

The Right Compressed Air Drain
Can Save Big Bucks
For Your Plant p30

Electric Pump Drives
Come to Mobile
Hydraulics p38

Do Foam and Entrained Air
Contaminate Your
Hydraulic Fluid? p43

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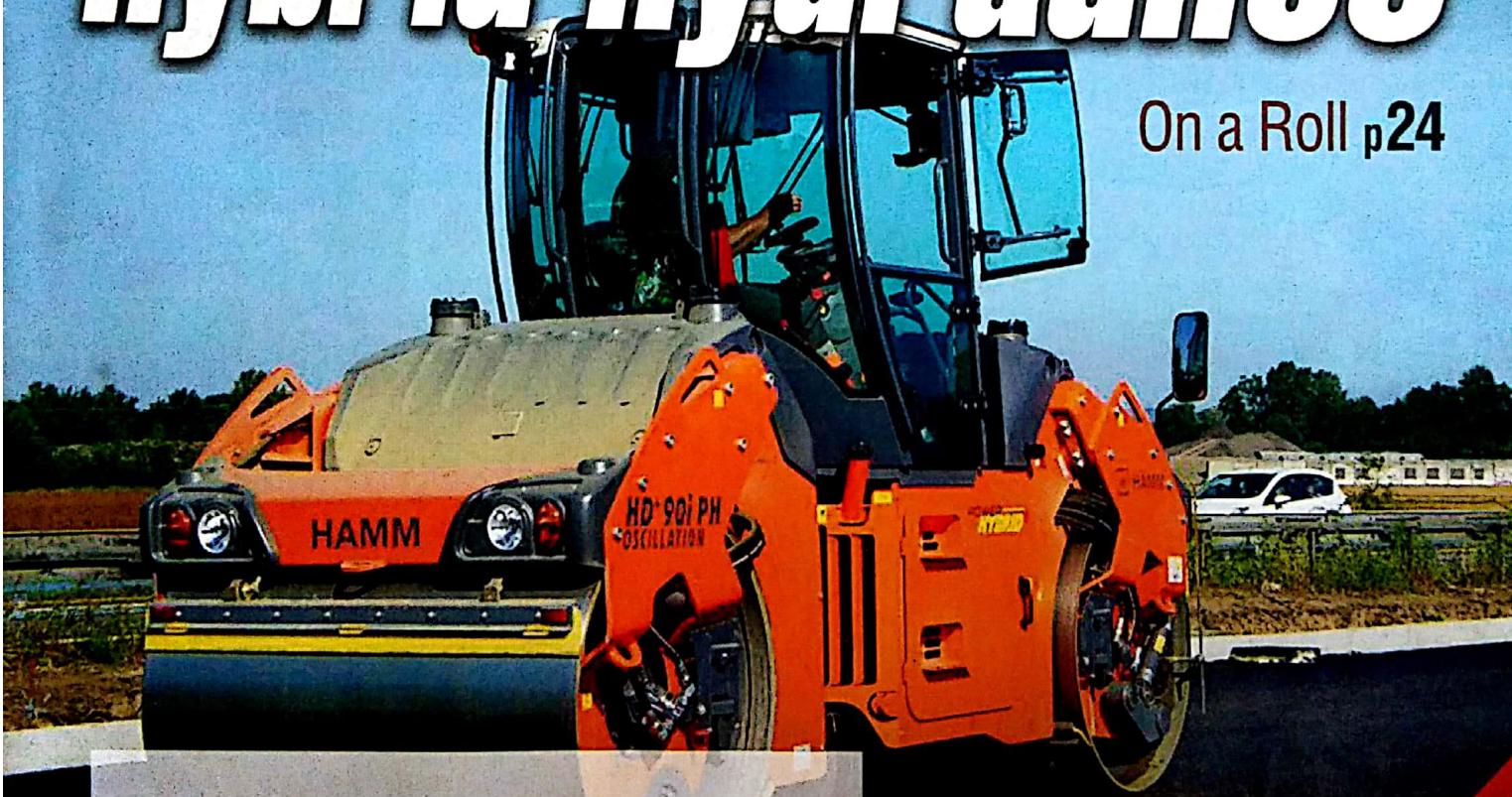
Hydraulics & Pneumatics®

THE AUTHORITY ON FLUID POWER TECHNOLOGY

JULY/AUGUST 2019 hydraulicspneumatics.com

Hybrid Hydraulics

On a Roll p24



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ON THE COVER:
Photo of hybrid
asphalt compactor
courtesy of Hamm AG.

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FEATURES

24 Asphalt Roller's Hybrid Drive Goes Beyond Fuel Savings

A collaboration between a machine builder and a hydraulic supplier led to a new design of asphalt rollers that reduces fuel consumption by 15% or more.

30 The Important Role of Condensate Drains

Alas, the lowly condensate drain is usually often taken for granted or overlooked completely. However, these unsung heroes of a well-functioning compressed air system are key components for proper pneumatic system reliability and efficiency.

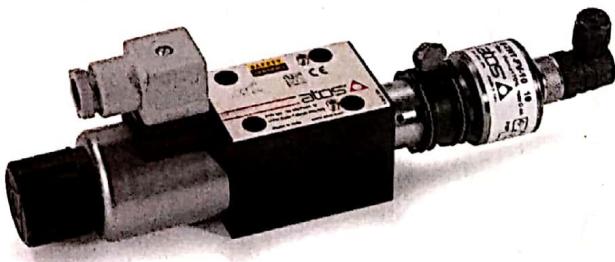
38 Hydraulic Pumps Dump the Diesel

Advances in battery technology have made it practical to incorporate variable-speed electric pump drives in mobile hydraulic equipment, which reduces cost, complexity, and noise by supplementing or eliminating a machine's gas or diesel engine.

43 Protect Yourself from the Invisible Contaminant: Air

Air is the unseen enemy of effective lubrication. Most equipment operators are already aware of the need to keep lubricants clean and free of dirt and water. But air contamination, if untreated, can be equally damaging to equipment.

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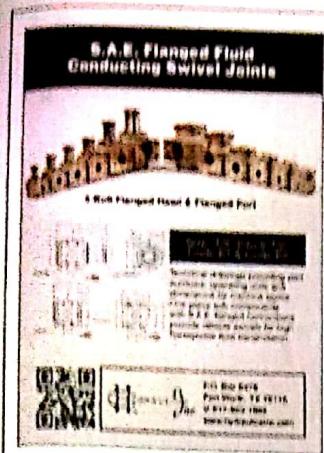


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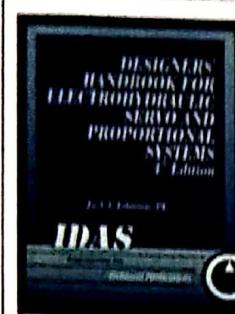
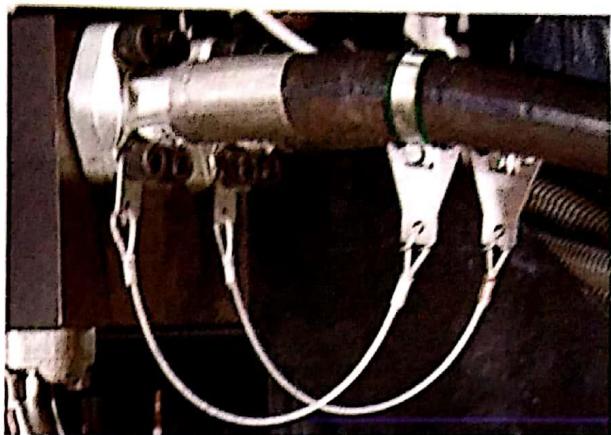


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