

# DAEJONG MEDICS CO.,LTD

## MTS Skin Roller

Patent : 10-0794640



### Galvanic Roller & Stamp

1. Skin Roller (Derma Roller)
2. Skin Roller (Double Type)
3. Skin Stamp (Derma Stamp)
4. Massage Roller

## Revolutionary 4<sup>th</sup> Generation Skin Care Solution

Renaissance in Beauty – “ Microneedle Injection System”

- Simple not satisfied with laying over cosmetics
- Effective system infiltrating healthy ingredients into skin
- “Return 10 years of time back to you” with outstanding skin restoring medical solution

## Effects of Needling & Healthy Ingredient Infiltration

In general, the probability of healthy ingredients passing the horny layer through intercellular routes of skin cells is just about 0.3% per each usage (with microneedle 4000% up). Even with that, the effect reaching to the required areas can not be obtained due to the unique reactive skin cell characteristics such as cornification & etc.

With much laborious effect & 30 years of artisanship, the luxury cosmetic SKIN ROLLER (patent # 2007-0010..) has been developed utilizing the fine needle in order to maximize the healthy ingredients infiltration effect into skin, inventing new, wonderful Drug Delivery System offering surprising effect directly passing the epidermis & dermis through Trans-cellular Route.

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## Natural formation of collagen !!

### Now, share it with the skin roller

Collagen, which accounts for one third of the body's protein, is an important ingredient to form the dermal layer of skin and the result of aging on dermal causes wrinkles.

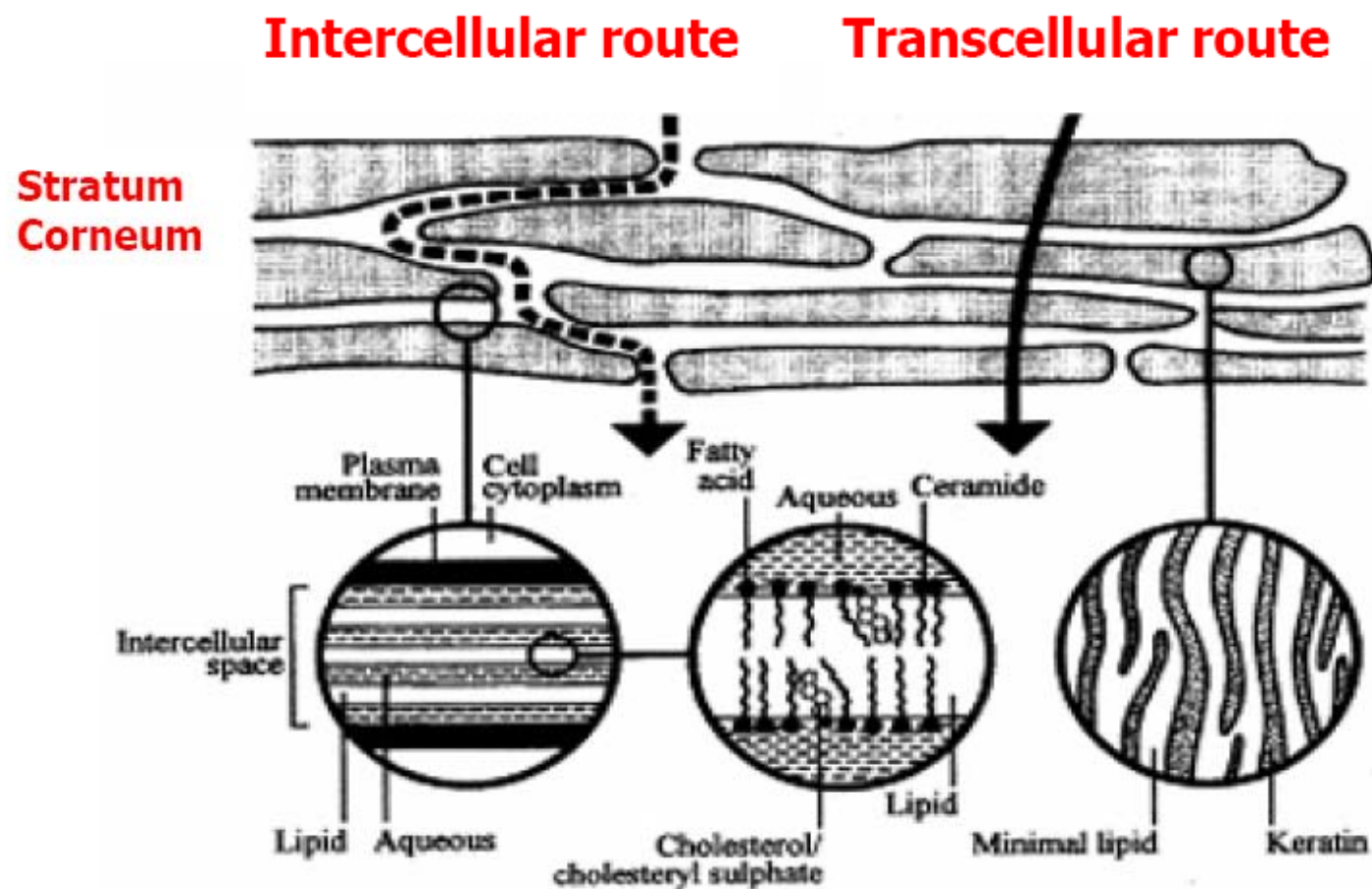
Collagen synthesis in the body is very active until the age of almost 20 and it is supplied to most areas of our body. However, when a person reaches the age of 25, the ability to synthesize collagen is sharply declining and this leads to decline of skin elasticity and causes many skin problems including wrinkles.

Skin roller makes fine passages on the skin and radically increases the permeation of effective skin care ingredients to dermal layer. Naturally formed collagen to block the fine passages causes by needles is effective in improving skin's elasticity and wrinkles and show whitening effect.

As vitamin C, retinol and glycolic acid promote collagen synthesis, these help you can get better effect.

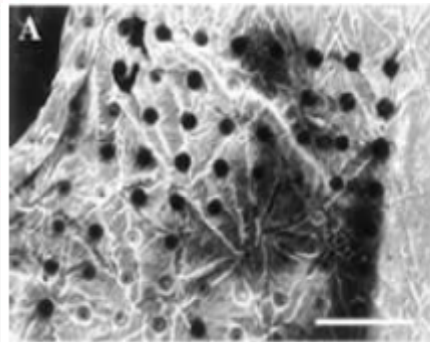
# Effectiveness of Needling

Cosmetic Version – Transcellular route

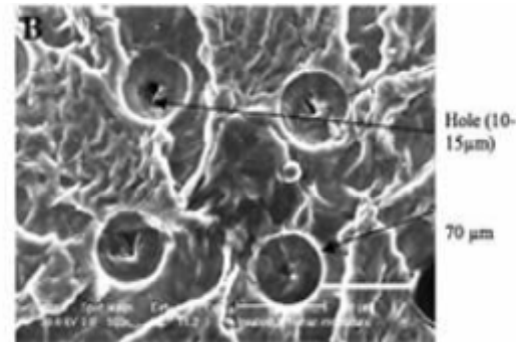




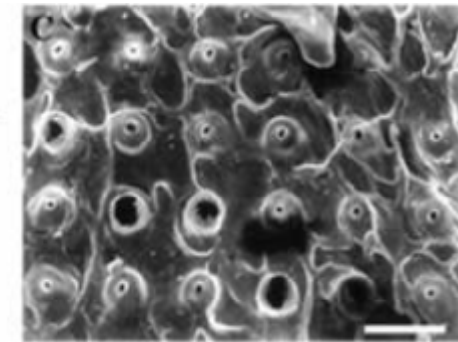
## Needle Channel Picture



**Needling Holes  
Observed through  
Low magnification  
Microscope.**



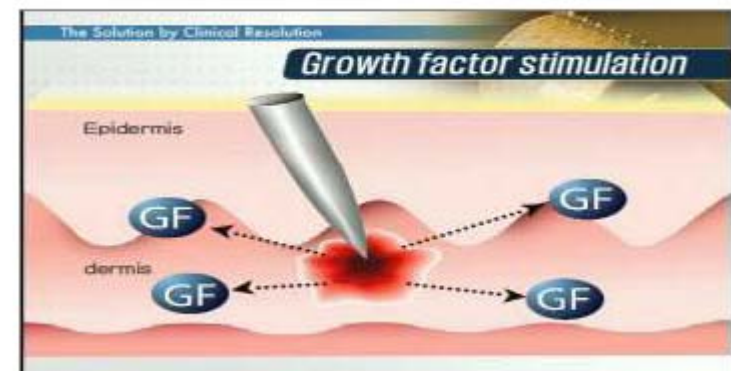
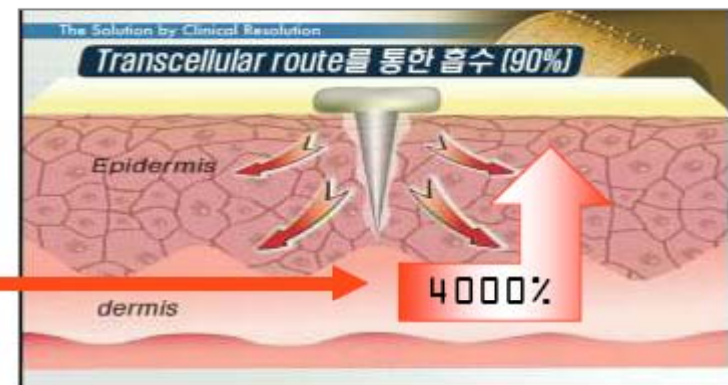
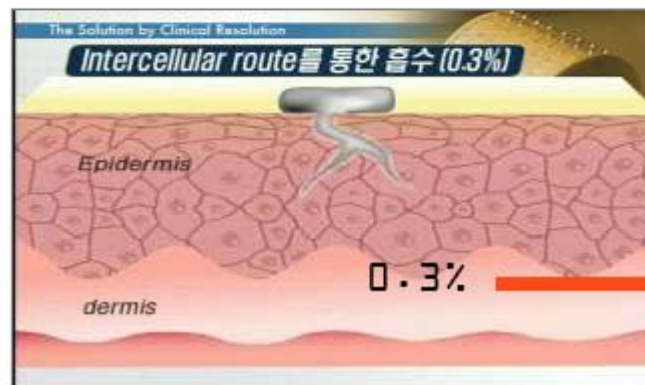
**Photograph  
showing  
No Inflammation or  
Edema Symptoms  
around the Holes.**



**Photograph comparing the  
sizes of Needling Holes with  
Skin Pores through High  
Magnification Microscope,  
showing the size of  
Needling Hole is larger than  
the common Skin Pore to  
result in the high delivery  
effectiveness of medicines  
to True Skin area.**

## Absorption ratio through the needling

### Contracture of New Drug Delivery system through Transcellular Route



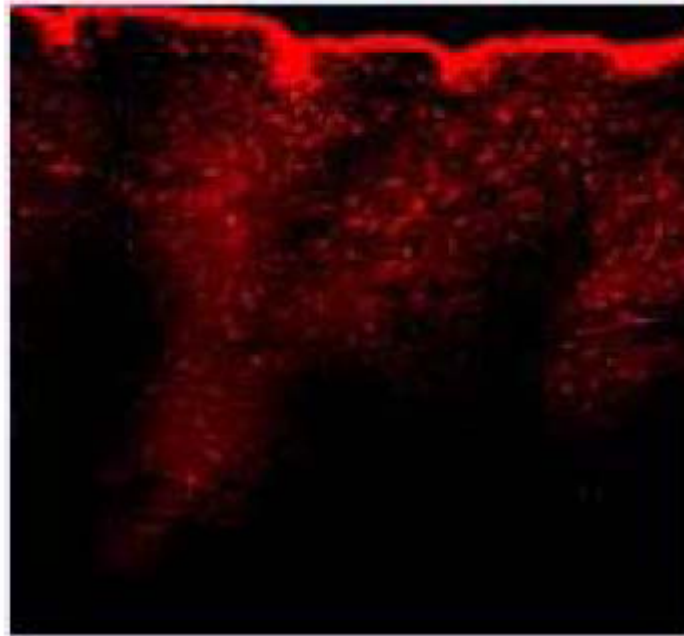
MTS

SKIN

ROLLER

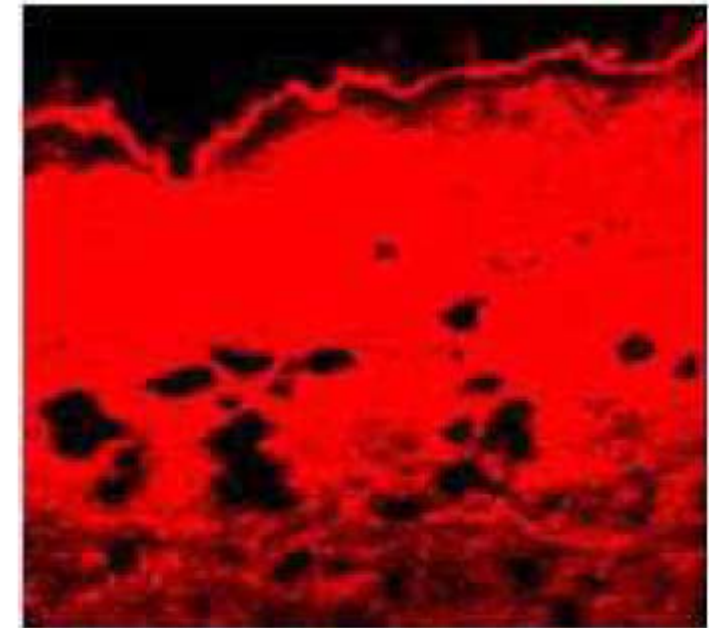
## Needling Effectiveness

Infiltration shape of Epidermis



Normal creaming 0.3%

Penetration



Creaming + Needling (4,000% Up)

Confocal laser pictures taken by the University of Marburg/Germany



## History for the needles

### Development of SKIN ROLLER



**Microfabricated  
Microneedle  
Stamp**



**Derma  
Roller**



**M.T.S  
Roller**



**SKIN Roller**

**Disposable Roller**

**Easy sterilization**



## Skin Roller Applications

- Someone who has troubles with wrinkles
- Someone who wants clean and clear skin
- Someone who has rough skin due to pimples
- Someone who wants to heal chapped skin or cellulites
- Someone who wants to recover skin from injury of surgery

## Instruction for use

Make the area to get dense performing with the needling vertical, horizontal and diagonal procedure on it.

After spreading efficacious components, repeat twice the above steps

⇒ Do not repeat on the same area.

⇒ The necessary time of needling procedure is ten minutes.

Take a rest in about 5 – 10 minutes after spreading efficacious components for releasing the skin.

## Skin Roller Effect

Note the improvement of Acne scars and Large pores



Before



After

## Skin Roller Effect

Note the improvement of Acne scars



Before



After



## Galvanic Skin Roller Specification

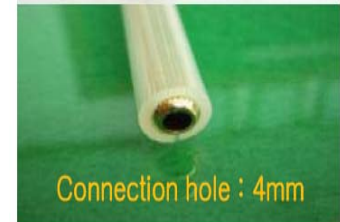


Silicone Cap



- Overall Length : 13cm(H) x 2.5cm(V)
- Cylindrical shape (lines) : 8/10  
(for clinical application)
- Number of needles per line : 26 each  
(Total no. of needles : 192/260 ea)
- Needle : Proceeded with special corrosion resistant process
- Body material : Brass (gold plated)
- Silicone grip for non slip
- Connection hole for galvanic (option)
- No nickel (Rhodium use)
- High temperature silicon glue use : 300℃  
=> Auto clave can be used for sterilization
- Thickness of needle : 0.25 / 0.3mm
- Length of needle : 02 – 2.0mm
- Material : stainless steel(SUS 316)  
for medical purpose
- Patented technology :

Skin stimulator roller manufacturing process  
(patent # 2007-0010..)



## Size of Skin Roller

Model	Size of Needle	Diameter of Needle	Arrange ment	Size of the body		Remarks
				Width	Length	
SR 1	0.2mm	0.25mm	4(96pins)	1.5cm	13cm	Personal use
SR 2	0.2mm	0.25mm	8(192pins)	2.5cm	13cm	Personal use
SR 3	0.25mm	0.25mm	8	2.5cm	13cm	Personal use
SR 4	0.4mm	0.25mm	8	2.5cm	13cm	Hospital
SR 5	0.6mm	0.25mm	8	2.5cm	13cm	Hospital
SR 6	1.0mm	0.3mm	8	2.5cm	13cm	Hospital
SR 7	1.5mm	0.3mm	8	2.5cm	13cm	Hospital
SR 8	2.0mm	0.3mm	8	2.5cm	13cm	Hospital
SR 9	0.25mm	0.25mm	10(260pins)	2.5cm	13cm	Personal use
SR10	0.5mm	0.25mm	10	2.5cm	13cm	Hospital
SR11	1.0mm	0.3mm	10	2.5cm	13cm	Hospital
SR12	1.5mm	0.3mm	10	2.5cm	13cm	Hospital
SR13	2.0mm	0.3mm	10	2.5cm	13cm	Hospital

## Galvanic Skin Roller (double)

Galvanic double type skin roller has been developed for easier and prompt procedure to the whole body.

### Specification of Galvanic skin roller (double)

- Overall length : 13cm (H) x 5.5cm (V)
- Cylindrical shape (lines) : 810 \*2 (for clinical application)
- Number of needles per line L 26\*2 each  
(Total quantity of needles : 384 / 520 ea)
- Needle : proceeded with special corrosion resistant process
- Silicone coated (for pain relief)
- Body material : Brass (gold plated)
- Silicone grip for non slip
- Connection hole for galvanic (option) : 4mm
- Thickness of needle : 0.25mm
- Length of needle : 0.25 – 2.0 mm
- Material : stainless steel for medical purpose





## Galvanic Skin Stamp

Galvanic skin stamp is used at the region of eye rims or nose, where the operation is difficult, for convenient procedure. It can be easily used providing less pain comparing with roller.

### Specification of Galvanic skin stamp

- Overall length : 12cm(H) x 2.6cm(W) x 1.6cm(L)
- Total quantity of needle : 142 pins
- Needle : proceeded with special corrosion resistant process
- Silicone coated (for pain relief)
- Connection hole for galvanic (option) : 4mm
- Thickness of needle : 0.25 / 0.3 mm
- Length of needle : 0.2, 0.25, 0.5, 1, 1.5, 2.0 mm
- Material : stainless steel (SUS 316)
- No Nickel



## Size of Skin Stamp

Model	Size of Needle	Diameter of Needle	Arrange Ment	Size of the body		Remarks
				Width	Length	
SS 1	0.2mm	0.25mm	142pins	2.6cm	1.8cm	Personal use
SS 2	0.25mm	0.25mm	142pins	2.6cm	1.8cm	Personal use
SS 3	0.5mm	0.25mm	142pins	2.6cm	1.8cm	Hospital
SS 4	1.0mm	0.3mm	142pins	2.6cm	1.8cm	Hospital
SS 5	1.5mm	0.3mm	142pins	2.6cm	1.8cm	Hospital
SS 6	2.0mm	0.3mm	142pins	2.6cm	1.8cm	Hospital

*We can supply other sizes by buyer's require(0.2~2mm)*

# Galvanic Massage Roller

Galvanic skin massager would be used without burden for the patients who are repulsed by the procedure with needles of skin roller or stamp. It relaxes the loose muscle of face, neck and chin in knots, and soothes the puffy skin and makes the skin brighter by enhancing its bloodstream (available to the entire body)  
Galvanic unit assists to absorb cosmetics better, activate the skin cells and improve blood circulation.

## Specification of Galvanic skin massager

- Overall length : 13cm (H) x 2.5cm(V)
- Cylindrical shape (lines) L 12 lines
- Number of circular cone per line : 8 each  
Total quantity of circular cone : 96 ea
- Body material : brass (gold plated)
- Silicone grip for non slip
- Connection hole for galvanic (option 4mm)
- Double types of skin massager  
=> Quantity of circular cone 192 ea





# Skin Pixel for Galvanic products

## ■ What is SKIN-PIXEL ?

This is a skin care treatment for wrinkle reduction, pore tightening, skin whitening, etc through natural regeneration of skin by electric stimulation and minor scratches using a roller with 260 micro needles which flows galvanic direct current into the skin.



## ■ Characteristics of SKIN-PIXEL ?

- With 260 specially designed micro needles, this treatment enables permeating effective ingredients into the skin through micro channels penetrating to the dermis.
- Short treatment time possible
- Safe to skin tissues because it uses weak current



Used with derma products



# Questions ?

## **Daejong Medics Co.,Ltd**

#403 Daeguntown 275-29 Seongsu 2-Ga 3-Dong,  
Seongdong-Gu, Seoul, Korea

Tel : 82-2-64078210, Fax : 82-2-64078215,

Contact point: Joonseong Park, General director

CP : 82-10-72298359 / jnspark@hanmail.net