PRB-2050A <Chuck part>

Dimensions

177

300

500

%Three pieces of standard type fixing agent (1 piece: φ30×160) are included.

R₂

161

186

255

Model PRB PROMELTA* SYSTEM

PRC-220B (Controller)

Rated

Curren

ЗA

7Α

17A

н

80

Curren

20A

193 77

316

516

Voltage

200 VAC

Output

[mm (in)]

Mass

14kg/

28kg/ 61 lb

55kg/

Mass

A system to enable surface grinding of a wide range of materials from magnetic materials to such non-magnetic materials as aluminum. stainless steel and ceramic.

[Features]

A wide variety of workpieces!

Workpieces of such non-magnetic materials as plastic, aluminum, stainless steel, ceramic and glass that are difficult to hold and secure with conventional chucks can be secured easily. ** In particular, this system is most suitable for holding small workpieces that cannot be held by magnetic chucks.

Also, negative impact on accuracy due to warping of workpieces, which is unavoidable when mechanical clamps are used, has been eliminated.

It cannot be used with the following workpieces in some cases:

- Workpieces having abrasive-like surface (e.g. plaster)
- •Workpieces warped largely (more than 0.5 mm)

•Thin (less than 1.0 mm) workpieces such as stainless steel that tend to be distorted by grinding heat

·Some resins such as Teflon

Easy installation

The main unit can be installed on a machine by use of T-slots. Also since its mounting face is made of iron, it can easily be mounted on your magnetic chuck.

A remote control box included!

A remote control box for controlling the chuck unit comes as a standard accessory, which can be installed in an easy-to-operate place.

Operation box size: Width 80 × height 110 × depth 50 mm.

Exclusive to wet grinding

The wax used with this system is susceptible to impact and therefore cannot be used for cutting as a rule. In dry operations, the temperature of workpieces rises to melt the wax and therefore, it cannot be used.



<Chuck part>

Item	Securing method	PROMELTA System	Refrigerating Chuck	Vacuum Chuck	Magnetic Chuck (Electromagnetic/ Permanent)	Mechanical Clamp (e.g. Vice)
Workpiece to fix	Material	\bigcirc	\bigcirc	O	× (Magnetic materials only)	
	Size/plate thickness	O	0	(Small workpieces) not possible	\bigtriangleup	
	Material distortion	0	O	×	0	O
Operability	Pretreatment	Cleaning required)	\bigtriangleup		0	0
	Fixing time	\bigtriangleup	\bigtriangleup	0	0	0
	Releasing time	\bigtriangleup	\bigtriangleup	0	0	0
	Post treatment	△ (Cleaning required)	0	0	0	0
Grinding condition	Infeed per pass (Fixing power stability)	O	(Weak to (grinding heat)	0	0	0
	Wet operations	\bigcirc	×	0	0	\bigcirc
Grinding accuracy	(Workpiece distortion when clamped)	\bigcirc	\bigcirc	\bigtriangleup		0
Cost	Running cost	0	\bigcirc	O	0	\bigcirc
	Facility scale	\triangle	\triangle	0	0	Ô
	System price	\bigtriangleup	\bigtriangleup	0	0	0

Fixing agent

Melting temperature 65°C Its film thickness is5 to 10µm. Fixing power (by materials)

(kg/cm²) 14 12 10 10 8 Fixing 6 4 2 0 SUS304 A5056 Ceramic MC nylon Polypropylene Fixing agent: ϕ 30×160 mm (100 g × 3 pieces/set)

ote: These are sold only to the purchaser of the PROMELTA* SYSTEM.

For removing fixing agent remaining after securing workpieces, cleaning liquid and ultrasonic cleaner (optional) are available.



****Note:** The grinding accuracy is presented for reference only. It varies according to shapes, materials and sizes of workpieces and grinding environment such as machines.

BLOCKS FOR MC

VACUUM

Model

PRB-1218A

PRR-1530A

PRB-2050A

Model

PRC-220B

R R

125

150

200

121

146

196

When they have been used up, please purchase them

Input

Voltage

3-phase 200 VAC, 50/60 Hz

HOLDING TOOLS

MEASURING TOOL HOLDERS

MAGNETIC HOLDERS

MAGNET TOOLS

PRB / PRC