガラス 0.5t

十字溝 長さ2mm×幅0.1mm

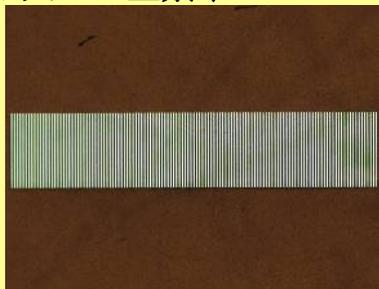
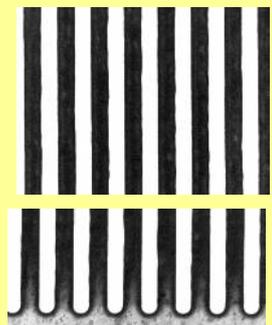
幅:34 μm

ポリイミド 0.125t

20 μm幅 L/S
長さ1mm 127本



←拡大 全景↓

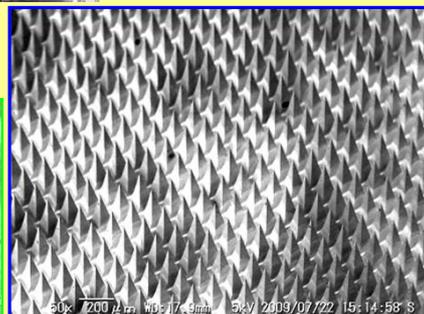
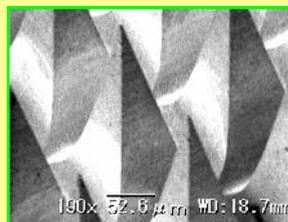


切削

50,000-φ0.04
深さ0.04
(φ0.04 diameter,
0.04 depth) SUS304



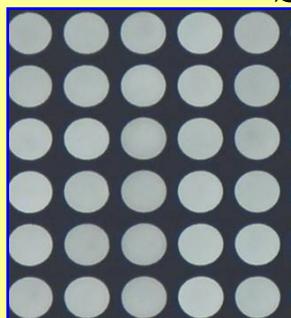
研削



□100 μm 四角錐 高さ=0.3mm

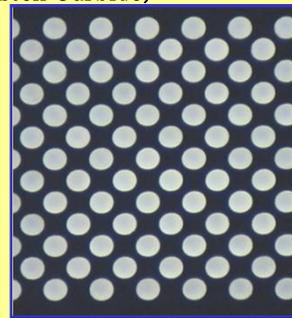
(100 μm sq, 100 μm height pyramid)

超硬 (Tungsten Carbide)



85-φ0.1 SUS430

深さ(depth) = 1.8



85-φ0.05 超硬

深さ(depth) = 0.4

放電



モリブデン (Mo)

0.3t φ30 μm



タングステン (W)

0.5t φ50 μm



SUS430 0.1t

2700-φ0.1

4350-φ0.05

