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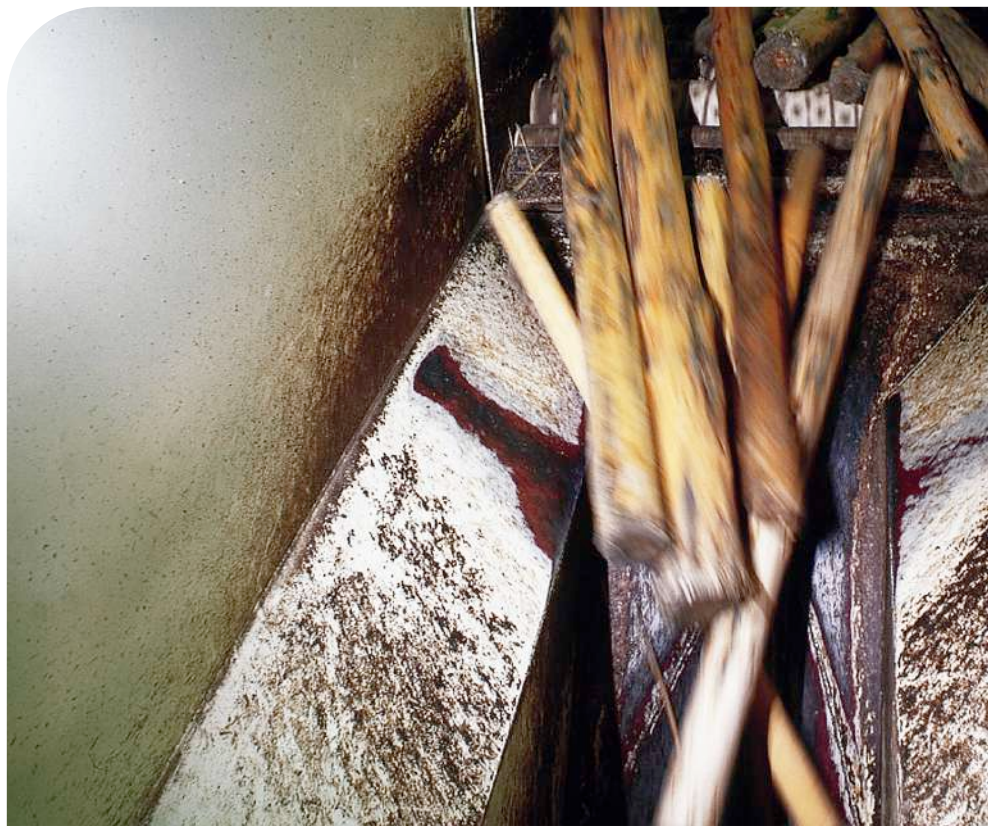


Optimized chipping performance

Valmet Disc Chipper GSN



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Valmet Disc Chipper GSN

Disc chipper GSN 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 GSN offers the benefits of sixteen patented features.

Optimal chipping

For economical wood usage and minimal wood losses, optimal chipping is the most important factor affecting production quality and total economy in the wood preparation process. This fact has been the major consideration behind the development of Disc chipper GSN. Thanks to its optimal chipping geometry Disc chipper GSN produces thin, homogeneous chips with a small amount of fines, pins, overthick and oversize fractions. Another important factor affecting chip quality is optimized and stable chipping. The infeed spout and ingenious bed knife design of the GSN type of Disc chip-

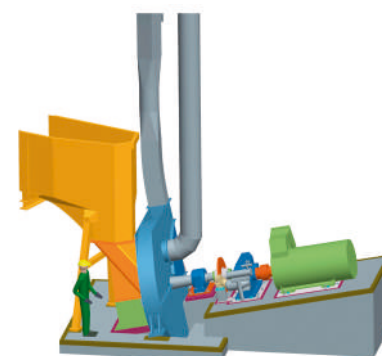
per ensure that the logs are securely positioned and aligned against the spout bottom and bed knife even at high capacity and with poorer wood quality.

Capacity

The main factors in high capacity chipping are an even log feed rate, a wide infeed spout and as large a number of knives as necessary. Disc chipper GSN has the widest infeed spout 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.

Durability

We have supplied more than 2000 large chippers 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 all conditions. Our wide experience was utilized in the development of Disc chipper GSN.



Infeed

The chipper can be either gravity or horizontally fed. The gravity feed chipper is suitable for log lengths of up to 7 meters (23 ft). For longer logs (tree length) the horizontal feed chipper is used.

Discharge

Disc chipper GSN is designed for back, bottom or blowing discharge.

Main parts

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

Infeed spout

The spout bottom of the chipper is covered with wear-resistant hard welding.

Knife disc

The precision-machined knife disc is manufactured from high quality steel plate. All areas exposed to wear are covered or coated with wear-resistant material.

Knife clearance

The adjustment of knife clearance is made by moving the knife disc. The bed knife remains in a fixed position.

Drive unit

The chipper drive is located either to the front or back of the knife disc. The drive unit consists of a squirrel cage motor, flexible coupling, foot-mounted gear reducer and gear coupling. The chipper is equipped with a disc brake assembly.

Alternative drives are twin motor, synchronous motor, slip-ring motor, or the frequency controlled Easy drive system.

Knife system

The knife system utilizes 12.7 mm (1/2") thick knives, which allows multiple grindings, resulting in low knife costs. Knife width adjustment is 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 system to achieve the best possible chipping result by optimizing the cutting speed according to season and wood quality
- Valmet Easy Turn disc rotation device for safe and easy knife change
- Knife position indicator for quick and accurate knife run-out measurement
- Total chipper service with customized service agreement and spare parts