



KHOSLA MACHINE EXTRUDED ANODE





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Khosla has been manufacturing solders since 1965. We have been supplying Tin & Tin-Lead Anodes to PCB Industry for electroplating for long time.

To, attain High standards in electroplating, recently, we have introduced machine Extruded Tin & Tin-Lead Anodes.

Conventional Process for manufacturing Tin Anodes is melting of Tin and casting in mould or sand in the required shape and size. However at Khosla we melt Tin in controlled parameters and treat the same with special fluxes. This molten Tin is casted in Billets. Billets are further extruded into Anodes in 360 MT. Extrusion Press. The shape of anode is decided by shape of Extrusion Die.

To attain high standards in electroplating virgin grade Tin is used in Khosla Extruded Anodes, of Minimum Purity of 99.85%.

● BENEFITS ●

- Extruded Anodes have dense grain structure which ensures Uniform Anode Depletion.
- It withstands Higher Current Density.
- Wide range of anodes can be extruded for customer selection to suit individual plating process parameter.
- Longer Life due to which change over period will be longer & wastage will be minimised.

Typical Shapes are as below

SHAPE	DESCRIPTION	SURFACE AREA PERIMETER	SIZE
	STAR-SHAPE 10 pts	Δ 2469 mm ² P 420 mm	O φ 77 mm I φ 30 mm
	STAR-SHAPE 12 pts	Δ 2473 mm ² P 480 mm	O φ 73 mm I φ 35 mm
	HEXAGONAL 14 pts	Δ 2062 mm ² P 240 mm	Thickness : 52 mm Width : 74 mm
	HEXAGONAL 10 pts	Δ 1628 mm ² P 198 mm	T : 36 mm W : 74 mm
	OCTAGONAL SHAPE	Δ 2007 mm ² P 180.2mm	T : 37 mm W : 72 mm
	SAW - TOOTH SHAPE	Δ 1700 mm ² P 281.5mm	T : 26 mm W : 84 mm
	ROUND SHAPE	Δ 1963 mm ² P 157 mm	φ50 mm
	RECTANGULAR SHAPE	Δ 1628 mm ² Δ 2368 mm ²	T22 x W74 mm T32 x W74 mm
	FLAT SHAPE	Δ 950 mm ²	T10 x W95 mm
	DOGBONE SHAPE	Δ 2433 mm ² P 206 mm	T : 38 mm W : 76 mm

Length & Shapes of Anodes as per customer's requirement.

===== KHOSLA ENGINEERING PVT. LTD. =====

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Comparison Between Extruded & Cast Anode at the time of salvage.

- 50 to 70% extra life. Extruded Anode's life in given photograph is 50 days whereas 30 days of cast Anode.
- Craters and cracks appears on cast anode, whereas extruded anodes wears evenly without any craters or cracks. Hence powder collected in Basket is minimum in extruded anode.
- Salvage weight of extruded anode 1.5 kg. approximately, whereas of casted anode is 2.75 kg. approximately in given example.

