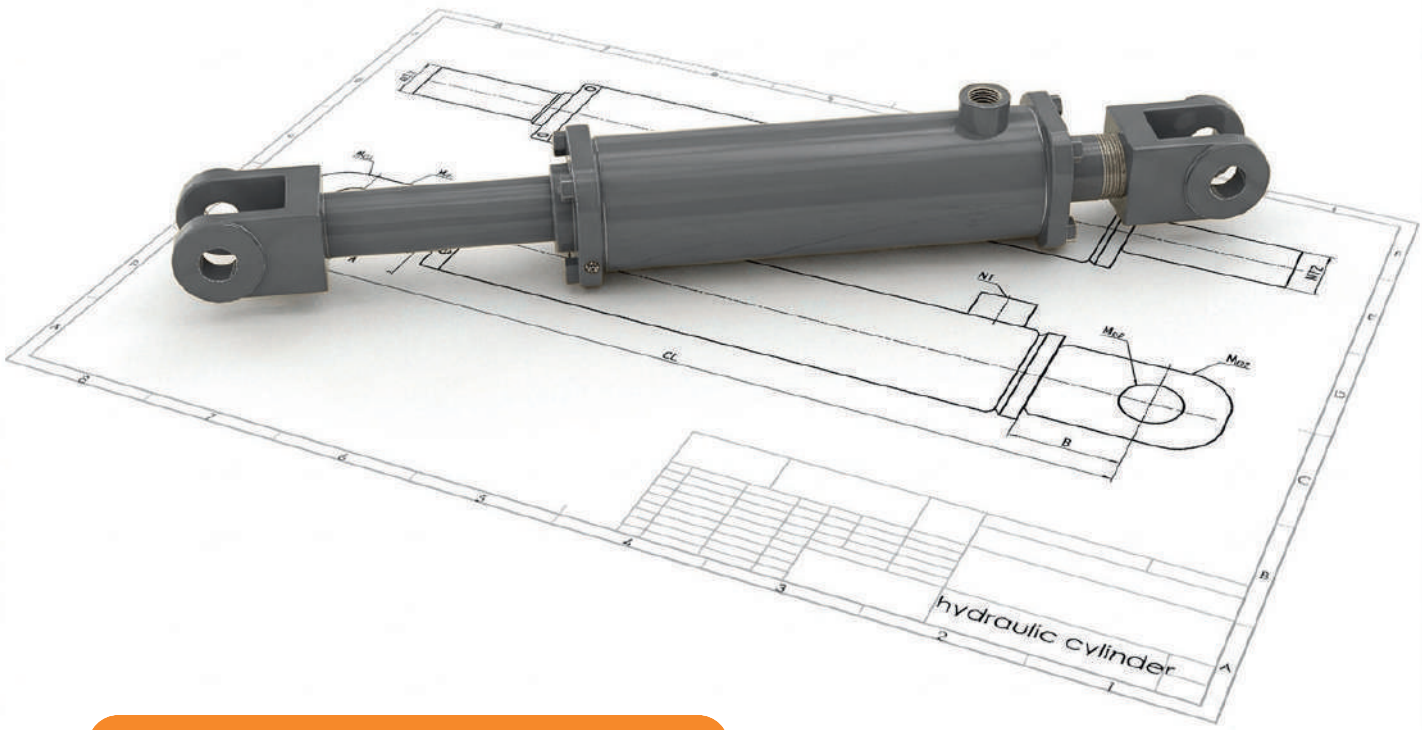
Fiable Hydraulics

Hydraulic Systems | Lifting Solutions | OEM Manufacturing

FIABLE HYDRAULICS

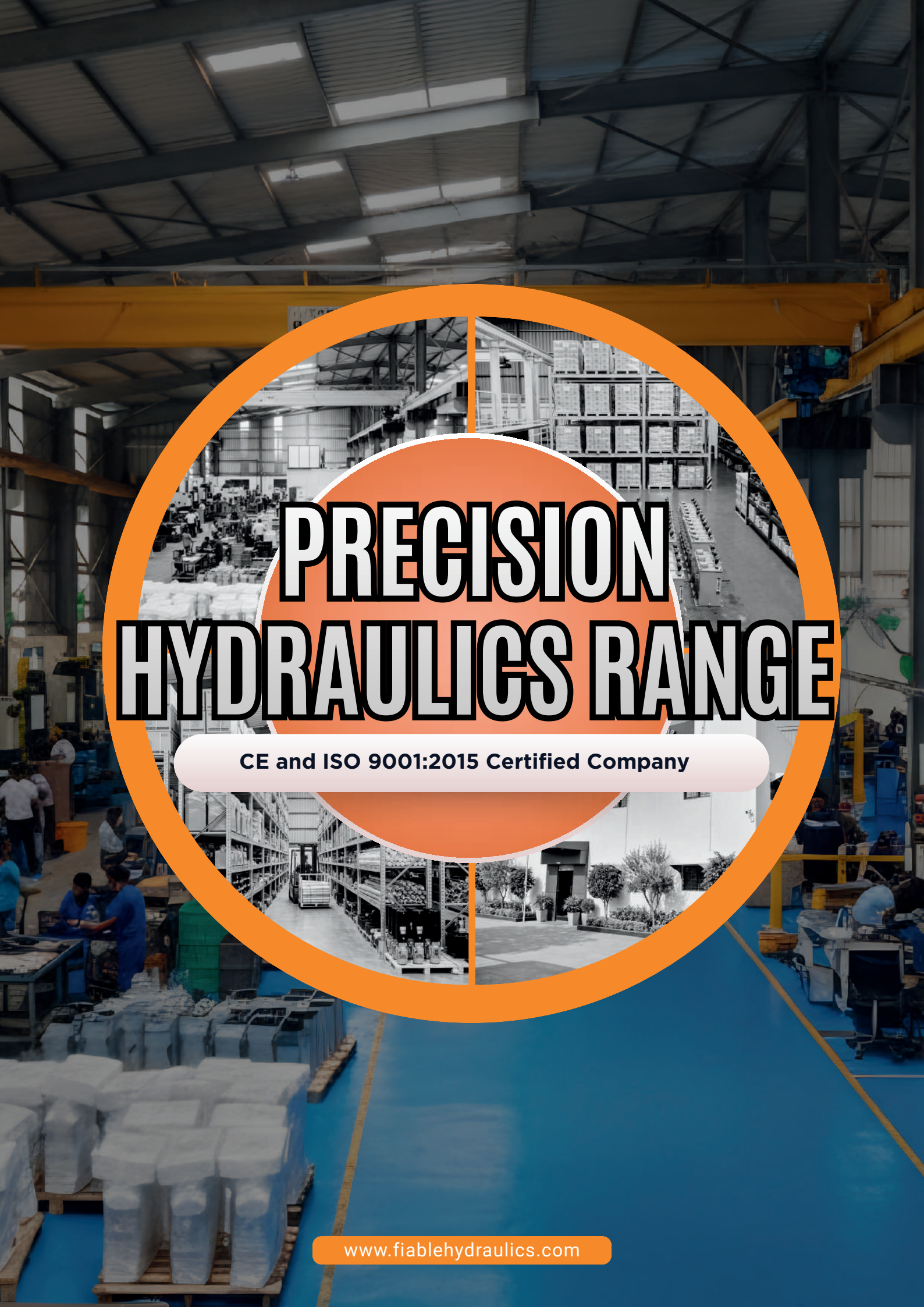
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ABOUT US

Fiable Hydraulics Pvt. Ltd. is a precision engineering company specializing in the design and manufacturing of high-performance hydraulic cylinders and fluid power solutions. Established in 2015 and based in Chakan MIDC, Pune - India, we serve a wide range of industrial and mobile applications with reliable and efficient hydraulic systems.

Our Growth & Infrastructure

From a focused engineering setup to a modern manufacturing facility, our growth is driven by technical expertise and continuous improvement. Equipped with advanced machining capabilities and streamlined production processes, we ensure consistent quality and timely delivery for both domestic and international customers.

Why Choose Us

- ISO 9001:2015 certified
- CE-compliant products
- Tested up to 700 bar
- Custom-built solutions
- Fast delivery & export-ready
- Competitive pricing vs EU

Quality Excellence

CE and ISO 9001:2015 Certified.

Quality is the core of our DNA. Our certification reflects a rigorous commitment to standardized testing, continuous process improvement, and zero-defect manufacturing.

GLOBAL FOOTPRINT & EXPORT CAPABILITIES

RELIABLE HYDRAULIC SOLUTIONS. DELIVERED WORLDWIDE.

Fiable Hydraulics Pvt. Ltd. supplies precision-engineered hydraulic cylinders to customers across international markets, supporting OEMs, distributors, and industrial clients with reliable and high-performance solutions. Our strategic location in Pune, India — one of the country's key industrial hubs — enables efficient connectivity to global ports and logistics networks.

Export-Ready Operations:

- Sea-worthy export packaging for zero-damage transit
- Optimized container loading for cost efficiency
- Flexible shipping via sea and air freight
- Reliable lead times and dispatch planning
- Compliance & Documentation

Complete Export Support:

- Commercial invoice and packing list provided
- Certificate of origin available
- Material test certificates included
- Technical documents on request

Order Process:

- Requirement review and technical alignment
- Quotation and order confirmation
- Manufacturing and quality testing
- Packaging and dispatch
- Shipping coordination

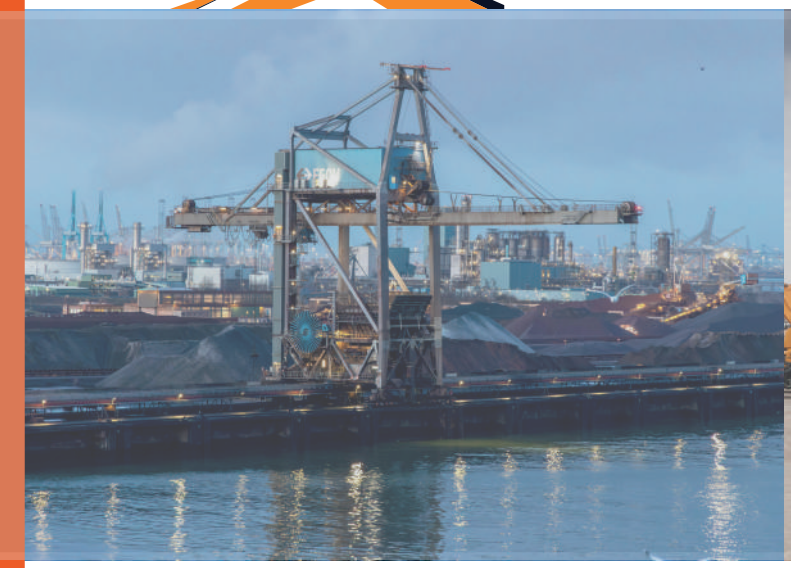
Technical Support:

- Pre-delivery technical assistance available
- Post-delivery assistance for product-related issues

PROVIDING NOT JUST PRODUCTS — BUT ENGINEERING SUPPORT, CUSTOMISATION, AND LONG-TERM PARTNERSHIP IS OUR GOAL.

VISION

To be recognized as one of India's most trusted and innovative hydraulic cylinder and power pack manufacturers, delivering cutting-edge fluid power solutions that drive productivity, efficiency, and reliability across industries.
We aspire to set new benchmarks in precision engineering, quality standards, and customer satisfaction while expanding our presence as a preferred hydraulic equipment supplier for OEMs and heavy industries across India and global markets.





MISSION

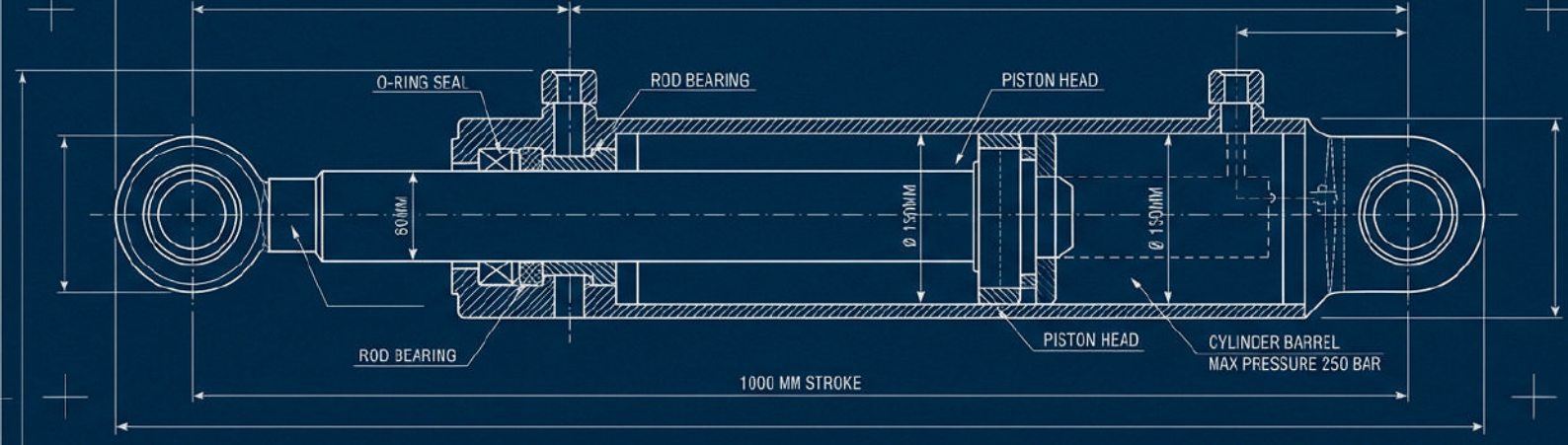
At Fiable Hydraulics Pvt. Ltd., our mission is to design and manufacture high-performance hydraulic cylinders, power packs, and custom hydraulic systems that exceed customer expectations in quality, durability, and performance.

01 Delivering precision - engineered solutions tailored to each client's specific application needs

02 Maintaining the highest quality standards through certified processes & 700 Bar pressure testing

03 Providing fast, reliable Pan-India delivery and support from our state-of-the-art facility in Chakan, Pune

04 Building long-term partnerships based on trust, transparency, and technical excellence



THE FIABLE OUTREACH BLUEPRINT

PRECISION STRATEGIES FOR HIGH-VALUE COMMUNICATION

TYPES OF HYDRAULIC CYLINDERS

Custom - Engineered Hydraulic Solutions: Built to your exact specifications



Single-Acting Cylinders



Double-Acting Cylinder



Cushioned Cylinder



Telescopic Double-Acting Cylinder (2-stage)



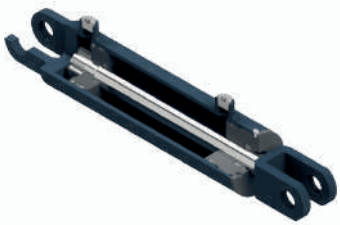
Telescopic Double-Acting Cylinder (3-stage)



Telescopic Double-Acting Cylinder (4-stage)



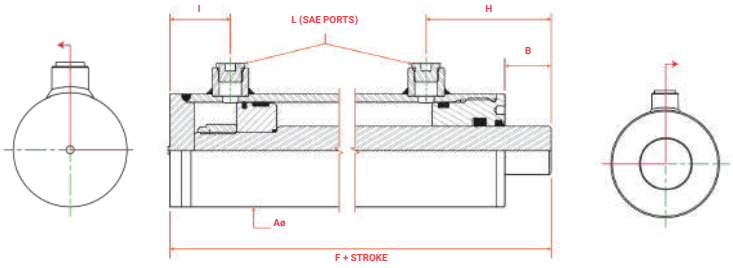
Tie-Rod Cylinder



Welded Cylinder

100 SERIES PRE-ENGINEERED CYLINDERS





Medium-duty welded design with fast configuration and proven performance.

- Single-acting, powerful extension, compact return.
- Double Acting Controlled force in both directions.
- Telescopic Extended reach in compact package.
- Welded Rugged for harsh environments.
- Tie-Rod Service-friendly industrial design.
- Custom Tailored to exact OEM needs.

Key Features

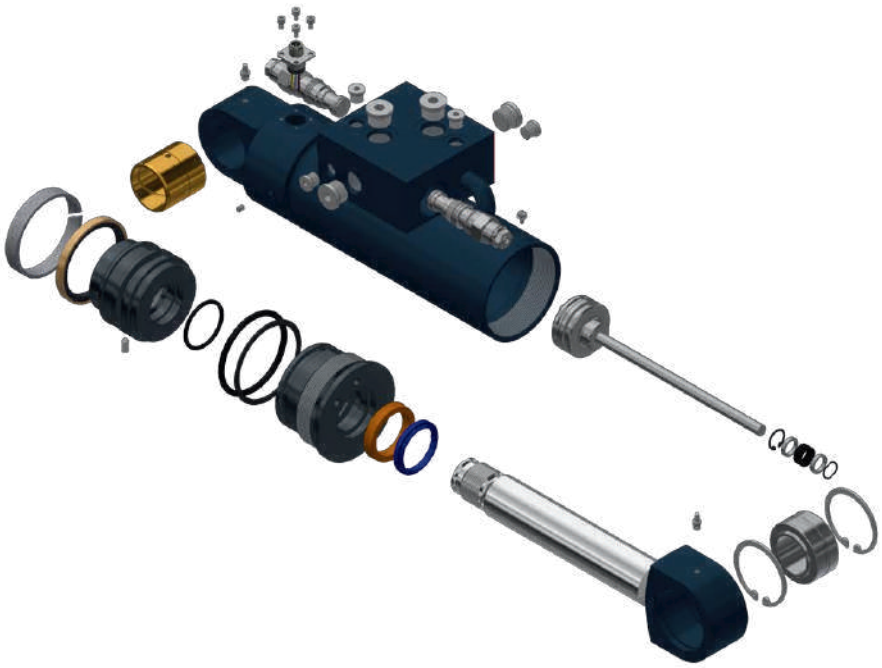
- 2,500 psi medium-duty rating
- Cold-drawn high-impact D.O.M. tubing (75 ksi min. yield)
- Ground & polished hard chrome-plated rods (75 ksi min. yield)
- AWS B2.1 certified welded construction
- Internally threaded head with buttress threads
- Ductile iron head gland and piston
- Piston wear bearings for extended durability
- Nylon-inserted lock nut
- High-quality seals for petroleum-based fluids
- Black primer finish

Standard Configurations

- Bore Sizes: 25 mm – 300 mm (common medium-duty range)
- Stroke Lengths: Up to 6,000 mm
- Pressure: Up to 2,500 psi (172 bar) standard for 100 Series
- Mounting Options: Clevis • Flange • Trunnion • Foot • Spherical • Cross Tube • Custom

Pre-Engineered Drawing Program
Instantly customise and print detailed drawings of your 100 Series cylinder.

COMMON MOUNTING OPTIONS



 Clevis	 Clevis - Threaded	 Cross Tube	 Drill Thru Base Mount
 Drill Thru Rod End	 Flange	 Foot (Heavy-Duty)	 Foot (Light-Duty)
 Lug	 Spherical Base End	 Spherical Rod End	 Threaded Base End (Female)
 Threaded Base End (Male)	 Threaded Rod End (Female)	 Threaded Rod End (Male)	 Trunnion

We can handle all your mounting requirements.
Contact us for any special mounting requests.

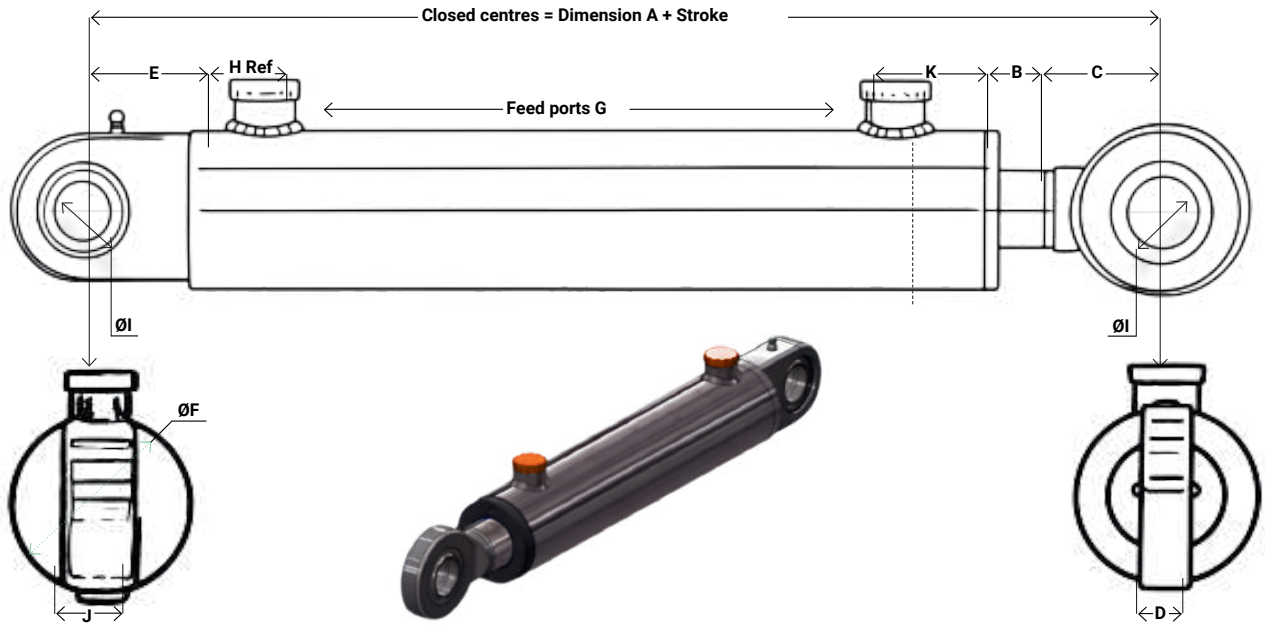
HYDRAULIC SEALING SOLUTIONS – COMPONENTS & SPECIFICATIONS

Category	Image	Type	Details / Variants
Rod Seals		Fabric-Rubber Seals	TSE, TGO, GT5, GT7, PSE
		Polyurethane Seals	TTI, TTS, TTX
		Rings	GIR, GIP
		Others	TPM, TPL, TPS/G, TPS/T, PDE, TDE, PDP, PDH, GT3
Piston Seals		Polyurethane Seals	TTU, TTE, TTEW
		Rings	GER, TTO, CUT
Wipers		Polyurethane	GHK, GHW, GHP, GPW, MBW
		Metal Reinforced	ZZ, GPA
Guide Rings		Rings	AGI, AGE
		Tapes	PTFE + Br, Fabric Tape
Static Seals		O-Rings	NBR, X-rings, GDS polyurethane O-rings
		Washers	PM Copper Washers
		Bonded Seals	PPM Bonded Seals
		Others	Stainless Steel & Viton Washers
		Flange Seals	GPP, FLS Seals

EXTENSION & RETRACTION FORCES IN KG

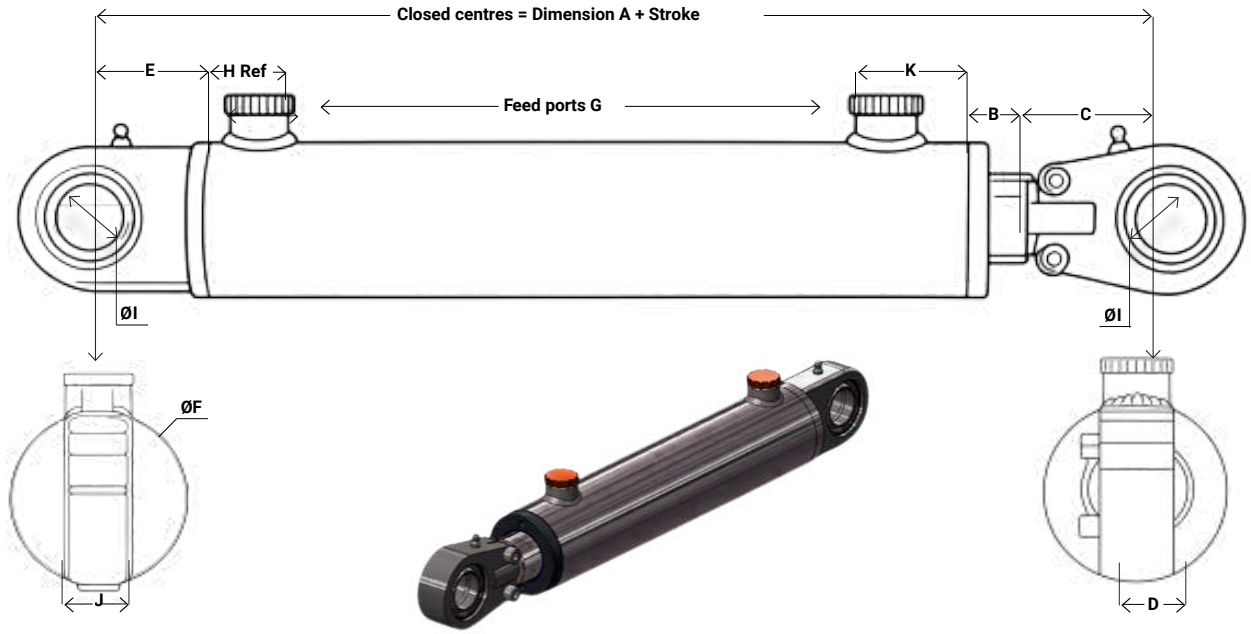
Bore (mm)	Rod (mm)	Extension Force (kg)			Retraction Force (kg)		
		@140 bar	@170 bar	@210 bar	@140 bar	@170 bar	@210 bar
40	20	1,761	2,138	2,641	1,320	1,603	1,981
40	25	1,761	2,138	2,641	1,073	1,303	1,609
50	25	2,751	3,341	4,127	2,063	2,505	3,095
50	30	2,751	3,341	4,127	1,761	2,138	2,641
50	35	2,751	3,341	4,127	1,403	1,704	2,105
60	30	3,961	4,810	5,942	2,971	3,608	4,457
60	35	3,961	4,810	5,942	2,613	3,173	3,920
60	40	3,961	4,810	5,942	2,201	2,672	3,301
63	35	4,367	5,303	6,551	3,019	3,667	4,529
63	40	4,367	5,303	6,551	2,607	3,165	3,910
70	35	5,392	6,547	8,088	4,044	4,911	6,066
70	40	5,392	6,547	8,088	3,631	4,409	5,447
70	50	5,392	6,547	8,088	2,641	3,207	3,961
80	40	7,043	8,552	10,564	5,282	6,414	7,923
80	50	7,043	8,552	10,564	4,292	5,211	6,437
80	60	7,043	8,552	10,564	3,081	3,741	4,622
100	40	11,004	13,362	16,506	9,243	11,224	13,865
100	50	11,004	13,362	16,506	8,253	10,022	12,380
100	60	11,004	13,362	16,506	7,043	8,552	10,564
100	70	11,004	13,362	16,506	5,612	6,815	8,418

STANDARD MOUNTING CONFIGURATIONS (DIMENSIONS IN MM)



Bore DIA	Rod DIA	A	B	C	D	E	F	G	H	I	J	K
40	20 / 25	206	22	38	16	38	50	1/4" BSP	28	20	19	40
50	25 / 30 / 35	230	22	45	20	45	60	3/8" BSP	28	25	23	43
60	30 / 35 / 40	261	22	51	22	51	70	3/8" BSP	32	30	28	50
63	30 / 35 / 40	261	22	51	22	51	73	3/8" BSP	32	30	28	50
70	35 / 40 / 50	259	25	51	22	51	80	3/8" BSP	32	30	28	50
80	40 / 50 / 60	302	25	61	25	61	95	1/2" BSP	35	35	30	60
100	40 / 50 / 60 / 70	351	28	69	28	69	115	1/2" BSP	35	40	35	82

STANDARD MOUNTING CONFIGURATIONS (DIMENSIONS IN MM)



Bore DIA	Rod DIA	A	B	C	D	E	F	G	H	I	J	K
40	20 / 25	216	20	50	19	38	50	1/4” BSP	28	20	19	40
50	25 / 30 / 35	235	22	50	23	45	60	3/8” BSP	28	25	23	43
60	30 / 35 / 40	273	25	60	28	51	70	3/8” BSP	32	30	28	50
63	30 / 35 / 40	273	25	60	28	51	73	3/8” BSP	32	30	28	50
70	35 / 40 / 50	273	30	60	28	51	80	3/8” BSP	32	30	28	50
80	40 / 50 / 60	321	35	70	30	61	95	1/2” BSP	35	35	30	60
100	40 / 50 / 60 / 70	379	40	85	35	69	115	1/2” BSP	35	40	35	82

STANDARD MOUNTING CONFIGURATIONS (DIMENSIONS IN MM)

- Export-quality, pre-engineered for fast selection
- All cylinders 210 bar standard (up to 350 bar Heavy Duty available)
- Custom stroke & modifications on request

1. Welded Spherical Bearing Mounted Cylinders

Bore	Rod	A	B	C	D	E	F	G	H	I	J	K
40	20	206	22	38	16	38	50	¼" BSP	28	20	19	40
50	25	230	22	45	20	45	60	⅜" BSP	28	25	23	43
60	30	230	22	45	20	45	60	⅜" BSP	28	25	23	43
63	35	261	22	51	22	51	70	⅜" BSP	32	30	28	50
70	35	261	22	51	22	51	70	⅜" BSP	32	30	28	50
80	40	302	25	61	25	61	95	½" BSP	35	35	30	60
100	50	351	28	69	28	69	115	½" BSP	35	40	35	82

2. Threaded Spherical Bearing Mounted Cylinders

Bore	Rod	A	B	C	D	E	F	G	H	I	J	K
40	20	216	20	50	19	38	50	¼" BSP	28	20	19	40
50	25	235	22	50	23	45	60	⅜" BSP	28	25	23	43
60	30	273	25	60	28	51	70	⅜" BSP	32	30	28	50
63	35	273	25	60	28	51	73	⅜" BSP	32	30	28	50
70	35	273	30	60	28	51	80	⅜" BSP	32	30	28	50
80	40	321	35	70	30	61	95	½" BSP	35	35	30	60
100	50	379	40	85	35	69	115	½" BSP	35	40	35	82

STANDARD MOUNTING CONFIGURATIONS (DIMENSIONS IN MM)

3. Rear Pin Mounted Cylinders

Bore	Rod	A	B	C	D	E	F	G	H	I	K
40	20	143	25	25	M16×1.5	15	50	¼" BSP	35	16.2	40
50	30	163	30	30	M20×1.5	20	60	⅜" BSP	45	20.25	43
60	40	182.5	30	35	M24×2.0	22.5	70	⅜" BSP	48	25.25	50
70	40	187.5	35	40	M27×2.0	22.5	80	⅜" BSP	48	25.25	50
80	50	213	35	40	M27×2.0	25	95	½" BSP	55	30.25	60
100	60	245	40	45	M33×2.0	30	115	½" BSP	65	35.25	82

4. Forked Clevis Mounted Cylinders

Bore	Rod	A	B	C	D	E	F	G	H	I	J	K	L	M
40	20	201	20	39	16	34	50	¼" BSP	28	16.2	35	40	24	16
50	25	225	22	45	20	40	60	⅜" BSP	28	20.25	40	43	30	20
60	35	257	25	50	25	45	70	⅜" BSP	32	25.25	50	50	30	25
70	40	282	30	65	30	50	80	⅜" BSP	32	30.25	60	50	35	30
80	50	320	35	75	35	55	95	½" BSP	35	35.25	70	60	40	35
100	60	355	40	75	35	55	115	½" BSP	35	35.25	70	82	40	35

Notes (common to all tables):

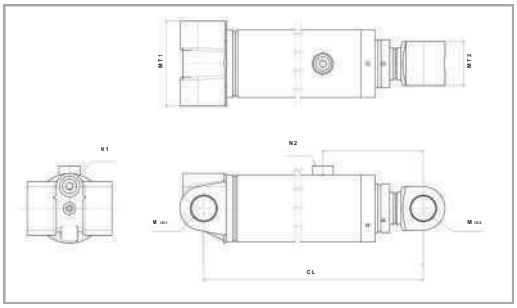
Closed length = Dimension A + Stroke

All dimensions in mm. Stroke customisable up to 6,000 mm

Ports: BSP standard (SAE optional)

100% tested to 10,000 PSI & ISO 9001:2015 certified

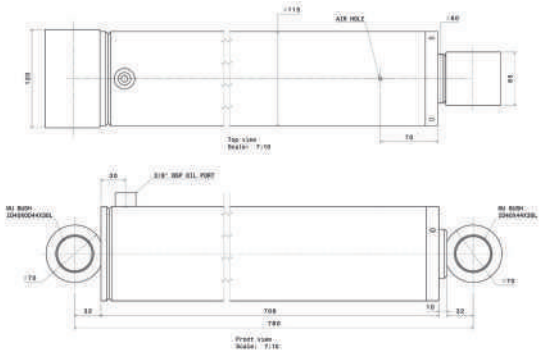
TELESCOPIC DOUBLE ACTING CYLINDERS



Model Code	TELE-DAC95X83X70X55HTX1154X867CL		TELE-DAC95X83X70X55HTX751X867CL		TELE-DAC110X93X80X60HTX1200X893CL		TELE-DAC120X105X90X72HTX1041X866CL		TELE-DAC120X105X90X72HTX1241X936CL		TELE-DAC120X105X90X72HTX1747X1219CL	
Closed length,(CL) mm	867		867		893		866		936		1219	
Rod end ID, (MID2) mm	40		40		35		40		40		40	
Bore end ID, (MID1) mm	40		40		38		40		40		40	
Bore end THK (MT1)	145		145		130		145		145		145	
Rod end THK (MT2)	75		75		77		75		75		75	
Bore end-port size (N1)	3/4" BSP		3/4" BSP		3/4" BSP		3/4" BSP		3/4" BSP		3/4" BSP	
Rod end-port size (N2)	3/4" BSP		3/4" BSP		3/4" BSP		3/4" BSP		3/4" BSP		3/4" BSP	
Number of stages	2		2		2		2		2		2	
Cylinder fully opened length (mm)	2001		1598		2073		1887		2157		2946	
Stage wise stroke (mm)	557	597	557	194	585	615	503	538	603	638	856	891
Total stroke (mm)	1154		751		1200		1041		1241		1747	
	Stage 1	Stage 2	Stage 1	Stage 2	Stage 1	Stage 2	Stage 1	Stage 2	Stage 1	Stage 2	Stage 1	Stage 2
Bore sizes (mm)	95	70	95	70	110	80	120	90	120	90	120	90
Rod sizes (mm)	83	55	83	55	93	60	105	72	105	72	105	72
Oil volume (ltrs)	4	2	4	1	4	2	6	4	7	4	10	6
Oil volume (l)	6		5		6		9		11		15	
Thrust (kN)	145	79	145	79	167	89	177	100	177	100	199	112
Working pressure (bar)	210		210		180		160		160		180	
Cylinder mass (kgs)	45		47		56		54		58		77	

SINGLE-ACTING HYDRAULIC CYLINDERS





Single-Acting Hydraulic Cylinders are linear actuators designed to deliver force in one direction only. Hydraulic pressure extends the piston rod, while retraction is achieved through an external force such as gravity, a load, or an internal return spring.
Engineered for simplicity and reliability, these cylinders are widely used in applications where powered return is not required, offering a cost-effective and compact solution for industrial and mobile hydraulic systems.

Key Features

- Simple and robust design with only one hydraulic port
- High force output in the extension stroke
- Spring-return or gravity-return options available
- Hard chrome-plated piston rods for superior wear and corrosion resistance
- Premium quality seals for long service life and leak-free performance
- Compact construction ideal for space-constrained applications
- Easy installation and low maintenance requirements
- Tested up to 700 Bar for assured safety and performance

Product Description

A Single-Acting Hydraulic Cylinder operates by directing pressurised hydraulic fluid into a single port, forcing the piston and rod assembly outward to generate linear force. Once pressure is released, the rod retracts either by the weight of the attached load (gravity return) or through an integrated return spring.
The cylinder consists of a high-strength steel barrel, precision-machined piston, hard chrome-plated rod, and high-performance seals. This straightforward design eliminates the need for a second hydraulic line, reducing system complexity and cost while maintaining excellent reliability.
These cylinders are particularly effective in applications requiring powerful extension with controlled or gravity-assisted retraction, making them a preferred choice in mobile equipment and lifting systems.

TECHNICAL SPECIFICATIONS

Parameter	Specification
Bore Diameter	40 mm – 300 mm
Rod Diameter	25 mm – 220 mm
Stroke Length	50 mm – 2000 mm
Operating Pressure	100 – 350 Bar (up to 500 Bar peak)
Test Pressure	700 Bar
Return Mechanism	Spring Return / Gravity Return
Mounting Types	Clevis, Flange, Foot, Trunnion, Eye, Custom
Barrel Material	High-grade seamless steel
Rod Material	EN8 / CK45 with hard chrome plating
Sealing System	Polyurethane + NBR (high-pressure)
Operating Temperature	-20°C to +80°C

Applications

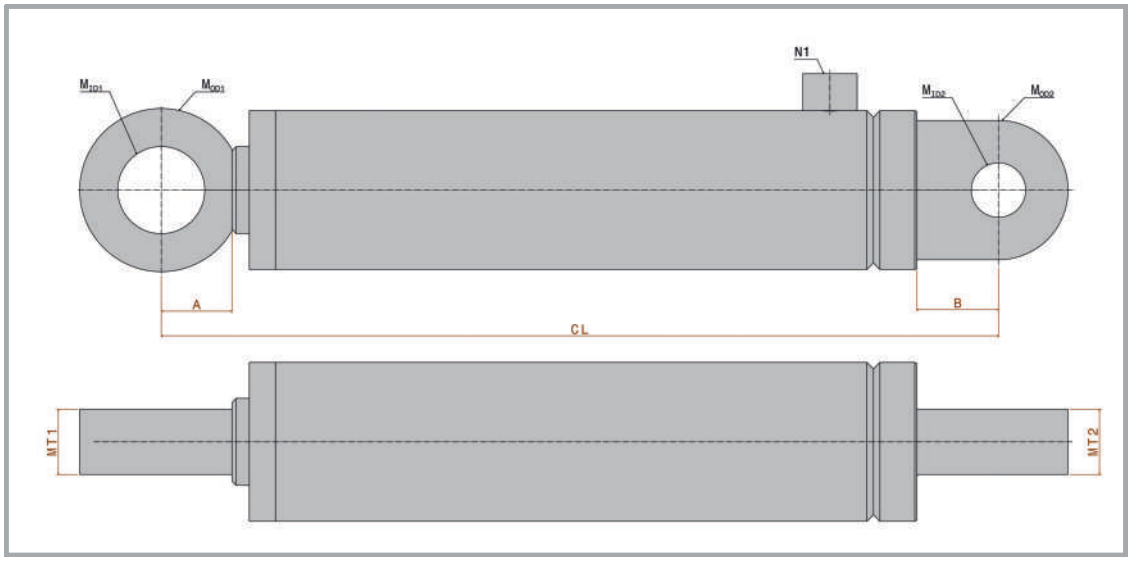
- Tipper trucks and dump bodies
- Hydraulic jacks and bottle jacks
- Industrial lifting and pressing equipment
- Agricultural machinery (loaders, balers, ploughs)
- Construction equipment (stabilizers, outriggers)
- Automotive service and repair equipment
- Material handling and scissor lifts

Advantages

Compared to double-acting cylinders, single-acting designs offer greater simplicity with fewer components and hydraulic connections. This results in lower initial cost, reduced maintenance, and a more compact footprint.

They are especially advantageous in applications where the load provides natural retraction force, delivering excellent performance while keeping system complexity and operating costs to a minimum.

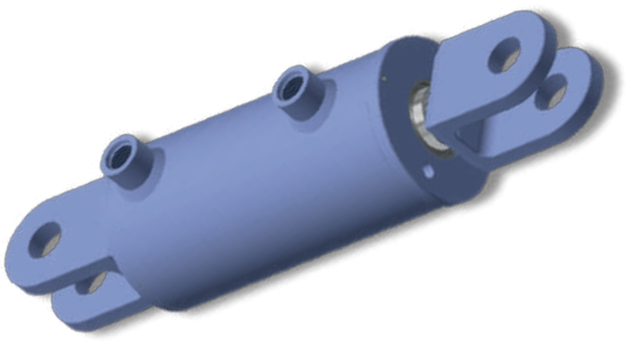
SINGLE ACTING HYDRAULIC CYLINDERS - TECHNICAL DATA

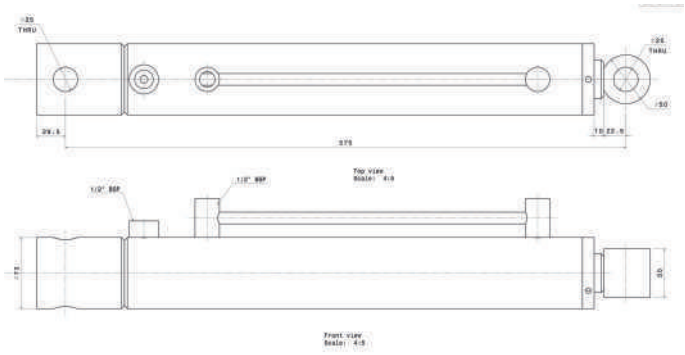


Model	BORE	ROD	A	B	MID1	MID2	MOD1	MOD2	MT1	MT2	N1	STROKE (S)	CL	OL
SAC63X40X 550X785CL	63	40	32.5	37.5	40	25	75	64	30	30	3/8”	550	785	1335
SAC63X45X 550X785CL	63	45	32.5	37.5	40	25	75	64	30	30	3/8”	550	785	1335
SAC80X40X 550X782CL	80	40	32.5	45	40	40	75	80	30	30	3/8”	550	782	1332

Model	BORE	ROD	A	B	MID 1	MID 2	MO D1	MOD 2	MT1	MT2	N1	STROKE (S)	CL	OL	CUSTOMIZE	
SAC50X36X 440X670CL	50	36	45	45	25	25	50	50	30	30	3/8”	440	670	1110	S+23 0	S+C L

DOUBLE-ACTING HYDRAULIC CYLINDERS





Double-Acting Hydraulic Cylinders are high-performance linear actuators designed to deliver controlled force and motion in both extension and retraction directions. Hydraulic fluid pressure is applied alternately to either side of the piston through two ports, enabling precise bidirectional movement.

Engineered for demanding industrial and mobile applications, these cylinders provide superior control, faster cycle times, and higher efficiency compared to single-acting designs.

Key Features

- Powered extension and retraction for complete bidirectional control
- Two-port design for precise speed and force management
- Heavy-duty construction capable of high operating pressures
- Hard chrome-plated piston rods for excellent wear resistance
- High-quality sealing system for leak-free performance
- Available in welded and tie-rod configurations
- Wide range of mounting options for versatile installation
- Rigorous testing up to 700 Bar for maximum reliability

Product Description

A Double-Acting Hydraulic Cylinder uses hydraulic pressure on both sides of the piston to produce force during extension as well as retraction. Pressurised fluid enters one port to extend the rod while the opposite port returns fluid to the reservoir. Reversing the flow retracts the rod with equal control and power.

The cylinder comprises a precision-machined steel barrel, robust piston assembly, hard chrome-plated rod, and advanced sealing elements. This design delivers consistent performance in applications requiring accurate positioning, rapid cycling, and high force in both directions.

Double-acting cylinders are the preferred choice for modern machinery where full control over the load is essential throughout the operating cycle.

TECHNICAL SPECIFICATIONS

Parameter	Specification
Bore Diameter	40 mm – 400 mm
Rod Diameter	25 mm – 300 mm
Stroke Length	50 mm – 3000 mm
Operating Pressure	100 – 350 Bar (up to 500 Bar peak)
Test Pressure	700 Bar
Acting Type	Double-Acting
Configurations	Welded Body / Tie-Rod
Mounting Types	Clevis, Flange, Foot, Trunnion, Spherical, Custom
Barrel Material	High-grade seamless steel
Rod Material	EN8 / CK45 with hard chrome plating
Sealing System	Polyurethane + NBR (high-pressure)
Operating Temperature	-20°C to +80°C

Applications

- Excavators and earthmoving equipment
- Hydraulic presses and forming machines
- Material handling and conveyor systems
- Agricultural machinery (harvesters, loaders)
- Construction equipment (booms, buckets, stabilizers)
- Industrial automation and special purpose machines
- Marine and offshore equipment
- Steering and tilting mechanisms

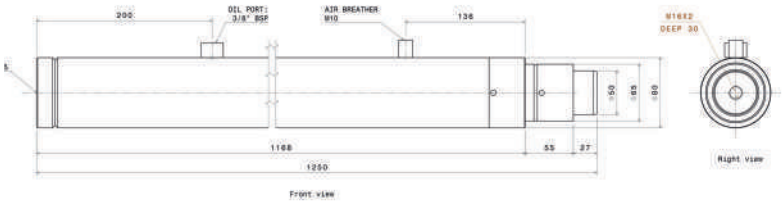
Advantages

Double-acting cylinders offer full hydraulic control in both directions, enabling precise positioning, faster operation cycles, and higher productivity. Unlike single-acting cylinders, they do not rely on external forces for retraction, making them ideal for complex movements and applications where the load must be actively pulled or positioned.

Their robust design ensures reliable performance under continuous duty cycles and varying load conditions.

TELESCOPIC HYDRAULIC CYLINDERS





Telescopic Hydraulic Cylinders are multi-stage linear actuators designed to deliver exceptionally long stroke lengths while maintaining a compact retracted height. These cylinders consist of multiple nested sleeves (stages) that extend sequentially, providing significant reach in limited space.
Available in both single-acting and double-acting configurations, telescopic cylinders are engineered for applications demanding maximum extension with minimal installation space.

Key Features

- Multi-stage design offering long stroke in compact retracted length
- Available in single-acting and double-acting configurations
- High load capacity even in extended positions
- Precision-machined stages for smooth operation
- Hard chrome-plated rods and sleeves for superior wear resistance
- Robust end locks and staging mechanisms for stability
- Tested up to 700 Bar for safety and performance
- Custom stroke lengths and mounting options available

Product Description

A Telescopic Hydraulic Cylinder features multiple concentric sleeves that extend one after another, allowing a much longer stroke than a standard single-stage cylinder while keeping the retracted length short.
In single-acting versions, hydraulic pressure extends the stages while retraction occurs through gravity or external load. Double-acting models provide powered control in both directions. Each stage is precision-machined with high-quality seals to ensure smooth extension, leak-free performance, and long service life.
These cylinders are ideal where space constraints prevent the use of long single-stage cylinders, delivering powerful, reliable performance in mobile and industrial equipment.

TECHNICAL SPECIFICATIONS

Parameter	Specification
Number of Stages	2 to 5 Stages
Bore Diameter (First Stage)	80 mm – 300 mm
Stroke Length	500 mm – 6000 mm
Operating Pressure	100 – 300 Bar (up to 400 Bar peak)
Test Pressure	700 Bar
Acting Type	Single-Acting / Double-Acting
Return Mechanism	Gravity / Hydraulic (Double-Acting)
Mounting Types	Clevis, Trunnion, Foot, Pin Eye, Custom
Barrel & Stage Material	High-grade seamless steel
Rod / Sleeve Finish	Hard chrome plating
Sealing System	High-pressure polyurethane + NBR
Operating Temperature	-20°C to +80°C

Applications

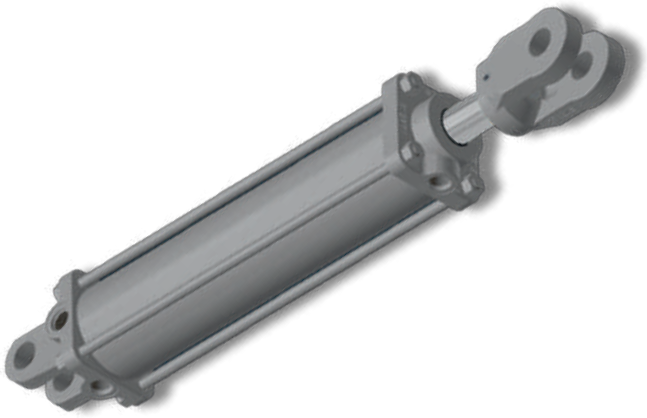
- Tipper trucks and dump bodies
- Telescopic handlers and boom lifts
- Refuse collection vehicles and compactors
- Hydraulic cranes and mobile elevating platforms
- Agricultural trailers and grain handlers
- Construction equipment (outriggers and stabilisers)
- Marine and offshore lifting equipment
- Special-purpose machines requiring long reach

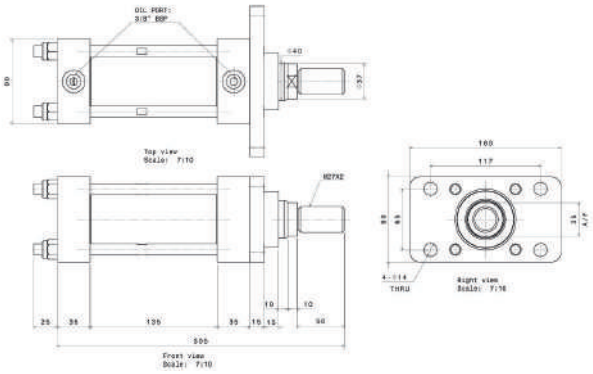
Advantages

Telescopic cylinders provide the longest possible stroke in the shortest retracted package, making them indispensable where installation space is limited but extended reach is critical. Compared to standard cylinders, they significantly reduce overall machine length while maintaining high lifting capacity.

Their staged extension design also allows higher force in the initial stages, delivering excellent performance in heavy-load applications.

TIE-ROD HYDRAULIC CYLINDERS





Tie-Rod Hydraulic Cylinders are robust, service-friendly linear actuators widely used in industrial applications. They feature long threaded steel tie-rods that extend the full length of the cylinder and secure the end caps to the barrel.
This modular construction allows easy disassembly, inspection, and maintenance, making tie-rod cylinders an excellent choice for applications requiring frequent servicing or standardised mounting

Key Features

- Strong tie-rod construction for reliable performance
- Easy disassembly and reassembly for quick maintenance
- Standardised design with interchangeable parts
- High-precision barrel and piston assembly
- Hard chrome-plated piston rods for extended wear life
- Wide range of bore sizes and stroke lengths
- Versatile mounting options
- Tested up to 700 Bar for assured durability and safety

Product Description

Tie-Rod Hydraulic Cylinders utilise four or more high-strength threaded rods that clamp the cylinder head and cap to the barrel, creating a rigid and durable assembly. This design permits straightforward access to internal components without specialised tools.
Available in both single-acting and double-acting configurations, these cylinders deliver consistent force and smooth operation. The modular construction makes them particularly suitable for industrial environments where periodic seal replacement or component inspection is required.
Precision-machined components and high-quality seals ensure leak-free performance and long service intervals, even under continuous duty cycles.

TECHNICAL SPECIFICATIONS

Parameter	Specification
Bore Diameter	40 mm – 300 mm
Rod Diameter	25 mm – 220 mm
Stroke Length	50 mm – 2500 mm
Operating Pressure	100 – 250 Bar (up to 350 Bar peak)
Test Pressure	700 Bar
Acting Type	Single-Acting / Double-Acting
Tie-Rod Material	High-strength alloy steel
Barrel Material	Seamless precision steel tube
Rod Material	EN8 / CK45 with hard chrome plating
Sealing System	Polyurethane + NBR (industrial grade)
Mounting Types	Foot, Flange, Clevis, Trunnion, Custom
Operating Temperature	-20°C to +80°C

Applications

- Factory automation and production machinery
- Agricultural equipment and implements
- Material handling systems and conveyors
- Plastic injection moulding machines
- Hydraulic presses (medium duty)
- Industrial automation and robotics
- Packaging and processing equipment
- Test rigs and special-purpose machines

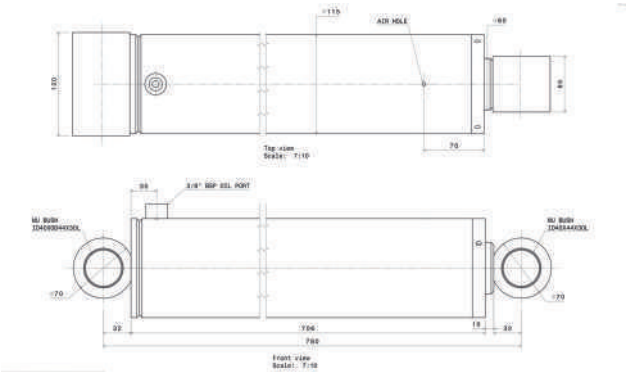
Advantages

Tie-rod cylinders offer excellent serviceability due to their modular design, allowing quick seal replacement and component inspection without removing the entire cylinder from the machine. Their standardised construction ensures easy availability of spare parts and consistent performance across multiple units.

Compared to welded cylinders, tie-rod models provide greater flexibility for maintenance and are often more cost-effective in applications where high pressure is not the primary requirement.

WELDED HYDRAULIC CYLINDERS





Welded Hydraulic Cylinders are heavy-duty linear actuators designed for high-pressure and harsh operating environments. In this construction, the end caps are permanently welded directly to the barrel, creating a robust, compact, and leak-resistant unit without external tie-rods.
These cylinders are engineered for superior strength, durability, and long service life in demanding mobile and industrial applications where reliability under extreme conditions is critical.

Key Features

- Fully welded construction for maximum structural integrity
- Compact design with smaller overall dimensions
- High-pressure capability suitable for heavy-duty use
- Hard chrome-plated piston rods for excellent wear resistance
- Robust end caps and barrel welds for enhanced durability
- Minimal external parts, reducing potential leak points
- Suitable for both single-acting and double-acting configurations
- Tested up to 700 Bar for proven safety and performance

Product Description

Welded Hydraulic Cylinders feature a seamless integration where the cylinder barrel is directly welded to the head and cap ends. This construction eliminates the need for tie-rods, resulting in a stronger, more compact cylinder that can withstand higher pressures and rigorous operating conditions.
The design includes a precision-honed barrel, heavy-duty piston assembly, and hard chrome-plated rod with high-performance seals. The welded structure provides exceptional resistance to shock loads, vibration, and side forces commonly encountered in mobile machinery.
Ideal for applications requiring a rugged, low-maintenance cylinder that delivers consistent power in the toughest environments.

TECHNICAL SPECIFICATIONS

Parameter	Specification
Bore Diameter	50 mm – 400 mm
Rod Diameter	30 mm – 300 mm
Stroke Length	100 mm – 3000 mm
Operating Pressure	150 – 350 Bar (up to 500 Bar peak)
Test Pressure	700 Bar
Acting Type	Single-Acting / Double-Acting
Construction	Fully Welded Body
Barrel Material	High-grade seamless steel
Rod Material	EN8 / CK45 with hard chrome plating
Sealing System	Heavy-duty polyurethane + NBR
Mounting Types	Clevis, Trunnion, Foot, Flange, Spherical, Custom
Operating Temperature	-20°C to +90°C

Applications

- Excavators and earthmoving machinery
- Loaders, backhoes, and bulldozers
- Mining and quarrying equipment
- Agricultural heavy-duty machinery
- Material handling and telehandlers
- Construction cranes and boom lifts
- Special-purpose machines (SPMs)
- Marine and offshore hydraulic systems

Advantages

Welded cylinders offer a more compact footprint and higher pressure ratings compared to tie-rod designs, making them ideal for mobile equipment where space is limited and durability is paramount. The fully welded construction provides superior resistance to shock, vibration, and side loading while minimising potential leak points.

They require less maintenance than tie-rod cylinders and deliver exceptional performance in high-duty cycle and harsh-environment applications.

APPLICATIONS Precision-Engineered for Diverse Industrial Needs



Agricultural Machinery



Earthmoving Equipment



Agricultural Machinery



Earthmoving Equipment



Flatbed Trailer Ramp



Chassis Carrier System



Scissor Lift



Stacker



Goods Lift



Tail Gate System



Towing Van Recovery System



Tipper Lifting System



Parking Lift



Garage Lifting Equipment



Dock Leveller



QUALITY ASSURANCE & CERTIFICATIONS



CERTIFICATE OF REGISTRATION

UK CERTIFICATION AND ASSESSMENT LTD.

This is to certify that the
Quality Management System of

FIABLE HYDRAULICS PRIVATE LIMITED

at

PLOT NO. PAP-V-75, MIDC PHASE II ROAD KHED WASULI CHAKAN PUNE MAHARASHTRA 410501.

UKASCERT certified that the Quality management system of the above organization has been assessed and found to be in accordance with the requirements of the management system detailed below:

ISO 9001:2015

for the following scope:

DESIGN AND MANUFACTURING OF HYDRAULIC CYLINDERS, POWER-UNITS AND HYDRAULIC COMPONENTS.

Validity of this Certificate can be verified at https://www.ukascert.co.uk/verify.aspx

Certificate Number:	Q-550727092025
Issue Date:	27th September 2025
Valid Until:	26th September 2028
1st Surveillance on or before:	26th September 2026
2nd Surveillance on or before:	26th September 2027

UK CERTIFICATION AND ASSESSMENT LTD.

Auth. Signatory

UK Certification and Assessment Ltd
Regd. Off: 71-75 Shelton Street London Greater London WC2H 9JQ UNITED KINGDOM
Website: www.ukascert.co.uk, Mail: info@ukascert.co.uk Company No. 12660984
(In case of surveillance audit is not allowed to be conducted: this certificate shall be suspended/withdrawn).
This certificate is the property of UK Certification and Assessment Ltd and shall be returned immediately

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CERTIFICATE OF COMPLIANCE

UK CERTIFICATION AND ASSESSMENT LTD.

CE

We hereby declare that the technical file of product compliant with the requirement of Council Directive on Pressure Equipment Directive 2014/68/EU.

Manufacturer

Name : FIABLE HYDRAULICS PRIVATE LIMITED

Address : PLOT NO. PAP-V-75, MIDC PHASE II ROAD KHED WASULI CHAKAN PUNE MAHARASHTRA 410501.

Products : DESIGN AND MANUFACTURING OF HYDRAULIC CYLINDERS, POWER-UNITS AND HYDRAULIC COMPONENTS.

The Certification body has performed an audit of the above product quality system covering the design, manufacture and final inspection of the certified product. The quality system has been accessed, approved and is subject to continuous surveillance according to Council Directive on Pressure Equipment Directive 2014/68/EU.

This certificate is issued under the following conditions:

1. It applies only to the quality system maintained in the manufacture of above referenced models and it does not substitute the design or type examination procedures, if required.
2. The certificate remains valid until the manufacturing conditions or the quality systems are changed.
3. The certificate validity is conditioned by positive results of surveillance audits.
4. After fulfilling the relevant Standard testing performance, the manufacturer shall affix to each device, of the referenced models,
The CE mark as shown above can be used, under the responsibility of the manufacturer, after completion of an EC Declaration of conformity and compliance with all relevant EC Directives. The statement is based on a single evaluation of one sample of above mentioned product. It does not imply an assessment of the whole production.

Validity of this certificate can be verified at https://www.ukascert.co.uk/verify.aspx

Certificate Number:	CE-1225
Issue Date:	31st July 2025
Valid Until:	30th July 2028
1st Surveillance on or before:	30th July 2026
2nd Surveillance on or before:	30th July 2027

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ISO 9001:2015 CERTIFIED

Our Quality Management System is officially certified to ISO 9001:2015 standards. This prestigious certification from UK Certification and Assessment Ltd. underscores our unwavering commitment to excellence and operational integrity.

CE COMPLIANT PRODUCTS

All our products proudly bear CE compliance. This signifies strict adherence to the safety and quality requirements of the Pressure Equipment Directive 2014/68/EU. Our official declaration demonstrates dedication to European market standards.

Fiable Hydraulics

Hydraulic Systems | Lifting Solutions | OEM Manufacturing

Contact Us

Let's Build Reliable Hydraulic Solutions Together

Send us your requirement or technical drawing.
Get a custom solution within 24 hours.

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