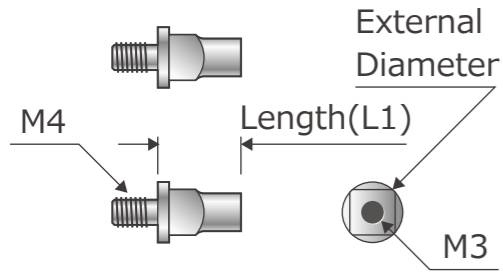


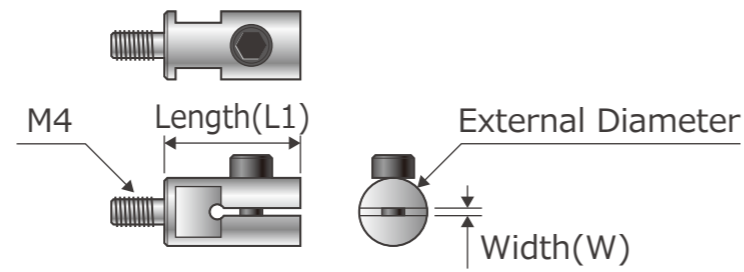
Chuck

For Metal Bond-Diamond Tips SKB



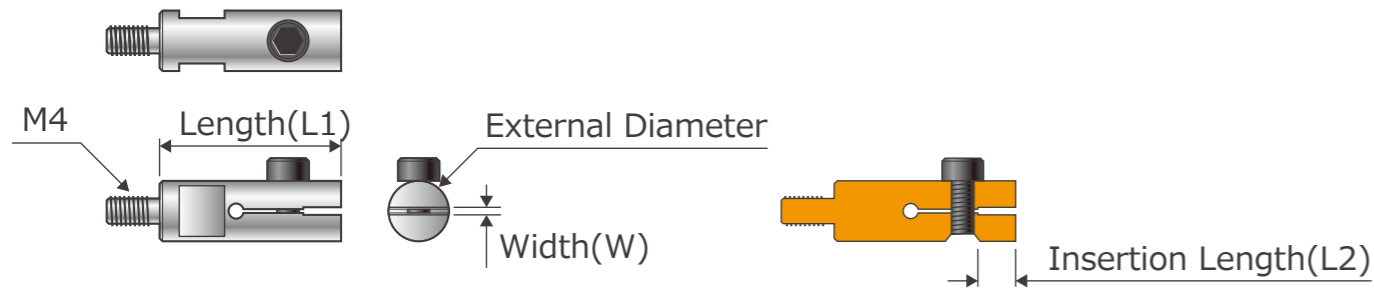
| Part No. | External Diameter/mm | Screw Diameter/mm | Length(L1)/mm |
|----------|----------------------|-------------------|---------------|
| SKB | Φ8 | M3 | 11 |

For Electroplated Diamond Tips (Flat) STA 11-18



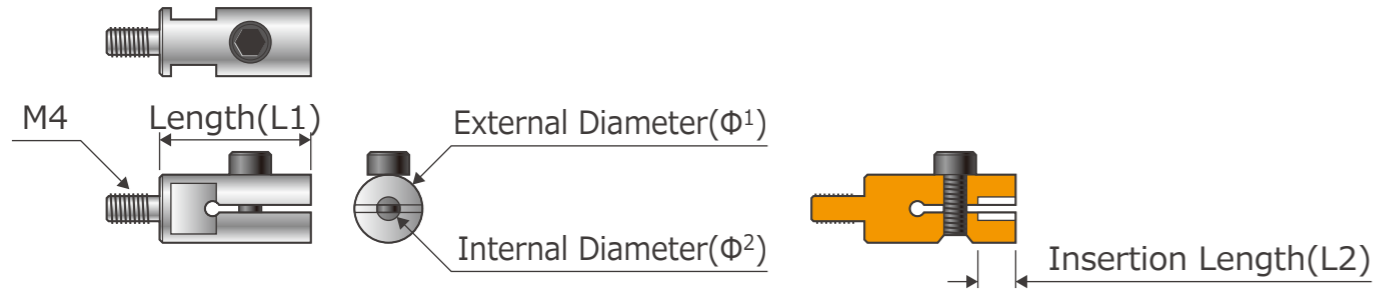
| Part No. | External Diameter/mm | Width(W)/mm | Length(L1)/mm |
|----------|----------------------|-------------|---------------|
| STA11-18 | Φ8 | 1.1 | 18 |

For Ceramic Stone (Flat) STA 06L/11L/21L



| Part No. | External Diameter/mm | Width(W)/mm | Length(L1)/mm | Insertion Length(L2)/mm |
|----------|----------------------|-------------|---------------|-------------------------|
| STA06L | Φ8 | 0.6 | 24 | 5 |
| STA11L | Φ8 | 1.1 | 24 | 5 |
| STA21L | Φ8 | 2.1 | 24 | 5 |

For Ceramic Stone (Round) / Wood Tips / Brass SNE 24/31/54



| Part No. | External Diameter(Φ ¹)/mm | Internal Diameter(Φ ²)/mm | Length(L1)/mm | Insertion Length(L2)/mm |
|----------|---------------------------------------|---------------------------------------|---------------|-------------------------|
| SNE24 | Φ8 | Φ2.4 | 20 | 5 |
| SNE31 | Φ8 | Φ3.1 | 20 | 5 |
| SNE54 | Φ9 | Φ5.4 | 20 | 5 |

●The design and specifications are subject to change without prior notice for product improvement.
●Please use our genuine products for the chucks and tips.

Manufacturer And Seller
SANWA SHOKO CO.,LTD.
 2-21-4 Hatagaya, Shibuya-ku, Tokyo,151-0072, Japan
 TEL : 81-3-3376-3464 FAX : 81-3-3374-0346
 E-mail sanwa.shoko@nifty.com
 URL http://www.sanwashoko.co.jp

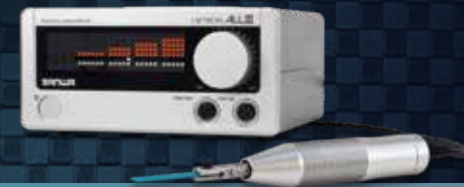
Agent

Sales division:+81-3-3376-3464

※Please specify "Part No." when placing an order.
 ※For some products, there may be only a few products left in stock. Please check the inventory status with our company before placing an order.

SANWA

LAPTRON ALL III



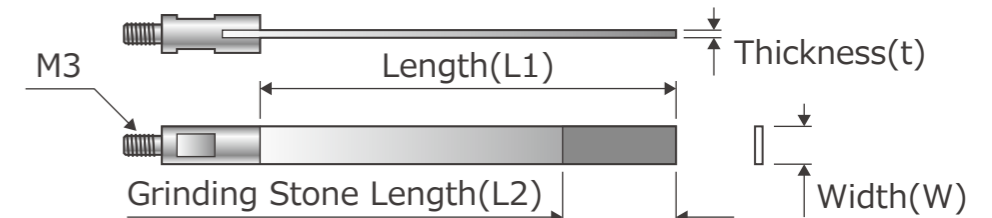
Catalog for Standard Tips

Our product lineups include various types of standard tips that are capable of dealing with various types of lapping, including removal of pick feed direction lines, hardened layers of plastic, and pressed die-cast molds.

Metal Bond-Diamond Tips 【Flat】

New diamond abrasive grains come out as the tip surface becomes worn, which enables lapping under the same operating conditions for a longer period of time than the electroplated file.

Chuck Used

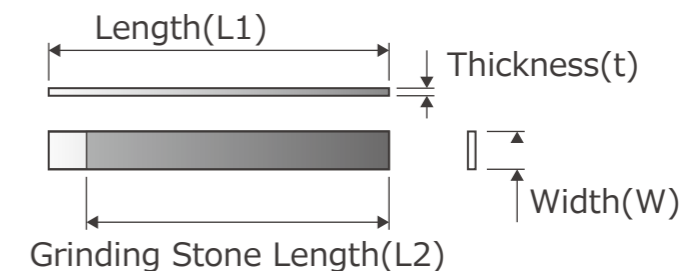
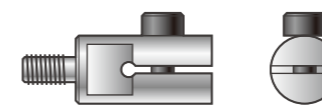


| Part No. | Grit(#) | Length(L1)/mm | Grinding Stone Length(L2)/mm | Width(W)/mm | Thickness(t)/mm |
|----------|---------|---------------|------------------------------|-------------|------------------------|
| SL 201 | 200 | 25 | 15 | 1 | 1.0 |
| SL 401 | 400 | 25 | 15 | 1 | 1.0 |
| SL 601 | 600 | 25 | 15 | 1 | 1.0 |
| SL 202 | 200 | 25 | 15 | 2 | 1.0 |
| SL 402 | 400 | 25 | 15 | 2 | 1.0 |
| SL 602 | 600 | 25 | 15 | 2 | 1.0 |
| SL 204S | 200 | 25 | 15 | 4 | 0.5 / 0.7 / 0.85 / 1.0 |
| SL 404S | 400 | 25 | 15 | 4 | 0.5 / 0.7 / 0.85 / 1.0 |
| SL 604S | 600 | 25 | 15 | 4 | 0.5 / 0.7 / 0.85 / 1.0 |
| SL 204M | 200 | 35 | 20 | 4 | 0.5 / 0.7 / 0.85 / 1.0 |
| SL 404M | 400 | 35 | 20 | 4 | 0.5 / 0.7 / 0.85 / 1.0 |
| SL 604M | 600 | 35 | 20 | 4 | 0.5 / 0.7 / 0.85 / 1.0 |
| SL 204L | 200 | 45 | 25 | 4 | 0.5 / 0.7 / 0.85 / 1.0 |
| SL 404L | 400 | 45 | 25 | 4 | 0.5 / 0.7 / 0.85 / 1.0 |
| SL 604L | 600 | 45 | 25 | 4 | 0.5 / 0.7 / 0.85 / 1.0 |
| SL 205MH | 200 | 35 | 15 | 5 | 1.0 |
| SL 405MH | 400 | 35 | 15 | 5 | 1.0 |
| SL 605MH | 400 | 35 | 15 | 5 | 1.0 |
| SL 206MH | 200 | 35 | 15 | 6 | 1.0 |
| SL 406MH | 400 | 35 | 15 | 6 | 1.0 |
| SL 606MH | 600 | 35 | 15 | 6 | 1.0 |

Electroplated Diamond Tips 【Flat】

High-density diamond grinding stones are coated with the electroplating, which enables lapping with high cutting performance.

Chuck Used

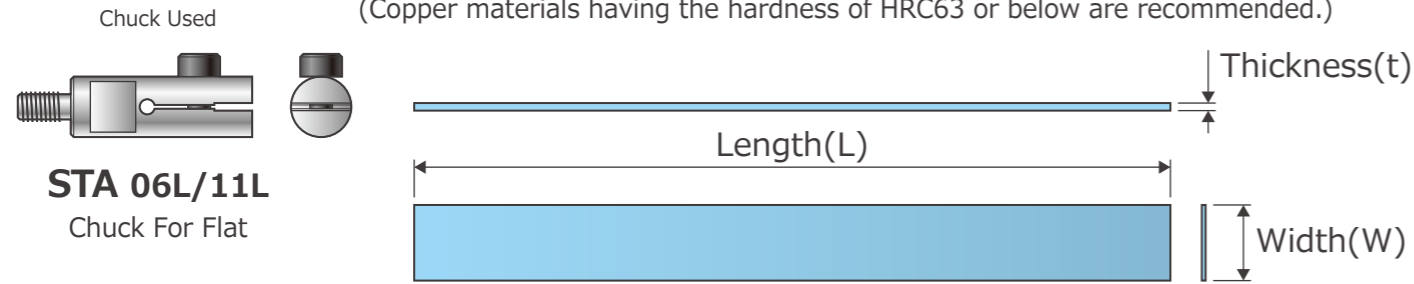


| Part No. | Grit(#) | Length(L1)/mm | Grinding Stone Length(L2)/mm | Width(W)/mm | Thickness(t)/mm |
|-----------|---------|---------------|------------------------------|-------------|-----------------|
| SL 205-45 | 200 | 45 | 40 | 5 | 1.0 |

Ceramic Stone [Flat]

Suitable for use with a wide area because the profile can be easily changed according to the area to be lapped.

(Copper materials having the hardness of HRC63 or below are recommended.)

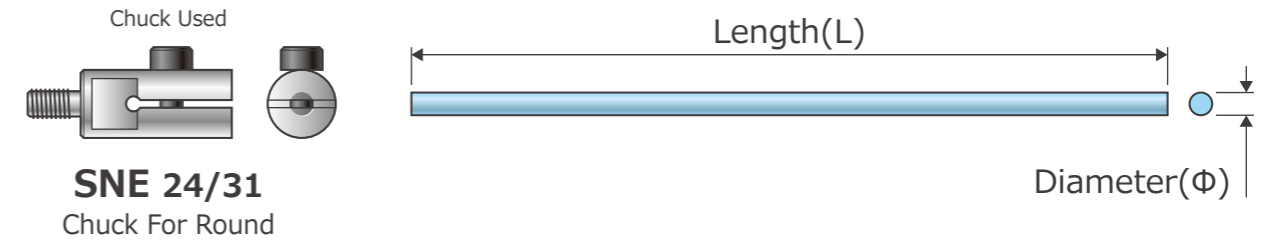


| Part No. | Grit(#) | Color | Length(L)/ mm | Width(W)/ mm | Thickness(t)/ mm | Chuck Used |
|----------|---------|-------|---------------|--------------|------------------|------------|
| SB101 | 800 | Blue | 100 | 1 | 1.0 | STA11L |
| SB102 | 800 | Blue | 100 | 2 | 1.0 | STA11L |
| SB104 | 800 | Blue | 100 | 4 | 1.0 | STA11L |
| SB106 | 800 | Blue | 100 | 6 | 1.0 | STA11L |
| SB110 | 800 | Blue | 100 | 10 | 1.0 | STA11L |
| SB501 | 800 | Blue | 100 | 1 | 0.5 | STA06L |
| SB502 | 800 | Blue | 100 | 2 | 0.5 | STA06L |
| SB504 | 800 | Blue | 100 | 4 | 0.5 | STA06L |
| SB506 | 800 | Blue | 100 | 6 | 0.5 | STA06L |
| SB510 | 800 | Blue | 100 | 10 | 0.5 | STA06L |
| SW101 | 1000 | White | 100 | 1 | 1.0 | STA11L |
| SW102 | 1000 | White | 100 | 2 | 1.0 | STA11L |
| SW104 | 1000 | White | 100 | 4 | 1.0 | STA11L |
| SW106 | 1000 | White | 100 | 6 | 1.0 | STA11L |
| SW110 | 1000 | White | 100 | 10 | 1.0 | STA11L |
| SW501 | 1000 | White | 100 | 1 | 0.5 | STA06L |
| SW502 | 1000 | White | 100 | 2 | 0.5 | STA06L |
| SW504 | 1000 | White | 100 | 4 | 0.5 | STA06L |
| SW506 | 1000 | White | 100 | 6 | 0.5 | STA06L |
| SW510 | 1000 | White | 100 | 10 | 0.5 | STA06L |
| SR101 | 1200 | Red | 100 | 1 | 1.0 | STA11L |
| SR102 | 1200 | Red | 100 | 2 | 1.0 | STA11L |
| SR104 | 1200 | Red | 100 | 4 | 1.0 | STA11L |
| SR106 | 1200 | Red | 100 | 6 | 1.0 | STA11L |
| SR110 | 1200 | Red | 100 | 10 | 1.0 | STA11L |
| SR501 | 1200 | Red | 100 | 1 | 0.5 | STA06L |
| SR502 | 1200 | Red | 100 | 2 | 0.5 | STA06L |
| SR504 | 1200 | Red | 100 | 4 | 0.5 | STA06L |
| SR506 | 1200 | Red | 100 | 6 | 0.5 | STA06L |
| SR510 | 1200 | Red | 100 | 10 | 0.5 | STA06L |
| SG101 | 3000 | Gray | 100 | 1 | 1.0 | STA11L |
| SG102 | 3000 | Gray | 100 | 2 | 1.0 | STA11L |
| SG104 | 3000 | Gray | 100 | 4 | 1.0 | STA11L |
| SG106 | 3000 | Gray | 100 | 6 | 1.0 | STA11L |
| SG110 | 3000 | Gray | 100 | 10 | 1.0 | STA11L |
| SG501 | 3000 | Gray | 100 | 1 | 0.5 | STA06L |
| SG502 | 3000 | Gray | 100 | 2 | 0.5 | STA06L |
| SG504 | 3000 | Gray | 100 | 4 | 0.5 | STA06L |
| SG506 | 3000 | Gray | 100 | 6 | 0.5 | STA06L |
| SG510 | 3000 | Gray | 100 | 10 | 0.5 | STA06L |

Ceramic Stone [Round]

Effective in lapping of curved surfaces, hole shapes, etc.

(Copper materials having the hardness of HRC63 or below are recommended.)

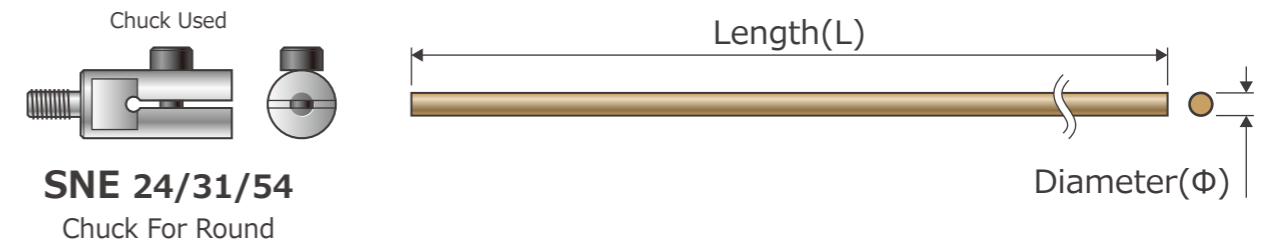


| Part No. | Grit(#) | Color | Length(L)/ mm | Diameter(Φ)/ mm | Chuck Used |
|----------|---------|-------|---------------|-----------------|------------|
| SBD2 | 800 | Blue | 100 | Φ2.35 | SNE 24 |
| SBD3 | 800 | Blue | 100 | Φ3.00 | SNE 31 |
| SWD2 | 1000 | White | 100 | Φ2.35 | SNE 24 |
| SWD3 | 1000 | White | 100 | Φ3.00 | SNE 31 |
| SRD2 | 1200 | Red | 100 | Φ2.35 | SNE 24 |
| SRD3 | 1200 | Red | 100 | Φ3.00 | SNE 31 |
| SGD2 | 3000 | Gray | 100 | Φ2.35 | SNE 24 |
| SGD3 | 3000 | Gray | 100 | Φ3.00 | SNE 31 |

Wood Tips/Brass

The wood tips are best suited for finish lapping. They are used together with diamond paste.

The brass tips are used for polishing without damaging the mold.



| Part No. | Material | Length(L)/ mm | Diameter(Φ)/ mm | Order Quantity/stick | Chuck Used |
|----------|----------|---------------|-----------------|----------------------|------------|
| HW 2 | Ebony | 150 | Φ2 | 10 | SNE 24 |
| HW 3 | Ebony | 150 | Φ3 | 10 | SNE 31 |
| HW 5 | Ebony | 150 | Φ5 | 10 | SNE 54 |
| SW 3 | Bamboo | 150 | Φ3 | 10 | SNE 31 |
| SW 5 | Willow | 200 | Φ5 | 200 | SNE 54 |
| BRS 2 | Brass | 65 | Φ2 | 10 | SNE 24 |
| BRS 3 | Brass | 50 | Φ3 | 10 | SNE 31 |

Mounting the tip

Attach the required tip to the tip of the hand tool. When attaching a tip, be sure to use the tip-fastening jig included with the product and securely fasten with the tip-fastening spanner.

※Depending on the type of tip in use, output power may not reach the set value. Please Adjust the intensity of supersonic vibrations by turning the output adjustment knob.

