

# Labstamp: An Alternative Method of ID via Automated Tail Tattoos

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# Identification

## **ID needs:**

- Weaning
- Genotyping
- Picking/Packing
- Moving from one area to another
- Study Cohorts
- Individual tracking

## **Choice considerations:**

- Purpose of ID
- Value of animal
- Duration needs of markings
- Age at time of ID
- Equipment requirements
- Overall cost

# Common Identification Methods

Ear Notching

Ear Tags

'Sharpie'

Toe Clipping

Tattoos

Micro Chips

# SOMARK Labstamp System automated tail tattoo's

- Consistent
- Easy to read
- Efficiently Applied
- Permanent ID

# SOMARK Labstamp System automated tail tattoo applicator

- Repeatable
- User-Friendly
- Fast (30 sec)
- Character flexibility
- Minimal animal stress & handling

# Labstamp System

## Tattoo Quality

Tattoo quality factors:

Ability to Control Motion

Tattoo Needle Depth of Penetration

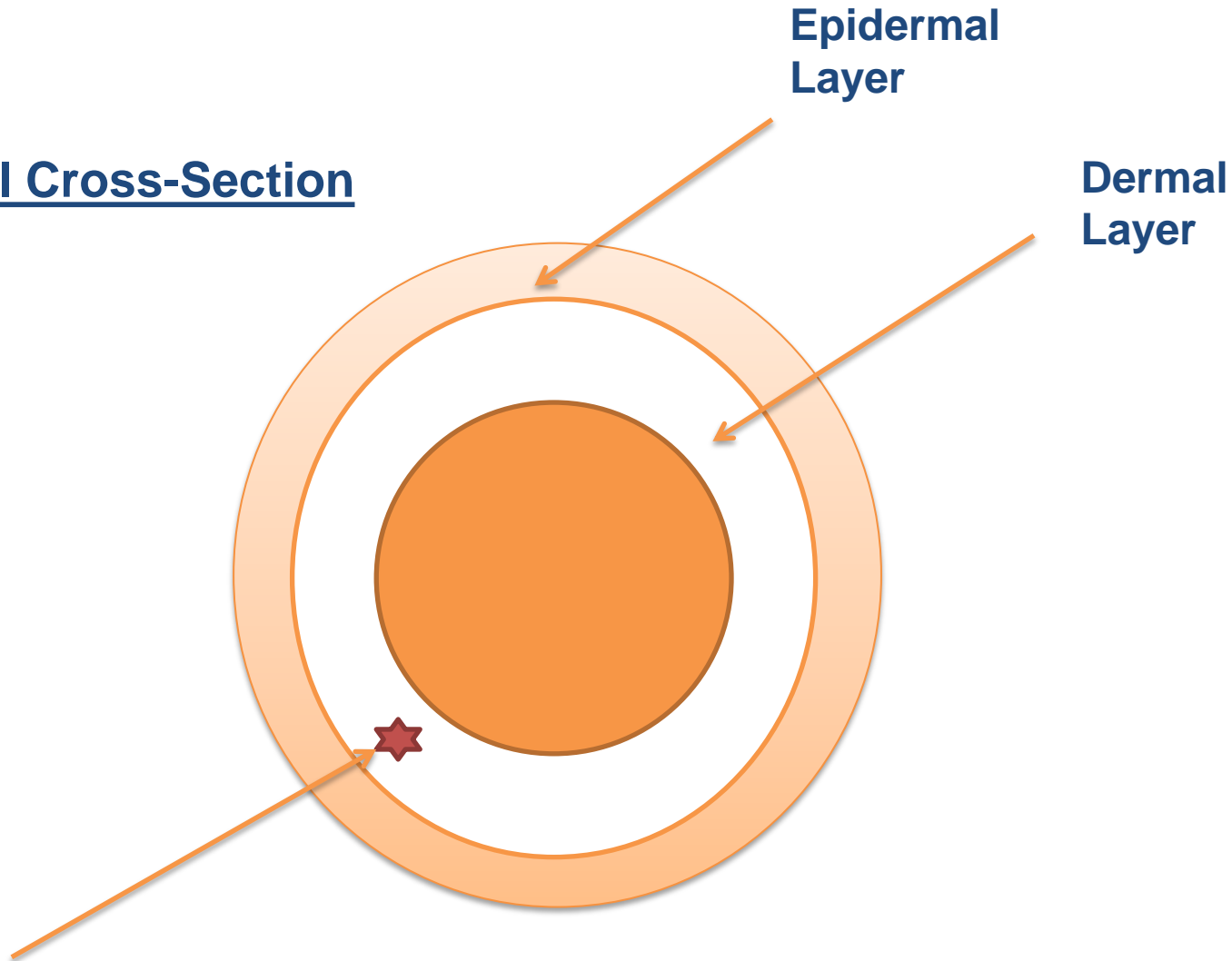
Amount of tissue damage

# Labstamp System

## Tattoo Quality

- Automated robotic arm within applicator
  - Accurately controls speed, dwell, and frequency of tattoo needle
- Needle depth and motion control by robotic arm coupled with animal restraint
  - Provides uniformity of tattoo application on the varying tail shapes and sizes
- Consistency and control decrease amount of tissue damage to tail

## Tail Cross-Section



Labstamp robotic arm moves accurately and consistently, delivering tattoo ink into the mid-dermal layer at a uniform mean target depth of 0.009" (225 $\mu$ m)  $\pm$ 0.002" ( $\pm$ 50 $\mu$ m).

# SOMARK Labstamp System automated tail tattoo applicator





# Restrain Mouse



Apply Tail Oil

# Insert Ink Slide Into Tail Cover





**Place Tail Cover Onto Tail**



**Insert Restraint  
Cartridge Into Machine**



Enter ID



Press  
Start

Wipe-off  
Excess ink



**S O M A R K**  
L A B S T A M P™



**Watch the Labstamp  
video demo at:  
[www.labstamp.com](http://www.labstamp.com)**