

HYDRAULIC PRESS SYSTEM

Stenmar Group were asked to design a new hydraulic press system for one of Australia's leading cotton processing companies. The high speed, high volume application demanded a powerful, robust hydraulic solution.

The power unit designed and built by Stenmar uses five 110 kW electric motors with thru-drives to power eleven hydraulic pumps. Both piston pumps (torque controlled) and high volume vane pumps are used. The system has a 12 000 litre reservoir and uses a 14" NB pipeline supply.

This feeds into a 6" main pressure line which powers a 700 tonne hydraulic press and a massive "tramper" hydraulic cylinder (5" bore x 4.6 metre stroke).

The tramper cylinder cycles 16 times/minute with precisely controlled actuation and deceleration. To accurately and reliably maintain this high level of control, the system utilizes closed loop proportional valve technology with onboard electronics.

Design, supply, fabrication, mounting, installation and commissioning were done by Stenmar. Much of the work was done on site at a remote regional location. The system has proved both reliable and efficient and is the benchmark for further upgrades at similar sites.

