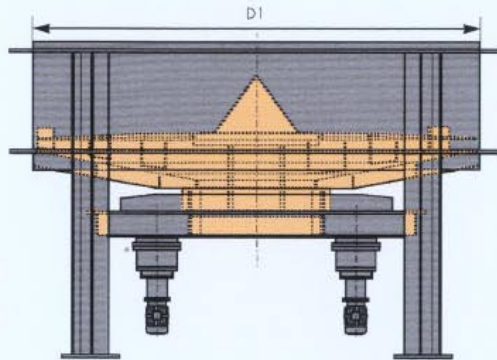


# Standardized Elements to Reduce Spare Parts Stocks

We use the same live rings and gear boxes for all tower sizes, with two to six drive motors powering the tower.

All standardized parts for the discharge system are available from our stock for service work at any time.

We help our customers economize because we save them keeping large spare parts stores.



Discharge System	Diameter D1 [mm]
HCD 175	1750
HCD 325	3250
HCD 425	4250
HCD 500	5000
HCD 600	6000
HCD 800	8000



**High-Consistency Bleach Plants**  
Tower Discharge Systems

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PULP DIVISION

**ANDRITZ**

# Tower Discharge Systems

## Why do so many pulp and paper mills opt for Andritz technology?

### Here is why:

As a market leader for high-consistency bleach plants we offer our customers mature systems for tower discharge. 70 such plants with daily capacities of up to 1200 mt work in pulp and paper mills on mechanical and chemical pulp and recycled fibres, all around the world.

The advantages of our tower discharge systems:

- uniform retention time in the bleach tower due to plug flow
- continuous central stock discharge up to 50 per cent b.d.
- reliable mechanical function
- easy production control

### Three facts that will convince you:

#### Optimum bleaching results due to uniform retention time of the stock

The special vane geometry of the scraper arm in the bleach tower provides for constant stock throughput in the bleach tower. The principle of first in/first out gives the same retention time for all stock particles, resulting in optimal bleaching.

The Andritz tower discharge system is designed for bleach towers of 1.75 m to 8 m in diameter and up to 1200 mt per day.

The throughput is precisely controlled via frequency-controlled motors.



### High operating reliability due to continuous, central discharge

The bleached, undiluted pulp is centrally and continuously discharged from the tower. It is diluted outside the tower in a dilution screw, which also conveys it to the stand pipe of an SF pump or a chest.

The advantage is that the consistency and flow rate from the tower discharge section remain the same - always.

### Bearing and drive system design for bleach towers with larger diameters

The Andritz discharge system guarantees safe operation at stock consistencies ranging from 20 to 50 per cent.

The rigid scraper arm is supported over a large distance. With this design it is possible to build bleach towers as large as 8 meters in diameter, and to start the scraper arm even when the tower is full.



**ANDRITZ**