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ROLLER BALL 



The Icon of the Future

The slim, elegant form signifies a new future in the salon.
ROLLER BALL F—bringing new possibilities in hair design.



More Sophisticated, More Stylish ROLLER BALL F

An Innovative Product Created by Takara Belmont

A far-infrared hair processor is essential for effectively processing colour, perms, and other treatments. The world's first far-infrared dome with a rotating ring was implemented in the ROLLER BALL, a leading Takara Belmont product. With an open feeling and chic-yet-functional style that you don't find in hood-based processors, it remains popular in Japan—and the rest of the world—more than 20 years after its first release.

ROLLER BALL F is Revolutionising the Future of the Salon

And now, a new generation of ROLLER BALLS has been conceived: ROLLER BALL F ('F' for 'Future'). Complementing its stylish and futuristic design are several advancements in performance—for example, an industry-first* carbon element—that make the ROLLER BALL F a powerful tool that will revolutionise the future of hair design. Evoking an image of high-end therapeutic technology and sporting a beautiful finish, it's sure to become a new icon of the salon in the years ahead.

*As of July 2011

ROLLER BALL





Roll Out the Style—Designs and Colours That Make Salon Work Fun

Shown here: creative models (one-tone specification).

High-Performance Carbon Element Expands the Possibilities of Hair Design

In place of a conventional ceramic element, ROLLER BALL F employs a new, highly efficient carbon element that uses high-purity carbon (99.8% purity). What really impresses about this element is its outstanding speed and power. Formed into a circular shape that was very difficult to manufacture until now, it is the beauty industry's first* carbon element to be used in a far-infrared hair processor.

*As of July 2011

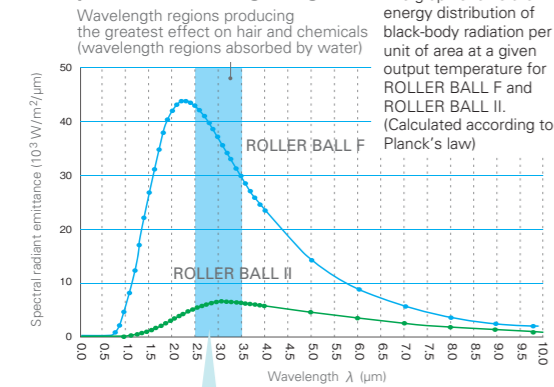
Advantage 1

Quickly Processes Colour and Perms That Last

Takara Belmont's carbon element reaches the selected output setting faster than the ceramic elements of conventional models. And, since the energy of the wavelength regions acting on the hair and chemicals is significantly higher, it thoroughly processes the colour*¹ and the chemical reaction of perms*². As a result, it improves the efficiency of work in the salon.

*1 Colour: acidic hair dyes *2 Perms: hot double-process perms

Comparison of Wavelength Regions



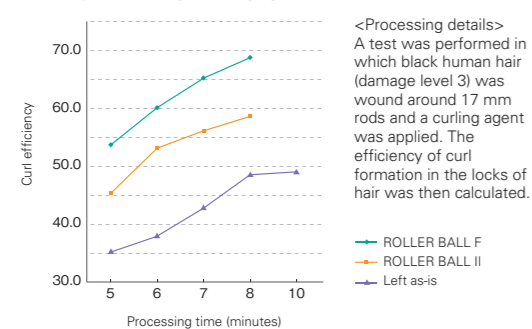
As a large amount of energy is produced in the most effective wavelength regions, the chemical process is further accelerated.

Comparison of Curling Strength (comparison using a curling agent)



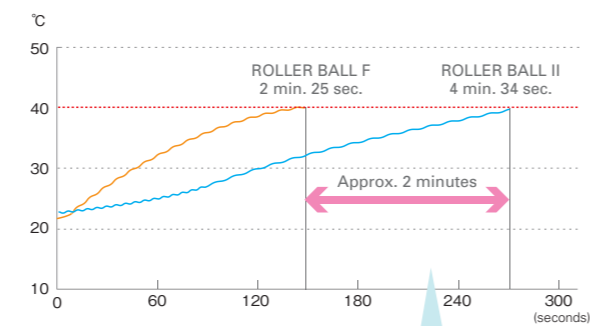
Despite the shorter exposure time of ROLLER BALL F, the chemical agents are absorbed quickly, and the curl takes full effect, all the way to the tips.

Comparison of Curling Strength (comparison using a curling agent)



Comparison of Start-up Output

(test of the time required for the surface of the hair on a wig to reach 40°C)



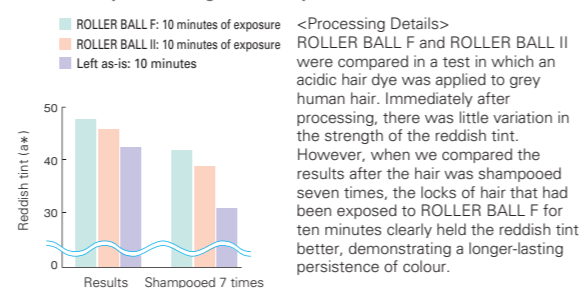
Only around two minutes to reach target temperature—approximately half the time required by a conventional ceramic element!

Degree of Penetration into Hair and Persistence (comparison using an acidic dye)



With ROLLER BALL F, the dye was absorbed and took hold evenly. Even after the hair was shampooed seven times, there was relatively little loss of colour.

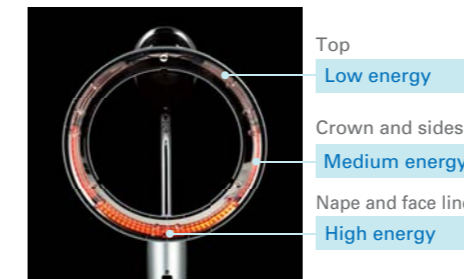
Degree of Penetration into Hair and Persistence (comparison using an acidic dye)



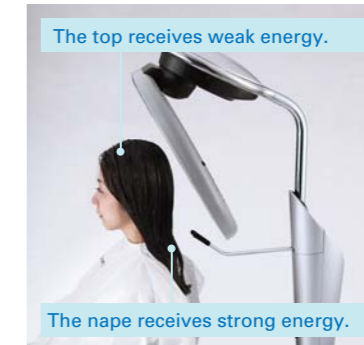
Advantage 2

Colour, Perms, and Other Treatments Are Absorbed Evenly

The element is divided into three blocks: the top; the crown and sides; and the nape and face line. By altering the amount of energy in each block, the element achieves a more uniform distribution of temperature. In the top part, where the temperature tends to be higher, the amount of energy has been set at a lower level, while in the nape region, where energy needs to be steadily applied, the amount of energy has been increased. This prevents the uneven absorption of colour, perms, and other treatments in different sections of hair and leads to a beautiful finish.



The element is divided into three blocks, with the amount of energy set to the appropriate level for each block.



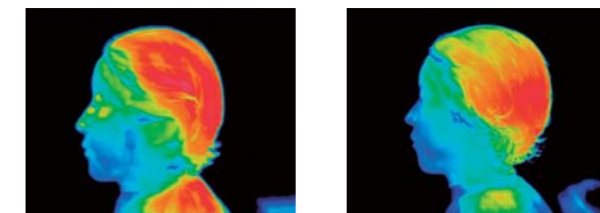
There is a uniform distribution of temperature from the top to the nape.

Advantage 3

Efficient Distribution to Only the Areas That Need It

Taking advantage of the carbon element's fast on/off response time, the controls allow you to turn the beam on and off in each of the three areas (front, sides, and nape) while the ring is rotating. You can limit the beam to only the sections that need it—for example, just to the nape. By having the beam go only to the sections of hair that have a more convoluted texture, or the sections that do not respond as quickly to the chemicals, you can provide customers with a more comfortable treatment. You can also stop the ring at the area where it is needed.

Heat: 10 minutes of exposure Partial heat: Front OFF, 10 minutes of exposure

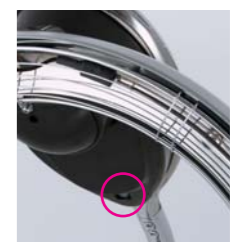


Turning off the beam to the front area, which heats up more quickly and is more sensitive to heat, slightly lowers the temperature at the sides and nape. The customer enjoys a comfortable treatment, and the technician is able to efficiently process sections that need more energy while keeping the whole area warm, leading to improved results.



A Precise Sensor for Accurate Output Control

When the colour, perm, or treatment mode is used, ROLLER BALL's unique infrared thermal sensor directly detects the temperature of the hair on the scalp and ensures that it stays at the set output level. In addition, if the head moves out of alignment during operation—for example, because the customer dozes off—or if the sensor detects a deviation from the output settings, an error alarm will go off. When an abnormal increase in output is detected, the machine also shuts down automatically for safety.



Sensor position

Designed for Better Work Performance and Ease of Use.

Easy for Anyone to Master.

Slim and Lightweight—A Feather-Light Feeling

While a conventional machine (body plus stand) weighs 22 kg, this sleek new machine weighs just 15.6 kg. It's a full 30% lighter and much easier to move for salon staff. Takara Belmont also made the machine easier to access from behind and simplified the control panel.



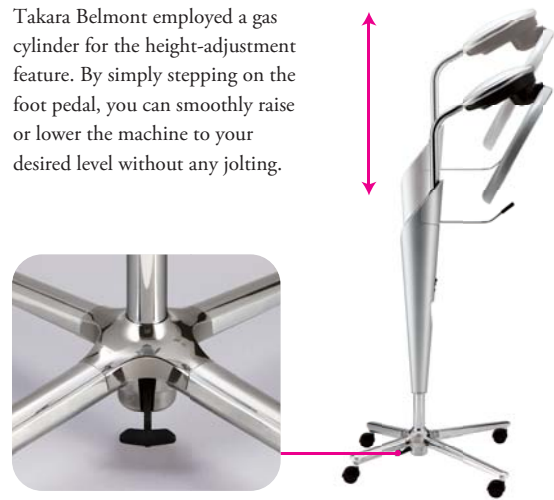
New Easy-View Control Panel

Takara Belmont rearranged the control panel and improved its visibility, so you can check the machine's operating status from a distance. It's also easy to select one of the four treatment modes—perm, colour, treatment, and manual—or one of the three sections—front, side, and nape—by simply pushing the corresponding button. In addition, a pilot lamp at the back of the main body lights up blue (when in operation) or blinks on and off (when an operation finishes, and so on) to indicate the machine's operating status.



Smoothly Slides Up and Down Using a Gas Cylinder System

Takara Belmont employed a gas cylinder for the height-adjustment feature. By simply stepping on the foot pedal, you can smoothly raise or lower the machine to your desired level without any jolting.



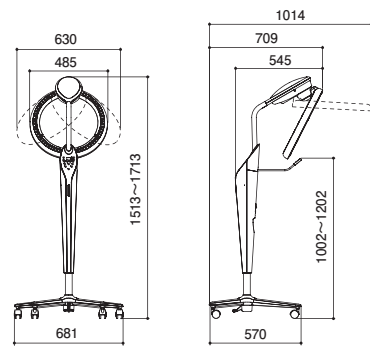
Glowing Light Indicates Changes in Temperature

When you switch the machine on, the element glows red; when the given output level is reached, it stops glowing. If the output level falls, the ring starts glowing again as it increases the output.



• Note: The brightness of the room can make it hard to see.

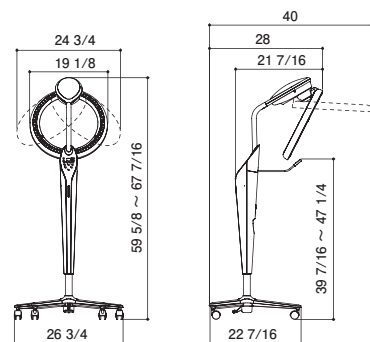
Dimensions (mm)



Specifications (mm)

- Rated voltage: 110V, 120V, 220V, 230V, 240V
 - Rated power consumption: 980 W
 - Size (WxDxH): head: 485 mm, foot: 681 mm x 1014 mm x 1513 mm [stroke: 200 mm] ● Weight: 15.6 kg
 - Environmental temperature range: 10°C~40°C
 - Environmental humidity range: 30%~85% RH
 - Cord length: 3 m ● Safety devices: tilt sensor, rotating clutch function
 - Style: stand type
- Please note that, due to ongoing improvements, measurements and specifications are subject to change without prior notice.
• Actual colour may differ somewhat due to variations in printing.

Dimensions (inch)



Specifications (inch)

- Rated voltage: 110V, 120V, 220V, 230V, 240V
 - Rated power consumption: 980 W
 - Size (WxDxH): head: 19-inch, foot: 26 3/4-inch x 40-inch x 59 5/8-inch [stroke: 7 3/4-inch] ● Weight: 34.5 lbs
 - Environmental temperature range: 50°F ~ 104°F
 - Environmental humidity range: 30%~85% RH
 - Cord length: 10 ft ● Safety devices: tilt sensor, rotating clutch function
 - Style: stand type
- Please note that, due to ongoing improvements, measurements and specifications are subject to change without prior notice.
• Actual colour may differ somewhat due to variations in printing.

Variations

Creative Model (one-tone specification)



Creative Model

(two-tone specification; colour-combination example)



About the Creative Model, Two-Tone Specification

In addition to the one-tone specification, the Creative model is also available in a two-tone specification with different colours for the body and top cover. Choose the combination you like from five colours for the body and seven colours for the top-cover. (Note: The ring is available in grey only.)

Top-Cover Colours for the Two-Tone Specification

These are the colours that are available for the top-cover.



Body	Top cover
AK-S23S-SL□ (Silver)	S (Silver)
AK-S23S-R□ (Red)	R (Red)
AK-S23S-Y□ (Yellow)	Y (Yellow)
AK-S23S-O□ (Orange)	O (Orange)
AK-S23S-GR□ (Metallic green)	G (Metallic green)
	P (Pink)
	I (Indigo blue)

• Enter the top cover colour code in the "□" space of the two-tone specification model number.

Example For body colour: red, top-cover colour: silver, enter: AK-S23S-RS
For body colour: silver, top-cover colour: red, enter: AK-S23S-SLR

Standard Model

