

LP – LAMP PROCESSOR

Profitable Recycling of Lamps and Tubes

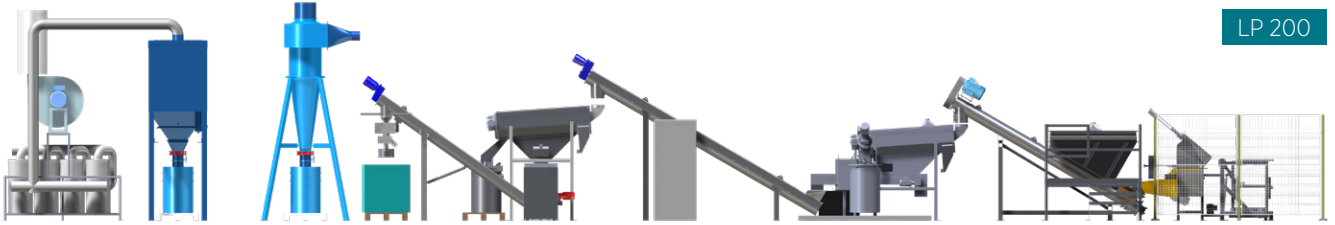


LP 200

GENERAL INTRODUCTION

The MRT Lamp Processors are designed for processing Fluorescent Lamps and tubes of different shapes and types. The machines crushes and separates the material into a glass fraction, fluorescent powder, e-base/socket/end-cap fraction.

The LPs is equipped with manual feeding stations, manual wheelie-bin turning devices for CFLs and pre crushed lamps as well as manual horizontal feeding tables for TLs to optimize the output qualities. All material fractions are discharged into steel drums, except for glass which is discharged in big-bags.



TECHNICAL SPECIFICATIONS LAMP PROCESSORS

Model:	LP 200	LP 400	LP 600
Capacity:*	200 kg/hour input	400 kg/hour input	600 kg/hour input
Electrical connection:	400V, 50Hz (60 Hz option) Max. 20 kW	400V, 50Hz (60 Hz option) Max. 20 kW	400V, 50Hz (60 Hz option) Max. 30 kW
Compressed air:	600 l/min	600 l/min	800 l/min
Dimensions:			
Length:	26 000 mm	30 000 mm	25 000 mm
Width:	2 500 mm	3 000 mm	6 000 mm
Height:	4 100 mm	4 100 mm	4 100 mm
Operational temp range:	+10 C° - +35 C°	+10 C° - +35 C°	+10 C° - +35 C°
Hg emission into the atmosphere:**			
Working area:	Max 0,020 mg/m ³	Max 0,020 mg/m ³	Max 0,020 mg/m ³
Exhaust:	Max 0,020 mg/m ³	Max 0,020 mg/m ³	Max 0,020 mg/m ³
Exhaust:***			
Exhaust flow:	Max 2000 m ³ /h	Max 2000 m ³ /h	Max 2000 m ³ /h
Exhaust duct:	Ø 200 mm	Ø 200 mm	Ø 200 mm
Residual values Glass fraction:****	Max. 0,1 mg/l (leachate)	Max. 0,1 mg/l (leachate)	Max. 0,1 mg/l (leachate)
Outputs, all models:	Glass, e-base/socket/end-caps and fluorescent powder		

* The material to be processed should be dry, augerable, without dirt and free from all kind of packaging. And of such kind and condition as is intended and expected for the application of the equipment. For limitations, health and safety and environmental protection provisions, see operations manual.

** The room has to be ventilated by fresh air not less than 3 exchanges/h. The Hg concentration is mainly depending on how waste is handled in the room and how maintenance work on the equipment is executed. The machine itself generates only negligible amounts of mercury concentration in the room during operation.

*** The process air is discharged through series connected carbon filters.

**** Hg content values have to be confirmed by using leachate procedure in accordance with SS-EN12457-2. The conditions for that the above presented Hg values are kept within the guaranteed max values, are that the fluorescent tubes are dry and have been stored indoors prior to the process and that the MRT instructions for the operation of the plant always are followed.

PURCHASE SPECIFICATIONS AND ADDITIONABLE OPTIONS

The purchase will include the following components:

Manual bin turning device (CFL) for 140L wheelie bins
Horizontal TL feeding table for lamps up to 2400mm
Crush auger
Vibration feeder
Sieve
Transport auger
Tumbler
Fan
Carbon filters
Particle (cartridge) filter
Powder cyclone
MRT Premium™ Connect

Options:

All-metal separator
Double drum sieve
Magnetic separation system
Powder collection in plastic bags
Powder collection in 30L distiller barrel
Mechanized feeding of Tls up to 2400mm
Process monitoring (remote)
Remote plc access by MRT
Alternative electrical connection

EEC Conformity:

The equipment is manufactured in accordance with:
EEC Directive on Machinery (2006/42/EG)
EEC Directive on Low Voltage (2014/35/EG)
EEC Directive on Electromagnetic Compatibility, EMC (2014/30/EG)

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