

METRO[®]
INDUCTION SYSTEM



Committed To Excellence In Developing High-end Technological Systems

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Unbeatable
Strength



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Metro Electric Company the pioneer's in Indian Precious metals sector have developed this induction system for optimal performance of high capacity melting for the refiners, laboratories and bulk jewellery manufactures. It runs on Induction Technology, Absolute homogeneous alloying with reduction in burning losses is achieved due to uniform temperature controlling with option of immersion thermocouple or optical pyrometer for precise temperature controlling.

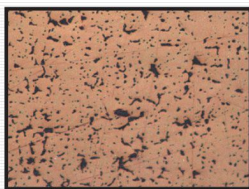
Advantage of melting small quantities at automatic appropriate energy consumption is an added advantage in today's competitive world. Small in size and low on budget, and host of other features to suite your needs of fast and economical melting with assurance of timely services.

The GOLD MINE Induction system is available in three different variants G1 for 10kg melting, D2 for 20kg melting and D3 for 30kg melting system for your need of large melt batches and ease of better melting. Both this system have capability to work in auto mode or manual mode for the convenience of melting and temperature controlling, with an added facility for optional automatic tilting system for melting crucible. As chilling unit is standard equipment these Induction system can operate for any number of charges continuously.

MICRO STRUCTURE OF GOLD 700x Zoom



Gold melted with conventional method.



Gold melted with induction method.

TECHNICAL DATA

Model	D2	D3
Power Supply	3Ø	3Ø
Voltage	415V 50Hz/60Hz	415V 50Hz/60Hz
Absorbed Power	20 KVa	23 KVa
Capacity of Crucible*	20 Kg 24Kt (Au) [†]	30 Kg 24Kt (Au) [†]
Maximum temperature	1200°C	1200°C
Melting time	15 min. ^{††}	15 min. ^{††}
Temperature measurement	K - Type	K - Type
Water re-cooling system	Included	Included
Cooling water temperature	20°C - 30°C	20°C - 30°C
Water Pressure	4 Bar	4 Bar
Maximum water Flow	14 ltr/min	14 ltr/min
Weight (With Chilling Unit)	605 Kg	650 Kg
Dimensions (mm) L X B X H		
Induction Generator	750 x 980 x 1380	750 x 980 x 1380
Chilling Unit	650 x 1010 x 1220	650 x 1010 x 1220
Melting Unit	1050 x 1090 x 1060	1050 x 1090 x 1060

[†] Brimfull capacity * High Density Graphite Crucible
^{††} Under standard condition

HIGHLIGHTS :

- Easy to install and operate
- No Metal Loss or burning loss
- Complete microprocessor controlled operation
- Feather touch control; Simple in operation
- LCD display of parameters and faults
- Perfect homogeneous mixing of alloys
- All safety precautions provided
- Automatic power and temperature regulation

BENEFITS :

- 80% Income tax depreciable
- Increased Productivity
- Convenient Layout
- Digital Display of Parameters and faults
- Zero Maintenance
- Energy saving - Flameless furnace
- Continuous operation as chilling unit is included with the system

Note : 1. Always use genuine parts and graded crucibles from the company for efficient, effective capacity utilization.

2. As continuous improvements are contemplated, the Product illustrations, Technical Data & Description are not binding & may be changed without prior notice.



METRO ELECTRIC COMPANY

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w.e.f. 7-2015 r3

