



IGGESUND TOOLS

THE CUTTING EDGE OF CHIPPING AND DEBARKING TECHNOLOGY



SCANCHIP

KNOWLEDGE ABOUT WOOD CHIPS



Our many years of experience with the wood raw materials used for pulping have been combined with optical technology to develop the ScanChip® System.

With ScanChip, Igesund Tools has taken another stride for quality.

It is now possible to continuously determine the quality of chips regardless of the source or content of the raw material supply. ScanChip is an advanced concept for the pulp and paper industry, making it possible to optimize the pulping process and maximize wood utilization.

ScanChip is a total concept that uses computer technology to continuously measure and analyze massive volumes of information. The length, width and thickness of each wood chip are recorded directly from the current stream of wood chips supplying the pulping process. From the chip dimensions, the system calculates the chip size fractions according to different laboratory screening methods.

THE NEW TECHNIQUE

The ScanChip analyzer is a combination of three integrated systems: the chip sampler, the measuring unit and the computer equipment.

The chip sampler works automatically and is calibrated to take statistically representative chip samples. The sampler is controlled by photocells to maximize the capacity of the system.

The measuring unit consists of two vibratory conveyors, a belt conveyor, the camera unit, and return conveyors. The chips are delivered directly to the measuring unit from the sampler. The vibratory conveyors separate the chips before falling on the belt conveyor. The belt conveyor passes the chips through the measuring zone under the camera unit at a calibrated speed. The chips are then returned to the process - No raw material is wasted!

The computer equipment analyses the substantial amount of measurement data obtained from the measuring unit and continuously displays the calculations using a variety of charts and reports. These reports are available for almost any measurement period – the past 24 hours, the most

recent shift, or for the current flow of wood chips passing through the system. The computer can also be linked to the current mill control system to allow for chip quality data to be utilized on-line.

ADVANTAGES THROUGH SPEED AND EFFICIENCY

The ScanChip concept is based on four key factors: speed, volume, analysis and accurate evaluation.

Utilized correctly, huge benefits can be achieved in the form of increased quality and smoother operation from the pulp mill. Such a fine tuning of the production process will:

- Lower costs through an optimal utilization of the wood raw material
- Improve the quality of the end product
- Reduce environmental impact
- Increase profitability

CONTROLS THE ENTIRE PROCESS

Knowledge about the quality of wood chips in the process gives pulp and paper producers a basis that can be used to directly affect the quality of the finished product, the company's profitability and the overall environmental impact. To achieve these benefits, direct and representative chip quality information is required. The ScanChip System is developed to meet these demands.

It is possible to install the system to analyze the chips at several different stages of the process, depending on your requirements. To date, systems have been installed to measure the digester feed and the chipper production. Another position is to measure purchased chip receipts.

THE MOBILE SCANCHIP ANALYZER

A fully equipped mobile unit is available for testing and special projects, all according to the mill's individual needs. The unit gives pulp and paper producers an excellent opportunity to learn the advantages of this optical analyzing system and show how to get the optimal utilization out of their chips.

