



## Why Steel Media?

### Works Harder - Lasts Longer

The substantial weight of steel media exerts higher pressure to a mass of components in vibratory, barrel and tumbling finishing equipment. As workpieces force their way and vibrate through this mass, the increased pressure and resistance from steel media is especially effective in reducing finishing times.

Steel is also a non-consumable media. With proper care, it is not "used up" in the finishing process. Its durability and increased working pressure make steel the ideal media for a variety of finishing processes. Furthermore, wastewater treatment is limited to removal of the soils generated from your parts only: steel does not create or absorb soils from wear, as do other media.

### Imparts Compressive Stress

As steel media impinges on a part, its surface is work-hardened. The working action imparts compressive stress as a beneficial byproduct of the finishing process. In many instances, the process can replace steel shot-blasting as a work-hardening step. Parts processed with steel media have longer cycle lives and greater resistance to wear as a result of this compressive stress action.

### Improves Pre-Plate Finishing

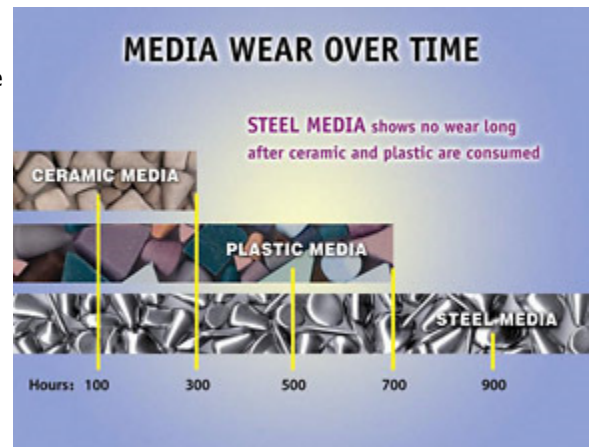
Parts that appear smooth are actually characterized by micro-imperfections, which cause plating problems. The weight of steel media flattens these minute irregularities and prepares a surface for more satisfactory plating. This action is especially critical during the deposition of nickel or other solutions that typically do not fill the depressions, but follow the higher contours of the metal.

### Reduces Porosity on Plated Parts

When plated parts are finished with steel tumbling media, a compacting action rolls down and spreads the surface of the softer plate to fill any "pin-point" holes. This process helps eliminate porosity and increases the corrosion resistance created by the plating process.

### Financial Advantage

Steel Media is considered a capitalized investment instead of a consumable expense because it typically lasts twenty years or longer.





## Steel Media Specifications

### BALLS



#### Eclipse

Round balls with slight flattening at the poles\*. Available in sizes from 3/32" - 3/16".

\*Precise roundness is not required for the majority of steel media finishing applications. Thus, two small flat spots at opposite poles are not objectionable. Pole-flattened balls are less expensive to manufacture and customers benefit from these economies through lower prices.

\*\* All decimal dimensions are approximately  $\pm .010$ , with the exception that length of pins and diagonals are  $\pm .020$ .



#### Abco

Round balls without flats for more critical finishing requirements.

### CONES

Center flange and tapered crowns provide contact angles and on curved surfaces. Small sizes are ideal for ornamental designs.



Order Size	Dimensions	
	A	B
3/16"	.155"	.200"
5/16"	.265"	.315"
1/2"	.470"	.535"

### PINS

Tapering to pointed ends, pins reach into recesses and grooves, deflash through-holes and clean threaded areas.



#### Slim (S)

(inches)

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3/64" x 1/2"

1/16" x 9/32"

1/16" x 1/2"



#### Taper (T)

(inches)

3/32" x 3/8"

1/8" x 3/8"

1/8" x 1/2"

5/32" x 1/2"

### OVALBALLS

This shape introduces an oscillating motion to the finishing mass and provides more surface-to-surface contact than balls.



Order Size	Dimensions	
	A	B
1/8"	.245"	.125"
5/32"	.320"	.156"
3/16"	.380"	.187"
5/16"	.535"	.312"



### BALLCONES

This design combines the burnishing abilities of balls and cones into one scientifically proportioned shape.



Order Size	Dimensions	
	A	B
1/8"	.125"	.170"
5/32"	.215"	.270"
3/16"	.270"	.300"
1/4"	.320"	.400"
5/16"	.375"	.465"

### DIAGONALS

Beveled edges of diagonally-cut ends provide effective finishing action in corners. Cylindrical body offers wide area contacts.



Order Size	Dimensions		
	A	B	C
1/8"	.125"	.125"	.225"
5/32"	.156"	.156"	.275"
3/16"	.187"	.187"	.325"
7/32"	.218"	.218"	.380"
1/4"	.250"	.250"	.445"
5/16"	.312"	.312"	.545"
3/8"	.375"	.375"	.655"

### ABCUT

Patented abrasive surface puts teeth into finishing for fast, heavy deburring, burnishing and material removal. Available in three standard sizes.



Length	Dimensions	
	Diameter	
1/8" x 1/2"	.130 -.136"	
5/32" x 7/8"	.167 -.173"	
7/32" x 7/8"	.228 -.239"	

#### Stainless Steel Available

Where complete freedom from rust is essential, we recommend 300 Series stainless steels. Most of these shapes are available in this corrosion-resistant material.

Let our lab determine the proper media for your parts