Applications

Origa Rodless Cylinders @Work:

Origa advances the efficiency of drum filling

ORIGA RODLESS CYLINDERS @ WORK: ORIGA ADVANCES THE EFFICIENCY OF DRUM FILLING

Problem

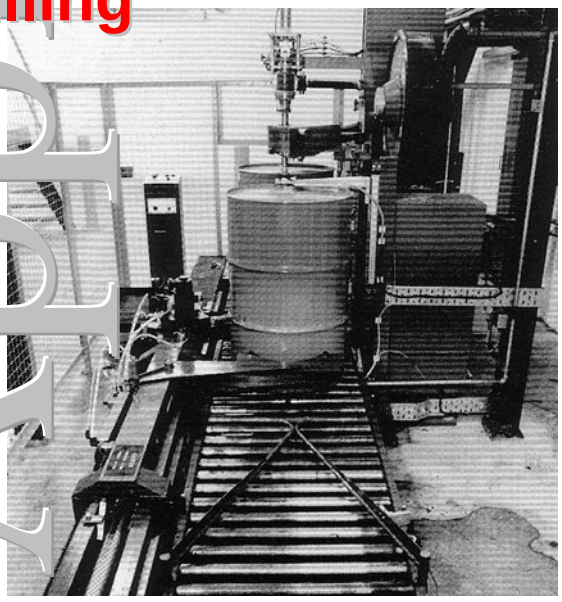
An Origa Rodless cylinder with a stroke of 5 meters is employed by Superform Development Limited as the means of providing lateral movement in a drum filling operation. The cylinder, which measures only a few millimeters more than the 5-meter stroke is mounted horizontally beneath a roller conveyor.

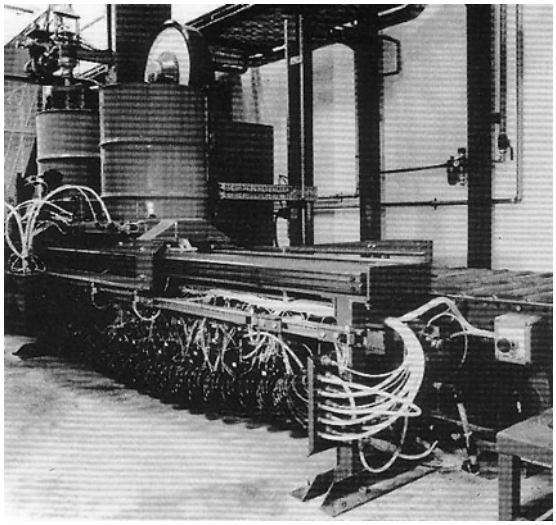
Solution

Having no piston extending from the cylinder, which effectively doubles the length of any construction, the Origa unit has proved ideal for the application. Power and movement are transmitted directly from the piston through a sealed slot in the wall of the cylinder to a yoke on the outside; connected to this yoke is the device that moves the drums on the roller conveyor immediately above.

Results

The 60 mm bore cylinder has three distinct stages of movement. Initially empty drums are moved along the conveyor by the Origa unit, until they meet a pair of compensating arms, which center the drums on the conveyor. Two arms operated by pneumatic rams secure the drums before the Origa cylinder advances them to a special locating unit. This employs fibre optics to position the filling hole accurately in place beneath the nozzle. After being filled with silicone oil through a pneumatically powered lance, the drum continues on its way while the Origa cylinder returns the yoke to collect more empty drums.





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