

BIG TIRES

Intelligent control with Sun solutions



Photographs courtesy of Hedweld Engineering Pty Ltd and Custom Fluidpower Pty Ltd, Australia

Hedweld Engineering Pty Ltd, NSW, Australia, designed their new TH15000 Tire Handler to be heavy duty with a narrow profile conducive to the workshop environment. The TH15000 also meets the demands of the mine operators and mining

service companies that maintain these enormous, material-moving vehicles. Custom Fluidpower (CFP) has a team of mechatronics engineers at their Newcastle NSW branch that worked with Hedweld to specify, design, build and provide the entire manipulator control system. The control system is comprised of Sun valves, manifolds, High Country Tek (HCT) controllers, touch screens and a unique two-way, multi-channel radio remote unit allowing them to turn concept into reality.

Keeping this mobile hydraulics system light, compact and easy to service while maintaining precision handling of the giant tires within the confines of a standard workshop bay is highly complex. The precision needed for this project could only be met by the exclusive use of Sun cartridge valves and HCT controllers.

Market Speak



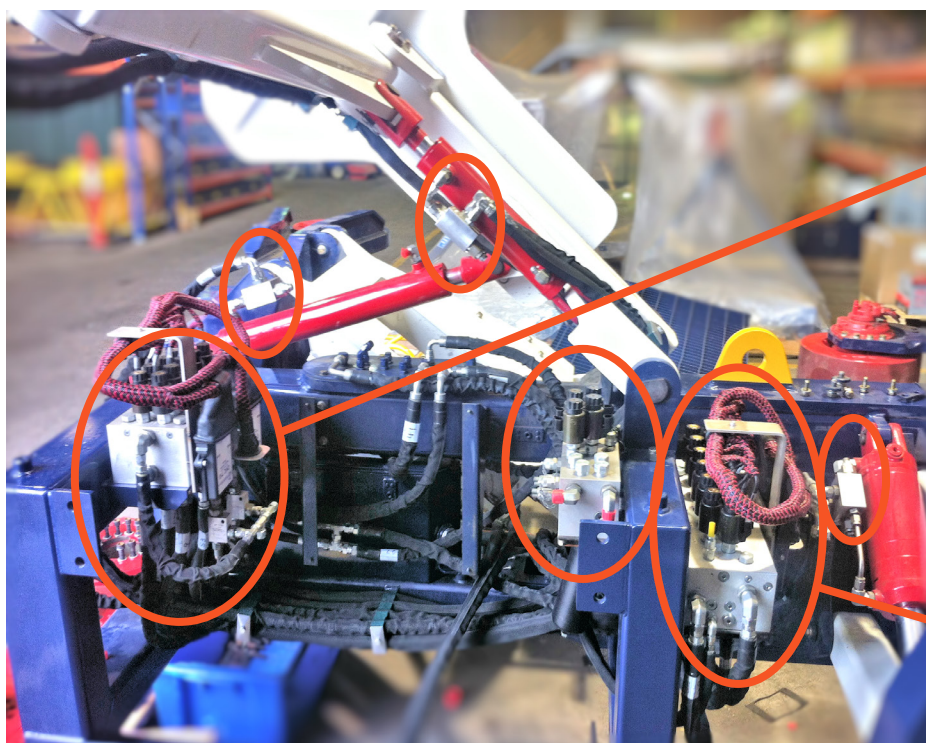
Each machine uses four integrated manifold packages with 36 Sun proportional valves and multiple check valves, while separate counterbalance valves are used with in-line manifolds mounted directly on the cylinders and wheel-hub motors for extra safety.

The machine is entirely controlled by six HCT DVC 710 modules that network to each other using the SAE J1939 digital standard to minimize wiring and ensure reliability.

Production of this machine is expected to be several per year, and, with this first project proving to be such a success, Hedweld is now working with CFP on several other machines that will use products from Sun and HCT in the future.



For more about CFP, visit www.custom.com.au.
For Hedweld Engineering, visit www.hedweld.com and see what other Sun Hydraulics products will be appearing soon.



1500 West University Parkway
Sarasota, FL, 34243 U.S.A.

Ph.: (1) 941-362-1200

www.sunhydraulics.com

NASDAQ: SNHY

Sun Hydraulics Limited

Wheler Road
Coventry CV3 4LA
England
Ph: +44-2476-217-400

Sun Hydraulics Korea Corp.

74 Cheongneung-daero
410-gil, Namdong-gu
Incheon 405-818
Korea
Ph: +82-32-813-1350

Sun Hydraulik GmbH.

Brüsseler Allee 2
D-41812 Erkelenz
Germany
Ph: +49-2431-8091-0

Sun Hydraulics China Co. Ltd

Hong Kong New World Tower
47th Floor
300, Huaihai Zhong Road
Shanghai 200021
P.R.China
Ph: +86-21-5116-2862

Sun Hydraulics Corporation

Parc Innolin
6 Rue du Golf
33700 Merignac
France
Ph: +33-673063371

Sun Hydraulics (India)

No. 48 'Regent Prime'
Unit No. 306, Level 3
Whitefield Main Road, Whitefield
Bangalore - 560 066
India
Ph: +0091-80-28456325