TOOLS FOR SEMICONDUCTOR INDUSTRIES

SPARE PARTS for SEMICONDUCTOR ASSEMBLY and TESTING

ORUTE CORPORATION
1 Processing Jigs

Eutetic Die Collet (Tungsten Carbide)

Highly polished slanted side provides smooth control of die positioning. Usually supplied with 90D inside angle so that 50% of the die thickness engaged and 50% is exposed.

4 sided collet (inverted pyramid style) has the advantage of absolute control of positioning of the die. Internal Corner Reliefs to prevent the damage at die edge are made as standard.

2 sided collet (channel style) has the advantage to provide additional clearance on each end used to place the adjacent to a wall or another device.

Custom designed collet is available on request.
Material: Tungsten Carbide

Spring Lorded Flat Collet

Coil Spring lorded in the collet shank absorb the mechanical shock and reduce the damage on the die surface.
Tip Material: Tungsten Carbide. Smallest ID=0.08, OD=0.2

Plastic Flat Collet/Pickup Tools

In order to pick up the sensitive die with less damage on the die surface, we make the tip by various kinds of engineering plastics. In order to save the natural resources and cost, we replace the plastic tip by new one on request.
Material: Shank SUS303
Tip: Polyimide, Teflon, PEEK.

New Product: We have developed new pick-up tools for high temperature and long life.
Tip material: Celazole PBI
(Please refer PBI/Celazole products Catalog for detail)

Stamping Tools

1. Bar Type Recommend for die size 0.2mm - 1mm
2. Star Type Recommend for die size 0.75mm - 5mm
3. Pin Pattern Recommend for die size 1.5mm x 1.5mm ++

Material: SUS303

We design the custom made on request.
Epoxy Dispensing Nozzles

We design and supply Epoxy Dispensing Nozzles that will help to solve inconsistent epoxy problems like tailing, bridging, void and insufficient epoxy coverage.
3 main styles are available.
MATRIX, STAR, INTERLOCKING

Minimum center pitch.
25G 2pin nozzle 0.76mm

Replaceable Rubber Tip

We recommend Replaceable Rubber Tip where metal pickup tool or even plastic pickup tool may damage the die.
Operator can replace the Rubber Tip easily and economical.
Tip Shape Round, Rectangular, Square
The Smallest Tip Size:
Round: OD=0.15 ID=0.08
Square: L=0.15 W=0.15 ID=0.076
Rectangular: L=0.406 W=0.24 ID=0.13

We make Rubber Tip Holders for Replaceable Rubber Tips.

Die Ejector Pins

Die Ejector Pins push up through expanding PVC adhesive film, pushing off the adhesive film allowing the collet or pickup tool to pick up the die.
Material: Tungsten Carbide, Piano Wire, Tungsten
We make Ejector Pin with Diamond Tip
Diameter: D=0.45mm, 0.5mm, 0.65mm, 0.68mm, 0.7mm
Taper Angle: 10°, 15°, 20°
Spherical Radius: The smallest R=0.012mm
Length: From 10mm
**Heart Plate and Window Clamper**

We make the island part of heater plate by EDM, therefore we can make the island in any shape on customer's request. Multi islands type is also available. Window Clamper is made of stainless steel which is easily warp during heat treatment. We are continuously studying the ultimate process to make these products without any warp.

**Pepper Pot and Pin Holder**

Material: Stainless Steel

**Tools for Flip Chip Bonder**

We make various type of Bonding Tools for Flip Chip Bonding. We also rework the worn out bonding tools.

Material: Tungsten Carbide, SK
Triming Tool and Mold

Mold, Punch, Positioning Pin for trimming the IC

Material: Tungsten Carbide. SK

Other Tools

Etching + Spot Welding / Diffusion Bonding
Material: SUS304, SUS430

Photomask
Material: Glass, Quartz

Quartz and Ceramic Parts

Cylindrical Cell, Quartz Mirror, Wafer Ring etc.
We make these parts in short leadtime.
Please provide us with drawing.

Quantity: Available from 1pc.
**SPARE PARTS for AUT INSERTION MACHINE**

For TDK, PANASERT, DYNAPART, UNIVERSAL

Standard Delivery Time: 4 weeks

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PANASERT

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DYNAPART

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UNIVERSAL

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Please refer URL http://www.wandte.com/index.html for more information
Spare Parts for Surface Mounter

Nozzles and Spare Parts for CASIO, SANYO, FUJI, YAMAHA, PANASONIC, JUKI, SONY and SAMSUNG ETC are available from us.

Various SMTcutters for FUJI, PANASONIC, SANYO are also available from us.

KME NOZZLES

JUKI NOZZLES

FUJI NOZZLES

YAMAHA NOZZLES

KME

SAMSUNG

SMT CUTTERS
Spare Parts for Surface Mounter (2)

SMT Nozzles          SONY, YAMAHA, CASIO

SONY

YAMAHA

CASIO

YAMAHA

NOZZLE

NOZZLE

FILTER

FILTER

Rough   Smooth
6300487831-A  6300487831-B
Dispensing Nozzles

Single Needle Type

Plastic Body + SUS Tube

Plastic Body + SUS Tube (Photo.A)

2 Pin Nozzle  SUS Body + SUS Tube (Photo.B)
Precise Carbide, Ceramic Parts
Tungsten Carbide, Alumina, Zirconia Mechanical Parts

Spray Nozzle
Rotating Nozzle
Carbide Flow Meter Shaft
Hydrometer & Metering Valve

The above are products of PicoParts Ltd (Israel)
Please visit website URL http://www.picoparts.com/ for more information.