MINPULS

The best high precision EDM machine from China!

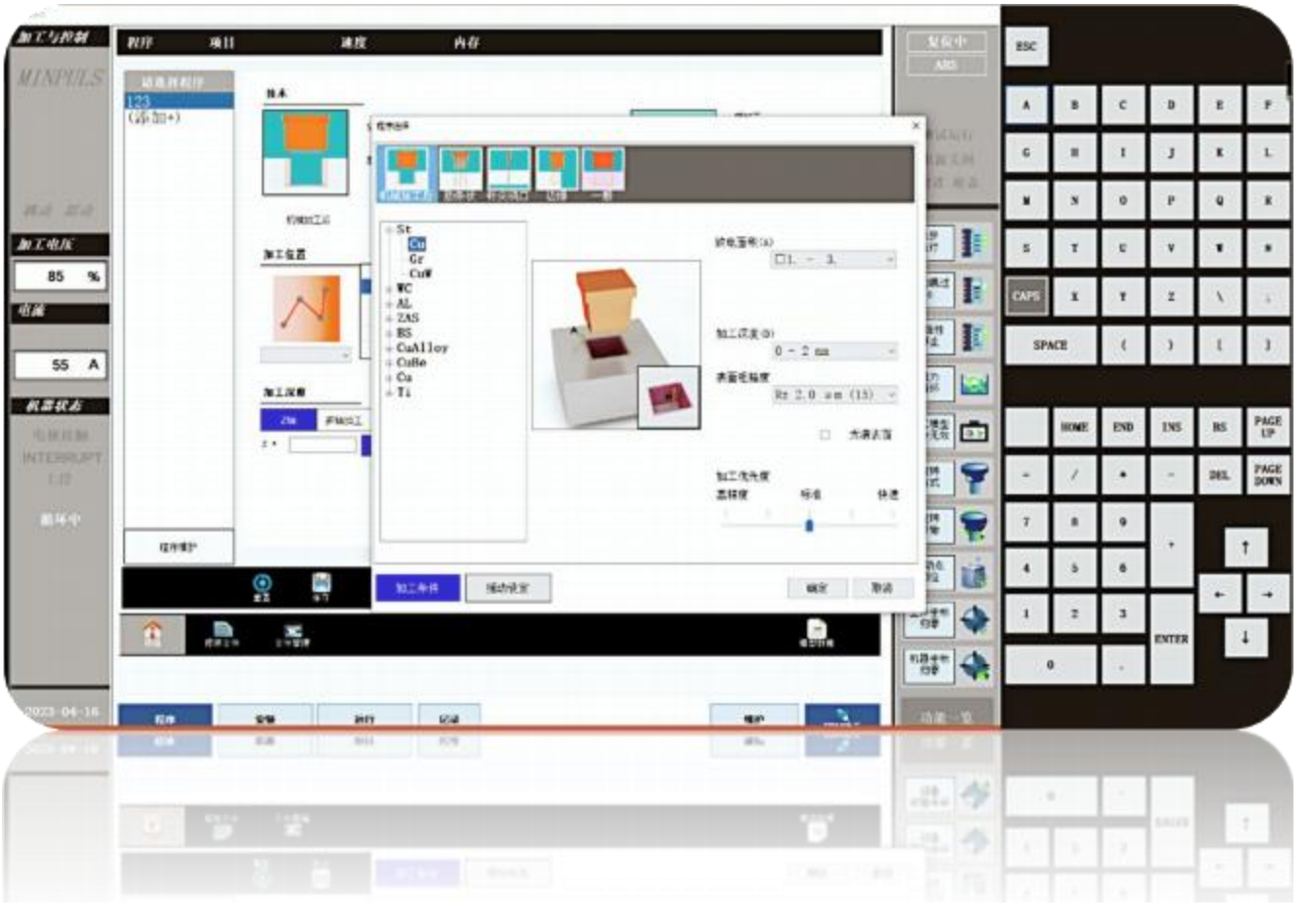
CNC EDM Machine

MinPuls EDM machine adopts the state-of-the-art micro pulse discharge technology, which is a revolutionary product in the field of mold processing, it not only improves the processing accuracy, but also dramatically increases the efficiency of electro erosion processing. It has the advantages of high surface finish and very low electrode loss. The MinPuls operating system is tailored for spark machine operators, providing a uniform operating experience that allows operators of all levels to better utilize the machine's performance and increase productivity. The machine is easy to operate and more user-friendly.

Touch screen controller, let the process easier!

Just three steps:

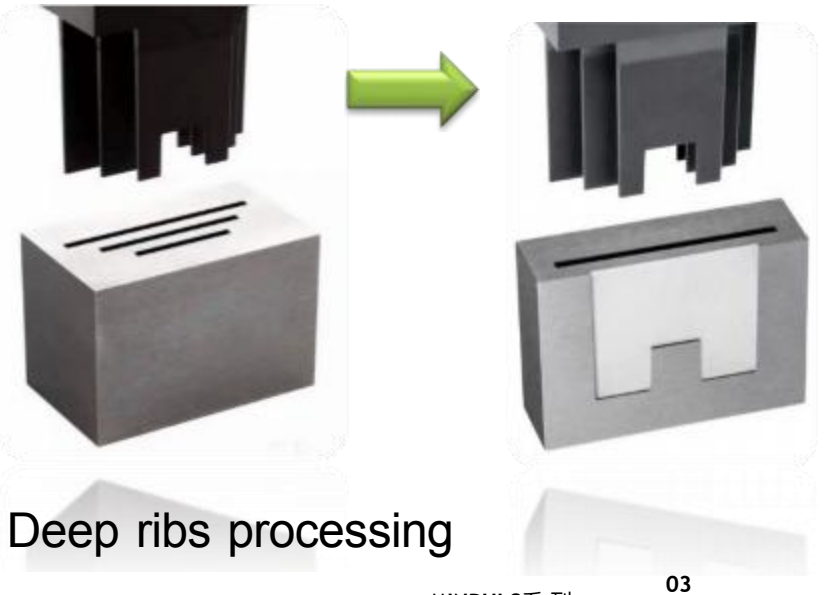
Ready ➡ set ➡ go!



MinPuls Controller

With an optimized intelligent interface that enables all operators to maximize the machine's performance and obtain the exceptional results.

Mirror surface processing



Deep ribs processing

1、 Data sheet

MINPULS2

No	Content	Unit	Specification
1	X、Y、Z stroke	mm	300×250×250
2	Working Container (LxWxH)	mm	650 ×400× 300
3	Distance from electrode fixing plate to table	mm	325~625
4	Table size	mm	500×350
5	Tank capacity	ℓ	350
6	Maximum electrode weight	Kg	50
7	Maximum workpiece weight	Kg	500
8	Oil level height	mm	250
9	Positioning accuracy	mm	±0.003
10	Repeated positioning accuracy	mm	±0.002
11	Optimum surface roughness	Ra	0.1
12	Maximum power	KVA	13
13	Maximum current	A	60
14	Mechanical weight	Kg	3000
15	Input power supply		380V , 50Hz , 3phase
16	CNC control system		MINPULS
17	Mode of movement		Nose movement
18	Language		Chinese/English/Korean

2、Accessories

No	Content	Unit	Specification
1	Filter paper core	set	2
2	Oil nozzle	set	1
3	Electrode chuck	set	1
4	Manual control box	set	1

3、 Overall dimensions

No	Content	Unit	Specification
1	Overall size of equipment(LxW xH)	mm	1800 x 2200 x 2400

1、 Data sheet

MINPULS4

No	Content	Unit	Specification
1	X、Y、Z stroke	mm	450×350×300
2	Working Container (LxWxH)	mm	970 ×750× 390
3	Distance from electrode fixing plate to table	mm	325~625
4	Table size	mm	650×500
5	Tank capacity	ℓ	350
6	Maximum electrode weight	Kg	50
7	Maximum workpiece weight	Kg	500
8	Oil level height	mm	280
9	Positioning accuracy	mm	±0.005
10	Repeated positioning accuracy	mm	±0.003
11	Optimum surface roughness	Ra	0.1
12	Maximum power	KVA	13
13	Maximum current	A	60
14	Mechanical weight	Kg	3500
15	Input power supply		380V , 50Hz , 3phase
16	CNC control system		MINPULS
17	Mode of movement		Nose movement
18	Language		Chinese/English/Korean

2、Accessories

No	Content	Unit	Specification
1	Filter paper core	set	2
2	Oil nozzle	set	1
3	Electrode chuck	set	1
4	Manual control box	set	1

3、 Overall dimensions

No	Content	Unit	Specification
1	Overall size of equipment(LxW xH)	mm	2360 x 2100 x 2600

1、 Data sheet

MINPULS4 Pro

No	Content	Unit	Specification
1	X、Y、Z stroke	mm	450×300×320
2	Working Container (LxWxH)	mm	800× 550× 350
3	Distance from electrode fixing plate to table	mm	325~625
4	Table size	mm	600×450
5	Tank capacity	ℓ	350
6	Maximum electrode weight	Kg	50
7	Maximum workpiece weight	Kg	800
8	Oil level height	mm	300
9	Positioning accuracy	mm	±0.003
10	Repeated positioning accuracy	mm	±0.002
11	Optimum surface roughness	Ra	0.1
12	Maximum power	KVA	13
13	Maximum current	A	60
14	Mechanical weight	Kg	5500
15	Input power supply		380V , 50Hz , 3phase
16	CNC control system		MINPULS
17	Mode of movement		Nose movement
18	Language		Chinese/English/Korean

2、Accessories

No	Content	Unit	Specification
1	Filter paper core	set	2
2	Oil nozzle	set	1
3	Electrode chuck	set	1
4	Manual control box	set	1

3、 Overall dimensions

No	Content	Unit	Specification
1	Overall size of equipment(LxW xH)	mm	1950 x 2300 x 2600

1、 Data sheet

MINPULS6

No	Content	Unit	Specification
1	X、Y、Z stroke	mm	650×450×350
2	Working Container (LxWxH)	mm	1100 ×750× 450
3	Distance from electrode fixing plate to table	mm	———
4	Table size	mm	800×550
5	Tank capacity	ℓ	500
6	Maximum electrode weight	Kg	80
7	Maximum workpiece weight	Kg	1500
8	Oil level height	mm	60
9	Positioning accuracy	mm	±0.003
10	Repeated positioning accuracy	mm	±0.002
11	Optimum surface roughness	Ra	0.1
12	Maximum power	KVA	13
13	Maximum current	A	60
14	Mechanical weight	Kg	6500
15	Input power supply		380V , 50Hz , 3phase
16	CNC control system		MINPULS
17	Mode of movement		Nose movement
18	Language		Chinese/English/Korean

2、Accessories

No	Content	Unit	Specification
1	Filter paper core	set	2
2	Oil nozzle	set	1
3	Electrode chuck	set	1
4	Manual control box	set	1

3、 Overall dimensions

No	Content	Unit	Specification
1	Overall size of equipment(LxW xH)	mm	3000 x 2400 x 2500

1、 Data sheet

MINPULS8

No	Content	Unit	Specification
1	X、Y、Z stroke	mm	800×500×400
2	Working Container (LxWxH)	mm	1500 × 1100× 600
3	Distance from electrode fixing plate to table	mm	560~960
4	Table size	mm	1050×600
5	Tank capacity	ℓ	600
6	Maximum electrode weight	Kg	80
7	Maximum workpiece weight	Kg	1800
8	Oil level height	mm	460
9	Positioning accuracy	mm	±0.003
10	Repeated positioning accuracy	mm	±0.002
11	Optimum surface roughness	Ra	0.1
12	Maximum power	KVA	13
13	Maximum current	A	60
14	Mechanical weight	Kg	6500
15	Input power supply		380V , 50Hz , 3phase
16	CNC control system		MINPULS
17	Mode of movement		Nose movement
18	Language		Chinese/English/Korean

2、Accessories

No	Content	Unit	Specification
1	Filter paper core	set	2
2	Oil nozzle	set	1
3	Electrode chuck	set	1
4	Manual control box	set	1

3、 Overall dimensions

No	Content	Unit	Specification
1	Overall size of equipment(LxW xH)	mm	2550 x 2530 x 2800

1、 Data sheet

MINPULS15-2H

No	Content	Unit	Specification
1	XYZ axis working stroke (single head)	mm	1400× 700× 500
2	XYZ axis working stroke (double heads)	mm	850 × 700×500
3	Working Container (L×W×H)	mm	2500× 1300×650
4	Distance from electrode fixing plate to table	mm	600~1100
5	Table size	mm	1800×800
6	Tank capacity	ℓ	1500L
7	Maximum electrode weight	Kg	100
8	Maximum workpiece weight	Kg	8000
9	Oil level height	mm	620
10	Positioning accuracy	mm	±0.008
11	Repeated positioning accuracy	mm	±0.005
12	Optimum surface roughness	Ra	0.1
13	Maximum power	KVA	26/2H
14	Maximum current	A	60/2H
15	Mechanical weight	Kg	8500
16	Input power supply		380V , 50Hz , 3phase
17	CNC control system		MINPULS
18	Mode of movement		Nose movement
19	Language		Chinese/English/Korean

2、Accessories

No	Content	Unit	Specification
1	Filter paper core	set	2
2	Oil nozzle	set	2
3	Electrode chuck	set	2
4	Manual control box	set	2

3、 Overall dimensions

No	Content	Unit	Specification
1	Overall size of equipment(LxW xH)	mm	4800 x 4400 x 3310

1、 Data sheet

MINPULS18-2H

No	Content	Unit	Specification
1	XYZ axis working stroke (single head)	mm	1800×800 x 600
2	XYZ axis working stroke (double heads)	mm	1200×800×600
3	Working Container (LxWxH)	mm	3500× 1800×650
4	Distance from electrode fixing plate to table	mm	630~1230
5	Table size	mm	2000×1000
6	Tank capacity	ℓ	1800L
7	Maximum electrode weight	Kg	100
8	Maximum workpiece weight	Kg	6500
9	Oil level height	mm	560
10	Positioning accuracy	mm	±0.009
11	Repeated positioning accuracy	mm	±0.005
12	Optimum surface roughness	Ra	0.1
13	Maximum power	KVA	26/2H
14	Maximum current	A	60/2H
15	Mechanical weight	Kg	16000
16	Input power supply		380V , 50Hz , 3phase
17	CNC control system		MINPULS
18	Mode of movement		Nose movement
19	Language		Chinese/English/Korean

2、Accessories

No	Content	Unit	Specification
1	Filter paper core	set	2
2	Oil nozzle	set	2
3	Electrode chuck	set	2
4	Manual control box	set	2

3、 Overall dimensions

No	Content	Unit	Specification
1	Overall size of equipment(LxW xH)	mm	6000 x 4900 x 3650

/ Intelligence / Understandable / Friendly interaction

The MinPuls controller, of our micro pulse spark machine, features an innovative and user-friendly human-machine interface that zooms, taps and swipes just as easily as smartphones and tablets, providing a simple, natural and comfortable operating experience that will increase your productivity. The controller's built-in electronic manual, intelligent help function and electronic training system further enhance the user-friendly interface so that anyone with only basic knowledge of machine tool operation can quickly learn the MinPuls controller. You will quickly grasp the power and technology of MinPuls and be able to machine complex parts on your first day of learning . MinPuls offers a new, comfortable, efficient and user-friendly experience that brings more convenience to your work.

1. Program

2. Set

3.

Operate the machine
like a smart tablet

Glide

Zoom

Click

MINPULS

Control technique

1. Program

2. Set

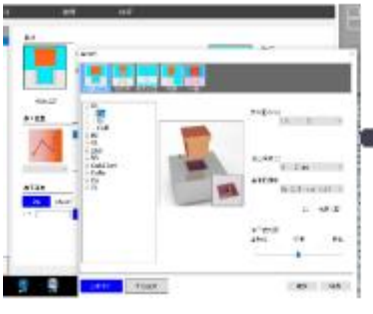
3. Run

/ Intelligence / Understandable / Friendly interaction

Applying the latest touch screen technology, MinPuls provides the operator with a simple and natural way of operation.

Easy programming

It`s easy to program on a human-machine friendly graphic screen



Shaking mode

Equipped with 3 shaking modes:
Round /Rectangular/3D spherical .

You can choose 2D or 3D shaking
According to the shape of the electrode
to optimize the program.

Processing menu

Select the shapes from the menu and input data such as workpiece material, etc. Automatically comes up with appropriate machining parameter for you

Depth

Electrode shape

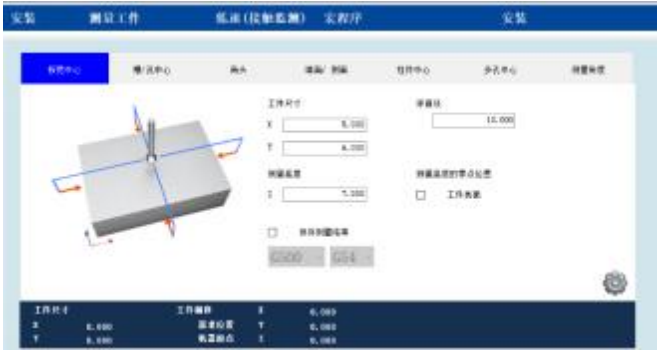
Machining position

Processing depth

Position

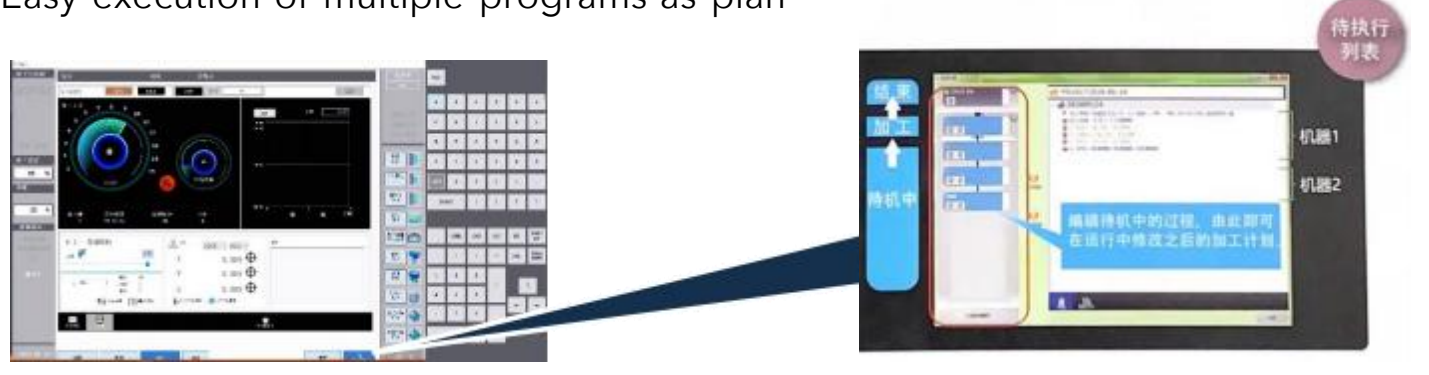
Preparation

The program is set on the screen, and the operator can perform various machining parameters input on the setting screen such as center of plate width, center of slot/hole, end/sides, column center, multi-hole center, measuring angle and other setting screens to perform processing input.



Run program

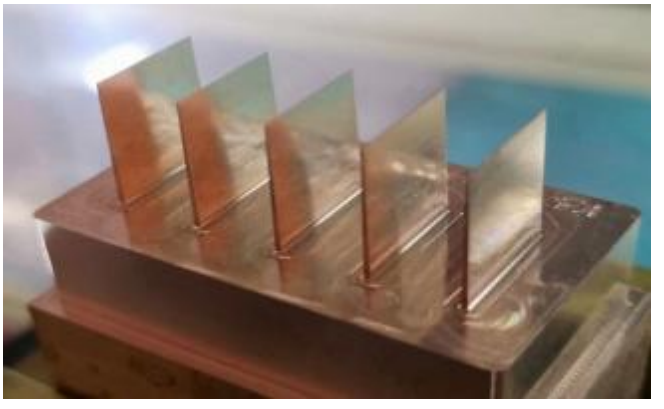
Easy execution of multiple programs as plan



Dr. MinPuls is an advanced help function that provides improvement methods for various Problems in a conversational manner.
For example, "Learn how to improve when the discharge is in bad status."

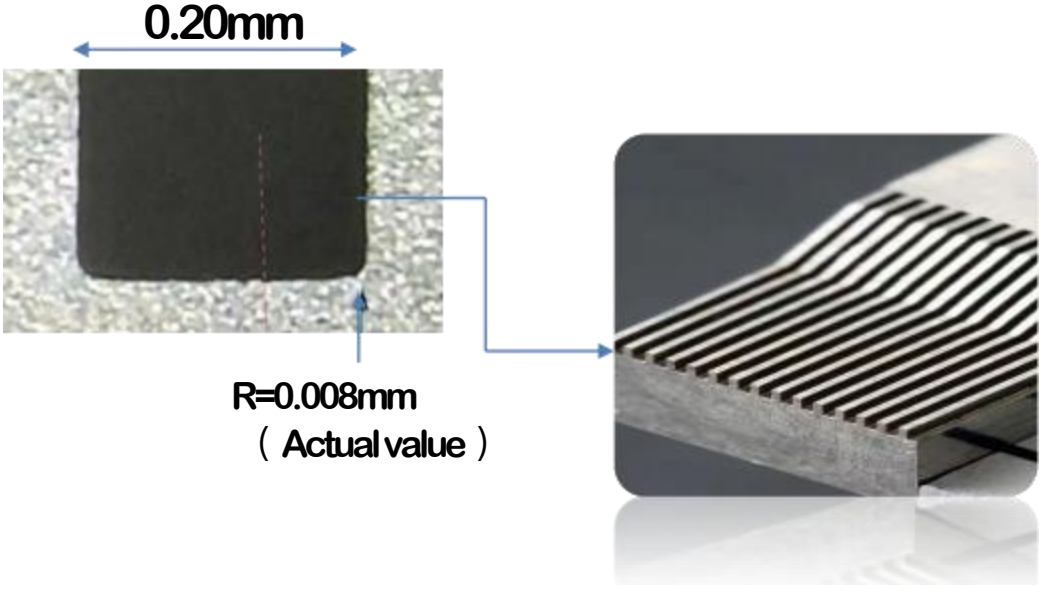
Minimum corner radius

Super finishing edge & surface processing



With the continuous miniaturization of IT equipment and instruments, In order to cope with molds for precision parts such as ultra-narrow pitch connectors and molds that need to be processed into fine corners & rounded corners, the precision of the corner radius can be processed to 8um or less to meet the specifications of ultra-precise molds.

Ultra-narrow pitch



Material: SKD11

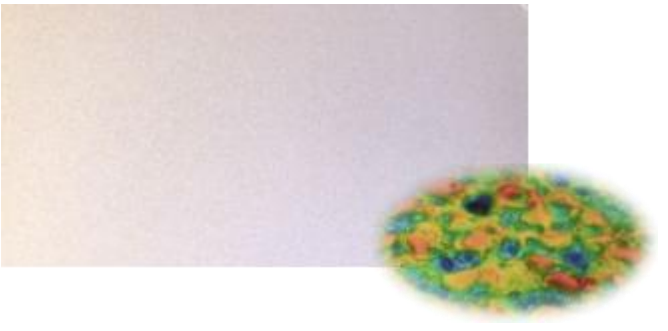
Depth: 0.3 mm

Roughness: 0.6 umRz
(0.09 umRa)

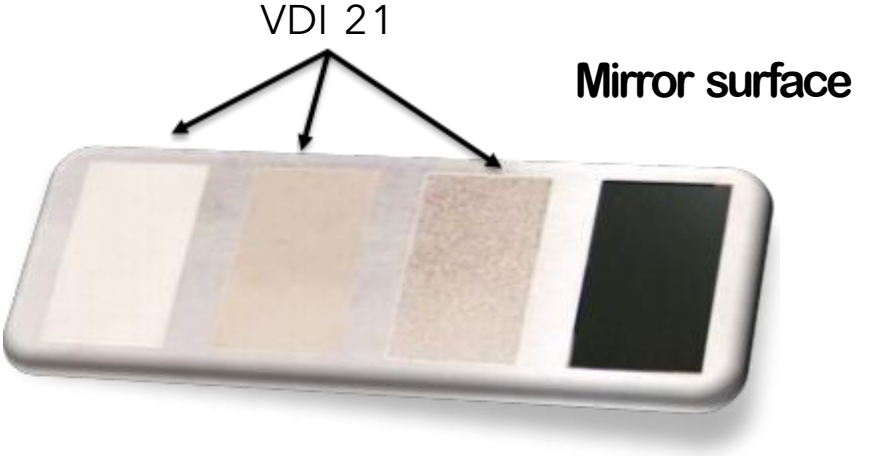
Super

It is possible to achieve a fine and uniform grain surface and prevent pinholes. Normally the roughness of the surface due to the fast-cutting component in the workpiece cannot be improved and the machinable area is limited, and Minpuls can achieve the required super surface with a very small amount of EDM grinding.

Large area ultra-precision surface



Same surface texture in different color



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