

Minimo



MINITOR CO., LTD. JAPAN

<https://www.minitor.co.jp>



Head Office	3-21-1, Ryogoku, Sumida-ku, Tokyo TEL.03-6630-5800 FAX.03-6630-5795
Osaka br	2-4-2, Shinmachi, Nishi-ku, Osaka TEL.06-6531-5300 FAX.06-6531-5417
Nagoya br	1-9-15, Kanayama, Naka-ku, Nagoya TEL.052-331-5222 FAX.052-331-5223
Kyushu br	48-3, Umemitsumachi, Kurume, Fukuoka TEL.06-6531-5300 FAX.06-6531-5417
Gifu Factory	4-10, Himegaoka, Kani, Gifu TEL.0574-63-5671 FAX.0574-63-5675

● Contact

Minimo ONE SERIES Ver. 3



**ONE SERIES to the
next stage**

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Minimo ONE SERIES Ver.3 High Torque Motor Specialized in Mounting on Machine and Power Pack Evolved into Smaller Body

New arrival of high torque motor, expected for mounting on machine, and power pack.
Speed control dial comes from top to front.
This power pack is evolved with concentration of functions with intuitive simple operability and high durability.

Digital Display with High-Luminance LED



Rotation speed or output rate is indicated by identifying connected handpiece automatically (rotation speed in x1000min or output rate in %).

LED Load Meter

Loaded condition in operation is indicated by LED. Error is alerted by LED load meter and sound when overloading.



Rotation Direction Switch

Rotation direction (FWD. or REV.) can be changed easily by pressing button.



POWER PACK

C2013 (100V) **C2113 (115V)**
C2213 (230V)

Compatible with Former Series Handpiece

The Ver.3 power pack can be used with motors and handpieces in former series as well except Polytor ultrasonic handpiece.

- MINITOR V Series [1987~1992]
- Minimo 7 Series [1992~1997]
- Minimo One Series [1997~2013]
- Minimo One Series Ver. 2 [2013~]

Model	C2013	C2113	C2213
Input Voltage	AC100V±5% (50/60Hz)	AC115V±5% (50/60Hz)	AC230V±5% (50/60Hz)
Rated Input	60VA		
Output Voltage	D.C. 1~30V		
Weight	2.5kg		

This Ver.3 power pack can be used with all 30V handpieces by Minitor.

Accessories

- AC Power Cord 1 (CA10, CA11 or CA12)
- Rubber Cradle 1 (RM11)
- Fuse 1 (C2013,C2113:PFU-2.0A / C2213:PFU-1.0A)

MOTOR

Torque type motor **KX313**

Maximum Torque	10.0cN·m
Speed Range	1000~10,000rpm
Weight	330g ※Without cord

POINT 03

HIGH POWER Maximum torque 10.0cN·m

The highest power motor ever from Minimo motor lineup. Suitable for deburring and polishing needed torque.

POINT 04

MAX SPEED 10,000rpm

The maximum rotation speed 10,000 rpm, although high torque. Enable to use with wide range of Sentan Tools requiring high rotation speed such as carbide cutter.

HEAD

Clamp Head for Mounting on Machine

Head parts for mounting handpiece on machines such as automatic machine, etc. Sentan Tool can be exchanged while mounting on. (MX52/MX53)

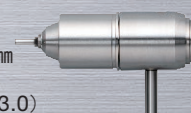


CAUTION KX313 is NOT compatible with former power packs.



MX52

Maximum shank diameter ϕ 3.175mm
※ Collet chuck sold separately
Mounted collet chuck KP-032 (ϕ 3.0)
Weight : 231g



MX53

Maximum shank diameter ϕ 6.35mm
※ Collet chuck sold separately
Mounted collet chuck KP-060 (ϕ 6.0)
Weight : 268g



FX91

Maximum shank diameter ϕ 6.35mm
※ Collet chuck sold separately
Mounted collet chuck KP-126 (ϕ 6.0)
Weight : 295g



Scan this for more information



Adopting locknut chucking mechanism and reinforcing gripping power of collet chuck.

POINT 01

Digital Display with High-Luminance LED

Improved visibility by high-luminance white LED. Indicating rotation speed (x 1000min), output level (LEVEL %) and error code.

POINT 02

External I/O signal control function as standard feature

The following signals are input / output through foot switch socket on back side of power pack.

- Outputting error signal
- Setting rotation direction
- Setting rotation speed
- Selecting DC motor connection terminal in use
- Turning motor on / off

※For using this function, a remote control plug (RPG-8P) is required.

Plug for remote controlling

RPG-8P DIN 8-PIN Plug

A plug for controlling handpiece via external I/O signals.



Accessories

AC Power Cord for Power Pack (Length: 2m)

- CA10 Input Voltage : 100V
- CA11 Input Voltage : 115V
- CA12 Input Voltage : 230V



Rubber Cradle

RM11
Handpiece stand made of rubber
Dimensions : 72 (W) × 72 (D) × 30 (H) mm



Fuse

- PFU-2.0A C2013 / C2113 (100V / 115V)
- PFU-1.0A C2213 (230V)



MOTOR : Standard Accessories

Straight Cord 1.5m CC7113-ST

Cord connecting DC motor connection terminal of power pack and KX313.



Optional Accessories

Foot Switch

VC302 (Variable type)
Rotation speed can be controlled by tread adjustment.
● Controllable range: 0 (stop)~MAX
FS202 (ON/OFF type)
Switch is ON while stepping on.



Extension Cord (Length: 2m)

CB2113 ※Coming soon
Straight extension cord for connecting DC motor connection terminal of power pack and straight cord (CC7113-ST)



1/4 Reduction Ratio Gear Joint

Max. allowable rotation speed 30,000rpm



Joint having wide application range with built-in 1/4 reduction ratio gear can be used with all heads except H051 and all motors with max. rotation speed 30,000 rpm or less.

Clamp Joint

Max. allowable rotation speed 35,000rpm



Compatible with all types of head and motors with max. rotation speed 35,000 rpm or less and can help to clamp Rotary, ANGLON, RUBRON, etc.

Clamp Mount

DM02



Clamp mount is used to fix clamp head, gear joint and clamp joint to tool rest of machine such as lathe, etc. Clamped part of clamp mount and shaft of mounted head are in parallel.