

# Oil Hydraulic Power and Its Industrial Applications

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## DeZURIK HPU-DHS HYDRASTORM HYDRAULIC POWER UNIT

### Design and Construction

DeZURIK's HydraStorm Hydraulic Power Unit (HPU-DHS) generates a tremendous amount of power to drive most valves fitted with hydraulic cylinder actuators. The HPU-DHS is designed specifically with rugged construction and diverse capabilities to best suit the needs of tough indoor/outdoor industrial applications in numerous industries including mining, power, hydropower, water, wastewater, and others.

HPU-DHS Hydraulic Power Units are available in a variety of AC and DC voltages, three reservoir sizes, flow rates up to 24 gpm (90 l/min), pressures up to 3000 psi (20,684 kPa), and an operating temperature range from -49 to 140°F (-45 to 60°C).

The HPU-DHS system is compact, portable, quiet and fully enclosed with IP66 protection (dust tight, water jet protected). Offered with intuitive operator controls and capable of operating a number of valve actuators, the HPU-DHS is both user friendly and easy to maintain.

### Application

The HPU-DHS is used in applications that would encounter power failures and extreme environmental conditions, where higher speeds & controlled valve actuation is critical. Due to their high power density, & lower power usage, hydraulics are often the chosen method for valve actuation in challenging applications.

### Base Frame

HPU-DHS Hydraulic Power Units enclosure includes an ergonomically designed base frame positions the control panel at a 48" operator height. The operator interface, with large buttons and switches, allow for gloved operation. Lifting eyes are incorporated into the frame for easy lifting and footpads on the legs are pre-drilled to allow the unit to be secured



to a surface. The entire structure and reservoir are coated for protection.

### Operation and Maintenance

Controls for Valve Open, Valve Close, Light On/Off, and Heat Cycle On/Off are included on the face of the control panel. Temperature of the oil and ambient air temperature are monitored, and help with the heat cycle for efficient operation. The warning indicator lamp blinks to indicate, Dirty Filter, High Temperature, and Service Interval. Area

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Oil hydraulic power and its industrial applications. Front Cover. Walter Ernst. McGraw-Hill, - Technology & Engineering - pages. Oil hydraulic power and its industrial applications. Front Cover. Walter Ernst. McGraw-Hill Book Co., - Technology & Engineering - pages. Oil hydraulic power and its industrial applications. Front Cover. Walter Ernst. McGraw-Hill, - Oil hydraulic machinery - pages. Oil Hydraulic Power and Its Industrial Applications by Middleton, R. L. and Ernst, Walter and a great selection of similar Used, New and Collectible Books. Oil hydraulic power and its industrial applications /? Walter Ernst. Author. Ernst, Walter. Edition ill. ; 24 cm. Subjects. Oil hydraulic machinery. Language. Oil hydraulic power and its industrial applications by Walter Ernst, , McGraw- Hill Book Co. edition, in English - 1st ed. Oil hydraulic power and its industrial applications / by Walter Ernst. Subjects: Oil hydraulic machinery. Physical Description: xi, p.: ill. ; 24 cm. Locate a. In modern terminology, hydraulics implies a circuit using mineral oil. The other common fluid in fluid power circuits is compressed air. Hydraulic power units are used in many industries. They provide the Oil field and oil clean up equipment. Theatrical Even a car mechanic uses hydraulics to change a tyre and to lift the car in order to make repairs to it. The mass and spring constants are hard quantities and result in a hard, [2] Ernst, W., Oil Hydraulic Power and Its Industrial Applications, 2nd ed., New York: .Ernst, W., Oil Hydraulic Power and its Industrial Applications, New York: McGraw Hill. 4. Lewis, E. E., and H. Stern, Design of Hydraulic Control Systems, New. Oil Hydraulic Power and Its Industrial Applications - Buy Oil Hydraulic Power and Its Industrial Applications by Walter Ernst, R L Middleton, Ernst, Middleton only. Ltd Hydraulic Power, Ian McNeil, Longmans Hydraulic Power and Hayward Tyler, Oil Hydraulic Power & Its Industrial Applications, Walter Ernst. High-torque low-speed hydraulic motor (courtesy Carron Hydraulics). LOW SPEED Oil hydraulic power and its industrial applications. McGraw-Hill Book Co. The elements of hydraulic engineering. D. Van Nostrand Co., p \$ Ernst, Walter. Oil hydraulic power and its industrial applications. McGraw-Hill. Industries. Oil & Gas. Subsea production; Intervention and Workover (IWOCS); Valve Our hydraulic power units are manufactured in-house to maintain the highest focus designed by AFP to meet the widest range of hydraulic applications. Hydraulic pumps are similarly coupled, but their functions diverge mover and an oil-filled reservoir to leverage muscle from flow and pressure in the closed loop. delivery of fluid power benefits huge industrial applications. The expression oil hydraulics indicates a specific industrial sector that deals In typical oil hydraulics application, the oil flow rate generated by a pump in an oil. A hydraulic cylinder is a mechanical actuator that is used to give a unidirectional force through a unidirectional stroke. It has many applications, notably in construction equipment (engineering Hydraulic cylinders get their power from pressurized hydraulic fluid, which is typically oil. The hydraulic cylinder consists of a.

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