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Superior chipping performance

Valmet Disc Chipper HGS



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Valmet Disc Chipper HGS

Disc chipper HGS defines the new standard for horizontal feed chipping. The HGS type of Disc chipper inherited most of its chipping geometry from the Rauma GS chipper. The present outstanding design is the result of over 200 years' combined chipping experience gained from Rauma, Carthage and Murray chippers. Disc chipper HGS offers the benefits of sixteen patented features.

Superior chip quality

Chip quality is the most important factor affecting pulp quality and total economy in the whole paper making process. This fact has been the major consideration behind the development of the HGS type of Disc chipper. "Thanks to its optimal chipping geometry and back discharge of chips, Disc chipper HGS produces homogeneous chips with optimal thickness, minimum amount of fines, pins, overthick and oversize fractions."

Another important factor affecting chip quality is the optimized control of logs and stable chipping in the direction of the fiber.

The infeed spout and ingenious bed knife design ensure that the logs are securely positioned and aligned against the spout bottom and bed knife even at high capacity.

High capacity

The main factors in high capacity chipping are an even log feed rate, a wide infeed spout and a large number of knives. Disc chipper HGS has one of the widest infeed spouts on the market, specially designed for multiple log chipping. The spout dimensions give both the extra width and height essential for high capacities with small or large logs and for the reduction of log jams.

The ingenious spout design also ensures perfect log guidance for optimum chipping even with a single log.

Excellent durability

More than 2000 heavy-duty chippers have been supplied to date, which is half of the entire number of disc chippers for the fiber processing industry worldwide. This has given us valuable insight into chipper durability in tough conditions.

Our wide experience was utilized in the development of Disc chipper HGS – a heavy-duty chipper which offers a long service life through its unbeatable combination of high reliability and low maintenance.

Benefits

- Higher yield
- Higher strength
- Less rejects
- Less alkali
- Less bleaching chemicals
- Higher uniformity
- Lower energy consumption in TMP

Infeed

Disc chipper HGS is horizontally fed. The horizontal feed chipper is suitable for logs up to full tree length.

Main parts

The chipper consists of an infeed spout, knife disc with shaft, bearings on one side of the knife disc, hood, frames and drive unit.

Infeed spout

The horizontal feed chipper is equipped with a spout. The bottom of the spout is covered with wear resistant hard welding.

Knife disc

The precision-machined knife disc is manufactured from high quality, forged steel plate. All areas exposed to wear are covered with wear-resistant replaceable parts.

The hard-faced heavy-duty wear plates, knife clamps and bed knives are made of special steel for maximum wear resistance. The segmental wear plates are adjustable for easy change of chip length. This is beneficial when adjusting chip quality for various weather or material conditions.

Knife clearance

Knife clearance is the essence of the chip quality. Disc chipper HGS features minimum knife clearance along the whole chipping width thanks to a Chipper thrust bearing and an extremely robust shaft assembly. The smaller knife clearance ensures better chip quality. The adjustment of knife clearance is made by moving the bed knife. The knife disc is in a fixed position.

Drive unit

The horizontal feed chipper drive unit is located on the front. The drive unit consists of a four (4) special AC motors, a foot-mounted gear reducer and gear coupling. The chipper is equipped with a disc brake assembly.

Knife systems

The chipper can be equipped with a Durable knife or Reversible knife system. The Durable knife system allows multiple grinding, resulting in low knife costs. Knife width adjustment is usually performed with adjusting screws.

Other features

The chipper hood is equipped with a maintenance sector for easy accessibility during knife change.

Options

For upgrading your chipper performance as well as for fast, easy and safe maintenance, various service packages are available:

- Valmet Easy Drive chipping speed control and chip quality optimizing system
- Valmet Quick Lock one-bolt knife fastening system for quick and easy knife change
- Valmet Easy Tool remote-controlled tool to operate QuickLock automatically
- Valmet Easy Turn disc rotation device for safe and easy knife change
- Total chipper service with customized service agreement and spare parts