



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!



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# Swanstrom Tools USA



®

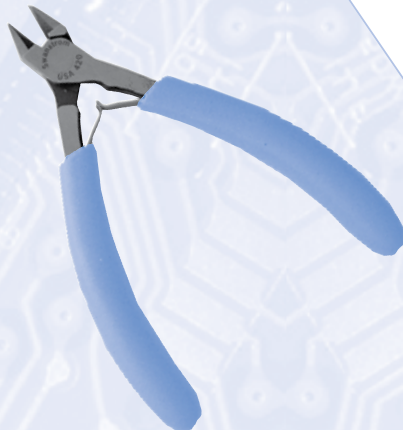
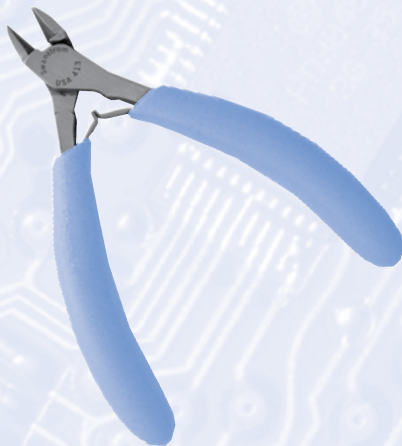
## Spartan SERIES



### SWANSTROM QUALITY, PRECISION AND VALUE IN AN ECONOMICAL PACKAGE

The spartans of ancient Greece enjoyed a well earned reputation for strength, endurance and frugality. These qualities are embodied in the Spartan Series Tools from Swanstrom Tools USA. Designed to maximize performance by utilizing top grade materials and engineering excellence; Spartan Tools are a sensible choice in today's economy.

- Forged from high chromium, high carbon steel
- Precision honed cutting edges
- Electronically inducted, heat treated cutting edges
- Cutting edges hardened to Rc58
- ESD safe handle
- Leaf Springs are spot welded for durability and reliability



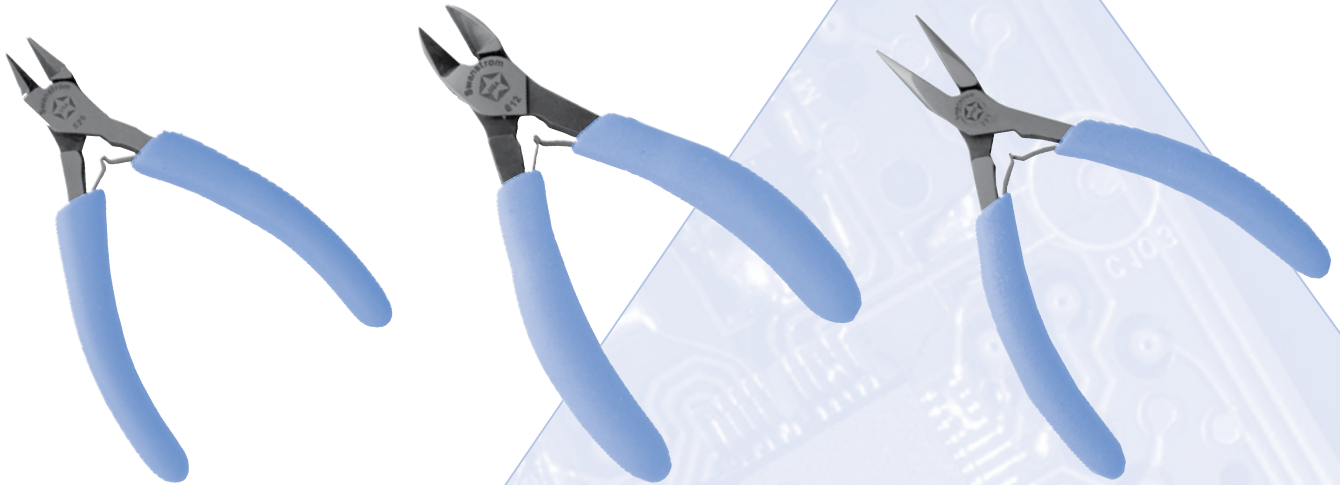
#### 4" CUTTERS

	Head & Cut Type	Body Width	Cutter Length	Cutting Capacity
410	Oval, Bevel	.440	.380	16 gauge
411	Oval, Flush	.440	.380	16 gauge
413	Oval Slim, Flush	.440	.380	18 gauge
415	Taper, Flush	.440	.380	16 gauge
420	Taper Slim, Flush	.440	.380	18 gauge
491	60° Taper Tip, Flush	.440	.460	20 gauge

# Swanstrom Tools USA



## Spartan SERIES



### 5" CUTTERS

	Head & Cut Type	Body Width	Cutter Length	Cutting Capacity
510	Oval, Bevel	.500	.500	14 gauge
511	Oval, Flush	.500	.500	14 gauge
520	Taper Slim, Flush	.500	.500	16 gauge

### 6" CUTTERS

	Head & Cut Type	Body Width	Cutter Length	Cutting Capacity
610	Oval, Bevel	.600	.600	12 gauge
611	Oval, Flush	.600	.600	12 gauge
616	Taper, Flush	.600	.600	14 gauge

### PLIERS

	Head Shape/ Style	OAL	Tip Width	Jaw Length	Edge/ Jaw
221	Long Nose	5.30	.060	1.00	Serrated
230	Needle Nose	5.30	.060	1.00	Smooth
320	Long Nose	6.01	.060	1.70	Smooth
325	Long Nose, Slim	5.43	.060	1.08	Serrated
331	Needle Nose	6.01	.060	1.70	Serrated