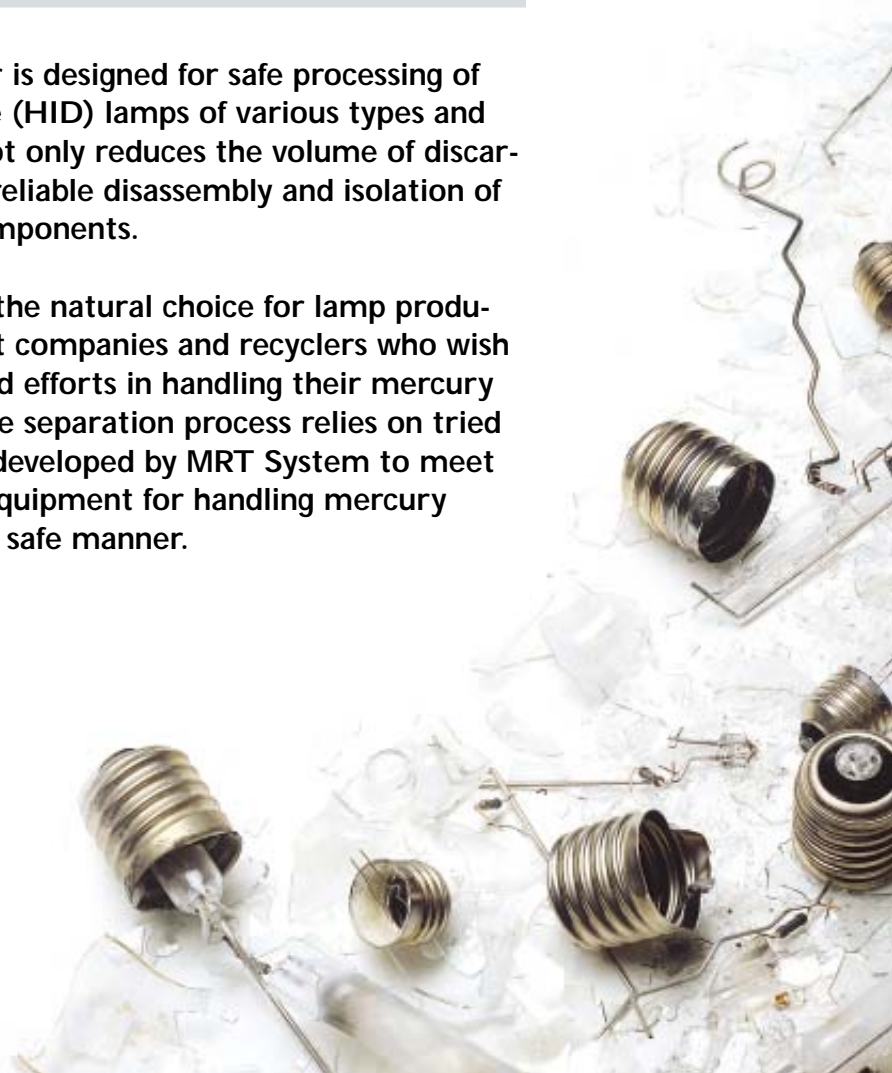


MRT HID PROCESSOR



The MRT HID Processor is designed for safe processing of High Intensity Discharge (HID) lamps of various types and sizes. This equipment not only reduces the volume of discarded lamps, but ensures reliable disassembly and isolation of the mercury bearing components.

MRT's HID processor is the natural choice for lamp producers, waste management companies and recyclers who wish to minimize the risks and efforts in handling their mercury contaminated waste. The separation process relies on tried and trusted technology developed by MRT System to meet customer demands on equipment for handling mercury lamps in an efficient and safe manner.





The Principal Process

In three consecutive processing steps the HID Processor disassembles the mercury lamp in different fractions.

First, the outer bulb glass is cracked by a gripping appliance made of specially hardened, wear resistant material. The bulb glass is thus separated from the burner and metal base. All glass fractions are then directly conveyed to, and collected at the glass outlet.

The second processing step carefully dismantles the mercury containing burner from the metal base. After a crushing session, the mercury contaminated burner glass is dispensed into the appropriate container. Demercurization of this material is recommended. For this purpose MRT System offers safe and reliable mercury recovery systems from our complete and unique range of mercury distillers which can recover as much as 99.9 per cent of the mercury content.

Through the third and final step the magnetic metal parts are separated and collected inside the machine. The metal bases will be automatically transferred to and gathered at the metal outlet outside of the HID Processor.

A Safe and Economical Solution

Thanks to its mobility and slender design, the HID processor can be used either as a stand alone unit or as a tool in an integrated recycling process. Running the machine requires small efforts from one single operator; low air and electrical consumption also contributes to good operating economy. ▼



TECHNICAL DATA

CAPACITY	Up to 2000 lamps/h, on average 800-1000 lamps/h
TYPE OF LAMPS	HID lamps – E40, E27, E14
MATERIAL FRACTIONS	Bulb glass Quartz glass and Hg Metals
COLLECTION	Collection of quartz glass in 30 l distiller barrels. Other materials in barrels or boxes.
ESTIMATED UTILITY	Electrical connection: According to country standard. Electrical consumption: Max 3,5 kW. Compressed air: 120l/h, supply pressure – 6 bar. dry.
MEASUREMENTS	Length: 1805 mm. Width: 1600 mm Height: 1890 mm. Weight: 700 kg
HG EMISSION	Inside room: Max 0,025 mg/m3. The room has to be ventilated by fresh air to a volume of at least 3 exchanges/hour. Exhaust: Max 0,025 mg/m3
MAIN COMPONENTS	Lamp inlet/Shuttle. Crusher. Metal separator. Carbon filter. Dust filter. Exhaust fan.

To eliminate the risk of mercury and dust particles being released during the process, the entire system works at sub-pressure. A high capacity fan incorporated in the system represses all hazardous mercury vapours and allows the operator to work in a dust free environment.



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