

L&T Hydraulics



Ver: 23-24/Web/02
Oct 2023

VISION



L&T shall be a professionally-managed Indian multinational, committed to total customer satisfaction and enhancing shareholder value.

L&T-ites shall be an innovative, entrepreneurial and empowered team constantly creating value and attaining global benchmarks.

L&T shall foster a culture of caring, trust and continuous learning while meeting expectations of employees, stakeholders and society.

L&T Hydraulics : At a Glance



L&T Hydraulics of LTCEL,
A wholly owned
subsidiary of
Larsen & Toubro Limited



Established in 1982 to
manufacture Hydraulic
Motors, Pumps,
Cylinders & Swivel Joints



185+ Employees



ISO 9001 & ISO 14001
Certified



EHS
Compliant

L&T Hydraulics : Key Milestones



L&T Bangalore Works in collaboration with Poclair SA, France established

1975



Joint Venture with Komatsu Asia Pacific – L&T Komatsu Limited

1998



Inauguration of New Hydraulics Works of LTCEL at Doddaballapur

2015



Developed Hydraulics for Girder Transporter & Straddle carrier

2022



1982

L&T Hydraulic works started to manufacture Hydraulic Motors, Pumps, Swivel Joints & Cylinders



2013

LTK became LTCEL, a wholly owned subsidiary of L&T



2016

Supply of Hydraulics to OEM's started from Doddaballapur



Manufacturing Plant

Motor, Pump & Drive Manufacturing



Hangar 2

Cylinder Manufacturing



Hangar 1



Customized Hydraulics Manufacturing



Swivel Joint Manufacturing



Business Segmentation & Products

1 Mobile Hydraulics



- Construction Equipment
- Mining Equipment
- Drilling Equipment
- Road Making Machines

2 Industrial Hydraulics



- Rubber Processing
- Hydraulic Press
- Renewable Energy
- Injection moulding

3 Customised Hydraulics



- Bulk Material Handling
- Civil Construction
- Marine
- Rubber Processing

STANDARD PRODUCTS



CUSTOMISED PRODUCTS



Product Specifications: **Hydraulic Cylinders**



Wide range of Hydraulic Cylinders including telescopic and for special purpose

Bore diameter : Up to 350 mm
Stroke : Up to 4000 mm
Pressure : Up to 450 bar (High Pressure Cylinder) Up to 350 bar (Medium Pressure Cylinder) Up to 250 bar (Low Pressure Cylinder)

End mountings Eye end, Trunnion, Flange and Foot mounting

Typical applications are in Hydraulic Excavators, Backhoe Loaders, Mobile Cranes, Wheel Loaders, Dump Trucks, TM Concrete Pump and other industrial applications



Product Specifications: **Turning Joint**



Turning Joints are used to continuously transfer fluids between two rotating sub-assemblies of an equipment.

L&T Hydraulics Works designs & manufactures Turning Joints / Swivel Joints to suit customer requirements.

Specifications:

No. of ports : 5 to 16

Pressure : Up to 350 bar

Flow handled : Up to 700 lpm

Medium : Hydraulic Oil

Typical applications are in Hydraulic excavators, Mobile cranes and Motor graders



Product Specifications: Radial Piston Pumps



Radial piston multi-flow pumps capable of developing a maximum operating pressure up to 350 bars

Specifications:

No. of flows available : 1, 2, 3, 4 & 6

Direction of rotation : CW / CCW

Displacement (cc/rev.) : 5, 10, 20, 25, 28.5, 40, 58, 65, 74 & 85

Requirements of specific displacement within this range is available on request.

Typical applications are in Hydraulic excavators, Drill rigs, Hydraulic power packs for Material handling systems and Hydraulic Presses.



Product Specifications: High Torque Low Speed Motors



Compact Motor



Torque Motor



Shaft Motor



Wheel Motor

L&T hydraulics Works manufactures HTLS motors which deliver very high torque even at very low speeds. They can operate up to a maximum pressure of 450bar.

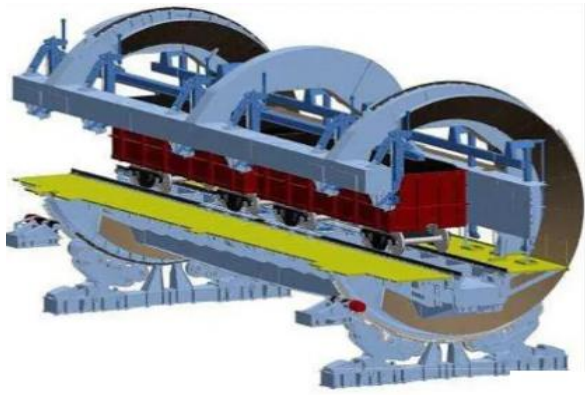
These motors are available in Shaft, Wheel, Compact & Torque versions.

Other options: Static parking brake, Dual displacement, Keyed/Splined shaft & Free Wheeling.

Typical applications are in Excavator Swing/Track, Blast hole drill rigs, Compactors, Hydraulic Winches & Mining & Material Handling equipment.

Type	Displacement cc/rev	Torque @100 bar Nm	Max. power KW	Max Speed (rpm)	
				Higher Displacement	Lower Displacement
H15	1130	1797	52	146	220 *
H20	1979	3147	75	120	180 *
H25	3122	4964	100	100	150 *

Customised Hydraulic Systems: **Applications**



Twin Tippler Hydraulic Power Pack unit



Hydraulic System & Drive for Wagon Tippler



Hydraulic System for Paddle Feeder



Gear Box with Hydraulic motor



Gear Box with Hydraulic motor with Torque Arm Mounting

Customised Hydraulic Systems: **Applications**



Traverser & Pusher Hydraulic Power Pack



Climbing Formwork Hydraulic Power Pack



Side Arm Charger Hydraulic Power Pack



Design Engineering



20+ Engineers

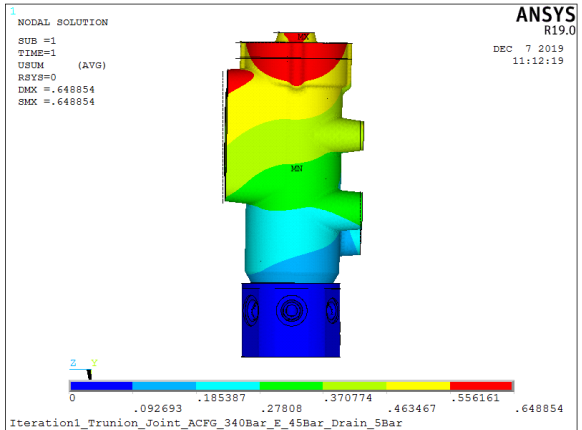


1000+ Designs

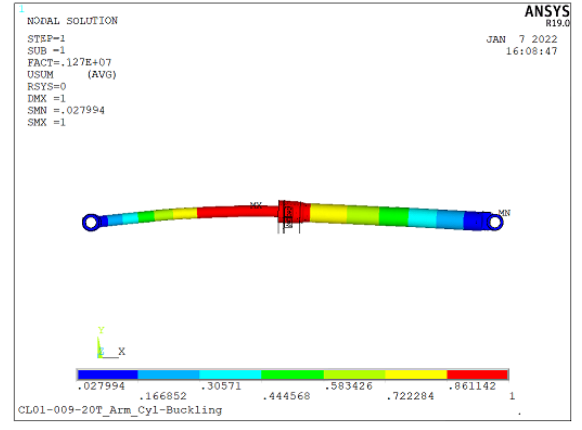


Diverse Application Experience

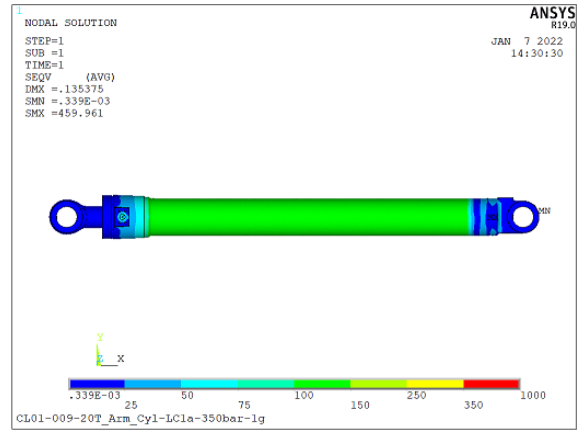
Swivel Joint Stress Analysis



Hydraulic Cylinder Buckling Analysis



Hydraulic Cylinder Stress Analysis





Form tester
for Roundness,
Cylindricity of super
finished parts



Surface Table 00 Grade
for calibration



Carl Zeiss
Co-ordinate Measuring m/c

Quality Excellence



**ISO
9001**



**ISO
14001**



**EHS
Certified**

Bureau Veritas Certification



**L&T CONSTRUCTION EQUIPMENT LIMITED
HYDRAULICS WORKS**

SY. NO. 28, THAMMASHETTI HALLI, RAGHUNATHAPURA, DODDABALLAPURA TALUK, BANGALORE - 561 203, KARNATAKA, INDIA.

Bureau Veritas Certification Holding SAS - UK Branch certifies that the Management System of the above Organisation has been audited and found to be in accordance with the requirements of the Management System Standard detailed below.

Standard

ISO 9001:2015

Scope of certification

DESIGN, DEVELOPMENT, MANUFACTURE AND SERVICING OF HYDRAULIC MOTORS, PUMPS, TURNING JOINTS, CYLINDERS, GEAR BOXES, HOSE ASSEMBLIES, VALVE BLOCKS, HYDRAULIC SYSTEMS AND POWER DRIVES



Original cycle start date: **19 January 1996**
 Recertification cycle start date: **03 May 2023**
 Subject to the continued satisfactory operation of the Organisation's Management System, this certificate is valid until: **04 May 2026**
 Certificate No. **IND.23.5565/QMIU** Version: **1** Issue date: **03 May 2023**

For certificate authenticity, click here <https://certiftrack.ulb.com>

Signed on behalf of BVCS SAS UK Branch
Jagdish N. MANIAN
 Director - CERTIFICATION, South Asia
 Commodities, Industry & Facilities Division

ISO 9001 IN043834



Certification body address: 8th Floor, 65 Princess Street, London, E1 6HS, United Kingdom.
 Local office: Bureau Veritas (India) Private Limited (Certification Business), 72 Business Park, MIDC Industrial Area, MIDC Chhatrapati Shivaji Maharaj, Mumbai - 400 063, India.

For the stakeholders regarding the scope of the certificate and the applicability of the management system requirements may be obtained by contacting the organisation.
 To check this certificate validity please call +91 91 22 6274 2000.

Bureau Veritas Certification



L&T CONSTRUCTION EQUIPMENT LIMITED



L&T Construction Equipment

SY. NO. 27/28, THAMMASHETTI HALLI, KASABA HOBLI, DODDABALLAPURA TALUK, BANGALURU RURAL DISTRICT - 561 203, KARNATAKA, INDIA.

Bureau Veritas Certification Holding SAS - UK Branch certifies that the Management System of the above organisation has been audited and found to be in accordance with the requirements of the Management System Standards detailed below.

Standards

ISO 14001:2015 & ISO 45001:2018

Scope of certification

DESIGN, MANUFACTURE & TESTING OF CONSTRUCTION EQUIPMENT, HYDRAULIC COMPONENTS & SYSTEMS



Original cycle start date for ISO 14001: **17 April 2017**
 Original cycle start date for ISO 45001: **27 March 2020**
 Recertification cycle start date: **23 March 2023**
 Subject to the continued satisfactory operation of the organisation's Management System, this certificate is valid until: **26 March 2026**
 Certificate No. **IND.23.7090/MIU** Version: **1** Issue date: **23 March 2023**

For certificate authenticity, click here <https://certiftrack.ulb.com>

Signed on behalf of BVCS SAS UK Branch
Jagdish N. MANIAN
 Director - CERTIFICATION, South Asia
 Commodities, Industry & Facilities Division

ISO 4001 IN043026
 ISO 45001 IN043026



Certification body address: 8th Floor, 65 Princess Street, London, E1 6HS, United Kingdom.
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Contact Information



Marketing Office & Manufacturing Facility

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Hydraulics Works

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