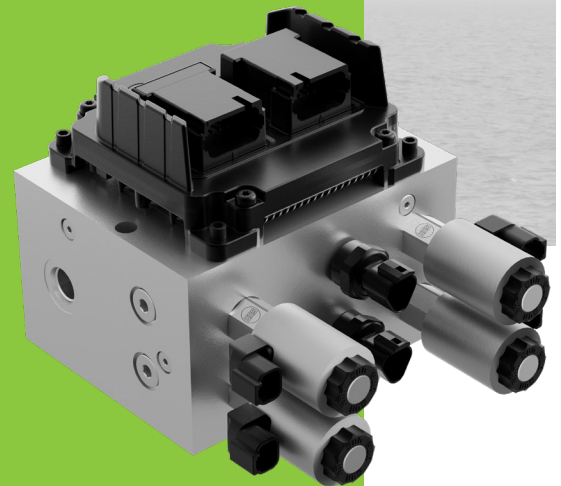


ecoline™



eSense®
advanced motion control
stability +
efficiency



Rev. 2025-11

SUN hydraulics®
A HELIOS TECHNOLOGIES COMPANY

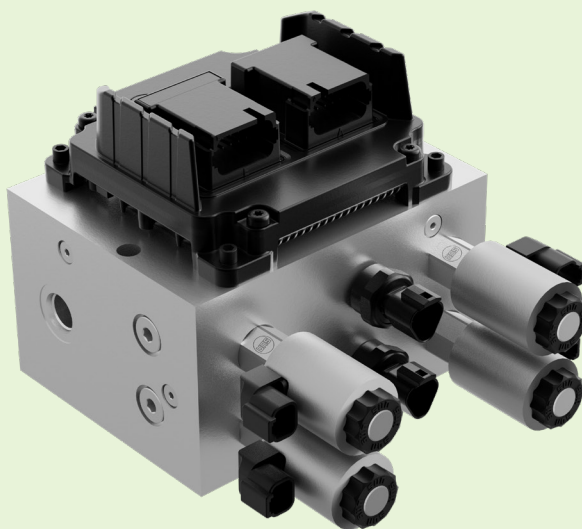
Save energy *without* sacrificing performance with eSense[®]

In collaboration with **Maha Fluid Power Research Center at Purdue University**, Sun Hydraulics has created the next generation of load-holding technology. Part of the new ecoline[™] program, eSense[®] is the efficient and innovative solution the world has been waiting for. This powerhouse solution adapts to any load and provides up to **85% of energy-efficient power** to your application. Combatting the industry's ongoing challenge for shock absorption, eSense[®] provides up to **90% less oscillation**. Resilient and compact, this low-leakage solution is optimized for the user's smooth control and safety.

eSense[®]

featuring the
uControl[™] Mobile
Controller from
Enovation Controls

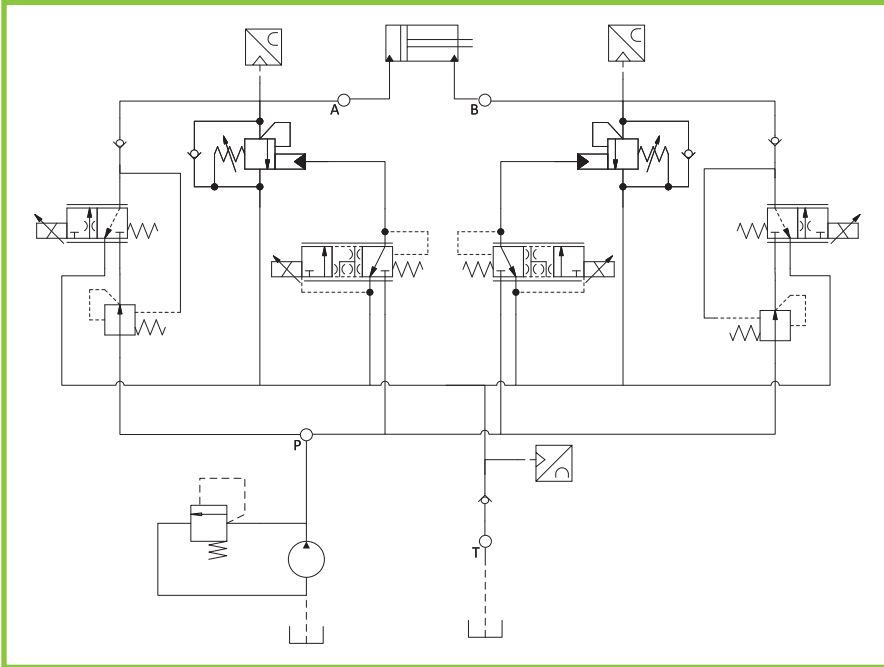
- Multiple CAN interfaces
- High-current output option
- IP69K sealed
- High heat, high-vibration resistance



Includes wiring harness

STABILITY + EFFICIENCY in counterbalance

eSense® example schematic:

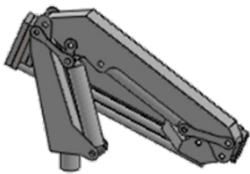


Possible Applications

- Hydraulic Press
- Gantry crane
- Planter
- Material handling machine
- Crane
- Scissor lift

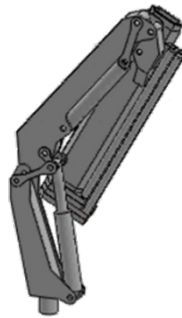
eSense® example results versus standard counterbalance:

Main Boom Extension



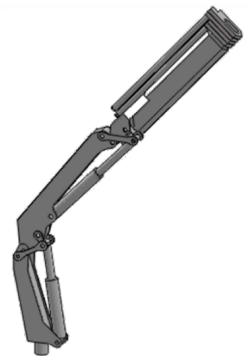
85% Energy Savings
15% Less Oscillation

Main Boom Retraction Outer Boom Folded



78% Energy Savings
1% More Oscillation

Main Boom Retraction Outer Boom Unfolded



84% Energy Savings
89% Less Oscillation

from the World Leader valve technology.

about ecoline™

As a leading manufacturer of high-performance cartridge valves and integrated packages, Sun Hydraulics has gathered a collection of innovative solutions proven to significantly boost and improve energy efficiency, reduce fuel consumption, and ultimately provide cost savings for the end user.

Sun's ecoline™ program is comprised of popular products such as the LoadMatch™ cartridge valve, LoadAdaptive™, Series 4 PLUS cartridges, T-18AU & T-19 AU cavities, Sun Cavity & QuickDesign™, Energen and the latest ecofriendly addition, the eSense® solution. Contact us to learn more about ecoline™ and how these products can optimize the efficiency of your application.



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