



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Precision Tweezers Selection Guide





ARTIS

Reimagining the Tweezer

Aven's cutting edge design features a angled bend at the end of the tip, providing a softer overall grip with a large surface area that **reduces hand fatigue**, enhancing productivity. The durable tweezers are protected by an attractive ESD safe coating, and the **highly polished stainless steel** tips with rounded edges allow operators to handle very fine wire, miniature parts, electrical components, and other delicate materials



- Exclusive Patent-Pending Design **reduces hand fatigue**
- Highly polished stainless steel tips with rounded edges
- Protective ESD Safe coating
- Anti-magnetic & anti-acid

Accu-Tek

Premium Titanium Tweezers

Swiss-Made premium titanium tweezers. These titanium tweezers have been found to be excellent for use in the silicon chip industry because titanium tweezers do not shed particles like the stainless steel tweezers. Anytime an abrasive substance is handled and microscopic particles are a detriment, it may be best to choose titanium. Since titanium is non-magnetic, these tweezers are extremely useful when handling magnetic materials or when working in a magnetic field. Titanium is a light weight, high strength material.



- Lightweight (high strength to weight ratio)
- Zero Magnetic Retentively
- Temperature Resistant to 800°C/1600°F
- Chemical and Corrosion Resistant
- Solder non-adherent

Titanium Technik

High Precision Tweezers

Titanium tweezers have been found to be excellent for use in the silicon chip industry, as titanium tweezers do not shed particles like the stainless steel tweezers. Anytime an abrasive substance is handled and microscopic particles are a detriment, it may be best to choose titanium. Since titanium is non-magnetic, these tweezers are extremely useful when handling magnetic materials or when working in a magnetic field. **Titanium is both light weight and high strength material.**



- Lightweight (high strength to weight ratio)
- Zero Magnetic Retentively
- Temperature Resistant to 800°C/1600°F
- Chemical and Corrosion Resistant
- Solder non-adherent

Technik

High Precision Tweezers

Finely crafted tweezers. Anti-glare finish to reduce eye strain. **Hand finished points for accuracy.** Recommended for micro electronics and precision assembly. Available in stainless steel and carbon steel.



- Stainless steel models - anti-magnetic & anti-acid
- Carbon steel models also available

E-Z Pik

Industrial Tweezers

E-Z Pik tweezers feature a highly durable special coating for high visibility and easy identification. Operators can quickly identify the tweezers they need for their particular operation and engineers can easily specify tweezers to be used for a particular process by identifying the color, rather than the pattern of tweezers.



- Color coated for easy identification
- Straight Strong Precise tips
- Anti-magnetic
- Anti-acid
- 304 Stainless steel

Tweezer Material

Titanium: Titanium tweezers are excellent for use in the silicon chip industry, as they do not shed particles like the stainless steel. When it is determined that microscopic particles are a detriment when handling abrasive parts we recommend using titanium tweezers. In addition since titanium tweezers are 100% non magnetic, they are extremely useful when working with magnetic materials or when working in a magnetic field. Titanium is lightweight and a high strength material.

Carbofib: Fully ESD Safe (102 ohm) but at the same time, soft and non scratching. These conductive synthetic fiber tips are ideally suited to handle delicate and fragile components when extreme care and ESD safety are an absolute necessity. All tweezers are manually finished and tested for maximum precision. Chemical resistant and heat resistant up to 256°C.

Stainless Steel: Perfectly Balanced for a superior feel. Light weight with soft tension with accurately finished points. Recommended for work under high power magnification aerospace and micro electronics and in applications where high precision is required. Stainless steel does show some magnetism.



Material Guide

Material	Tip Hardness	Magnetism	Corrosion Resistance
Titanium	Excellent	Never	Excellent
Carbon steel	Excellent	Yes	Low
Stainless Steel	Very Good	Some	Good
Stainless Steel, Anti-magnetic, Anti-acid	Good	None to very little	Excellent, Resists Acids
Carbon Composite	Soft	None	Non-corrosive

Tip Styles

Image	Pattern	Description
	AA	For general assembly, very strong and precise tips with fine finish
	AC	Sturdy tips for bending and handling very fine wire. Includes Finger grips.
	MM	General Purpose Tweezer
	00	Flat edges, heavy duty strong blades tapering to a regular strong point
	00C	Flat edges, strong blades tapering to a regular strong point.
	00D	Flat edges, strong blades tapering to a regular strong point. Finger grips.
	0	Fine Straight Points for handling and positioning of miniature parts or fine wire
	0A	Straight Points with radius edges. Designed for dense areas
	0C	Flat Edges, fine tips and short
	SS	Extra long and narrow with extended reach to access confined areas.
	1	General Use, Strong Blade with Fine Point
	2	Tapered sharp point for bending and handling of small wire and parts
	2A	Straight Flat Tips. Provides large flat gripping surface.
	2AB	Curved Flat Tips. Best Flat tips, Tips provide large flat gripping surface.
	3	Fine point tweezers for general assembly or light magnification applications.

Image	Pattern	Description
	3CB	Fine point with bent tips
	3F	Fine point. Tips touch over 3mm for holding tiny wires
	35A	Wafer handling tweezers
	36	Angled broad tip with large paddle style tips
	4	Blades taper sharply from body to a fine rounded point. For extra fine work
	5	Blades taper sharply from body to a super fine point. For extra fine work
	5A	Oblique fine points for greater visibility
	5B	Super micro high precision bent tips provide maximum visibility.
	6	Angled Fine Tips for access to tight areas
	65A	Long fine curved tips
	66	Long double bent tips
	7	Curved super fine points for assembly work
	7B	Serrated curved super fine points
	15AWG	Cutting tweezers. Used for fine wire or hairsprings
	3C	Fine point tweezers. Slightly shorter than #3



Aven Brand Tweezers

Tip Pattern	Accutek	Accutek Mini	Technik Stainless Steel	Technik Carbon Steel	Accu-Tek Titanium	Technik Titanium	E-Z Pik	Comfort Grip	Artis	Carbofib
AA	18013-BR (Brass)		18013USA	18011-CS	18013TS	18013TT	18013EZ		18013ARS	
AC	1		18016USA	18014-CS						
MM			18023USA	18021-CS					18023ARS	
00	18032ACU		18032USA	18032-CS	18032TS	18032TT	18032EZ	18032-ER	18032ARS	
00C			18034USA							
00D	18037ACU	18037-MS	18037USA	18036-CS		18037TT				
0	18026ACU		18026USA							
0A			18027USA							
0C	18029ACU		18029USA							
SS	18040ACU		18040USA						18040ARS	
1	18043ACU		18043USA	18043-CS		18043TT			18043ARS	
2	18046ACU	18046-MS	18046USA	18046-CS	18046TS	18046TT				18767
2A	18049ACU	18049-MS	18049USA	18049-CS	18049TS	18049TT	18049EZ	18049-ER	18049ARS	18768
2AB			18050USA							
3	18053ACU	18053-MS	18053USA	18053-CS	18053TS	18053TT				18660
302										18702



Tweezers Cross Reference Guide

Premium Tweezers

Tweezer Description	Excelta	EREM	Aven Accu-Tek Stainless Steel Model #	Aven Artis Model #	Aven E-Z Pik Model #	Aven Titanium Accu-Tek
Pattern OO	OO-SA	OOSA	18032ACU	18032ARS	18032EZ	18032TS
Pattern OOD	OOD-SA	OODSA	18037ACU	N/A	N/A	N/A
Pattern O	O-SA	M5S	18026ACU	N/A	N/A	N/A
Pattern OC	OC-SA	N/A	18029ACU	N/A	N/A	N/A
Pattern SS	SS-SA	SSSA	18040ACU	18040ARS	N/A	N/A
Pattern 1	1-SA	1SA	18043ACU	18043ARS	N/A	N/A
Pattern 3	3-SA	3SA	18053ACU	N/A	N/A	18053TS
Pattern 3C	3C-SA	3CSA	18056ACU	18056ARS	18056EZ	18056TS
Pattern 2	2-SA	2SA	18046ACU	N/A	N/A	18046TS
Pattern 4	4-SA	4SA	18059ACU	N/A	N/A	N/A
Pattern 5	5-SA	5SA	18062ACU	18062ARS	18062EZ	18062TS
Pattern 2A	2A-SA	2ASA	18049ACU	18049ARS	18049EZ	18049TS
Pattern 5A	5A-SA	5ASA	18065ACU	N/A	N/A	N/A
Pattern 6	6-SA	N/A	18069ACU	N/A	N/A	18069TS
Pattern AA	N/A	N/A	N/A	18013ARS	18013EZ	18013-TS
Pattern MM	N/A	N/A	N/A	18023ARS	N/A	N/A
Pattern 7	7-SA	7SA	18072ACU	18072ARS	18072EZ	18072TS

Professional-Grade Tweezers

Tweezer Description	Excelta	EREM	Aven Technik Stainless Steel Model #	Aven Technik Carbon Steel Model #	Aven Technik Titanium Model #	Aven E-Z Pik Model #	Aven Artis Model #
Pattern OO	OO-SA-SE/OO-SA-PI	OOSASL	18032USA	18032CS	18032TT	18032EZ	18032ARS
Pattern OOD	OOD-SA-SE/OOD-SA-PI	N/A	18037USA	18036CS	18037TT	N/A	N/A
Pattern O	N/A	N/A	18026USA	N/A	N/A	N/A	N/A
Pattern OC	OC-SA-SE/OC-SA-PI	N/A	18029USA	N/A	N/A	N/A	N/A
Pattern SS	SS-SA-SE/SS-SA-PI	N/A	18040USA	N/A	N/A	N/A	18040ARS
Pattern 1	1SA-SE/1SA-PI	1SASL	18043USA	18043CS	18043TT	N/A	18043ARS
Pattern 3	3SA-SE/3SA-PI	3SASL	18053USA	18053CS	18053TT	N/A	N/A
Pattern 3C	3C-SA-SE/3C-SA-PI	3CSASL	18056USA	18054CS	18056TT	18056EZ	18056ARS
Pattern 2	2-SA-SE/2-SA-PI	2SASL	18046USA	18046CS	18046TT	N/A	N/A
Pattern 4	4-SA-SE	4SASL	18059USA	18057CS	18059TT	N/A	N/A
Pattern 5	5-SA-SE/5-SA-PI	5SASL	18062USA	18060CS	18062TT	18062EZ	18062ARS
Pattern 2A	2A-SA-SE/2A-SA-PI	2ASASL	18049USA	18049CS	18049TT	18049EZ	18049ARS
Pattern 5A	5A-SA-SE/5A-SA-PI	5ASASL	18065USA	18065CS	18065TT	N/A	N/A
Pattern 6	6-SA-SE/6-SA-PI	n/a	18069USA	18067CS	18069TT	N/A	N/A
Pattern 7	7-SA-SE/7-SA-PI	7SASL	18072USA	18072CS	18072TT	18072EZ	18072ARS
Pattern MM	N/A	N/A	18023USA	18021-CS	N/A	N/A	18023ARS
Pattern AA	N/A	N/A	18013USA	18011-CS	18013TT	18013EZ	18013ARS

Aven Inc.
4330 Varsity Drive
Ann Arbor, MI 48108

aveninc.com

734-973-0099
sales@aventools.com