

of big challenges in tight areas while minimizing ground disturbances. In addition, the 4000AWL offers impressive lifting capacity and a compact size that easily works inside fenced-in yards, pens, nurseries, and more.

The 4000AWL is outfitted with a standard skid steer attachment plate and can accommodate many attachments. In addition, the quick-attach system enables users to quickly and easily switch from a bucket to forks or other tools for optimum on-the-job flexibility and bottom-line performance.

The telescoping boom provides excellent lifting and dumping height, enabling loading on high-sided trucks and other applications that require extended reach. The 4000AWL has a maximum lift height (measured at the hinge pin) of 126" (320.7 cm). With its 48 HP (36-kW) Isuzu 4LE2T diesel engine, the 4000AWL generates a working lift capacity of 4000 lb (1814.4 kg).

The 4000AWL has been built with operator comfort and safety in mind, including a low-profile suspension seat within the ROPS/FOPS-certified roll cage. In addition, the open-air design provides a clear view of the worksite in all directions, and easy-to-use controls make these machines simple for anyone to operate. Visit morbark.com.

CHEMICAL SENSING



The result of hyperspectral imaging is shown on the right; in this case, a growth defect (knot)

Using the Perception HEAD enables the Woodtech Div. of Wintersteiger AG to precisely detect the structure of defects in wood. This allows chemical characteristics such as blue stain, weak spots, branch decay, galls, and knotholes to be precisely scanned and machined, setting new quality assurance standards in the timber industry.

Perception Park now supplies the Perception HEAD, a special solution that uses hyperspectral imaging technology. This innovative technology that enables the "chemical sensing" of the raw material to be identified has aroused a great deal of interest among Austrian machinery and plant engineering businesses.

Another application example is a need to distinguish heartwood from sapwood when cutting green round timber, such as pine. Since the color of the heartwood will only change on contact with UV light, production has to be halted to be able to definitively detect the differences. Using the Perception HEAD means the wood can be scanned and classified at the sawing stage.

Wintersteiger is testing hyperspectral

imaging for other customer requirements, e.g., for moisture measurement to trace signs of decay when analyzing glued joints in multilayer boards or when detecting resin.

This cooperative development between the Woodtech Div. of Wintersteiger AG and Perception Park GmbH is set to further strengthen the position of both companies in the market. Visit wintersteiger.com.

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