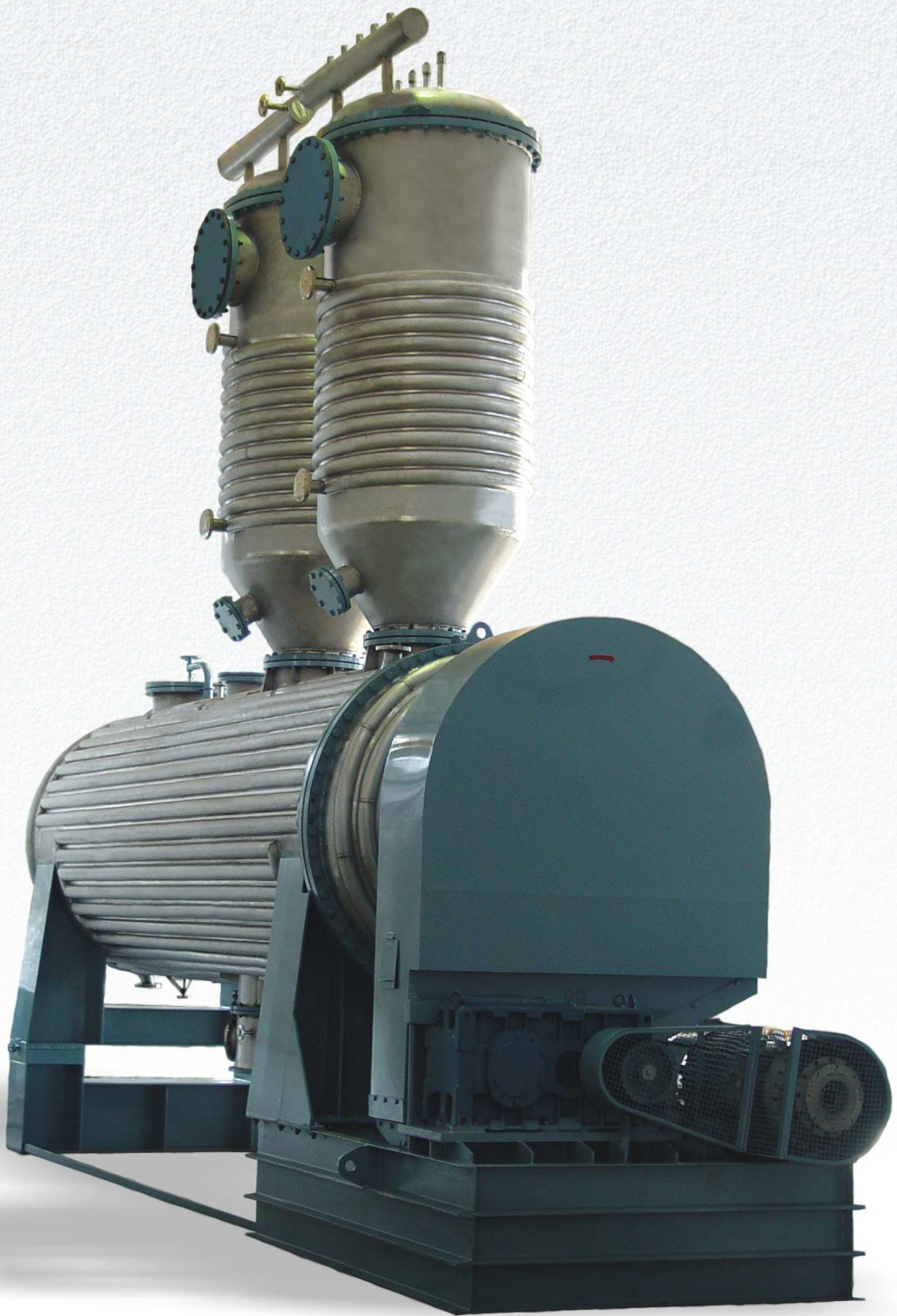


# **HL** ROTARY VACUUM PADDLE DRYER



- **VERSATILE** • **ENERGY EFFICIENT,**
- **COMPLETE DRYING SYSTEM**

**HE** *A PRODUCT OF INNOVATIVE ENGINEERING*  
**HLE ENGINEERS PVT. LTD.**

## M PADDLE DRYER

Paddle Dryer is used to dry a wide range of products. The drying is carried out under vacuum. The operating costs are low. The product is heated by steam or hot liquid. The Dryer is adequately protected by vacuum and is used in the various heated receiver and vacuum

### Also used for

or drying application in compliance with cGMP standards. The dryers with non-heated shaft and scraper are available in various sizes.

and as per ASME Pressure Vessel Code. The dryers are supplied conforming to

### HOLLOW SHAFT AND PADDLES:



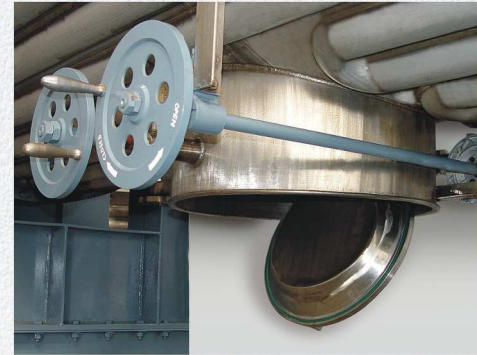
- The hollow rotating agitator shaft imparts heat to the product, scrapes the shell wall, tumbles the product for maximum heat transfer and discharges product when required.
- The large heat transfer area available on the wide paddles and hollow shaft give maximum heat transfer efficiency to the product.
- The scrapers have minimum calculated clearance from the shell to keep the shell clean and increase heat transfer co-efficient.
- Unique condensate removal mechanism employed in the shaft.
- Mechanical Seals are offered for high vacuums.
- Shaft is hardened and ground when gland packing is used.

### DRIVE WITH BASE-MOUNTED GEARBOX:



- Standard designs with gearbox and chain drive are widely employed in the Paddle Dryer. Special skid-mounted design avoids foundation cost and reduces maintenance cost.

### DISCHARGE VALVE:



- User friendly discharge valve design provides vacuum tight closing when the material is processed and quick opening lever facilitates filling of bags when material is discharged and packed.
- Pneumatically closing, opening, locking and cleaning mechanism is offered for automation.

### PRODUCT FILTER:



- Product Filter is very efficiently used to arrest valuable product carried away with the vapours in a filter bag. The arrested product particles are thrown back into the dryer by reverse flow of pulsating air.
- Generally the product filters are heated to avoid condensation of vapours in the filter bag.

### GEARBOX:



shaft, optimizes power consumption and saves on