

Kubota Adds Articulated Wheel Loaders

COMPTON, CA. — Two new articulated wheel loaders, the R310 and R410, were recently added to Kubota Tractor Corporation's growing product line of compact machinery. Both offer the same quality and versatility as Kubota's original articulated wheel loader, the R400, but are equipped with additional features, making them ideal for construction, landscaping, plumbing, ranch, farm and nursery needs.

The two new models have a strong channel frame design and feature L.S.T. -- Load Sensing Transmission -- which automatically changes from high speed with low torque, to low speed with high torque as load conditions vary.

The R310 and R410 are each equipped with a liquid cooled, four-cylinder Super Five engine with a 26.6 HP and 39.5 HP, respectively. Both engines are designed for low noise and offer a self-bleeding fuel system. The R310 has a TVCS injection system.

Operating weight for the R310 is 4,895 pounds, with hydraulic lifting capacity of 1,630 pounds. At 6,070 pounds, the R410 offers 2,745 pounds of hydraulic lift.

These compact wheel loaders have four-wheel drive and fully articulated steering at angles of 41 degrees for the R310 and 40 degrees for the R410.

A three-pump system featuring auxiliary hydraulic ports keeps the wheel loaders' power steering, loader operation and load sensing transmission running smoothly.

The front and rear quick-attach systems make it easy to use attachments to maximize the wheel loaders' efficiency and versatility. Diverse attachments include a backhoe, a three-point hitch and box scraper, pallet forks, ROPs and several buckets. A sweeper broom and hydraulic augers are also available for use with the R310 and R410.

Kubota Tractor Corporation markets a complete line of tractors from 10 to 85 PTO horsepower, along with a variety of performance matched implements, compact construction equipment and consumer products.

The R310 and R410 articulated wheel loaders are available through authorized Kubota construction equipment dealers. For more information about these or other Kubota products, please contact Kubota Tractor Corporation at 550 W. Artesia Boulevard, Compton, California, 90220.



Kubota's new articulated wheel loaders are ideal for a variety of construction, nursery, landscaping, plumbing, ranch, and farm jobs.

Cargill Pilot Plant Assists Product Testing

ELK RIVER, MN — Cargill's molasses liquid products division recently completed a pilot plant here that allows liquid feed products to be manufactured and evaluated on a small scale before they are approved for production and distribution.

David Jarrett, pilot-plant manager for the division, said the \$200,000 facility has 4,000 square feet and includes office space, a product laboratory, storage for ingredients and a specially designed, small-scale mixer that simulates mixers in Cargill's 16 U.S. liquid-molasses production facilities.

The pilot plant is an addition to Cargill's Research Farm, making

it possible to conduct livestock feeding trials with the division's products.

"The pilot plant is the only facility in the industry where we can mix and evaluate products after they are produced in a research lab but before they are manufactured in large quantities at our production plants.

"Products often react differently when produced in large quantities than they do in a small research beaker. Our mixer can handle 500-pound to 1-ton quantities of liquid products, so we can determine with considerable accuracy how products will react in mixers that handle up to 25 tons," Jarrett said.

The evaluations include product handling and storage quali-

ties, plus product stability and equipment performance under extreme climate conditions.

"We can drop the air temperature to 20 degrees below zero or raise it to 100 degrees above with 90 percent humidity to see how products and equipment react," said Jarrett.

The technical staff conducts tests on equipment such as pumps, mixers, recirculation and heating

systems. The plant's one-ton mixing capability also makes production of many products for small-scale feeding trials more efficient, Jarrett said.

Cargill's molasses liquid products division now markets Mol-Mix liquid supplements for feed dealers and dairy and beef producers, and Car-Mil liquid feed ingredients for feed manufacturers and large feedlots.



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