



PULP & PAPER

# IMPROVED YIELD FROM OVERS

HQ-SIZER CHIP THICKNESS ADJUSTER

The ANDRITZ HQ-Sizer chip thickness adjuster transforms oversize and overthick fractions into accepts and produces only a negligible amount of pins and fines. It is used in the place of chip conditioners, crackers, rechippers, or slicers. In roundwood chipping, imperfections in the incoming logs (e.g. knots) disturb chip formation and

create oversized or overly thick chips. A certain amount of overs are also produced while processing log ends or broken logs. In order to improve pulping yield from this overs portion, ANDRITZ has refined the development of a "chips chipper" that employs a totally new technique to transform overs into accepts. The infeed spout

of the HQ-Sizer, through its multiple anvil arrangement and special knife construction, positions and aligns the chips flat against the rotating disc with its radial knives. This way, the chips are cut according to their thickness. The nominal thickness of chips produced by the HQ-Sizer can be adjusted within the range of 2 to 6 mm.

**ANDRITZ**

ENGINEERED SUCCESS

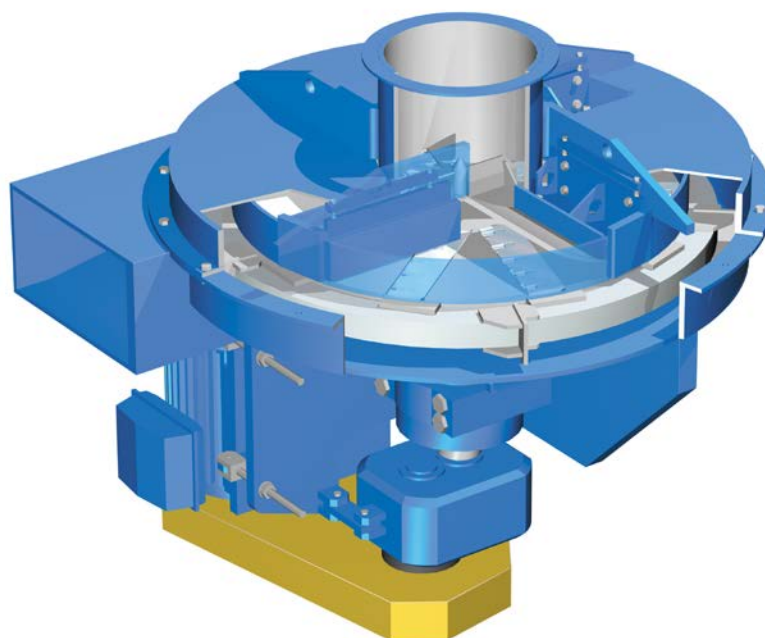
# A simple, well-proven design for a long lifetime

The ANDRITZ HQ-Sizer chip thickness adjuster retains the integrity of the accepted chips since they are well positioned before cutting. Any properly sized chips can pass the cutting knife. The anvil-to-knife construction is well sealed so that oversize or overthick chips can not escape the thickness adjustment. It uses the same vertical shaft and disc arrangement as ANDRITZ log chippers. Slow rotational speed keeps the power consumption low and the robust housing minimizes vibration and noise.

## BENEFITS

- 40% improvement in yield from overs
- 80% of overthick/oversize fractions converted to acceptable chips
- Minimum fines generation (about 1% fines from the infeed)
- Virtually no damage to fibers
- Low operation and maintenance costs

Type	CHS10-L
Capacity (m <sup>3</sup> l/h)	100 – 200
Chip thickness (mm)	2 – 6
Disc diameter (mm)	1,930
Number of knives	10
Electric motor (kW/rps)	132/16.7
Total weight w/o motor (kg)	9,500



Cutaway view of the HQ-Sizer

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