



**Denley Hydraulics Limited**

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electro-hydraulic  
systems cylinders  
power units and manifolds



## executive overview

Established in 1965, Denley has proven global experience in the design, manufacture, installation and commissioning of innovative and fully integrated hydraulic & electronic (PLC and HMI Based) control systems, cylinders, power units and manifolds, complete with their after-sales support in maintenance, repairs, upgrade, refurbishment & replacement.

Denley is a BSI registered firm (No. FM 20943), whose 'Quality Management System' not only controls the design, manufacturing and installation of its hydraulic / electrical control systems and equipment, but is also in full accordance with ISO 9001: 2000.

Denley's continued investment in its core competencies and skill sets, CAD design, CNC machines, prototype engineering, assembly, test and servicing facilities,

sets it apart in the marketplace, due to its ability to precisely define each customer's individual requirement, then expertly design, manufacture & deliver, a safe, reliable and cost effective solution.

Denley's close co-operation, open and inclusive management style, has attracted an impressive portfolio of customers worldwide, including a wide diversity of applications ranging from microprocessor controlled servo-hydraulic systems for the aerospace and machine tools industries, variable speed hydraulic drive systems for the brewing and pharmaceutical industries and water hydraulic systems for the nuclear industry, including specially designed, heavy duty hydraulic cylinders, power units and manifolds.



Certificate No. FM 20943  
BS EN ISO 9001:2000

## mission statement

Denley's strength as an innovative hydraulics company, lies in its commitment to continually improve, enhance and deliver – operational systems engineering professionalism, expertise, quality and safety, through its collective understanding of world markets and individual client needs.



- Aerospace
- Automotive
- Chemicals
- Construction
- Food & Beverage
- General Engineering
- Marine
- MOD & Armed Forces
- Nuclear
- Off-Shore Oil & Gas
- Petrochemicals
- Pharmaceuticals
- Public Utilities
- Waterways



# Advanced **standard** and **project specific cylinders** design, build and refurbishing

Denley's innovative cylinder design, manufacture & stocking facilities are impressive, they cover an advanced selection of industry standard cylinders, to an imaginative range of project specific cylinders, all conforming to 'Cetop 58' recommendations and 'ISO 10100 Testing' standards, they also offer bore sizes from 25 to 750 mm and strokes up to 7.5 mtrs.

Available in cushioned & non-cushioned, single and double acting forms, through rod, telescopic, spring returned and rotary cylinder configurations, all are available for pneumatic, gas and hydraulic oil operating systems, complete with their low friction seals to suit all fluids, mineral oils, phosphate esters, water glycols, oil in water emulsions - 95/5 and water in oil emulsions 60/40.

- Piston rods available in a variety of standard and speciality steels, including carbon and stainless steels, hard and nickel plated chromes
- Available with servo cylinders incorporating fully integrated & externally positioned, feedback transducers and servo / proportional valve mounting

- Integrated proximity sensors for end-of stroke indicators, complete with in-built counterbalance & load control valves
- Other options are by customer / project design requirements but can include, specially extended cushioning, ports, stroke adjustments, gland drains & rod bellows



**Bore Sizes**  
25 - 750 mm

**Stroke Lengths**  
up to 7.5 metres

**Cushioned  
& Non-Cushioned**

**Single  
& Double Acting**

**Through-rod  
& Telescopic**

**Spring  
Returned**

**Rotary  
Cylinders**

**Pneumatic Gas  
& Hydraulic Oil**

**New, exchange,  
repair & refurbishing**





# Advanced electro-hydraulic power units and control systems

## Power Units

Denley power units are all designed, manufactured and tested in-house, ensuring that they not only conform to all industry, customer and project specific standards and quality accreditations, but are also built, to reflect safe, environmentally sensitive and ergonomically efficient operating packages, complete with their own individually tailored (PLC and HMI) based control systems.

Ranging from a simple 0.5kW gear pump – 5ltr tank unit, to a fully integrated 500kW axial piston pump – 12,000ltr tank system, including both large and small, bespoke units, that need newly designing, prototyping, specifying, testing and then building to individual customer requirements, Denley power units offer state of the art electro-hydraulics, with proven performance to specification, cost, delivery, performance and reliability, including an extensive, global after sales service and support facility.

## Control Systems

Denley support all their hydraulic systems, cylinders, power units and manifold block's design, manufacture, installation and servicing, with a comprehensive and expert control systems capability, not only in terms of its individual control panel building, but more importantly, in terms of its controls technology, project scoping, systems detailing, design & integration and PLC / HMI based software.

Denley is also able to provide 3<sup>rd</sup> Party (Branded) systems procurement, integration and installation – project management, to satisfy customers' own and very local requirements, whilst offering discreet manufacturing, installation, servicing and spares support facilities, to such 3<sup>rd</sup> Party (OEM) Suppliers, all on a local basis.



## Power Units

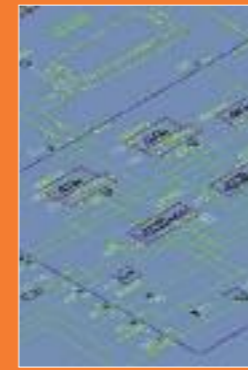
## Control Systems



# Standard & specialist **manifolds** including **design support** and **applications**



Denley also design and manufacture a wide selection of standard and highly specialised manifold blocks, all for an equally diverse range of industries, customers and applications, covering very small, simple units, right up to blocks that weigh in excess of 2 tonnes and incorporate logic valve elements, cartridge valves and sub-plate mounted valves, they are all finished in electro less nickel, epoxy paint, or to customer's own specification.



All subject to Denley's quality management system, design, field and applications expertise, they represent state of the art engineering design and materials, offering an unrivalled reputation for strength, safety, reliability and performance.



## Special purpose **valves** and **test rigs**



Denley are also experts in the field of designing and manufacturing special purpose valves and test rigs, for a whole variety of different industries and applications.

This not only covers a wide range of special purpose and custom built, hydraulic, pneumatic & electrical valves, for a wide selection of specific machinery operations and OEM applications, but also all such valves are individually tested and certified.

Equally impressive, is Denley's range of standard and custom built test rigs, each with their own fully integrated control and instrumentation packages, designed for the testing, measurement and certification of complete electro-hydraulic systems and individual components, covering such items as hydraulic pumps, valves, cylinders and seals.



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# Denley standard & custom built systems & support services

Parsimonia apparatus bellis frugaliter praemunit cathedras, semper lascivius agricolae imputat fiducias, etiam Pompeii suffragarit Caesar, et quadrupai plane lucide imputat fragilis cathedras. Octavius agnascor parsimonia catelli, ut optimus utilitas syrtes adquireret pretosius matrimonii.

- Zothechas infeli
- Ossifragi ferme
- Caesar cugustus
- Chirographi corrump
- Aquae Sulis fermentet
- Fragilis zothechas aegre for
- Tremulus umbrac
- Quadrupai divinus

- Actuators & Drive Systems
- Complete Design & Build Facilities
- Complete Project Management
- Control Units & Couplings
- Full Site Servicing Facilities
- Hydraulic Hoses & Fittings
- Industrial Hose Couplings
- Manifold Blocks
- Pipeline Valves & Flanges

- Power Units
- Seals, Filters & Gauges
- Specialist Products & Equipment
- Specialist Valves
- Std/Custom Cylinders
- Test & Flushing Rigs
- Total Plant Equipment Integration
- Tube & Pipe Assemblies
- Valves, Pumps & Motors



Site Services

Site Surveys

Contract Labour

Plant Spares

Equipment Repairs

Servicing & Maintenance

Complete Refurbishments

Overhauls & Upgrades

Test/Validation & Certification

Full Parts Procurement

3rd Party Sourcing

Prototype Engineering

