

# Rotary(Connection Type)

UT HEAD

UM MOTOR

Interchangeable with UM23, UM21 and UM20

### UT01 Standard Head



Weight: 115g

### UT02 Slender Head



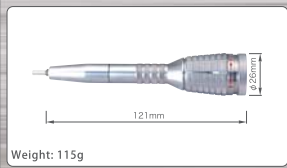
Weight: 100g

### UT03 Power Rotary Head



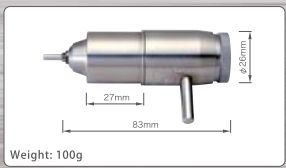
Weight: 150g

### UT11 Long Slender Head



Weight: 115g

### UT12 Standard Clamp Head



Weight: 100g

TYPE	COLLET SIZE(mm)		
	MOUNTED	INCLUDED	OPTION
UT01,UT02	φ 2.34 (Item No.KP-036B)	φ 3.0 (Item No.KP-032B)	φ 3.175 (Item No.KP-033B)
UT03	φ 6.0 (Item No.KP-060)	φ 3.0 (Item No.KP-062)	φ 2.34 (Item No.KP-061) φ 3.175 (Item No.KP-063) φ 6.35 (Item No.KP-064)
UT11,UT12	φ 3.0 (Item No.KP-032B)	φ 2.34 (Item No.KP-036B)	φ 3.175 (Item No.KP-033B)

Interchangeable with UM21 and UM20

### UT05 Angle Head 90°



Weight: 115g

### UT06 Power Angle Head 90°

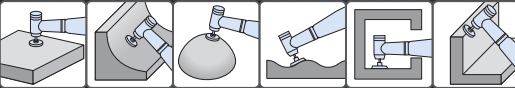


Weight: 100g

### UT07 Power Angle Head 120°



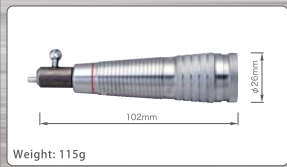
Weight: 150g



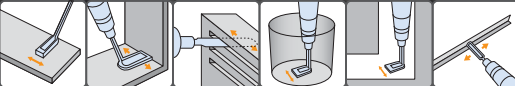
TYPE	COLLET SIZE(mm)		
	MOUNTED	INCLUDED	OPTION
UT05	φ 3.0 (Item No.KP-022)	φ 2.34 (Item No.KP-021)	φ 3.175 (Item No.KP-025)
UT06,UT07	φ 3.0 (Item No.KP-032B)	φ 2.34 (Item No.KP-036B)	φ 3.175 (Item No.KP-033B)

Interchangeable with UM20

### UT08 Swing Head



Weight: 115g



The tool is optional item.

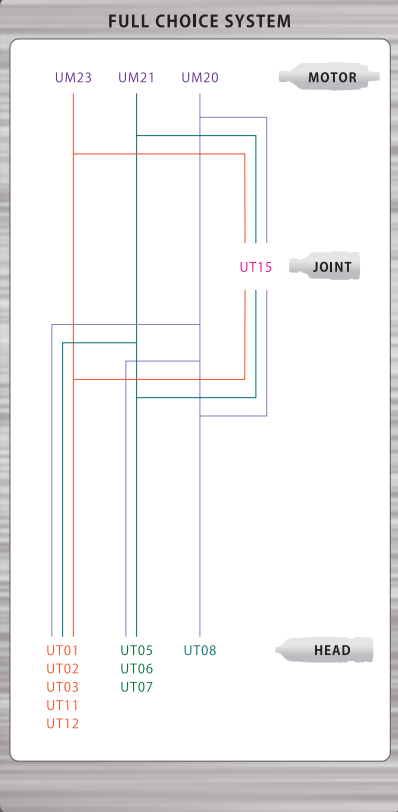
Instead of collet system, V ditch chuck is adopted : possible to attach the tool of φ 2-4mm. Also, possible to attach the tool of the triangle and the square handle.

# FULL CHOICE SYSTEM

### UT15



1/4 Reduction Joint  
To be connected between Motor-unit and Head-unit.



### UM23



Weight:170g not including motor cord

Speed : 3,000~30,000rpm  
Max.torque : 650g · cm (6.5 N · cm)

### UM21



Weight:170g not including motor cord

Speed : 1,500~15,000rpm  
Max.torque : 900g · cm (8.8 N · cm)

### UM20



Weight:170g not including motor cord

Speed : 800~8,000rpm  
Max.torque : 900g · cm (8.8 N · cm)

The Handpiece Stand is included in UM motor series.  
(Item No.KP90-101)

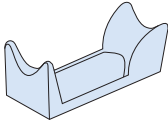


Rotary Handpiece (One-Piece Type)

UA12A, UA13A, UA14A,UA05A



- The head and the motor are not interchangeable in " UA " series but the rotating centering accuracy increases to the maximum.
- Well-designed " Pencil " to use easily with a goods balance,which ensures comfortable working.
- Motor unit incorporates a Self-Cooling Fan.

	UA12A	UA13A	UA14A	UA05A
Speed	2,000~ 20,000rpm	3,500~ 35,000rpm	4,500~ 45,000rpm	5,500~ 55,000rpm
Max Torque	660g · cm (6.5N · cm)	550g · cm (5.4N · cm)	420g · cm (4.1N · cm)	330g · cm (3.2N · cm)
Mounted Collet	φ 2.34mm (KP-0368)			
Enclosed Collet	φ 3.0mm (KP-0328)			
Option Collet	φ 3.175mm (KP-0338)			
Accessories	 The Handpiece Stand (KP90-101)			

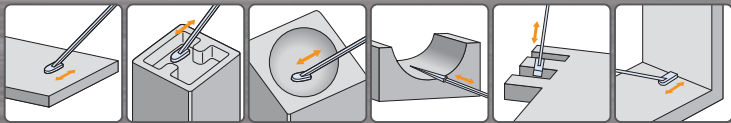
Recipro Handpiece

RE35, RE55



- Reciprocating Stroke.
- Tool holder accepts tool shanks from φ 2.0~φ 6.35mm.
- The locking mechanism allows for fixed or free-floating operation.
- Motor unit incorporates a Self-Cooling Fan.

	RE35 Stroke Type	RE55 Speed Type
Reciprocating Stroke	0 - 6mm	0 - 2mm
Frequency	420~4,200 strokes/min	700~7,000 strokes/min

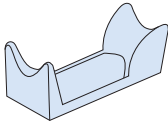





Hammer Handpiece

HM11



- Recommended for inlaying jewelry, riveting ring and pendant or blacksmith.
- Possible to use just as tool edge is toughed to the spot.
- Possible to adjust in the wide range of frequency or stress.
- Motor unit incorporates a Self-Cooling Fan.



Stroke	0.7mm
Impact Frequency	0~32Hz
Impact Force	Max.392m/s2 (40G)
Accessories	 The Handpiece Stand (KP90-101)  Tool (HM10-151)  Tool adapter B (HM10-154)  Adapter for the tool polish (KP43-101) * A wrench is enclosed for tool exchange.

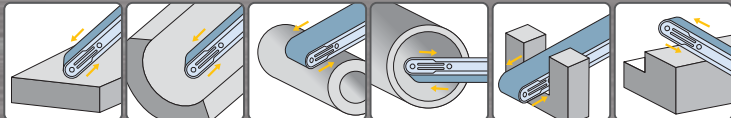
Belt Sander

BS33



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

Belt Speed	77.7~777m/min
Thin Belt Arm (BS1-100-1)	 * Belt Width : 4~6mm
Standard Belt Arm (BS1-100-2)	 * Belt Width : 6~8mm
Angle Arm (BS1-100-3)	 * Belt Width : 6~8mm



## Ultrasonic Handpiece

### US55

Any tool-tip is provided:  
please refer to our tool catalogue.



Weight: 180g not including motor cord

- A compact-sized & light weighted handpiece ergonomically designed to enhance the operational efficiency, not causing fatigue even after works for long times.
- Applications include the finishing of plastic moulds, diecasts, prestools, ceramic, nonferrous and precious metals. Ideal for deburring, polishing and removing EDM scales.
- The tip of tool vibrates back and forth within amplitude of maximum 45 micron to lap grooves, ribs and hard-to-reach spots by hand.
- Available with Hybrid Controller UC550 series only.

US55	
Transducer	Langevin Type
Amplitude	45um
Accessories	Holder Changing Wrench (HK-8)
	Tool Changing Wrench (HS-1.5)(HS-2.5)

## Hybrid Control

### UC550

Folder angles can be adjusted  
as follows:



- Automatic feed system is incorporated to adjust the frequency depending on the tool being used.
- 4 stages safety circuit are built in to preclude the probability of over-heating or overloading in both controller and handpiece.
- Motor rotation can be reversed at a touch.
- 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.

UC550			
Type	UC550C	UC551C	UC553C
Input	AC100V 50/60Hz 30VA	AC120V 50/60Hz 30VA	AC230V 50/60Hz 30VA
Output	Ultrasonic Handpiece : AC6~60V 22.6kHz 0.3A Motor Handpiece : DC3~30V 0.3A		
Accessories	The Handpiece Stand (KP90-101)		

## High Power Controller

### UC500

Folder angles can be adjusted  
as follows:



**UC500 High Power Controller accepts all Handpieces. (Two handpieces can not be used simultaneously.)**

- 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
  - (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			
Type	UC500C	UC501C	UC503C
Input	AC100V 50/60Hz 30VA	AC120V 50/60Hz 30VA	AC230V 50/60Hz 30VA
Output	DC3~30V 0.3A×2		
Standard Accessories	Handpiece Holder(2 pcs) (PA31-748)		

## Power Controller

### UC250



**UC250 Power Controller accepts all Handpieces.**

- 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
  - (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.

UC250			
Type	UC250C	UC251C	UC253C
Input	AC100V 50/60Hz 24VA	AC120V 50/60Hz 24VA	AC230V 50/60Hz 24VA
Output	DC3~30V 0.3A		
Feature	Diagram showing the UC250 controller with a foot pedal and a handpiece, indicating the connection points for the foot pedal and the handpiece.		

# Optional Accessories

VC60

Variable Foot Controller

Weight: 115g

FS18

ON/OFF Foot Switch

Weight: 100g

KE50-113

Extension Curl Cord

Weight: 150g

KE50-114/115

Extension Straight Cord

Weight: 115g

KP90-101

Handpiece Stand

Weight: 100g

PA31-748

Handpiece Holders

Weight: 150g

Possible to control rotation speed from the start to max. speed as if driven by a car accelerator.

Possible to make ON/OFF operation. Quick-stop circuit is incorporated to stop operation immediately at " OFF " mode.

Extension cable for handpieces (length 1.5m)

<NOTE> not available for Ultrasonic handpiece model US55

Extension cable for handpieces KE50-114 (length 3m) KE50-115 (length 5m)

<NOTE> not available for Ultrasonic handpiece model US55

Extension cable for Ultrasonic handpiece is also suppliable.

Made of elastic plastics to prevent the handpiece from dropping down.

The angle of putting the handpiece can be adjusted at 0,45 & 90 degrees.

Collets

Interchangeable with

UT01 / UT02 / UT06 / UT07 / UT11 / UT12

UA12A / UA13A and UA14A.

KP-036B

KP-032B

KP-033B

Interchangeable with UT03

KP-061A

KP-062A

KP-063A

KP-060A

KP-064A

Interchangeable with UT05

KP-021

KP-022

KP-025

Model No.	Mounted Collet	Included Collet	Optional Collet	Model No.	Mounted Collet	Included Collet	Optional Collet
UT01				UT03			φ 2,34mm (KB-061A)
UT02	φ 2,34mm (KP-036B)	φ 3,0mm (KP-032B)	φ 3,175mm (KB-033B)		φ 6,0mm (KP-060A)	φ 3,0mm (KP-062A)	φ 3,175mm (KB-063A)
UA12A							φ 6,35mm (KB-064A)
UA13A							
UA14A				UT05			
UT06					φ 3,0mm (KP-022)	φ 2,34mm (KP-021)	φ 3,175mm (KB-025)
UT07	φ 3,0mm (KP-032B)	φ 2,34mm (KP-036B)	φ 3,175mm (KB-033B)				
UT11							
UT12							

A wrench is included for tool exchange.

# System Chart

The System Chart illustrates the connectivity between different components of the Urawa Minitor system. It shows three main units (UC550, UC500, UC250) connected to various handpieces (US55, UT, UA, HM, RE, BS) and foot controllers/switches (VC60, FS18). The chart uses blue lines to indicate the flow of power and data between these components.

The brand name of “MINITOR” is officially registered by Urawa Corporation.

- The models belonged to “Uhandy” is succeeded by “URAWA MINITOR” .
- All the models of “Uhandy” are interchangeable with those of “URAWA MINITOR” .
- 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.

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