



ULTRASONIC METAL DEGASSING PROCESSOR

ULTRASONIC METAL CRYSTALLIZATION PROCESSOR

Ultrasonic metal melt treatment processor, also known as **ultrasonic metal crystallization processor**, is a kind of large wave equipment specially used in metal casting industry. It mainly acts on the crystallization process of molten metal, can significantly refine metal grains, uniform alloy composition, accelerate bubble movement, and significantly improve the strength and hardness of metal materials.

Ultrasonic wave can effectively propagate in gas, liquid, solid, solid solution and other media, and has strong penetration. These inherent characteristics enable it to transmit strong energy when propagating in liquid media, produce strong impact and cavitation at the interface, and produce play, interference, superposition and resonance like acoustic wave, Under the condition of the same amplitude, the intensity of ultrasonic wave is much higher than that of ordinary sound wave. At present, ultrasonic metal melt treatment equipment has been widely used in electroplating (for surface cleaning) chemical,





The Future of **Casting Technique:**
Innovations and Advancements

BENEFITS

- **Improve Metal Homogenization, Grain Refinement and mixing of new alloy.**
- **Excellent Ultrasonic Degassing result (defragments and wetted inclusion)**
- **Excellent result after vibrating in sump of a vertical wag staff Dc caster.**
- **Excellent result on a Bruno presezzi continuous casting line.**
- **Improved micro crystallization and alloy characteristics in casting.**
- **Frication reduction between a tool (e.g. casting, drawing, extruding, molding).**
- **Improve surface finish**

**TECHNICAL DETAILS :**

FREQUENCY	18 TO 22 KHZ +/- 3 KHz
RESONATOR CONSTRUCTION	S.S 316 L OR TITANIUM MATERIAL OR BETTER MELTING POINT
POWER EFFICIENCY	1000 WATTS TO 4000 WATTS (Joule /second)
ULTRASONIC GENERATOR	MICROCONTROLLER IGBT/MOSFET BASE WITH OVER HEAT PROTECTION
VARIABLE POWER	AMPLITUDE SETTING 50% TO 100% ADJUSTABLE
COMPLIANCE STATUS	ISO 9001:2015
COMPLIANCE STATUS	CE : MACHINERY DIRECTIVE (MD) 2006/42/EC

**MTEKSONIC**

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