

LOADING AND UNLOADING MACHINES

WESMAN UTTIS CHARGE CARS are manufactured on the basis of designs and drawings of UTTIS, Romania and Wesman's experience and expertise in manufacturing and supplying these types of equipment successfully for more than two and a half decades which now gets coupled with the additional technical inputs of our collaborator. Accumulating advanced furnace techniques and new outcomes generated from various industrial fields, the technology involved is distinguished by its simple design, ease of operation and maintenance as well as low running costs.

The powered transfer cars- Loading and Unloading/ Loading machines type **L** and **LU** respectively provide a means of transporting, loading and unloading the charge between the various equipment and stations within the batch heat treating facility and are a part of any batch furnace installation. While the Loading machine can only load in one direction, the Unloading/ Loading machine can load as well as unload in one direction.

Double sided Loading/ Unloading Machine to service furnace equipment on both sides of the aisle called **Universal Loading/ Unloading Machine Type DLU** and fully automated charge transfer cars which can be operated man less are also available.

The Unloading/ Loading machine is a part of all batch furnace installations while in a Two Door type Furnace Installation, Loading Machine also needs to be used.



Standard available and popular sizes are given below but other sizes may be available on request:

SL. NO.	EQUIPMENT MODEL	CHARGE LENGTH in mm	CHARGE WIDTH in mm	GROSS CAPACITY in KG
1.	TYPE 1	910	610	400
2.	TYPE 2	1220	760	1000
3.	TYPE 3	1220	910	1500

KEY CONSTRUCTION FEATURES AND ADVANTAGES OF WESMAN UTTIS LOADING AND UNLOADING

- Fabricated out of heavy duty structural steel shape and plates with heavy duty flanged wheel on one side and flangeless wheels on the other side designed to operate on standard bright bar square rails takes care of line misalignment over a longer distance.
- Unloading sequence executed by heavy duty pulling rods which is more positive in nature.
- Automatic selection and execution of loading and unloading strokes based on the equipment which is being catered with door interlocks for arm movements, prevent mal operation or accidents.
- Double speed geared motor drives with clutch braking for instantaneous stop and start with electronic over current protection.
- Claw movement by hydraulic cylinder which ensures smooth jerk free movement and trouble free operation.
- Safe and simple in operation and operator attention is safe guarded during movements. All elements easily approachable for easy maintenance.
- For double sided charge Car loading is by a combination of pushing chain and arm roads which is positive in nature.

OTHER ACCESSORIES

WESMAN also manufactures and supplies several accessories which are required for charge preparation, storage or movement and though these accessories are designed primarily as companion units for the main batch type heat treating system, but the built-in flexibility allows them to be used independently for other applications as well.

These devices for charge handling can be broadly classified as following.

- **MANUAL or MOTORIZED ROLLER TABLES (R)** suitable for one, two or three charges.
- **MECHANIZED CHARGE TRANSFER TRACKS (MTT)** for automatic transfer of the charge from one side of the installation to the other.
- **HYDRAULIC LIFT TABLES (T)** with normal vertical traverse height of 500 mm.



KEY CONSTRUCTION FEATURES AND ADVANTAGES OF WESMAN UTITIS ACCESSORIES

- Fabricated out of heavy duty structural steel plates, reinforced and welded.
- Design and construction in accordance to match and be compatible to the other equipment of the installation thus offering turnkey solution.
- Provided with large diameter rollers for easy movement.
- Can be designed for fully automatic operation incorporating charge sensing mechanisms.
- All element easily approachable for ease of maintenance.
- Safe and simple in operation as well maintain
- Use of best make of bought out components.

THE WESMAN ENGINEERING COMPANY PVT LTD

WESMAN CENTER, 8 MAYFAIR ROAD, KOLKATA 700019, INDIA

TEL: +91 (33) 40020300 FAX: +91 (33) 22908050

EMAIL: furnace@wesman.com WEBSITE: www.wesman.com

Information in this document is non-binding and subject to modification

REGIONAL SALES AND SERVICE OFFICES:

■ MUMBAI +91 (22) 28509521 ■ DELHI NCR (+91) 93111 35790

■ CHENNAI +91 (44) 2656 1300 ■ BANGALORE +91 (80) 2222 5760

■ COIMBATORE (+90) 93817 70707 ■ AHMEDABAD +91 (79) 3002 7355

■ HYDERABAD +91 (40) 6631 2686 ■ PUNE +91 (20) 4670 3004

For information about UTITIS, please visit www.uttisheat.com