Uhandy



URAWA CORPORATION

hpul

Human Engineering

Urawa Corporation introduces the **Chandy** series of handpieces and power controllers that represent the latest in engineering and design. The **Chandy** series features ergonomic design that combines state-of-the-art technology with easy-to-use equipment to perfectly match user requirements.



Research and Development



Head Office

Urawa Corporation was the first company in the world to develop the Micro Motor. Exports to users in the dental field began in 1966. Further developments gave rise to the production of a Micro Motor for industrial use in 1970. In Japan, the Urawa Micro Motor has consistently achieved higher sales than any other company in the industry. Today, the Urawa Micro Motor is exported to over 40 countries.



Factory

STANDARD handy

- *General purpose handpieces that are suitable for a wide variety of applications.
- *Motorunit incorporates a Self-Cooling Fan.
- *One touch collet release mechanism
- *Mounted Collet Chuck: ϕ 2.35mm

Optional Collet Chuck: \$\phi 3.0mm, \$\phi 3.175mm\$

SLENDER handy

- *Ideal for delicate and precision work.
- *Motorunit incorporates a Self-Cooling Fan.
- *One touch collet release mechanism
- *Mounted Collet Chuck : ϕ 2.35mm

Optional Collet Chuck: ϕ 3.0mm, ϕ 3.175mm





HEAVYDUTY handy

- *Designed for applications requiring high torque.
- *Motorunit incorporates a Self-Cooling Fan.
- *One touch collet release mechanism
- *Mounted Collet Chuck: \$\phi 6.0mm\$
 - Optional Collet Chuck : ϕ 2.35, ϕ 3.0,

 ϕ 3.175, ϕ 6.35mm

U M233 (HIGH SPEED & HIGH TORQUE) Motorunit is the same as UM231 Handpiece Speed: *** Speed : 3,000~30,000RPM Dimensions: ϕ 31.6×171.0mm Power: *** Weight: 325g not including connection cord Utility: ***** UM213 (MEDIUM SPEED & HIGH TORQUE) Motorunit is the same as UM211 Handpiece Speed: 1,500~15,000RPM Speed: * Dimensions: ϕ 31.6×171.0mm Power: *** * * Utility: *** Weight: 325g not including connection cord

ANGLE handy

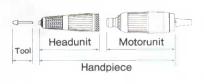
- *Applications include the polishing and finishing of flat surfaces, curved surfaces and ends.
- * Motorunit incorporates a Self-Cooling Fan.
- *One touch collet release mechanism
- *Mounted Collet Chuck: ϕ 3.0mm

Optional Collet Chuck: ϕ 2.35mm, ϕ 3.175mm



CONNECTION SYSTEM

In this catalogue...



The handpiece comprises of the headunit and the motorunit.

The headunit and motorunit is interchangeable with a simple one touch operation which provides maximum versatility.



NOTES: 2



UT02 SLENDER HEAD Mounted Collet: \$\phi 2.35mm\$

NOTES: ①



HEADUNITS

UT03 HEAVYDUTY HEAD Mounted Collet: ϕ 6.0mm

Utility: ***

NOTES: 3



UT05 90° ANGLE HEAD Mounted Collet: \$\phi 3.0mm\$

NOTES: 40



UT06 90° HEAVYDUTY ANGLE HEAD Mounted Collet: ϕ 3.0mm

Weight: 385g not including connection cord

NOTES : 4



UT07 120° HEAVYDUTY ANGLE HEAD Mounted Collet: \$\phi 3.0mm\$

NOTES: 4



POWER CONTROLLER

POWER CONTROLLER

- *Variable Speed Control (DC3-30V).
- *Automatic feedback circuit that ensures constant revolutions under a variety of working conditions.
- *The following safety features are provided:
 - (1) A fuse to safeguard against an AC circuit short or an abnormal electric current in the primary circuit.
 - (2) A thermal fuse is located in the transformer to protect against overheating.
 - (3) A thermal sensor that temporarily switches off the current in the event of the output circuit overheating.
 - (4) An electronic circuit breaker that will temporarily stop the current in the event of an excessive load being applied to the handpiece.
- *Dust proof system for all controls.
- *Variable Foot Controller (VC10) and On-Off Foot Switch (FS18) are optional.
- *Quick stop circuit system enables the handpiece to stop as soon as the operator removes his/her foot from VC10, FS18, or turns off the power switch.

UC500 Power Controller accepts all UC500 Handpieces except for the UM052 (Ultra High Speed) Handpiece.



2 Handpiece Holders (PA31-748) included with unit.

Dimension: W170×D195×H110mm

Weight : 2.4kg

UC200 Power Controller accepts only the UC200 Fower Controlled UM052 (Ultra High Speed) Handpiece.



1 Handpiece Stand (KQ-803) included with unit.

: AC120V, 220V, 240V, 50 60Hz : DC3-30V

Output Dimension: W130 X D132 X H87mm

Weight : 1.7kg

HEADUNITS

UT08 SWING HEAD Toolholder accepts tool shanks from \$\phi 2.0 - \$\phi 4.7mm\$ NOTES: (5)



UT10 AIR HEAD Mounted Collet: ϕ 3.0mm NOTES: ①



UT11 LONG SLENDER HEAD Mounted Collet: ϕ 3.0mm NOTES: ①



UT12 STANDARD CLAMP HEAD Mounted Collet: ϕ 3.0mm NOTES: 3



UT13 HEAVYDUTY CLAMP HEAD Mounted Collet: ϕ 6.0mm NOTES: 3



UT14 LOCK NUT CLAMP HEAD Mounted Collet: ϕ 6.0mm NOTES: 3



UT15 1/4 REDUCTION JOINT To be connected between Motorunit and Headunit NOTES: 3



NOTES:

① : To be connected with Motorunits of a maximum 55,000RPM

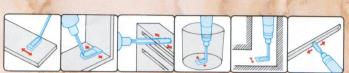
② maximum 35 000RPM 3 : maximum 30,000RPM

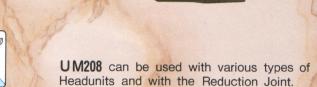
4 : maximum 15,000RPM ⑤: maximum 8,000RPM

SWING handy

- *Side-to-Side stroke
- *Lateral Stroke: 0-1.6mm.
- *Toolholder accepts tool shanks from ϕ 2.0- ϕ 4.7mm.
- *Motorunit incorporates a Self-Cooling Fan.
- * A variety of Headunits can be attached to the Motorunit.

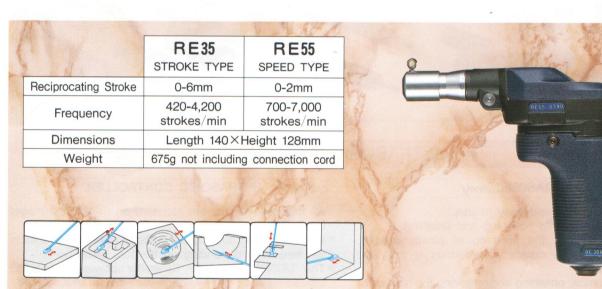
U M208 (LOW SPEED & ULTRA HIGH TORQUE)			
Motor Speed 800-8,000RPM			
Lateral Stroke	oke 0-1.6mm		
Frequency	800-8,000 swings/min		
Dimensions	φ31.6×182mm		
Weight	315g not including connection cord		





RECIPRO handy

- *Reciprocating Stroke
- *Toolholder accepts tool shanks from ϕ 2.0- ϕ 6.35mm.
- *The locking mechanism allows for fixed or free floating operation.
- * Motorunit incorporates a Self-Cooling Fan.



BELT handy

- *Suitable for a wide variety of applications that range from deburring to polishing.
- *The different types of Belt Arms allow for maximum versatility.
- *The Belt Arm incorporates a spring loaded mechanism that enables the rapid changing of abrasive belts.
- *Motorunit incorporates a Self-Cooling Fan.

	BS33		
Belt Speed	1.2-12m/sec		
Dimensions	Length 160×Height 119mm		2-10
Weight	400g not including connection cord		100
Thin Belt Arm BS1-100-1		Belt Width : 4-6mm	
Standard Belt Arm BS1-100-2		Belt Width : 6-8mm	
Angle Belt Arm BS1-100-3		Belt Width : 6-8mm	
San Contraction		A FRITTING	





ULTRASONIC SYSTEM

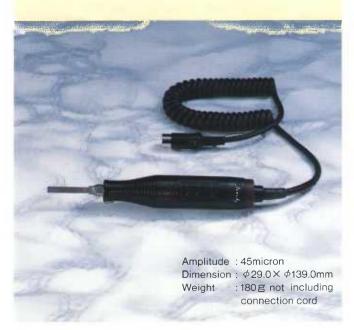
ULTRASONIC handy

- *Light, well balanced and easy to use.
- *Significantly speeds up polishing and finishing.
- *Applications include the finishing of plastic moulds, diecasts, presstools, ceramic, nonferrous metals and precious metals.
- *Ideal for deburring, polishing and removing the hard crust that results from EDM finishing.

ULTRASONIC CONTROLLER

- *All the features that are standard on the UC500 Power Controller.
- *Incorporates an automatic feed back system that adjusts the frequency depending on the tool being used.
- *The UC550 Ultrasonic Controller powers the US55 Ultrasonichandy and all handpieces except UM052 (Ultra High Speed)

US55



UC550



Weight

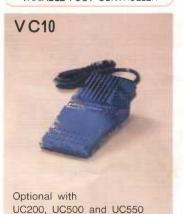
included with the

Dimension: W170×D195×H110mm

: 2.5kg

OPTIONAL ACCESSORIES

VARIABLE FOOT CONTROLLER



ON-OFF FOOT SWITCH



ON-OFF FOOT SWITCH



EXTENSION CURLED CORD



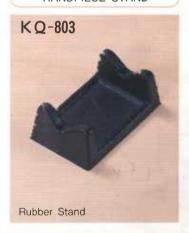
EXTENSION STRAIGHT CORD



EXTENSION STRAIGHT CORD



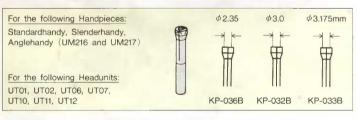
HANDPIECE STAND

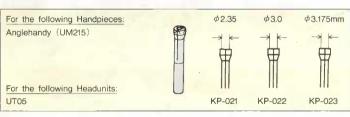


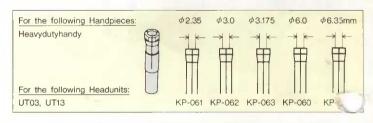
HANDPIECE HOLDER

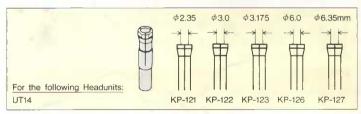


COLLET CHUCK









CONTACT...

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- *The specifications and designs in this catalogue are subject to change without notice.
- As the photograph is printed, the colors are slightly different from the actual ones.
- Please read the Operation Manual before using the equipment.