



**ASSURANCE**  
**HYDROTECH**  
*"Your Trust, Our Commitment"*



## HYDRAULIC CYLINDERS

High-performance hydraulic cylinders engineered for agriculture and construction machinery. Built for power, precision, and durability in tough working environments.

### APPLICATIONS



**TRACTORS &  
LOADERS**



**CONSTRUCTION  
EQUIPMENT**



**MATERIAL  
HANDLING**



**FARM  
MACHINERY**

[VIEW OUR PRODUCT RANGE](#)

# HYDRAULIC CYLINDERS



# ABOUT US

Assurance Hydrotech is a leading Indian manufacturer of hydraulic cylinders and systems, serving a strong global OEM customer base, manufacturing plants and a diverse product portfolio, the company delivers high-quality, reliable hydraulic solutions.

- ✓ Hydraulic Cylinders
- ✓ Hydraulic Systems



## HYDRAULIC CYLINDERS PRODUCT RANGE

### CYLINDERS-

- Welded construction.
- Tie Rod construction. Bolted Flange construction.
- Complete range of mounting Bore 40 mm to 500 mm
- Stroke Length up to 11000 mm



### SPECIAL CYLINDERS

- Hydro-gas suspension cylinders for heavy vehicles
- Multistage double acting Telescopic Cylinders
- Cylinders for -400 C Ambient Temperature
- Cylinders with position sensors and integrated valves.





**CAR PARKING SYSTEM**



**2-WHEELER STACKER**



**EXCAVATOR**



**JCB BACKHOE**



**FORKLIFT**



**TRACK LOADER**



**DOZER**



**INFIELDERS**



**SCISSOR LIFT**



**MISSILE LAUNCHER  
(DEFENSE)**



**HARVESTER**



**CONCRETE PUMP**



# FEMALE CLEVIS (FORK) Cylinders

## Design & Specifications

**Double Acting with Fork Clevis Ends**  
With 4 Ports in cylinder for easy access.



**Colour:**

- Industrial Gloss Black.
- Industrial Gloss Yellow.

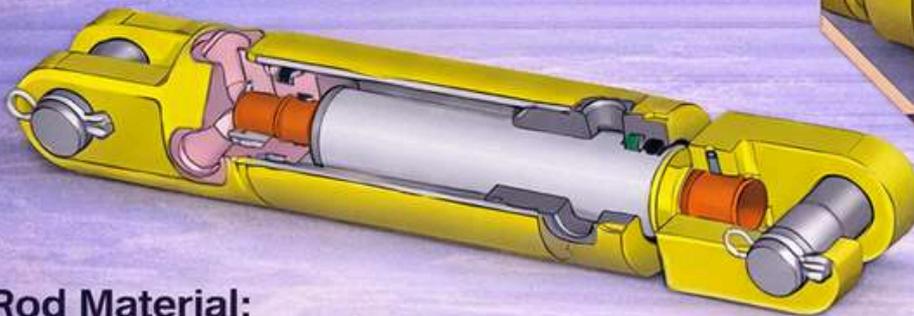
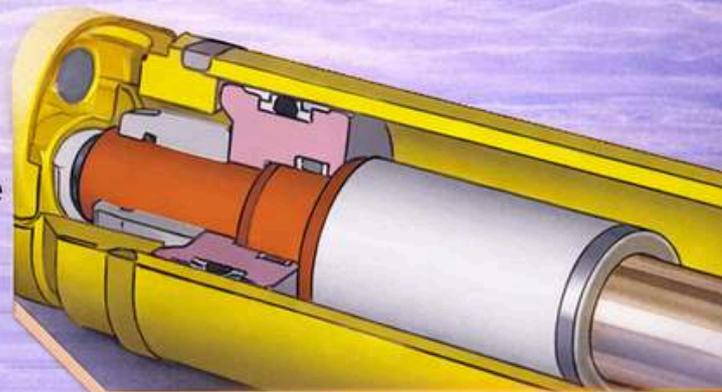
**Working Pressure** : 210 Bar - 3045 PSI  
**Cylinder Test Pressure:** 315 Bar - 4568 PSI



**Seals Maximum Operating Pressure & Conditions**

- Pressures: 414 Bar - 6000 PSI
- Temperature: -30 deg C to +110 deg C
- Speed: 0.5 Meters per Second
- Shock and load holding Capacity
- Double acting K-DAS piston seal providing positive displacement under all rated pressure situations

**Seal arrangement**  
Cap End Side



**Seal Arrangement**  
Rod Eye Side

**Rod Material:**

- EN8D/C45 round bar
- Chrome Thickness: 20 to 30 Microns hard chromed piston rod for superior corrosion resistance • e/ven clore al life

**Tube Material:**

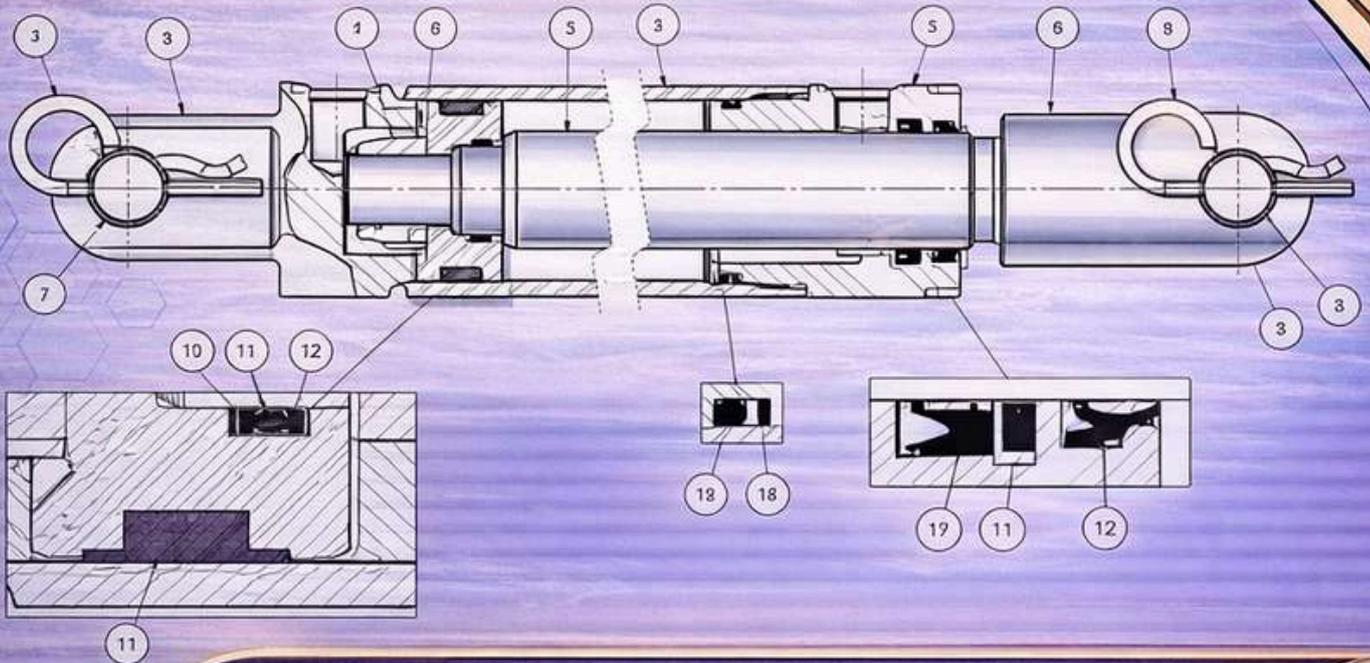
- CDS ST52/E355 steel tube • Seamless steel tube accurately honed to ensure smooth operation and extended seal life

**Gland Material:** SG IRON SG500/7 Spheroidal Graphite  
Cast Iron, tensile strength - 500 N/mm<sup>2</sup>.

**Piston, Front Clevis, Rear End:** EN8D/C45 tensile strength - 650 N/mm<sup>2</sup>.



# HYDRAULIC CYLINDER PARTS & SPECIFICATIONS



## HYDRAULIC CYLINDERS PARTS & SPECIFICATIONS

| No | PART                | DESCRIPTION   |
|----|---------------------|---|
| 1  | CYLINDER TUBE       | CDS ST52/ES3365 seamless steel tube, accurately honed to ensure smooth operation and extended seal life.  |
| 2  | PISTON ROD          | High precision ground, ENBD/C45 round bars fvd bars, hard chrome plated with deposit of 20-30 microns, tensile strength $2 \times 10^8$ N/mm <sup>2</sup> .   |
| 3  | GLAND               | Ductile cast iron – SG500/7, tensile strength – 500 N/mm <sup>2</sup> .   |
| 4  | PISTON              | ENBD/C45 round bars, tensile strength – 650 N/mm <sup>2</sup> .   |
| 5  | REAR CLEVIS         | ENBD/C45 round bars, tensile strength – 650 N/mm <sup>2</sup> .   |
| 6  | PISTON              | ENBD/C45 round bars, tensile strength – 650 N/mm <sup>2</sup> .   |
| 7  | REAR CL             | ENBD/C45 round bars, tensile strength – 650 N/mm <sup>2</sup> .   |
| 8  | PISTON NUT          | Gr 6 – Nylock nut material UTS – 800N/mm <sup>2</sup> .   |
| 9  | CLEVIS PIN          | EN24 – toughened, 85979 round bars, tensile strength – 750 N/mm <sup>2</sup> .  |
| 10 | BETA PIN            | Spring steel for durability and ease of installation/removal.   |
| 11 | PISTON SEAL         | Double acting high pressure, heavy duty seal comprising an an elastomeric profile seal ring two back up rings to avoid ingress. K-DAS piston seal.  |
| 12 | PISTON O-RING       | NBR O-ring, acrylonitrile-butadiene (nitrile rubber).   |
| 12 | PISTON BACK UP RING | PTFE back up ring. polytetrafluoroethylene, internal external high pressure application, reciprocating and rotating movement, capable of large temperature fluctuations, static and dynamic, suited, midnal bjeedhole.  |
| 13 | WIPER SEAL          | Wipers guard against ingress of dust and foreign-particles into the   |
| 14 | GLAND O-RING        | NBR O-ring, acrylonitrile-butadiene rubber (nitrile rubber).<br>PTTE back up ring. polytetrafluoroethylene, internal external high pressure reciprocating and rotating and rotating movement, static and dynamic suited |
| 17 | ROD BACK UP RING    | PTTE back up ring. acrylonitrile-butadiene rubber (nitrile rubber).   |

# Hydraulic Cylinder For Car Parking System



Hydraulic Cylinders for **Car Parking Systems** are engineered for smooth lifting, precise height control, and reliable performance under heavy-duty load conditions.

Designed to ensure safety and durability, these cylinders are ideal for **multi-level and automated parking applications.**

## Car Parking Hydraulic Cylinder – Technical Specifications

- ✓ **Bore Size:** 70 mm to 125 mm
- ✓ **Rod Size:** 50 mm to 100 mm
- ✓ **Load Capacity:** 2.5 Ton to 12 Ton
- ✓ **Maximum Pressure:** 280 Bar
- ✓ **Working Pressure:** 160 Bar



# Hydraulic Cylinder For Scissor Lift



**Heavy-duty Scissor Lift Hydraulic Cylinders** designed for smooth elevation, precise height control, and reliable performance under demanding load conditions.

## Scissor Lift Hydraulic Cylinder – Technical Specifications

- ✓ **Type:** Single / Double Acting
- ✓ **Bore:** 40-150 mm
- ✓ **Stroke:** Up to 2200 mm
- ✓ **Pressure:** Up to 250 Bar
- ✓ Hard Chrome Plated Rod
- ✓ Heavy-Duty Industrial Application



# Hydraulic Cylinder For Goods Lift



Heavy-Duty **Goods Lift Hydraulic Cylinders** designed for smooth vertical lifting, precise load control, and dependable performance under heavy-duty operating conditions. Engineered to handle high loads with stability, safety, and long service life in industrial and commercial lifting applications.

## Goods Lift Hydraulic Cylinder – Technical Specifications

- ✓ **Type:** Single Acting
- ✓ **Bore Size:** 50–200 mm
- ✓ **Stroke Length:** Up to 5300 mm
- ✓ **Working Pressure:** Up to 250 Bar



# Hydraulic Cylinders For Dockleveller



Durable **Dock Leveller Hydraulic Cylinders** engineered for smooth lifting, stable performance, and dependable operation in **heavy-duty loading applications**.

## Dock Leveller Hydraulic Cylinder - Technical Specifications

- ✓ **Type:** Single/Double Acting
- ✓ **Bore size:** 40-125 mm
- ✓ **Stroke:** Up to 5000 mm
- ✓ **Pressure:** Up to 250 Bar
- ✓ **Rod:** Hard Chrome Plated

# Hydraulic Cylinder For Stacker



**Durable Stacker Hydraulic Cylinders** engineered for smooth lifting, stable load control, and long-lasting performance in **heavy-duty material handling applications**.

## Stacker Hydraulic Cylinder – Technical Specifications

- ✓ **Type:** Double Acting
- ✓ **Bore Size:** 40-125 mm
- ✓ **Stroke Length:** Up to 3000 mm
- ✓ **Working Pressure:** Up to 250 Bar
- ✓ **Rod:** Hard Chrome Plated



# Hydraulic Cylinders For Baling Press Machine



Heavy-duty **Hydraulic Cylinders for Baling Press Machines** designed for high-pressure compaction and efficient material compression. Built with high-strength steel construction and hard chrome-plated piston rods to ensure smooth operation, superior pressure resistance, and long service life in demanding industrial environments.

## Baling Press Machines Hydraulic Cylinder – Technical Specifications

- ✓ **Type:** Double Acting
- ✓ **Bore Size:** 63-200 mm
- ✓ **Stroke Length:** Up to 2000 mm
- ✓ **Working Pressure:** Up to 300 Bar
- ✓ **Rod:** Hard Chrome Plated, High Strength
- ✓ **Barrel:** Heavy-Duty Honed Steel Tube

# Hydraulic Cylinder For Light Duty Press Machine

1 TO 30 TONS



Light-Duty **Hydraulic Press Machine Cylinders** (1-30 Tons) designed for smooth operation and reliable performance. Built with quality steel barrels and hard chrome-plated rods for efficient, precise, and long-lasting pressing.

## Press Machine Hydraulic Cylinder – Technical Specifications

- ✓ **Capacity:** 1 – 30 Ton
- ✓ **Type:** Double Acting
- ✓ **Bore Size:** 50 – 150 mm
- ✓ **Stroke Length:** Up to 1800 mm
- ✓ **Working Pressure:** Up to 350 Bar



[www.assurancehydrotech.com](http://www.assurancehydrotech.com)



[sales@assurancehydrotech.com](mailto:sales@assurancehydrotech.com)

# Hydraulic Cylinder For Heavy Duty Press Machine

30 TO 500 TONS



Heavy-Duty **Hydraulic Press Machine Cylinders** designed for high-force industry applications. Built with high-strength steel barrels and hard chrome piston rods to deliver superior pressure handling, smooth operation, and long service life under continuous heavy loads.

## Heavy Press Machines Hydraulic Cylinder – Technical Specifications

- ✓ **Capacity:** 30 - 500 Ton (or as per requirement)
- ✓ **Type:** Double Acting
- ✓ **Bore Size:** 140 - 400 mm
- ✓ **Stroke Length:** Up to 1500 mm
- ✓ **Working Pressure:** Up to 350 Bar



# HYDRAULIC CYLINDER FOR JCB AND EXCAVATORS



Durable **Hydraulic Arm, Boom, Loader & Bucket Cylinders** for **JCB and Excavators** engineered for powerful operation, precise movement, and reliable performance in **demanding industrial applications.**

## JCB Excavator Boom Hydraulic Cylinder - Technical Specifications

- ✓ **Type:** Double Acting
- ✓ **Bore Size:** 63-150 mm
- ✓ **Stroke Length:** Up to 2000 mm
- ✓ **Working Pressure:** Up to 350 Bar
- ✓ **Rod:** Hard Chrome Plated, Wear Resistant
- ✓ **Barrel:** Heavy-Duty Honed Steel Tube



# HYDRAULIC CYLINDER FOR EARTH MOVING



Heavy-duty **JCB Hydraulic Cylinders** designed for boom, arm, bucket and loader applications. Built with high-strength steel barrels and hard chrome-plated rods for smooth operation, high pressure resistance, and reliable performance **in demanding construction conditions.**

## Earth Moving Hydraulic Cylinder – Technical Specifications

- ✓ **Type:** Double Acting
- ✓ **Bore Size:** 50-150 mm
- ✓ **Stroke Length:** Up to 2000 mm
- ✓ **Working Pressure:** Up to 350 Bar
- ✓ **Rod:** Hard Chrome Plated, Wear Resistant
- ✓ **Barrel:** Heavy-Duty Honed Steel Tube

# HYDRAULIC CYLINDER FOR AGRICULTURE



Durable **Agriculture Hydraulic Cylinders** designed for powerful field performance, smooth operation, and precise control in demanding farming applications. Built with high-strength construction and hard chrome plated rods for reliable performance and long service life in tough agricultural conditions.

## Agricultural Hydraulic Cylinder - Technical Specifications

- ✓ **Type:** Double Acting
- ✓ **Bore Size:** 40–150 mm
- ✓ **Stroke Length:** Up to 1500 mm
- ✓ **Working Pressure:** Up to 350 Bar
- ✓ **Rod:** Hard Chrome Plated, Corrosion Resistant
- ✓ **Sealing:** Heavy-Duty PU / PTFE / NBR Seals
- ✓ **Mounting:** Clevis / Pin / Flange Type



# HYDRAULIC CYLINDER FOR SUGARCANE INFIELDER



Heavy-duty **Sugarcane Infield Hydraulic Cylinders** engineered for powerful field operations, delivering smooth lifting and precise control for sugarcane infielders. Built to withstand harsh agricultural conditions, heavy crop loads, mud, and continuous operation, these cylinders ensure reliable performance, consistent hydraulic efficiency, and long service life in demanding farming environments.

## Sugarcane Infield Hydraulic Cylinder - Technical Specifications

- ✓ **Type:** Double Acting Hydraulic Cylinder
- ✓ **Bore Size:** 50-125 mm
- ✓ **Stroke Length:** Up to 2000 mm
- ✓ **Working Pressure:** Up to 350 Bar
- ✓ **Rod:** Hard Chrome Plated, Corrosion Resistant
- ✓ **Mounting:** Clevis / Pin Type



# HYDRAULIC CYLINDERS FOR AGRICULTURE DOZER MACHINE



Durable **Dozer Hydraulic Cylinders** engineered for powerful pushing performance, smooth operation, and precise blade control in demanding field applications. Built with high-strength construction and hard chrome-plated rods to ensure reliable performance, and long service life in tough working conditions.

## Agricultural Dozer Hydraulic Cylinder – Technical Specifications

- ✓ **Type:** Double Acting
- ✓ **Bore:** 50–125 mm
- ✓ **Stroke:** Up to 1500 mm
- ✓ **Operating Pressure:** Up to 350 Bar



# HYDRAULIC CYLINDERS FOR TRACTOR LOADER



## Tractor Loader Hydraulic Cylinder – Technical Specifications

- ✓ **Type:** Double Acting Hydraulic Cylinder
- ✓ **Application:** Tractor Front Loader / Agriculture Loader
- ✓ **Bore Size:** 40 mm - 125 mm
- ✓ **Rod Diameter:** 25 mm - 70 mm (Hard Chrome Plated)
- ✓ **Stroke Length:** Up to 1500 mm
- ✓ **Working Pressure:** Up to 350 Bar
- ✓ **Mounting:** Clevis / Pin / Flange Type



## CONTACT US



+91 9021048997 / 9022205843



[www.assurancehydrotech.com](http://www.assurancehydrotech.com)



[sales@assurancehydrotech.com](mailto:sales@assurancehydrotech.com)



Shantinagar, Bhosari, Pune  
Maharashtra 411039

**Thank You!**