

Apollo Seiko is Your Automated Soldering Partner



“We constantly continue to challenge ourselves to contribute to the world by offering new technologies”

Apollo Seiko is the creator and worldwide leader of selective soldering solutions.

Our patented technologies and dedication to customer service sets us apart from the competition.

Our company name, “Apollo Seiko” derives from the Apollo space program along with Seiko which means precision movement.

Our vision has always been to invent, build and strive to modernize automated soldering methods that increase throughput and quality by providing a precise, repeatable process.

Since our start-up in 1969, we are committed to the research and development of advanced soldering solutions and building strong partnerships with our customers.



Apollo Seiko Global Family



Naohiko Inoue
EUROPE



James Lin
CHINA



Yeong Sik Cho
KOREA



Scott Wang
TAIWAN



Rick Schi er
U.S.A.



Rammohan K.N.
INDIA



Tohru Shiratani
THAILAND



Alex Sim
SINGAPORE



Eduardo Gomez
MEXICO

Cartesian Robot Combination Examples
Iron Tip / Laser soldering

P25



JC-3 LYRA

In-Line / Cell production

Selective Flow

Energy Saving & Eco Solder Bath

P27



AF series

In-Line / Cell production

Desktop Type Selective Flow
Energy Saving & Eco Solder Bath

P31

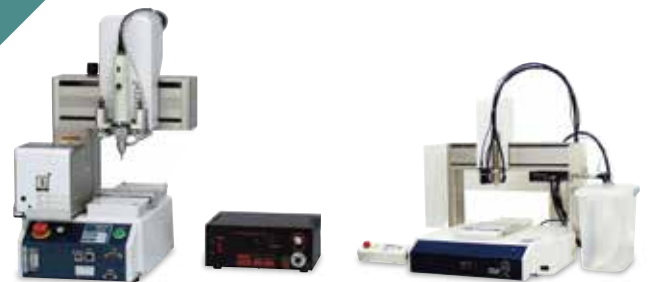


AF series

Cell production

Soldering Peripheral Equipment
Screw Tightening / Board Cutting etc.

P33



Manual Soldering
Manual Soldering Station

P35



Options

Iron Tip Cleaner / Camera etc.

P37



Consumable Parts

Iron Tip / Solder Wire etc.

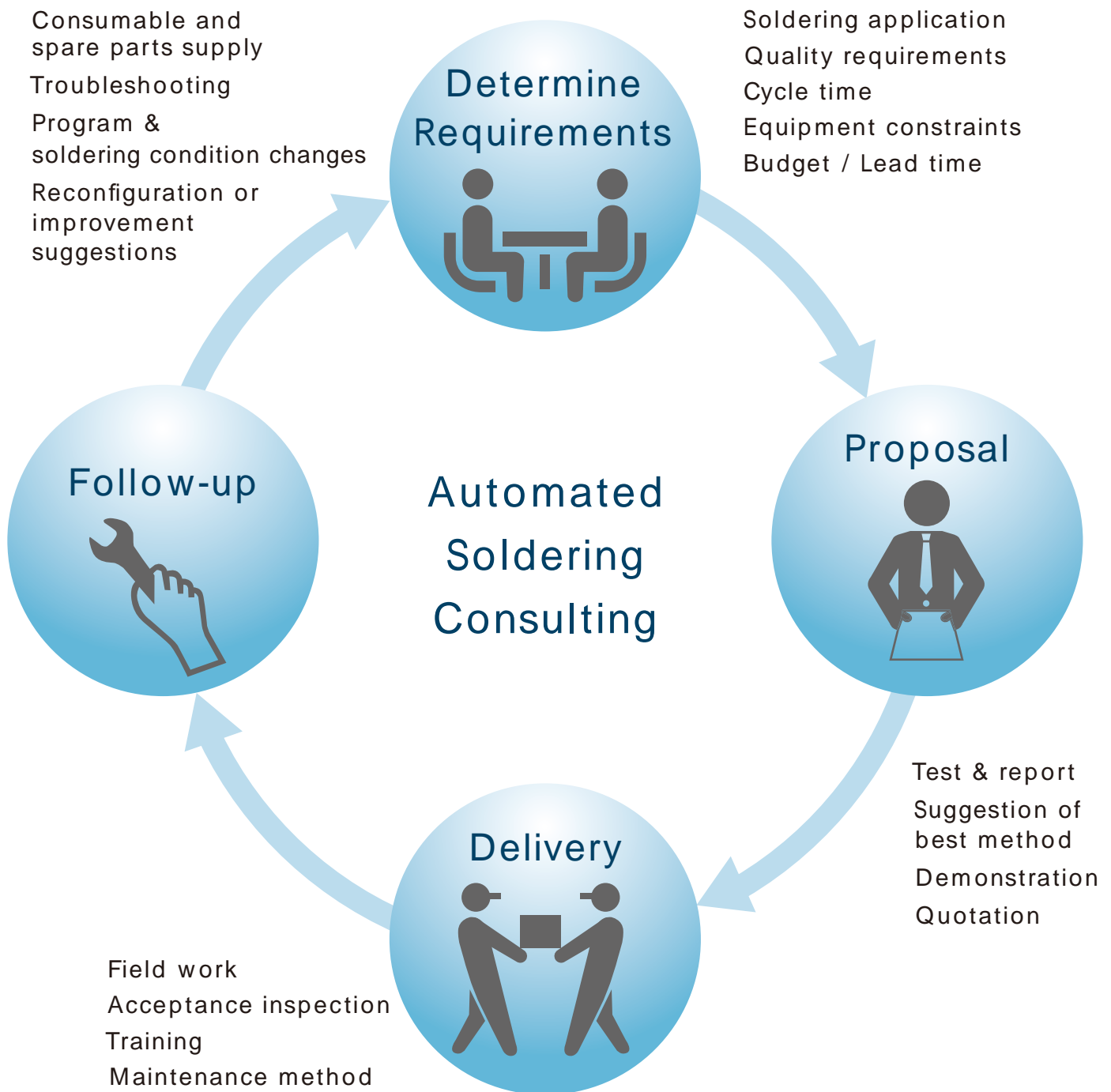
P46



Introduction Flow of Automated Soldering

Reliable Support System

We offer Automated Soldering Consultation Services to provide a complete solution from product introduction to installation support.



We are always Your Automated Soldering Partner.

Iron Cartridge

Advantage of Apollo Seiko s Iron Soldering

Direct heating system with high-temperature control

The temperature sensor is embedded as close to the apex of the tip as possible. Capable of detecting even the smallest temperature changes.

Just 8 seconds to exchange the iron cartridge without tools

A special key groove allows a precise exchange without position variation.

Nitrogen direct blow DN iron tip

Thanks to the built-in nozzle and slim shape, the nitrogen blow function can be used on iron tips to solder in tight spaces.

Wide variety of iron tip options

We have more than 100 types of standard iron tips. You can select the most appropriate shape and size iron tip for point soldering and slide soldering. Custom-made tips are also available.

Slim cartridge able to solder in tight spaces

The diameter for the DS type is 6.4mm, and the DN type has 7mm.

One touch Quick Change Iron Cartridge DX

Patented design

Thanks to our temperature sensor technology, we have created an iron cartridge that allows you to change only the tip and not the entire cartridge. Easy to change and there is no position variation after the replacement. Moreover, compared with our normal iron cartridge models, changing only the tip is around 50% cheaper.





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Iron Cartridge

Many types of iron cartridges are available with varying heater types & overall length.

DS: DC48V: Total length 101mm DM: DC48V: Total length 145mm

TS: AC100V: Total length 101mm TM: AC100V: Total length 145mm

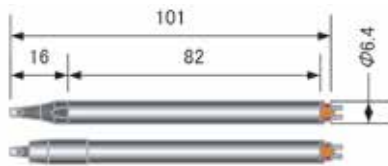
DN: DC48V: Total length 101mm with nitrogen sleeve

Configuration: – shape
Type – “Size & Tip”

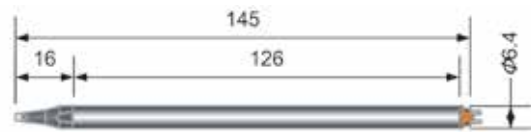
(Eg: DS-08PAD03-E08)

Point Soldering Iron Cartridge

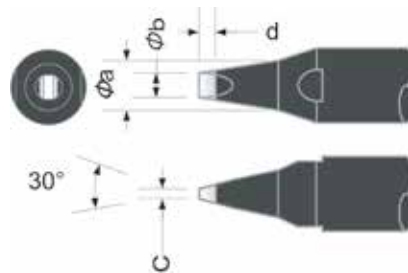
TS/DS/DN Cartridge



TM/DM Cartridge

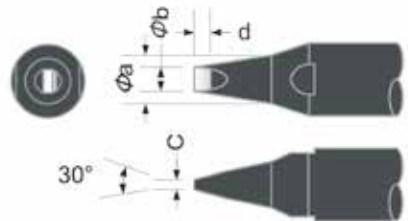


PAD/PDS



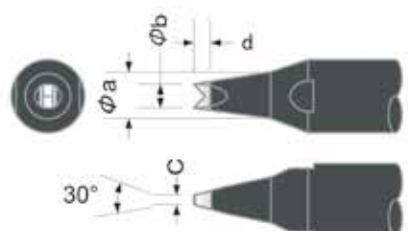
| Type | a(mm) diameter | b tip width | c thickness | d plating size |
|-----------------|-------------------|----------------|----------------|-------------------|
| ** -10PAD03-E08 | 3 | 1.0 | 0.3 | 0.8 |
| ** -13PAD05-E15 | 4 | 1.3 | 0.5 | 1.5 |
| ** -16PAD06-E15 | 4 | 1.6 | 0.6 | 1.5 |
| ** -20PAD07-E15 | 4 | 2.0 | 0.7 | 1.5 |
| ** -24PAD08-E15 | 4 | 2.4 | 0.8 | 1.5 |
| ** -30PAD10-E30 | 5 | 3.0 | 1.0 | 3.0 |
| ** -40PAD10-E30 | 5 | 4.0 | 1.0 | 3.0 |
| ** -50PDS-E40 | 5 | 5.0 | 1.3 | 4.0 |
| ** -60PDS-E40 | 6 | 6.0 | 1.3 | 4.0 |
| ** -80PDS-E50 | 8 | 8.0 | 1.6 | 5.0 |

PAD/PDS



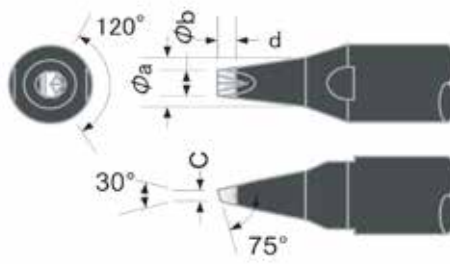
| Type | a(mm) diameter | b tip width | c thickness | d plating size |
|-----------------|-------------------|----------------|----------------|-------------------|
| ** -10PAD03-B08 | 3 | 1.0 | 0.3 | 0.8 |
| ** -13PAD05-B15 | 4 | 1.3 | 0.5 | 1.5 |
| ** -16PAD06-B15 | 4 | 1.6 | 0.6 | 1.5 |
| ** -20PAD07-B15 | 4 | 2.0 | 0.7 | 1.5 |
| ** -24PAD08-B15 | 4 | 2.4 | 0.8 | 1.5 |
| ** -30PAD10-B30 | 5 | 3.0 | 1.0 | 3.0 |
| ** -40PAD10-B30 | 5 | 4.0 | 1.0 | 3.0 |
| ** -50PDS-B40 | 5 | 5.0 | 1.3 | 4.0 |
| ** -60PDS-B40 | 6 | 6.0 | 1.3 | 4.0 |
| ** -80PDS-B50 | 8 | 8.0 | 1.6 | 5.0 |

PDZ



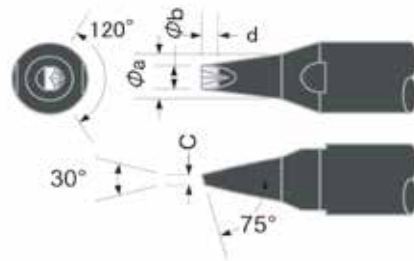
| Type | a(mm) diameter | b tip width | c thickness | d plating size |
|------------------|-------------------|----------------|----------------|-------------------|
| ** -13PDZ08-EZ15 | 4 | 1.3 | 0.5 | 1.5 |
| ** -16PDZ12-EZ15 | 4 | 1.6 | 0.6 | 1.5 |
| ** -20PDZ14-EZ15 | 4 | 2.0 | 0.6 | 1.5 |
| ** -24PDZ16-EZ15 | 4 | 2.4 | 0.8 | 1.5 |
| ** -30PDZ20-EZ30 | 5 | 3.0 | 1.0 | 3.0 |
| ** -40PDZ24-EZ30 | 5 | 4.0 | 1.0 | 3.0 |
| ** -50PDZ35-EZ40 | 5 | 5.0 | 1.3 | 4.0 |

GDV



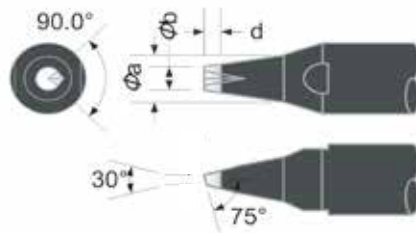
| Type | a(mm) diameter | b tip width | c thickness | d plating size |
|------------------|-------------------|----------------|----------------|-------------------|
| ** -10GDV07-EZ10 | 3 | 1.0 | 0.4 | 1.0 |
| ** -13GDV08-EZ15 | 4 | 1.3 | 0.5 | 1.5 |
| ** -16GDV10-EZ15 | 4 | 1.6 | 0.6 | 1.5 |
| ** -20GDV14-EZ15 | 4 | 2.0 | 0.8 | 1.5 |
| ** -24GDV14-EZ15 | 4 | 2.4 | 0.8 | 1.5 |
| ** -30GDV17-EZ30 | 5 | 3.0 | 1.0 | 3.0 |
| ** -40GDV17-EZ30 | 5 | 4.0 | 1.0 | 3.0 |
| ** -50GDV17-EZ40 | 5 | 5.0 | 1.0 | 4.0 |
| ** -60GDV23-EZ40 | 6 | 6.0 | 1.3 | 4.0 |

GDV



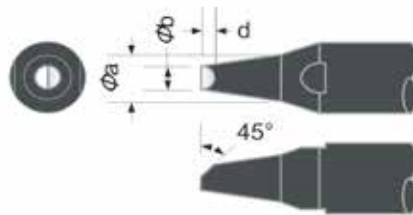
| Type | a(mm) diameter | b tip width | c thickness | d plating size |
|------------------|-------------------|----------------|----------------|------------------------|
| ** -10GDV07-BZ10 | 3 | 1.0 | 0.4 | 1.0 |
| ** -13GDV08-BZ15 | 4 | 1.3 | 0.5 | 1.5 |
| ** -16GDV10-BZ15 | 4 | 1.6 | 0.6 | 1.5 |
| ** -20GDV14-BZ15 | 4 | 2.0 | 0.8 | 1.5 |
| ** -24GDV14-BZ15 | 4 | 2.4 | 0.8 | 1.5 |
| ** -30GDV17-BZ30 | 5 | 3.0 | 1.0 | 3.0 |
| ** -40GDV17-BZ30 | 5 | 4.0 | 1.0 | 3.0 |
| ** -50GDV17-BZ40 | 5 | 5.0 | 1.0 | 4.0 |
| ** -60GDV23-BZ40 | 6 | 6.0 | 1.3 | 4.0 |
| ** -80GDV60-BZ50 | 8 | 8.0 | 1.6 | 5.0 ^{V溝 150°} |

GAV



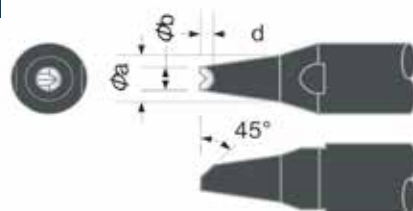
| Type | a(mm) diameter | b tip width | c thickness | d plating size |
|------------------|-------------------|----------------|----------------|-------------------|
| ** -20GAV14-EZ15 | 4 | 2.0 | — | 1.5 |
| ** -24GAV17-EZ20 | 4 | 2.4 | — | 2.0 |
| ** -30GAV21-EZ30 | 5 | 3.0 | — | 3.0 |
| ** -40GAV28-EZ30 | 5 | 4.0 | — | 3.0 |

PCA/PCS



| Type | a(mm) diameter | b tip width | c thickness | d plating size |
|-------------|-------------------|----------------|----------------|-------------------|
| ** -10PCA-B | 3 | 1.0 | — | — |
| ** -13PCA-B | 3 | 1.3 | — | — |
| ** -16PCA-B | 4 | 1.6 | — | — |
| ** -20PCA-B | 4 | 2.0 | — | — |
| ** -24PCA-B | 4 | 2.4 | — | — |
| ** -30PCA-B | 5 | 3.0 | — | — |
| ** -40PCA-B | 5 | 4.0 | — | — |
| ** -50PCS-B | 5 | 5.0 | — | — |
| ** -60PCS-B | 6 | 6.0 | — | — |
| ** -80PCS-B | 8 | 8.0 | — | — |

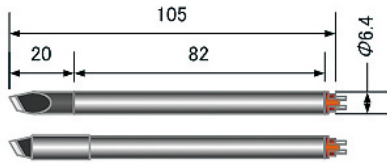
PCZ



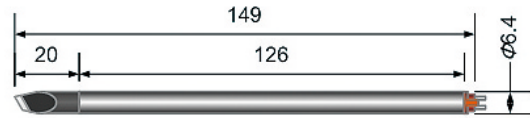
| Type | a(mm) diameter | b tip width | c thickness | d plating size |
|----------------|-------------------|----------------|----------------|-------------------|
| ** -20PCZ10-BZ | 4 | 2.0 | — | — |
| ** -24PCZ12-BZ | 4 | 2.4 | — | — |
| ** -30PCZ14-BZ | 5 | 3.0 | — | — |
| ** -40PCZ16-BZ | 5 | 4.0 | — | — |
| ** -50PCZ24-BZ | 5 | 5.0 | — | — |

Slide Soldering Iron Cartridge

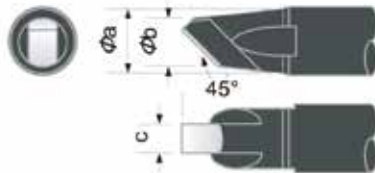
TS/DS/DN Cartridge



TM/DM Cartridge

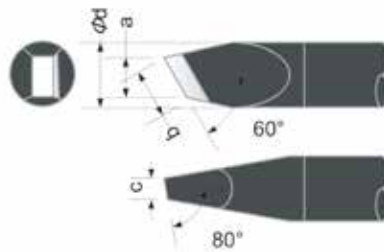


KAA



| Type | a(mm) diameter | b tip width | c thickness | d plating size |
|---------------|-------------------|----------------|----------------|-------------------|
| ** -16KAA45-B | 6.0 | 3.4 | 1.6 | — |
| ** -20KAA45-B | 6.0 | 3.4 | 2.0 | — |
| ** -24KAA45-B | 6.0 | 4.0 | 2.4 | — |
| ** -30KAA45-B | 6.0 | 4.5 | 3.0 | — |
| ** -40KAA45-A | 6.0 | 5.5 | 4.0 | — |
| ** -50K45AS-A | 6.0 | 6.0 | 5.0 | — |

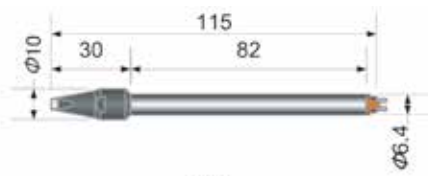
RDD



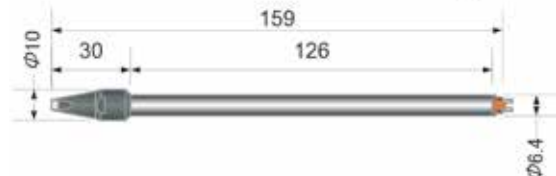
| Type | a(mm) tip width | b | c thickness | d diameter |
|---------------|--------------------|---|----------------|---------------|
| ** -20RDD-B20 | 2.0 | — | 0.6 | 6.4 |
| ** -24RDD-B20 | 2.4 | — | 0.6 | 6.4 |
| ** -30RDD-B20 | 3.0 | — | 0.6 | 6.4 |
| ** -40RDD-B20 | 4.0 | — | 0.9 | 6.4 |
| ** -50RDD-B20 | 5.0 | — | 1.3 | 8.0 |

Heat Storage Type Iron Cartridge

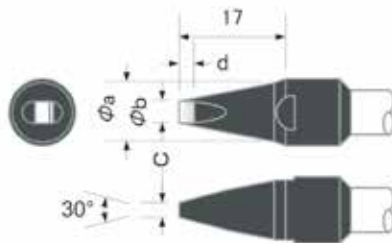
TB/SB Cartridge



MB/DB Cartridge

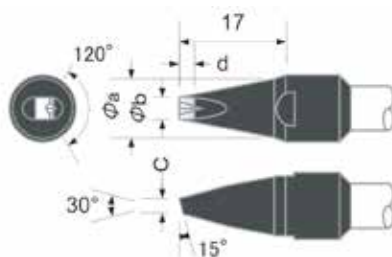


PAD



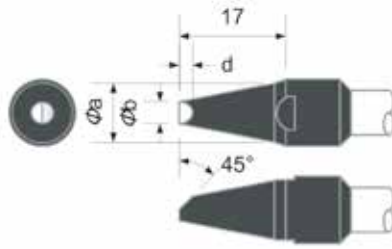
| Type | a(mm) diameter | b tip width | c thickness | d plating size |
|----------------|-------------------|----------------|----------------|-------------------|
| *B-16PAD06-B20 | 7 | 1.6 | 0.6 | 2.0 |
| *B-20PAD07-B20 | 7 | 2.0 | 0.7 | 2.0 |
| *B-24PAD08-B20 | 7 | 2.4 | 0.8 | 2.0 |
| *B-30PAD10-B30 | 8 | 3.0 | 1.0 | 3.0 |
| *B-40PAD10-B30 | 8 | 4.0 | 1.0 | 3.0 |
| *B-50PAD10-B30 | 8 | 5.0 | 1.0 | 3.0 |

GDV



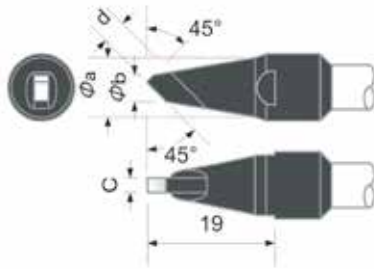
| Type | a(mm) diameter | b tip width | c thickness | d plating size |
|-----------------|-------------------|----------------|----------------|-------------------|
| *B-16GDV10-BZ20 | 7 | 1.6 | 0.6 | 2.0 |
| *B-20GDV12-BZ20 | 7 | 2.0 | 0.7 | 2.0 |
| *B-24GDV14-BZ20 | 7 | 2.4 | 0.8 | 2.0 |
| *B-30GDV17-BZ30 | 8 | 3.0 | 1.0 | 3.0 |
| *B-40GDV17-BZ30 | 8 | 4.0 | 1.0 | 3.0 |
| *B-50GDV23-BZ40 | 8 | 5.0 | 1.3 | 4.0 |

PCA



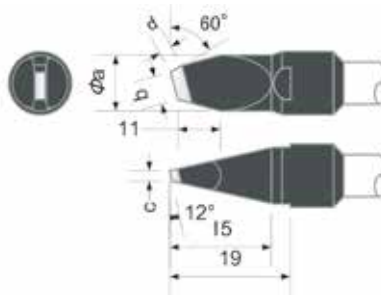
| Type | a(mm) diameter | b tip width | c thickness | d plating size |
|------------|-------------------|----------------|----------------|-------------------|
| *B-24PCA-B | 7 | 2.4 | — | — |
| *B-30PCA-B | 8 | 3.0 | — | — |
| *B-40PCA-B | 8 | 4.0 | — | — |

KAA



| Type | a(mm) diameter | b tip width | c thickness | d plating size |
|----------------|-------------------|----------------|----------------|-------------------|
| *B-16KAA45-B10 | 8 | 3.4 | 1.6 | — |
| *B-24KAA45-B10 | 8 | 4.0 | 2.4 | — |
| *B-30KAA45-B10 | 8 | 4.5 | 3.0 | — |
| *B-40KAA45-B10 | 8 | 5.5 | 4.0 | — |

RDD



| Type | a(mm) diameter | b tip width | c thickness | d plating size |
|--------------|-------------------|----------------|----------------|-------------------|
| *B-30RDD-B15 | 8 | 3.0 | 0.6 | 1.5 |
| *B-40RDD-B20 | 8 | 4.0 | 0.9 | 2.0 |
| *B-50RDD-B25 | 8 | 5.0 | 1.3 | 2.5 |

N2 Nozzle

This external nozzle supplies nitrogen gas to large bodied iron tips such as heat storage type or X tip type.



One Touch Quick Change Iron Cartridge DX

The patented design of the one-touch quick-change DX iron is easy to change and there is no position variation after tip replacement.

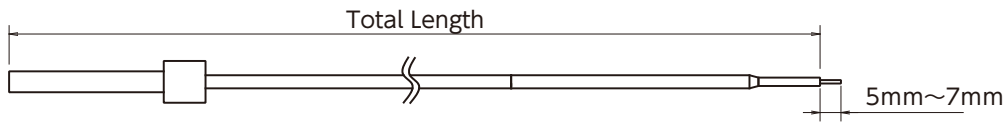


Custom Made Iron Cartridge

Upon request, various custom tips can be made. Feel free to request.



The flexible double layer solder feed tube provides for smooth and precise feeding of solder wire. Please specify the optimal tube set for the robot unit along with the solder wire diameter and point/slide soldering.



Configuration: **TAL** **1.0** — **650** **S60** Eg) Point soldering feeding tube
Solder Wire Diameter: 1.0mm
Total length:650mm

Tube Type

| | | |
|-----|--|---|
| TAL | | L-CAT EVO-II L-CAT NEO-N J-CAT Series JS-3 / SR Series OMEGA TERRA LUNA YPH-10 SZB-8000 |
| TR | | SSA |
| TU | | SSB |
| TZB | | ZSB-10 SZB-7000 |

Solder Wire Diameter

φ0.3, 0.4, 0.5, 0.6, 0.8, 1.0, 1.2, 1.6, 2.0 mm

*Please contact us about the solder wire except for the above.

Tube Total Length

The requested length can be fabricated.
Recommended Length is as follows:

| Model | Point Soldering | Slide Soldering |
|-----------------------------------|-----------------|-----------------|
| L-CAT NEO-N | 650mm | 780mm |
| L-CAT EVO-II | 450mm | 600mm |
| J-CAT320 | 650mm | 780mm |
| J-CAT330 | 750mm | 880mm |
| J-CAT340 | 750mm | 880mm |
| JS-3/SR SCARA Series | 650~1000mm | |
| OMEGA TERRA LUNA | 1500mm | |
| SSA/SSB/ SZB-7000/ SZB-8000 | 1500mm | |
| ZSB-10 | 700mm | |

*Recommended length is as above.
(It is also the recommended length for YPH-10)



Nozzle Type

| | | |
|--------|-----------|--|
| S60 | | For Point Soldering, SSA, ZSB-10 (Solder Wire Diameter φ0.3-1.2mm) |
| | | For Point Soldering, SSA, ZSB-10 (Solder Wire Diameter φ1.6 - 2.0mm) |
| S90 | | For Slide Soldering, SSA, ZSB-10 (Solder Wire Diameter φ0.3 - 1.2mm) |
| | | For Slide Soldering, SSA, ZSB-10 (Solder Wire Diameter φ1.6 - 2.0mm) |
| N55 | | Needle Type* |
| Y | No nozzle | For YPH-10 |
| L | | For SSB PM-L Iron Unit (Pencil) |
| S | | For SSB PM-S Iron Unit (Pencil) |
| V | | For SSB AM Iron Unit (Pistol) |
| H120 | | For ZSB-10 |
| S150-L | | For SZB-7000 PM Iron Unit (Pencil) For SZB-8000 PM Iron Unit (Pencil) |
| S150-R | | For SZB-7000 AM Iron Unit (Pistol) |
| Z30 | | For SZB-8000 AM Iron Unit (Pistol) (Solder diameter: φ0.4~0.65mm) |
| | | For SZB-8000 AM Iron Unit (Pistol) (Solder diameter: φ0.8~1.2mm) |
| | | For SZB-8000 AM Iron Unit (Pistol) (Solder diameter: φ1.6mm) |

*N55 Needle Size : N55-N **

Solder Wire Diameter

KTU Feeding Tube Set

Type : TAL * . * - * * * KTU

Solder Wire Diameter Total Length

Spare Parts

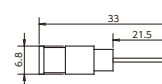
TAL * . * - * * * (Tube)

KTU-HOL (Needle Holder)



KTU-N * . * (Needle)

Solder Wire Diameter



*The standard type is φ0.3-1.0.
Please contact us about another diameter.

Apollo Seiko Ltd.

Registered Date : October 1,1969

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| | |
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| Nagano Office | 5239-1, Toyohira, Chino-shi, Nagano, Japan 391-0213 TEL:090-5206-3151 |
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| Ehime Factory | 357-3 Kitashinchi, Minato, Saijyo-shi, Ehime, Japan 793-0046 TEL:0897-52-5211 FAX:0897-52-5222 |
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Apollo Seiko Group Service & Production Bases●

| | |
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