

HYDRAULIC CYLINDERS



WE MANUFACTURES WITH TECHNOLOGY OF THE FUTURE

About Us

Founded in 1998, Çelikkol Hidrolik is a well-established manufacturing company specialising in the manufacture of hydraulic cylinders, operating with an engineering-focused approach and high quality standards. By continuously improving the knowledge, technical expert and manufacturing experience it has acquired since its foundation, the company has established itself as a reliable and sustainable brand within the sector. Our company, which keeping pace with evolving industrial needs, offers high-performance hydraulic solutions for various sectors through its innovative manufacture concept and customer-focused approach.

Çelikkol Hidrolik carries out manufacture in accordance with international standards, utilising modern manufacture facilities, advanced CNC machining technologies, precision manufacturing processes and a staff of expert engineers. Hydraulic cylinders developed for construction machinery, agricultural equipment, industrial automation systems, energy facilities, infrastructure projects, defense industry applications and specialised engineering projects, are designed based on durability, reliability, productivity and a long service life. Every stage of manufacture is meticulously managed through quality control processes, aiming to ensure our products deliver superior performance even under the most demanding operating conditions.



ACCESS TO GLOBAL MARKETS

Serving the global market with manufacturing capabilities that meet international standards.



TECHNICAL EXPERT

*Engineering-Focused
Innovative Solutions*



SUSTAINABLE AND RELIABLE BRAND

*A symbol of trust and quality
since 1998.*

Çelikkol Hidrolik, which supports its experience in the sector with its high-tech investments, sees it as one of its main responsibilities not only to manufacture products but also to provide comprehensive engineering solutions to its customers. Each project is assessed following a detailed analysis of the customer's technical requirements and operating conditions; the most suitable solutions are developed in terms of performance, safety and operational productivity. Thanks to this approach, our company is capable of producing high value-added hydraulic systems for specialised applications, in addition to standard products.

Çelikkol Hidrolik, placing the principles of quality, reliability and sustainable development at the center of its corporate structure, is based on international quality norms in manufacture processes and continues its activities with the understanding of continuous improvement. Our company, which keeping pace with the technological developments, aims to provide its customers with higher productivity, longer product life and lower operating costs by continuously improving manufacture capacity and engineering competencies.

The present, Çelikkol Hidrolik continues its way as a reliable and competitive manufacturer operating in national and international markets by combining domestic manufacturing power with global vision. Thanks to its strong engineering infrastructure, high manufacturing standards, solution-oriented approach and importance to customer satisfaction, it is among the preferred brands of the sector.





ÇELİKKOL

HİDROLİK & PNÖMATİK

CORPORATE DATAS

+28

Year Experience

15K

Annual Production
Capacity

%100

Domestic Manufacturing



OUR MANUFACTURING POWER



MANUFACTURING EXPERTISE

Ø450

Maximum Tube Diameter

15 meter

Maximum Stroke Length

Ø300

Maximum Rod Diameter

OUR MANUFACTURING POWER



High precision manufacturing with advanced CNC Turning



100% control processes using modern measurement and quality control systems



Processing capability in high-strength materials



Integrated manufacture infrastructure dedicated to hydraulic cylinder manufacture



A manufacturing system that complies with standards, is repeatable and sustainable



High surface quality and precision manufacturing at narrow tolerances



With our robotic welding technology, maximum strength and zero error assurance in hydraulic cylinders



MANUFACTURING TECHNOLOGIES AND OPERATION PROCESSES

RAW MATERIAL PROCUREMENT

In the first stage of our manufacturing process, steel pipes, chrome rods and other basic raw materials that meet high quality standards are carefully selected. All materials supplied are subjected to quality control processes before being put into manufacturing to ensure their durability, precision and long-term performance.

CNC TURNING

CNC turning, which are one of the important stages of the manufacturing process, are carried out with advanced technology machinery and engineering-oriented manufacturing. Cylinder components are processed with high precision, ensuring dimensional accuracy in line with technical tolerances and superior surface quality. Our digital manufacturing infrastructure ensures that every part is manufactured to the same quality standards.

WELDING OPERATION

Welding operations, which are one of the important stages of our manufacturing process, are carried out with the aim of high strength and long-lasting performance. The structural strength of the cylinder components is enhanced by combining them using appropriate welding methods and skilled craftsmanship. All welding points are checked in accordance with quality standards, ensuring reliable working performance.



MANUFACTURING TECHNOLOGIES AND OPERATION PROCESSES

ASSEMBLY STAGE

At the assembly stage of our manufacturing process, all hydraulic cylinder components are assembled in accordance with engineering standards. Sealing elements and fittings are mounted with precision to ensure the product's functional integrity.

High performance and reliability are guaranteed through dimensional accuracy and functionality checks.

TESTING & QUALITY CONTROL

In the testing and quality control processes, which are the final stage of our manufacturing process, each hydraulic cylinder is tested according to the criteria of performance, reliability and sealing. Products are inspected at specified pressure values to verify that they comply with quality standards; only approved products are prepared for shipment.

SHIPMENT & LOGISTIC

Our hydraulic cylinders, having successfully completed quality control and performance tests, are carefully packaged prior to shipment and then entered into the logistics process.

Thanks to our effective shipment planning, our products are delivered to our domestic and international customers in a safe, timely and maintaining high quality standards.



HYDRAULIC CYLINDERS



Hydraulic cylinders are the most critical actuators in hydraulic systems, converting pressurized fluid energy into linear mechanical motion with a high force-generation capacity. The basic operating principle is that the pressurised oil delivered to the system by the hydraulic pump acts on the surface of the piston located within the cylinder body, and this controlled pressure difference enables the piston rod to move steadily forwards or backwards. This mechanism, based on Pascal's and Newton's principles, enables high force densities to be transmitted with maximum mechanical productivity via a highly compact, low-volume system.

Hydraulic cylinders in our engineering infrastructure; single-acting, double-acting and multi-stage telescopic are designed in different structural types. In accordance with the kinematic requirements of the application; the piston bore, rod diameter, stroke length, nominal operating pressure and fitting types (such as jointed bearings, flanges, forks and lugs) that determine the mounting configuration are optimised in accordance with international standards. In these systems, which consist of a body, piston, piston rod, front cover, bearing elements and sealing components, high-pressure resistance is a critical factor. While St 52-3 or E355 seamless cold-drawn steel tubes used in cylinder tubes are subjected to precision honing within H8-H9 tolerances; our C45 or 42CrMo4 piston rods with high buckling resistance are induction hardened and processed with a minimum 20-30 microns hard chrome plating. In our sealing systems, tandem polyurethane (PU), NBR, PTFE, and Viton (FKM) configurations are utilized to achieve near-zero internal and external leakage and maximum service life.

Thanks to our wide manufacturing capability, our hydraulic cylinders play a role as the primary powerhouse in all branches of heavy industry and modern engineering. Some of these areas are:



Construction Machineries: From high-shock boom, arm, and bucket applications in excavators, loaders, and dozers, to heavy-duty thrust systems in tunnel boring machines (TBM)...



Iron-Steel & Heavy Industry: Continuous casting lines, blast furnace covers, and rolling mill roll adjustment mechanisms (featuring specialized designs resistant to high temperatures, dust, and slag)



Press and Metalworker: In high-tonnage metal injection moulding, deep drawing, press braking, guillotine shears and recycling/balancing presses.



Agriculture & Forestry: Tractor rear three-point hitch systems, combine harvester header controls, and forestry cutting-loading attachments



Defense Industry & Aviation: In the suspension systems of military armoured vehicles, and in the erection and stabilisation of missile launchers (to high reliability standards)



Maritime & Port Technologies: Ship steering systems, hatch covers, STS/RTG port cranes, and offshore platforms (backed by nickel-chrome plating for ultimate saltwater corrosion resistance)



Energy & Infrastructure Solutions: Commonly utilized in HEPP dam gates (radial/slide) and wind turbine blade pitch control mechanisms.

HYDRAULIC CYLINDER OPERATING PRINCIPLE:

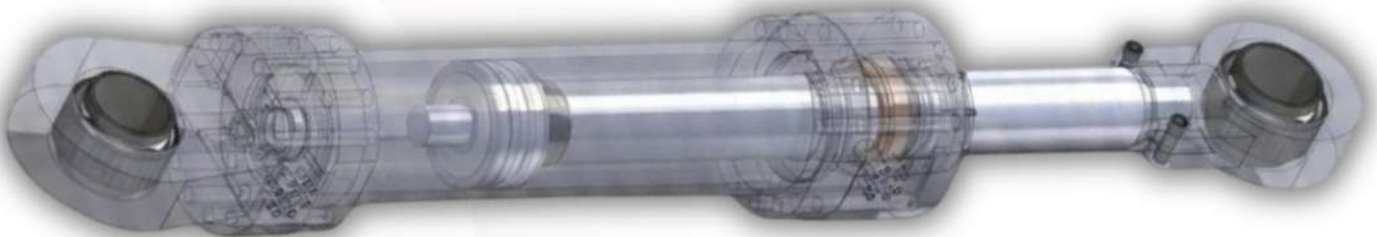
A hydraulic cylinder is an actuator element that works on the principle of converting a pressure hydraulic fluid (usually oil) into mechanical linear motion. The system is mainly composed of cylinder body, piston, piston rod, front and rear covers and sealing elements.

The principle of operation is based on the principle that the pressure generated by the hydraulic pump is transmitted to the relevant chamber of the cylinder through the directional control valves. The pressure fluid acts on the piston surface, forming a linear force and allowing the piston to move forward or backward. This movement is transmitted to the external mechanism through the piston rod, carrying out work manufacture.

While double-acting cylinders provide controlled movement by applying pressure in both directions, single-acting cylinders utilize hydraulic pressure for movement in only one direction, with the return stroke typically driven by spring force or an external load.

The performance of the system; the operating pressure varies depending on the piston diameter, rod diameter, the quality of the sealing elements and the surface treatment precision. For high-productivity operation, the viscosity of the hydraulic oil, minimizing intra-system leaks and production at appropriate tolerances are critical.

Hydraulic cylinders ensure the reliable generation of linear motion requiring high force in industrial machinery, construction equipment, agricultural machinery and heavy industry applications.



WHY HYDRAULIC CYLINDERS?

The basis for the preference of hydraulic cylinders in industrial applications is significant advantages such as high force generation, controllability and durability.

One of its most significant advantages is that it can produce quite high forces, even in small volumes. Hydraulic systems are able to move large loads in a compact structure thanks to the pressurized fluid, which provides a serious power density advantage over mechanical systems.

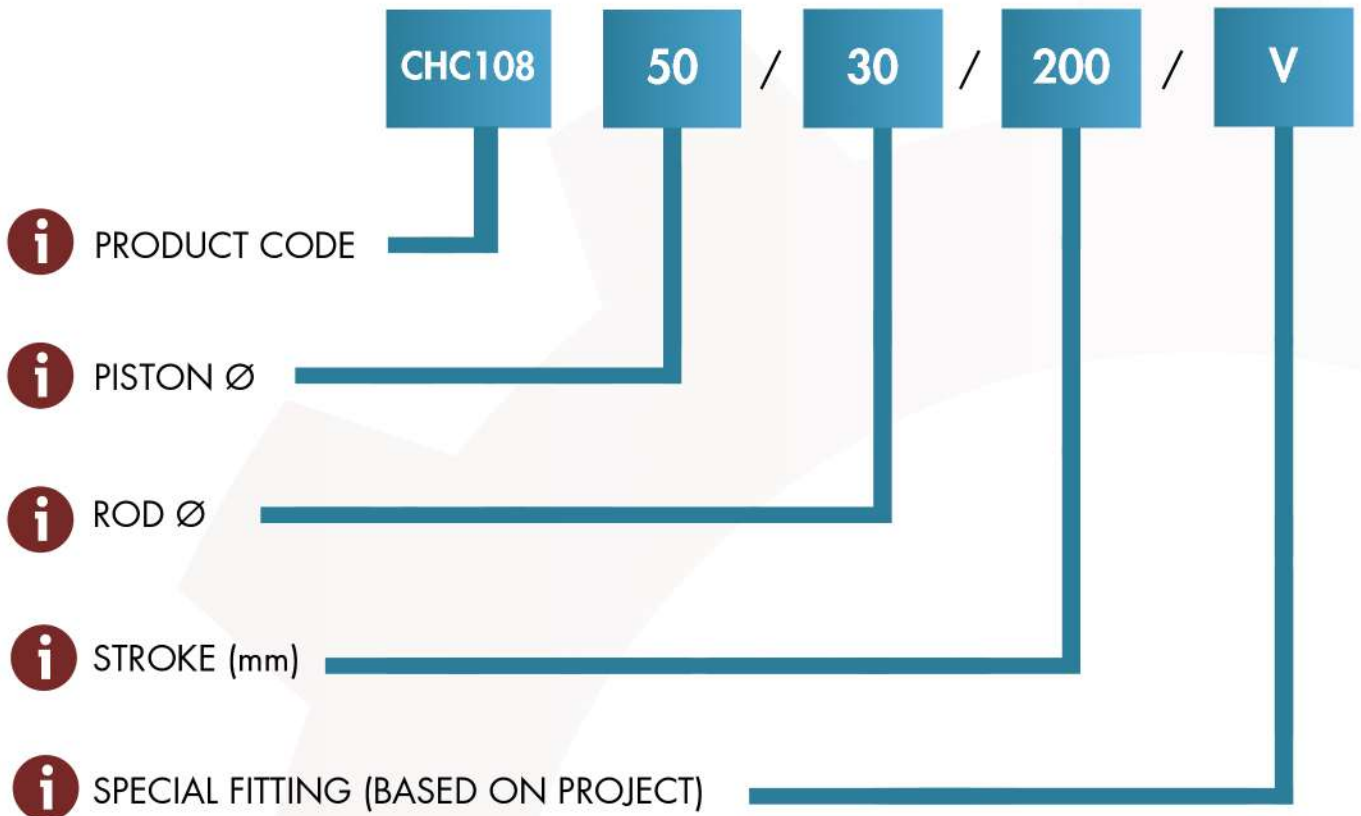
Another significant advantage is that movement can be performed in an extremely precision and controlled. Adjusting the fluid flow and pressure through the valves allows for speed and force control, which allows adaptability to different working conditions.

Hydraulic cylinders also have high durability. With the right material selection and suitable sealing elements, they can work on heavy load for a long time. This feature contributes to the extension of maintenance intervals, especially in continuous and difficult operating conditions.

The compact design is also a significant advantage; there is no need for large mechanical systems to generate high forces. This enables more productivity solutions that take up less space in machine designs.

Furthermore, hydraulic systems demonstrate flexibility in the face of sudden load changes and, thanks to their ability to dampen shock loads, offer more stable operational performance. This makes a significant contribution to both workplace safety and system lifespan.

CYLINDER ORDER CODING



SAMPLE CYLINDER ORDER CODE:

CHC108-50/30/200/V

i Contact us for custom sizes and specialized applications.



CHC Series is a weldless hydraulic cylinder platform developed for applications requiring ease of maintenance and modular construction.

Thanks to its serviceable design, it offers quick response on site, minimizes system downtime and improves operational productivity.

With its high-strength steel body, precision-machined internal surfaces and optimised sealing systems, the CHC Series delivers stable performance in medium and high-pressure hydraulic systems.

Thanks to its modular structure, it can be easily adapted to different stroke, diameter and fittings types. Within the series, hydraulic cylinder solutions are manufactured in special configurations for CETOP, KHS and different application needs.

Advantages:

- Quick-service design for rapid assembly and disassembly
- Minimized maintenance time and easy component replacement
- Broad application flexibility via modular design
- Manufacturing options in CETOP and KHS configurations
- Long-lasting sealing performance

Fields of Usage:

Agricultural machinery, industrial automation systems, mobile hydraulic applications, press systems and general machinery equipment.

TECHNICAL PARAMETER	STANDARD MANUFACTURING DIMENSIONS	OUR TECHNOLOGICAL UPPER LIMIT
OPERATING PRESSURE	20BAR/400BAR	450 BAR
FLUID TYPE	MINERAL OILS	MINERAL OILS
SEALING ELEMENTS	NBR+PU+FKM	LOW FRICTION (TEFLON)/BRONZE ALLOY COMBINATIONS
PISTON ROD	CK45 Chrome Plated (f7 Tolerance)	Induction-Hardened/Corrosion-Resistant Nickel-Chromium Plating
MAX. PISTON SPEED	0.5 M/s	1.5 M/s and Over High Speed Seals
OPERATING TEMPERATURE	Min.-20°/Max.+80°(+200° SPECIAL FKM/VITON)	Min.-40°/Max+200°
VISCOSITY	5 cSt-300 cSt	5 cSt-400 cSt
CYLINDER TUBE	ST52 BK+S/E355 HONED	Special Alloy High Pressure

i OPTIONAL CONFIGURATIONS:

-Cushioning:

Adjustable stroke end pulse damping units on front cover, back cover or both directions.

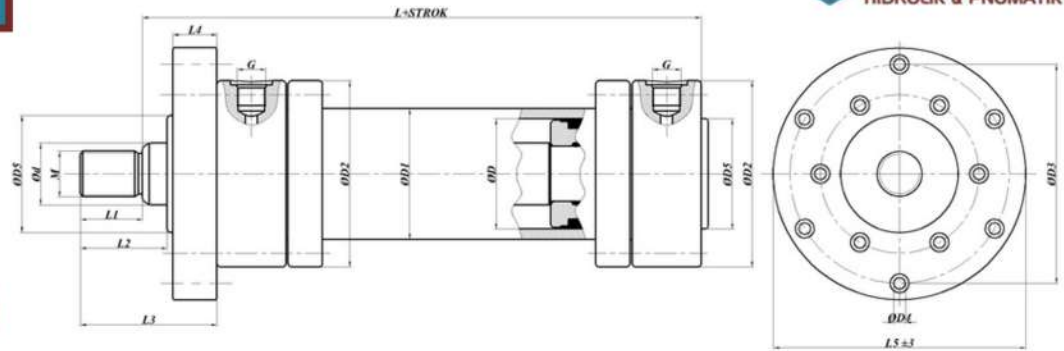
Operating Type:

- Single-acting Operating
- Double-acting Operating

-Sensor Integration:

Option for a contactless, absolute linear scale embedded within the cylinder (scaled cylinder)

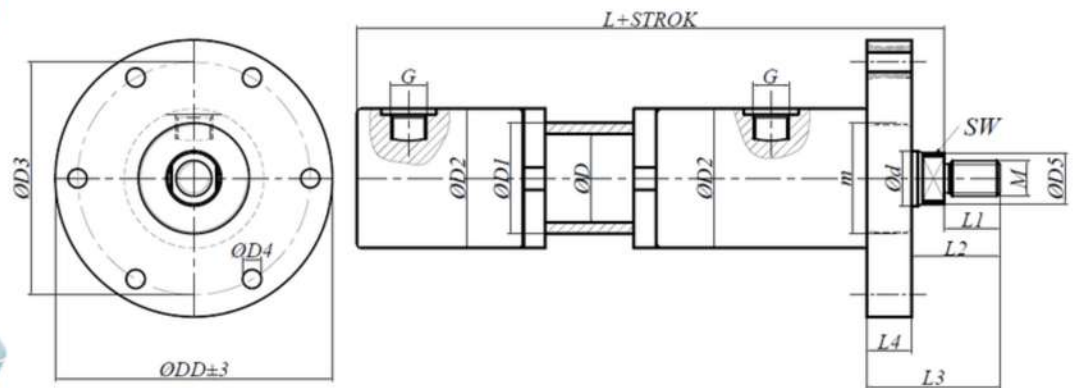
CHC-100 SERIES



ØD	M	Ød	L	L1	L2	L3	L4	L5	G	ØD1	ØD2	ØD3	ØD4	ØD5	SCREW USED
Ø40	M16x1,5	25	197	25	35	59	20	150	R 3/8"	50	98	128	8,5x6	50	M8-12,9x6 pcs
Ø50	M20x1,5	30	208	30	42	66	20	160	R 1/2"	60	108	134	8,5x6	60	M8-12,9x6 pcs
Ø63	M27x2	35	215	35	52	81	20	175	R 1/2"	75	125	149	8,5x6	70	M8-12,9x6 pcs
Ø80	M33x2	45	225	45	63	99	20	185	R 1/2"	95	135	159	8,5x6	85	M8-12,9x6 pcs
Ø100	M42x2	55	264	55	76	113	30	215	R 3/4"	115	158	188	10,5x6	106	M10-12,9x6 pcs
Ø125	M48x2	70	266	70	86	123	30	280	R 3/4"	145	195	230	10,5x6	132	M10-12,9x6 pcs
Ø140	M56x2	80	287	80	100	142	30	300	R 3/4"	160	216	255	15x6	140	M14-12,9x6 pcs
Ø160	M64x3	90	287	90	110	152	40	325	R 3/4"	180	246	283	15x6	160	M14-12,9x6 pcs
Ø180	M72x3	100	302	100	120	162	40	350	R 1"	210	276	305	15x6	180	M14-12,9x6 pcs
Ø200	M80x3	110	312	110	125	167	40	350	R 1"	220	276	310	15x8	200	M14-12,9x8 pcs

NOTE: Dimensions are given in mm.

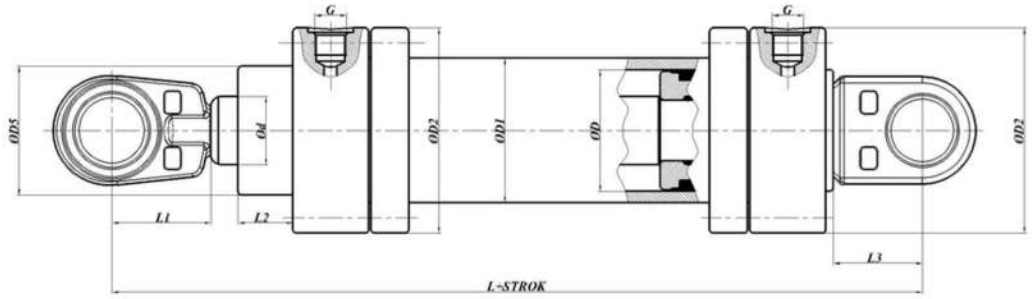
CHC-101 SERIES



ØD	M	Ød	L	L1	L2	L3	L4	G	DD	ØD1	ØD2	ØD3	ØD4xPCS	ØD5	m	SW
Ø40	M16x1,5	25	165	25	40	60	20	G 3/8"	125	50	63	105	Ø8,5x6	23	M50x2	20
Ø50	M20x1,5	30	170	30	45	65	20	G 3/8"	155	60	73	125	Ø10,5x6	28	M60x2	25
Ø63	M27x2	35	177	35	50	70	20	G 3/8"	178	75	88	148	Ø10,5x6	33	M75x2	30
Ø80	M33x2	45	196	40	55	80	25	G 1/2"	198	95	108	165	Ø13x6	43	M95x2	40
Ø100	M42x2	55	210	55	70	95	25	G 1/2"	198	115	127	190	Ø13x6	53	M115x2	50
Ø125	M48x2	70	245	55	75	105	30	G 1/2"	226	145	165	220	Ø13x6	65	M145x2	60
Ø140	M56x2	80	253	60	80	110	30	G 1/2"	295	160	185	245	Ø17x6	75	M160x2	70

NOTE: Dimensions are given in mm.

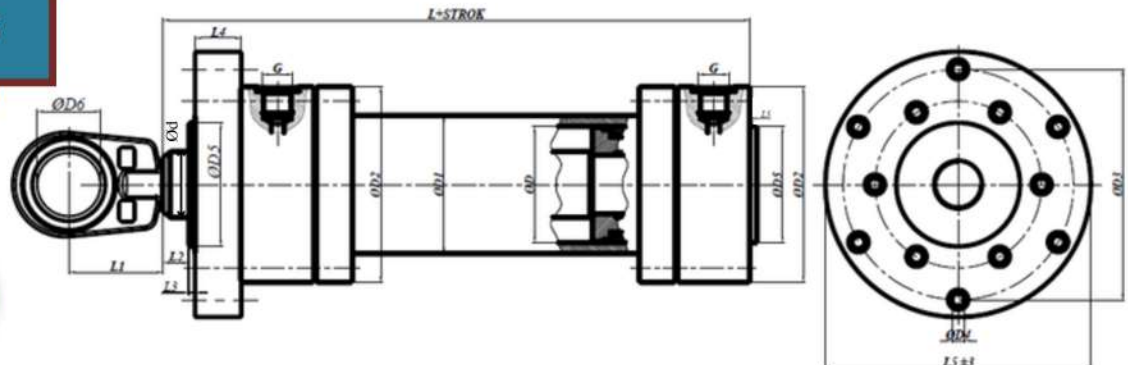
CHC-102 SERIES



ØD	Ød	L	L1	L2	L3	G	ØD1	ØD2	ØD5	JOINT Ø	SCREW USED
Ø40	25	307	50	24	38	R 3/8"	50	98	50	GE20ES	M8-12,9x6 pcs
Ø50	30	334	50	24	45	R 1/2"	60	108	60	GE25ES	M8-12,9x6 pcs
Ø63	35	355	60	29	51	R 1/2"	75	125	70	GE30ES	M8-12,9x6 pcs
Ø80	45	387	70	36	61	R 1/2"	95	135	85	GE35ES	M8-12,9x6 pcs
Ø100	55	441	105	37	88	R 3/4"	115	158	106	GE50ES	M10-12,9x6 pcs
Ø125	70	500	130	37	100	R 3/4"	145	195	132	GE60ES	M10-12,9x6 pcs
Ø140	80	525	150	42	115	R 3/4"	160	216	140	GE70ES	M14-12,9x6 pcs
Ø160	90	535	150	42	115	R 3/4"	180	246	160	GE70ES	M14-12,9x6 pcs
Ø180	100	572	170	42	141	R 1"	210	276	180	GE80ES	M14-12,9x6 pcs
Ø200	110	617	235	42	170	R 1"	220	276	200	GE100ES	M14-12,9x8 pcs

NOTE: Dimensions are given in mm.

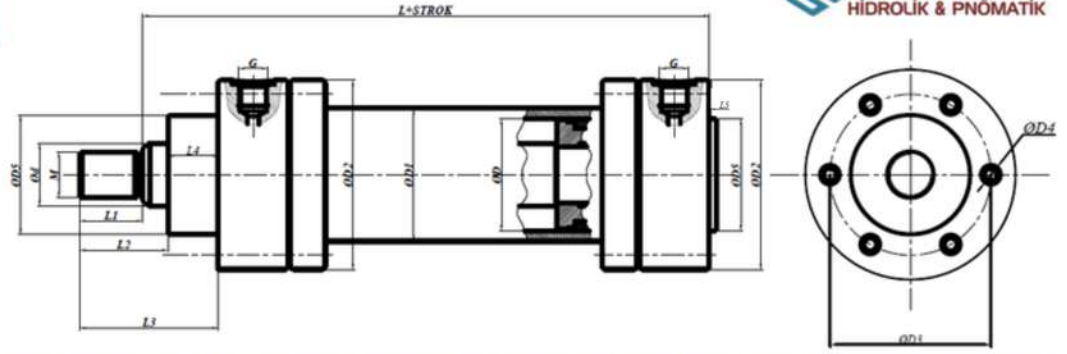
CHC-103 SERIES



ØD	Ød	L	L1	L2	L3	L4	L5	G	ØD1	ØD2	ØD3	ØD4	ØD5	SCREW USED	ØD6(JOINT USED)
Ø40	25	197	50	35	4	20	5	R 3/8"	50	98	128	8,5x6	50	M8-12,9x6 pcs	GE20ES
Ø50	30	208	50	42	4	20	5	R 1/2"	60	108	134	8,5x6	60	M8-12,9x6 pcs	GE25ES
Ø63	35	215	60	52	4	25	5	R 1/2"	75	125	149	8,5x6	70	M8-12,9x6 pcs	GE30ES
Ø80	45	225	70	63	6	30	8	R 1/2"	95	135	159	8,5x6	85	M8-12,9x6 pcs	GE35ES
Ø100	55	264	105	76	5	32	8	R 3/4"	115	158	188	10,5x6	106	M10-12,9x6 pcs	GE50ES
Ø125	70	266	130	86	5	32	8	R 3/4"	145	195	230	10,5x6	132	M10-12,9x6 pcs	GE60ES
Ø140	80	287	150	100	5	37	10	R 3/4"	160	216	255	15x6	140	M14-12,9x6 pcs	GE70ES
Ø160	90	287	150	110	5	37	10	R 3/4"	180	246	283	15x6	160	M14-12,9x6 pcs	GE70ES
Ø180	100	302	170	120	2	40	10	R 1"	210	276	305	15x6	180	M14-12,9x6 pcs	GE80ES
Ø200	110	312	235	125	2	40	10	R 1"	220	276	310	15x8	200	M14-12,9x8 pcs	GE100ES

NOTE: Dimensions are given in mm.

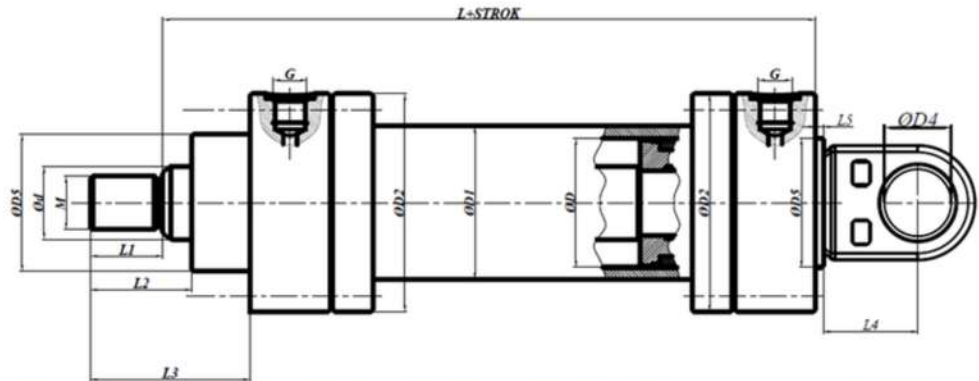
CHC-104 SERIES



ØD	M	Ød	L	L1	L2	L3	L4	L5	G	ØD1	ØD2	ØD3	ØD4	ØD5	SCREW USED
Ø40	M16x1,5	25	197	25	35	59	20	5	R 3/8"	50	98	75	M8x6	50	M8-12,9x6 pcs
Ø50	M20x1,5	30	208	30	42	66	20	5	R 1/2"	60	108	85	M8x6	60	M8-12,9x6 pcs
Ø63	M27x2	35	215	35	52	81	20	5	R 1/2"	75	125	100	M8x6	70	M8-12,9x6 pcs
Ø80	M33x2	45	225	45	63	99	20	8	R 1/2"	95	135	115	M8x6	85	M8-12,9x6 pcs
Ø100	M42x2	55	264	55	76	113	30	8	R 3/4"	115	158	137	M10x6	106	M10-12,9x6 pcs
Ø125	M48x2	70	266	70	86	123	30	8	R 3/4"	145	195	168	M12x6	132	M10-12,9x6 pcs
Ø140	M56x2	80	287	80	100	142	30	10	R 3/4"	160	216	187	M14x6	140	M14-12,9x6 pcs
Ø160	M64x3	90	287	90	110	152	40	10	R 3/4"	180	246	215	M14x6	160	M14-12,9x6 pcs
Ø180	M72x3	100	302	100	120	162	40	10	R 1"	210	276	225	M14x6	180	M14-12,9x6 pcs
Ø200	M80x3	110	312	110	125	167	40	10	R 1"	220	276	245	M14x8	200	M14-12,9x8 pcs

NOTE: Dimensions are given in mm.

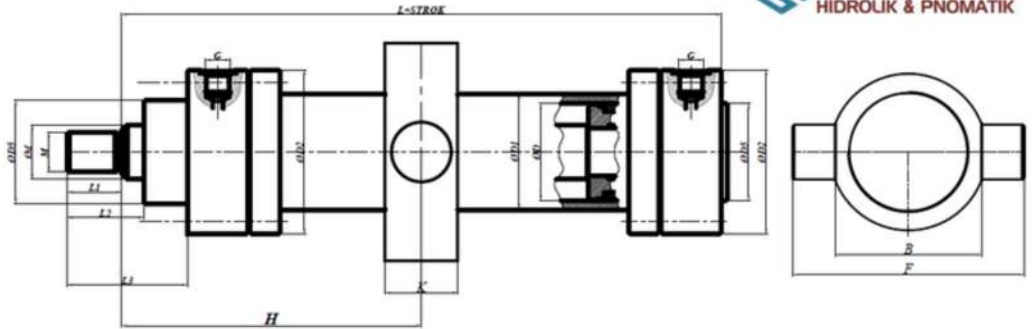
CHC-105 SERIES



ØD	M	Ød	L	L1	L2	L3	L4	L5	G	ØD1	ØD2	ØD4 (JOINT USED)	ØD5	SCREW USED
Ø40	M16x1,5	25	197	25	35	59	38	5	R 3/8"	50	98	GE20ES	50	M8-12,9x6 pcs
Ø50	M20x1,5	30	208	30	42	66	45	5	R 1/2"	60	108	GE25ES	60	M8-12,9x6 pcs
Ø63	M27x2	35	215	35	52	81	51	5	R 1/2"	75	125	GE30ES	70	M8-12,9x6 pcs
Ø80	M33x2	45	225	45	63	99	61	8	R 1/2"	95	135	GE35ES	85	M8-12,9x6 pcs
Ø100	M42x2	55	264	55	76	113	88	8	R 3/4"	115	158	GE50ES	106	M10-12,9x6 pcs
Ø125	M48x2	70	266	70	86	123	100	8	R 3/4"	145	195	GE60ES	132	M10-12,9x6 pcs
Ø140	M56x2	80	287	80	100	142	115	10	R 3/4"	160	216	GE70ES	140	M14-12,9x6 pcs
Ø160	M64x3	90	287	90	110	152	115	10	R 3/4"	180	246	GE70ES	160	M14-12,9x6 pcs
Ø180	M72x3	100	302	100	120	162	141	10	R 1"	210	276	GE80ES	180	M14-12,9x6 pcs
Ø200	M80x3	110	312	110	125	167	170	10	R 1"	220	276	GE100ES	200	M14-12,9x8 pcs

NOTE: Dimensions are given in mm.

CHC-106 SERIES

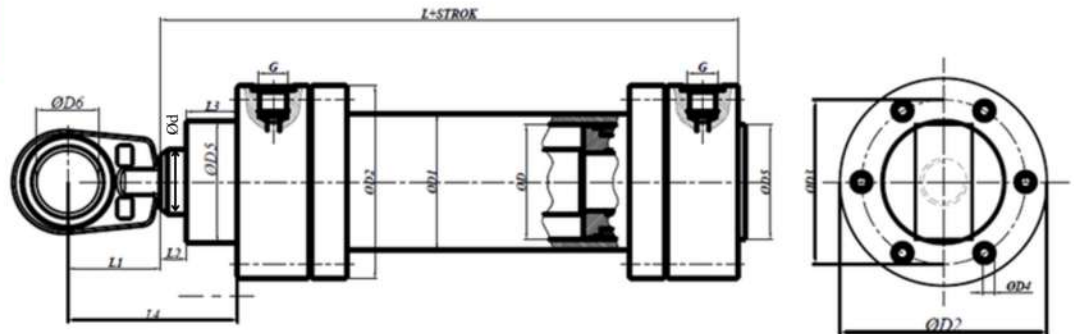


ØD	M	Ød	L	L1	L2	L3	K	G	ØD1	ØD2	B	F	ØD5	SCREW USED
Ø40	M16x1,5	25	197	25	35	59	40	R 3/8"	50	98	90	122	50	M8-12,9x6 pcs
Ø50	M20x1,5	30	208	30	42	66	45	R 1/2"	60	108	105	145	60	M8-12,9x6 pcs
Ø63	M27x2	35	215	35	52	81	50	R 1/2"	75	125	111	161	70	M8-12,9x6 pcs
Ø80	M33x2	45	225	45	63	99	55	R 1/2"	95	135	131	173	85	M8-12,9x6 pcs
Ø100	M42x2	55	264	55	76	113	55	R 3/4"	115	158	152	202	106	M10-12,9x6 pcs
Ø125	M48x2	70	266	70	86	123	60	R 3/4"	145	195	195	295	132	M10-12,9x6 pcs
Ø140	M56x2	80	287	80	100	142	60	R 3/4"	160	216	215	332	140	M14-12,9x6 pcs
Ø160	M64x3	90	287	90	110	152	65	R 3/4"	180	246	245	368	160	M14-12,9x6 pcs
Ø180	M72x3	100	302	100	120	162	70	R 1"	210	276	275	425	180	M14-12,9x6 pcs
Ø200	M80x3	110	312	110	125	167	80	R 1"	220	276	298	465	200	M14-12,9x8 pcs

(H) DIMENSIONS ARE APPLIED IN ACCORDANCE WITH THE PROJECT AND THE STROKE.

NOTE: Dimensions are given in mm.

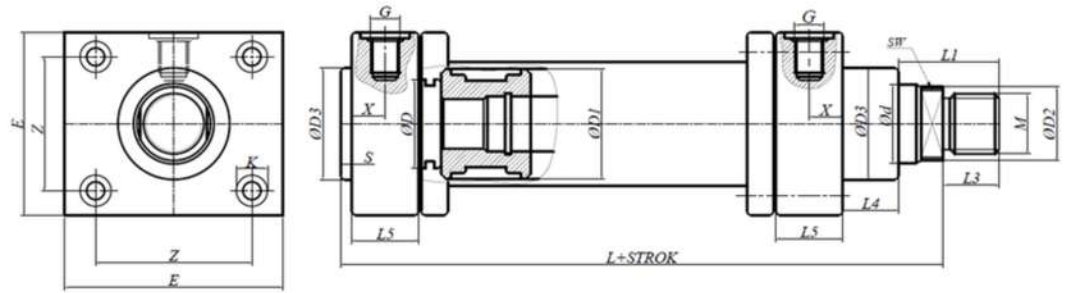
CHC-107 SERIES



ØD	Ød	L	L1	L2	L3	L4	G	ØD1	ØD2	ØD3	ØD4	ØD5	SCREW USED	ØD6 (JOINT USED)
Ø40	25	197	50	35	20	105	R 3/8"	50	98	75	M8x6 pcs	50	M8-12,9x6 pcs	GE20ES
Ø50	30	208	50	42	20	112	R 1/2"	60	108	85	M8x6 pcs	60	M8-12,9x6 pcs	GE25ES
Ø63	35	215	60	52	25	137	R 1/2"	75	125	100	M8x6 pcs	70	M8-12,9x6 pcs	GE30ES
Ø80	45	225	70	63	30	163	R 1/2"	95	135	115	M8x6 pcs	85	M8-12,9x6 pcs	GE35ES
Ø100	55	264	105	76	32	213	R 3/4"	115	158	137	M10x6 pcs	106	M10-12,9x6 pcs	GE50ES
Ø125	70	266	130	86	32	248	R 3/4"	145	195	168	M12x6 pcs	132	M10-12,9x6 pcs	GE60ES
Ø140	80	287	150	100	37	287	R 3/4"	160	216	187	M14x6 pcs	140	M14-12,9x6 pcs	GE70ES
Ø160	90	287	150	110	37	297	R 3/4"	180	246	215	M14x6 pcs	160	M14-12,9x6 pcs	GE70ES
Ø180	100	302	170	120	40	330	R 1"	210	276	225	M14x6 pcs	180	M14-12,9x6 pcs	GE80ES
Ø200	110	312	235	125	40	400	R 1"	220	276	245	M14x8 pcs	200	M14-12,9x8 pcs	GE100ES

NOTE: Dimensions are given in mm.

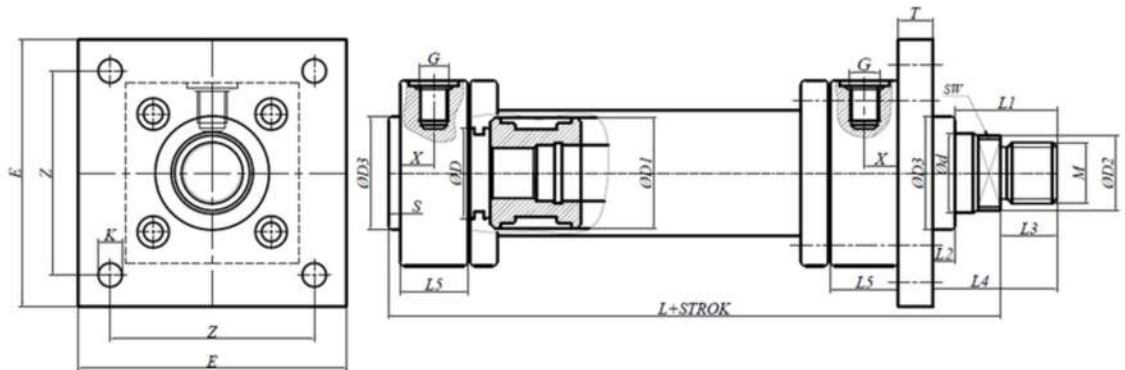
CHC-108 SERIES



ØD	M	L	Ød	L1	L3	L4	L5	E	X	Z	S	G	ØD1	ØD2	ØD3	K	SW
Ø40	M16x1,5	170	25	40	20	25	30	73	15	52	5	G 1/4"	50	23	50	Ø8,5	20
Ø50	M20x1,5	170	28	40	20	25	30	85	15	60	5	G 1/4"	60	25	55	Ø8,5	20
Ø63	M27x2	187	36	45	25	28	35	98	17,5	70	5	G 3/8"	75	33	68	Ø12,5	28
Ø80	M33x2	205	45	50	30	28	35	108	17,5	80	5	G 1/2"	95	42	80	Ø12,5	38
Ø100	M42x2	207	56	62	40	28	35	138	17,5	106	5	G 1/2"	115	53	100	Ø15	48
Ø125	M48x2	269	70	70	45	37	60	180	30	140	5	G 3/4"	145	65	125	Ø17	60
Ø140	M56x2	295	80	75	50	42	60	200	30	160	10	G 3/4"	160	75	140	Ø21	70
Ø160	M64x3	295	90	85	60	42	60	220	30	180	10	G 3/4"	180	85	160	Ø21	80

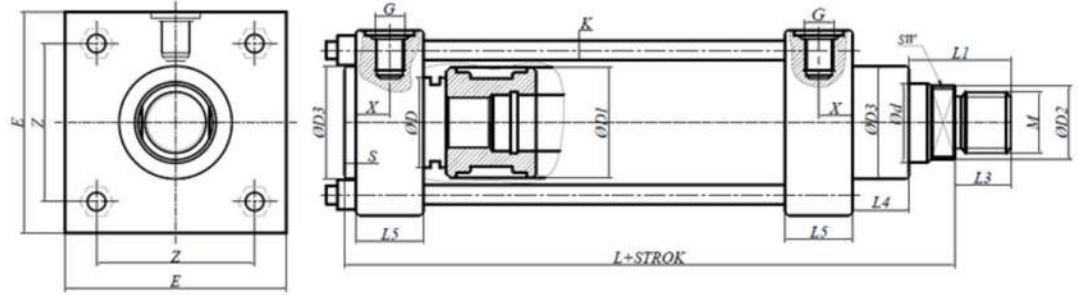
NOTE: Dimensions are given in mm.

CHC-109 SERIES



ØD	M	L	Ød	L1	L2	L3	L4	L5	T	E	X	Z	S	G	ØD1	ØD2	ØD3	K	SW
Ø40	M16x1,5	170	25	40	10	20	50	30	15	118	15	90	5	G 1/4"	50	23	50	Ø8,5	20
Ø50	M20x1,5	170	28	40	10	20	50	30	15	128	15	100	5	G 1/4"	60	25	55	Ø8,5	20
Ø63	M27x2	187	36	45	8	25	53	35	20	158	17,5	120	5	G 3/8"	75	33	68	Ø12,5	28
Ø80	M33x2	205	45	50	8	30	58	35	20	168	17,5	130	5	G 1/2"	95	42	80	Ø12,5	38
Ø100	M42x2	207	56	62	3	40	65	35	25	208	17,5	170	5	G 1/2"	115	53	100	Ø15	48

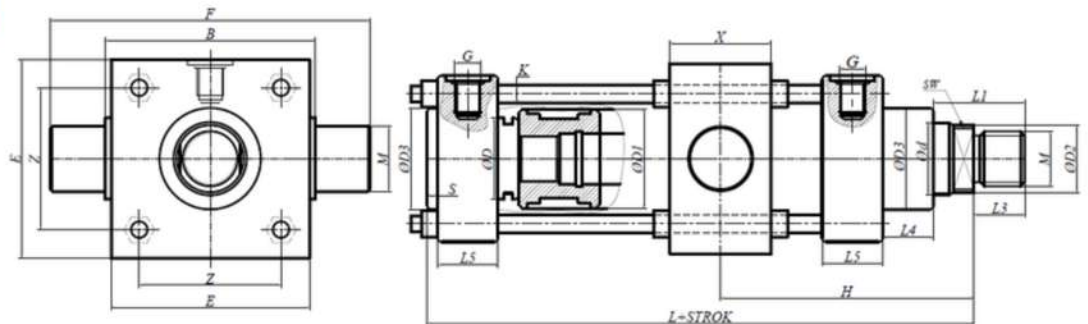
NOTE: Dimensions are given in mm.



ØD	M	L	Ød	L1	L3	L4	L5	E	X	Z	S	G	ØD1	ØD2	ØD3	K	SW
Ø40	M16x1,5	170	25	40	20	25	30	73	15	52	5	G 1/4"	50	23	50	M8	20
Ø50	M20x1,5	170	28	40	20	25	30	85	15	60	5	G 1/4"	60	25	55	M8	20
Ø63	M27x2	187	36	45	25	28	35	98	17,5	70	5	G 3/8"	75	33	68	M10	28
Ø80	M33x2	205	45	50	30	28	35	108	17,5	80	5	G 1/2"	95	42	80	M10	38
Ø100	M42x2	207	56	62	40	28	35	138	17,5	106	5	G 1/2"	115	53	100	M14	48
Ø125	M48x2	269	70	70	45	37	60	180	30	140	5	G 3/4"	145	65	125	M16	60
Ø140	M56x2	295	80	75	50	42	60	200	30	160	10	G3/4"	160	75	140	M20	70
Ø160	M64x3	295	90	85	60	42	60	220	30	180	10	G3/4"	180	85	160	M20	80

NOTE: Dimensions are given in mm.

CHC-111 SERIES

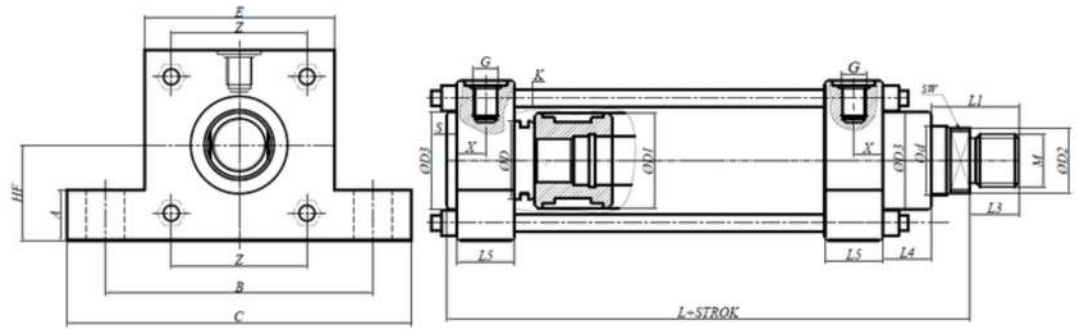


ØD	M	L	Ød	L1	L3	L4	L5	E	Z	S	G	ØD1	ØD2	ØD3	K	X	M	B	F	SW
Ø40	M16x1,5	170	25	40	20	25	30	73	52	5	G 1/4"	50	23	50	M8	30	25	79	126	20
Ø50	M20x1,5	170	28	40	20	25	30	85	60	5	G 1/4"	60	25	55	M8	40	32	91	153	20
Ø63	M27x2	187	36	45	25	28	35	98	70	5	G 3/8"	75	33	68	M10	50	32	104	164	28
Ø80	M33x2	205	45	50	30	28	35	108	80	5	G 1/2"	95	42	80	M10	60	36	117	199	38
Ø100	M42x2	207	56	62	40	28	35	138	106	5	G 1/2"	115	53	100	M14	70	40	148	220	48
Ø125	M48x2	269	70	70	45	37	60	180	140	5	G 3/4"	145	65	125	M16	90	42	190	262	60
Ø140	M56x2	295	80	75	50	42	60	200	160	10	G3/4"	160	75	140	M20	100	48	212	312	70
Ø160	M64x3	295	90	85	60	42	60	220	180	10	G3/4"	180	85	160	M20	110	56	232	330	80

**(H) DIMENSIONS ARE APPLIED IN ACCORDANCE WITH THE PROJECT
AND THE STROKE.**

NOTE: Dimensions are given in mm.

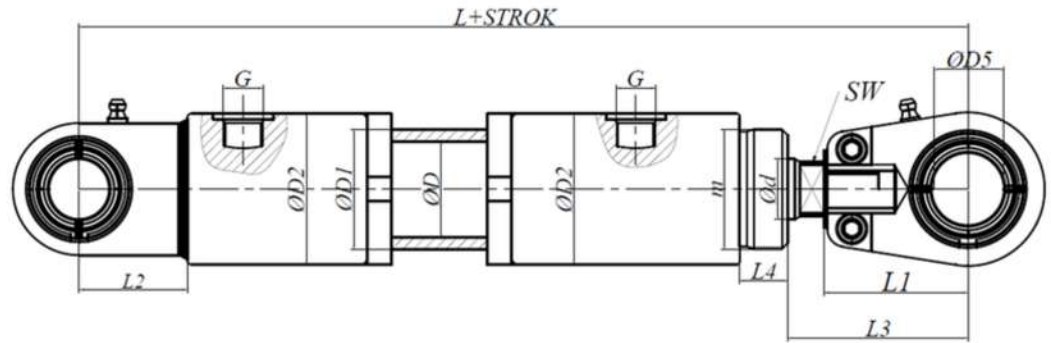
ÇELİKKOL
HİDROLİK & PNÖMATİK



NOTE: Dimensions are given in mm.

NOTE: Dimensions are given in mm.

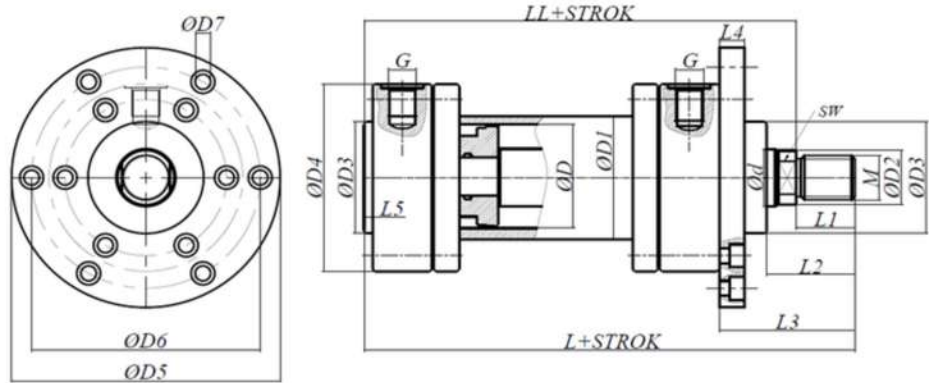
CHC-114 SERIES



ØD	Ød	L	L1	L2	L3	L4	G	ØD1	ØD2	ØD5	m	SW
Ø40	25	253	50	38	90	20	G 3/8"	50	63	GE20ES	M50x2	20
Ø50	30	265	50	45	95	20	G 3/8"	60	73	GE25ES	M60x2	25
Ø63	35	288	60	51	110	20	G 3/8"	75	88	GE30ES	M75x2	30
Ø80	45	327	70	61	125	25	G1/2"	95	108	GE35ES	M95x2	40
Ø100	55	403	105	88	175	25	G1/2"	115	127	GE50ES	M115x2	50
Ø125	70	475	130	100	205	30	G1/2"	145	165	GE60ES	M145x2	60
Ø140	80	518	150	115	230	30	G1/2"	160	185	GE70ES	M160x2	70

NOTE: Dimensions are given in mm.

CHC-115 SERIES



ØD	Ød	L	L1	L2	L3	L4	L5	LL	M	G	ØD1	ØD2	ØD3	ØD4	ØD5	ØD6	ØD7	SCREW USED	SW
32	20	175	20	35	55	15	5	155	M14x2	1/4"	40	18	40	72	108	90	7	M6x12,9 6pcs	16
40	25	192	25	42	67	15	5	167	M16x2	1/4"	50	23	50	82	118	100	7	M6x12,9 6pcs	18
50	30	195	30	45	70	15	5	165	M20x1,5	1/4"	60	28	55	92	128	110	7	M6x12,9 6pcs	24
63	35	219	35	52	80	15	5	184	M27x2	3/8"	75	33	68	114	158	134,5	9	M8x12,9 6pcs	28
70	45	224	40	57	85	15	5	184	M36x2	3/8"	85	38	78	123	165	144	9	M8x12,9 6pcs	38
80	50	250	45	65	93	20	5	205	M42x2	3/8"	95	43	80	135	176	155	9	M8x12,9 6pcs	44
100	56	260	50	75	103	20	5	210	M48x2	3/8"	115	54	100	155	195	175	9	M8x12,9 6pcs	48



CHW Series is the hydraulic cylinder platform with welded body structure, designed for high strength and severe service conditions. Thanks to its seamlessly welded body design, it provides maximum structural strength and exhibits superior resistance to deformation even under high pressure.

CHW Series with advanced welding technology, precision honed tubes surfaces and high-quality piston systems; offers long-lasting and stable performance in harsh operating conditions. Thanks to its compact body structure, it provides mounting advantage in tight spaces.

Advantages:

- High pressure and heavy load strength
- Compact and robust welded body structure
- High reliability in harsh operating conditions
- Low deformation and high rigidity
- Long-lasting sealing performance

Fields of Usage:

Construction machinery, Heavy equipment, Mining equipment, Heavy industry press systems, Crane and lifting systems

TECHNICAL PARAMETER	STANDARD MANUFACTURING DIMENSIONS	OUR TECHNOLOGICAL UPPER LIMIT
OPERATING PRESSURE	20BAR/400BAR	450 BAR
FLUID TYPE	MINERAL OILS	MINERAL OILS
SEALING ELEMENTS	NBR+PU+FKM	LOW FRICTION (TEFLON) / BRONZE ALLOY COMBINATIONS
PISTON ROD	CK45 CHROME PLATED(f7 Tolerance)	Induction-Hardened/ Corrosion-Resistant Nickel-Chromium Plating
MAX. PISTON SPEED	0.5 M/s	1.5 M/s and Over High Speed Seals
OPERATING TEMPERATURE	Min.-20°/Max.+80°(+200° SPECIAL FKM/VITON)	Min.-40°/Max+200°
VISCOSITY	5 cSt-300 cSt	5 cSt-400 cSt
CYLINDER TUBE	ST52 BK+S/E355 HONED	Special Alloy High Pressure

i OPTIONAL CONFIGURATIONS:

-Cushioning:

Adjustable stroke end pulse damping units on front cover, back cover or both directions.

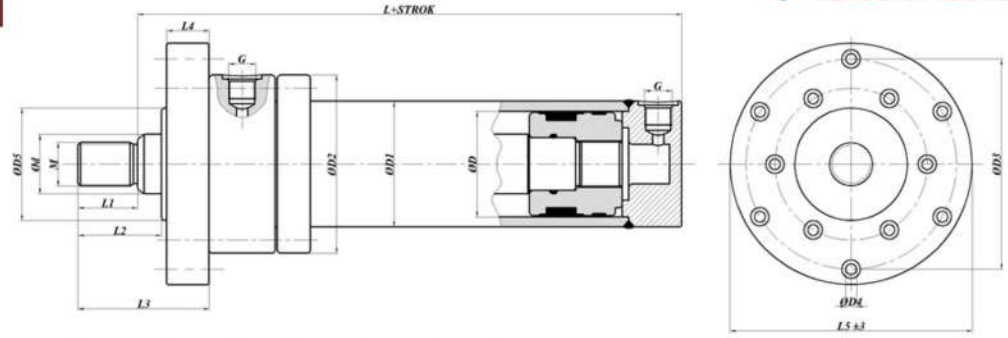
Operating Type:

Single-acting Operating
Double-acting Operating

-Sensor Integrations:

Option for a contactless, absolute linear scale embedded within the cylinder (scaled cylinder)

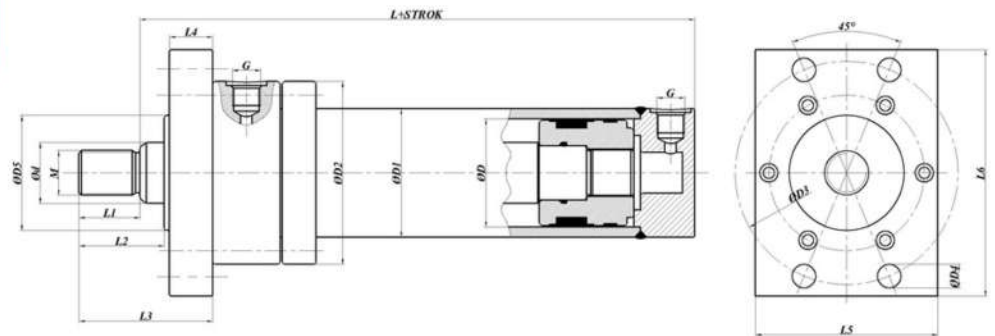
CHW-100 SERIES



ØD	M	Ød	L	L1	L2	L3	L4	L5	G	ØD1	ØD2	ØD3	ØD4	ØD5
Ø40	M16x1,5	25	197	25	35	59	20	150	R 3/8"	50	98	128	8,5x6	50
Ø50	M20x1,5	30	208	30	42	66	20	160	R 1/2"	60	108	134	8,5x6	60
Ø63	M27x2	35	215	35	52	81	20	175	R 1/2"	75	125	149	8,5x6	70
Ø80	M33x2	45	225	45	63	99	20	185	R 1/2"	95	135	159	8,5x6	85
Ø100	M42x2	55	264	55	76	113	30	215	R 3/4"	115	158	188	10,5x6	106
Ø125	M48x2	70	266	70	86	123	30	280	R 3/4"	145	195	230	10,5x6	132
Ø140	M56x2	80	287	80	100	142	30	300	R 3/4"	160	216	255	15x6	140
Ø160	M64x3	90	287	90	110	152	40	325	R 3/4"	180	246	283	15x6	160
Ø180	M72x3	100	302	100	120	162	40	350	R 1"	210	276	305	15x6	180
Ø200	M80x3	110	312	110	125	167	40	350	R 1"	220	276	310	15x8	200

NOTE: Dimensions are given mm.

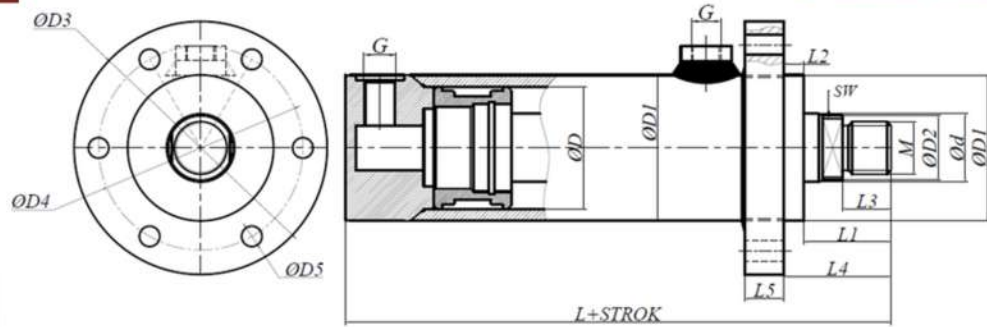
CHW-101 SERIES



ØD	M	Ød	L	L1	L2	L3	L4	L5	L6	G	ØD1	ØD2	ØD3	ØD4	ØD5
Ø40	M16x1,5	25	197	25	35	59	16	100	135	R 3/8"	50	98	120	9	50
Ø50	M20x1,5	30	208	30	42	66	20	110	150	R 1/2"	60	108	135	11	60
Ø63	M27x2	35	215	35	52	81	25	125	175	R 1/2"	75	125	155	13	70
Ø80	M33x2	45	225	45	63	99	32	135	190	R 1/2"	95	135	170	17	85
Ø100	M42x2	55	264	55	76	113	32	160	220	R 3/4"	115	158	200	21	106
Ø125	M48x2	70	266	70	86	123	32	195	250	R 3/4"	145	195	235	21	132
Ø140	M56x2	80	287	80	100	142	35	220	280	R 3/4"	160	216	260	21	140
Ø160	M64x3	90	287	90	110	152	35	250	310	R 3/4"	180	246	290	21	160
Ø180	M72x3	100	302	100	120	162	38	280	370	R 1"	210	276	330	26	180
Ø200	M80x3	110	312	110	125	167	38	280	380	R 1"	220	276	345	32	200

NOTE: Dimensions are given mm.

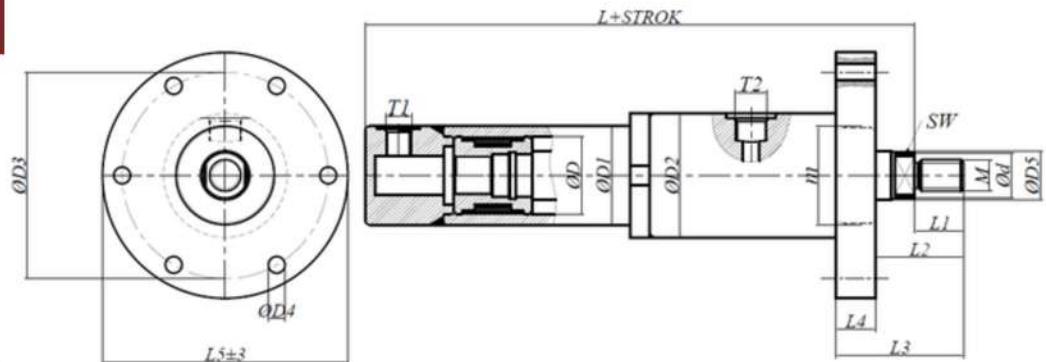
CHW-102 SERIES



ØD	M	L	Ød	L1	L2	L3	L4	L5	G	ØD1	ØD2	ØD3	ØD4	ØD5	SW
Ø40	M16x1,5	165	25	40	8	20	48	15	G 1/4"	50	23	98	85	Ø8,5x6 pcs	20
Ø50	M20x1,5	168	30	40	8	20	48	20	G 3/8"	60	28	118	95	Ø10,5x6 pcs	25
Ø63	M27x2	180	35	45	10	25	55	20	G 3/8"	75	33	128	105	Ø10,5x6 pcs	30
Ø80	M33x2	205	45	50	10	30	60	25	G 1/2"	95	43	148	120	Ø13x6 pcs	40
Ø100	M42x2	239	55	62	12	40	74	25	G 1/2"	115	53	168	140	Ø13x6 pcs	50
Ø125	M48x2	247	70	70	12	45	82	30	G 1/2"	145	65	198	170	Ø13x6 pcs	60
Ø140	M56x2	280	80	75	12	50	87	30	G 1/2"	160	75	208	185	Ø17x6 pcs	70
Ø160	M64x3	285	90	80	12	60	92	30	G 1/2"	180	85	245	210	Ø17x6 pcs	80
Ø180	M72x3	317	100	110	14	70	124	40	G 1/2"	210	95	300	255	Ø21x6 pcs	90
Ø200	M80x3	339	110	120	14	80	134	40	G 1/2"	230	105	320	285	Ø21x6 pcs	100

NOTE: Dimensions are given mm.

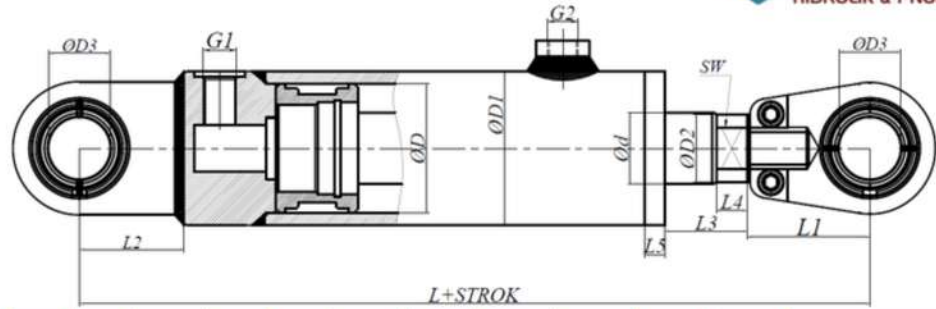
CHW-103 SERIES



ØD	M	Ød	L	L1	L2	L3	L4	L5	T1	T2	ØD1	ØD2	ØD3	ØD4x4DET	ØD5	m	SW
Ø40	M16x1,5	25	175	25	40	60	20	125	G 1/4"	G 3/8"	50	63	105	Ø8,5x6	23	M50x2	20
Ø50	M20x1,5	30	215	30	45	65	20	155	G 3/8"	G 3/8"	60	73	125	Ø10,5x6	28	M60x2	25
Ø63	M27x2	35	217	35	50	70	20	178	G 3/8"	G 3/8"	75	88	148	Ø10,5x6	33	M75x2	30
Ø80	M33x2	45	236	40	55	80	25	198	G 3/8"	G 1/2"	95	108	165	Ø13x6	43	M95x2	40
Ø100	M42x2	55	255	55	70	95	25	226	G 1/2"	G 1/2"	115	127	190	Ø13x6	53	M115x2	50
Ø125	M48x2	70	280	55	75	105	30	256	G 1/2"	G 1/2"	145	165	220	Ø13x6	65	M145x2	60
Ø140	M56x2	80	288	60	80	110	30	295	G 1/2"	G 1/2"	160	185	245	Ø17x6	75	M160x2	70
Ø160	M64x3	90	303	70	90	125	35	315	G 1/2"	G 1/2"	180	205	265	Ø17x6	85	M180x2	80
Ø180	M72x3	100	313	80	100	140	40	345	G 1/2"	G 1"	210	235	295	Ø21x6	95	M210x3	90
Ø200	M80x3	110	335	95	125	165	40	365	G 1/2"	G 1"	230	255	315	Ø21x6	110	M230x3	105
Ø220	M105x3	120	375	120	165	215	50	395	G 3/4"	G 1"	270	305	340	Ø25x6	115	M270x3	110

NOTE: Dimensions are given mm.

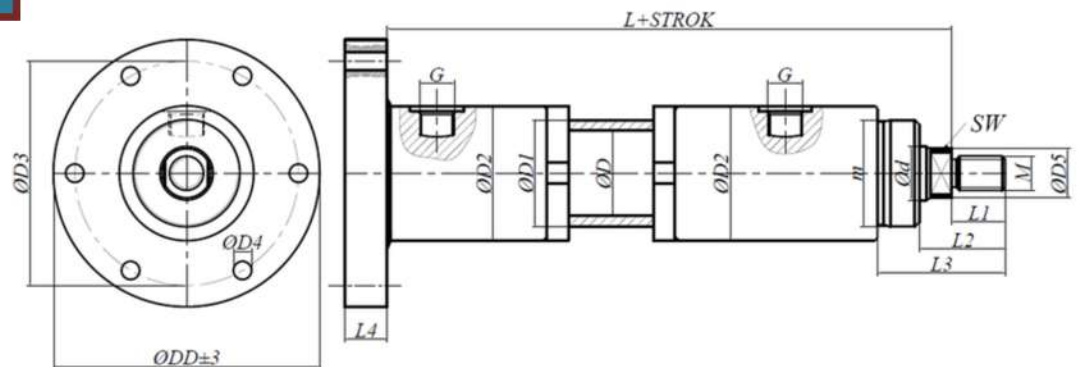
CHW-104 SERIES



$\varnothing D$	L	$\varnothing d$	L1	L2	L3	L4	L5	G1	G2	$\varnothing D1$	$\varnothing D2$	$\varnothing D3$ (JOINT USED)	SW
$\varnothing 40$	243	25	50	38	30	15	8	G 1/4"	G 1/4"	50	23	GE20ES	20
$\varnothing 50$	258	30	50	45	35	15	8	G 3/8"	G 3/8"	60	28	GE25ES	25
$\varnothing 63$	286	35	60	51	40	15	10	G 3/8"	G 3/8"	75	33	GE30ES	30
$\varnothing 80$	331	45	70	61	45	15	10	G 1/2"	G 1/2"	95	43	GE35ES	40
$\varnothing 100$	420	55	105	88	50	20	12	G 1/2"	G 1/2"	115	53	GE50ES	50
$\varnothing 125$	457	70	130	100	50	20	12	G 1/2"	G 1/2"	145	65	GE60ES	60
$\varnothing 140$	530	80	150	115	60	25	12	G 1/2"	G 1/2"	160	75	GE70ES	70
$\varnothing 160$	540	90	150	115	70	30	12	G 1/2"	G 1/2"	180	85	GE70ES	80
$\varnothing 180$	598	100	170	141	80	30	14	G 1/2"	G 1/2"	210	95	GE80ES	90
$\varnothing 200$	712	110	235	170	100	40	14	G 1/2"	G 1/2"	230	105	GE100ES	100

NOTE: Dimensions are given mm.

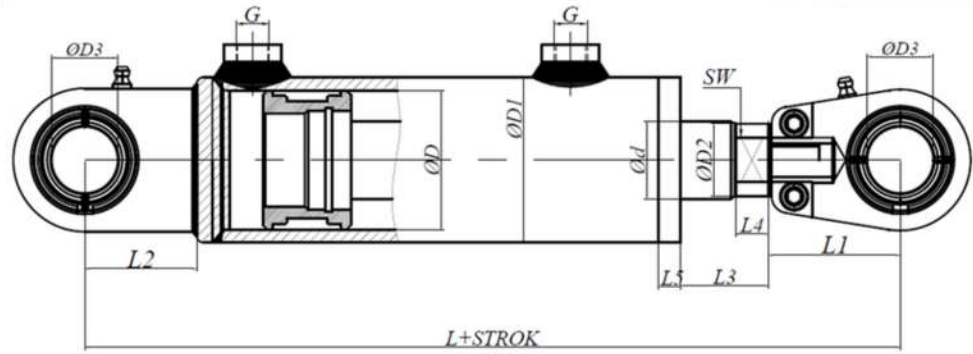
CHW-105 SERIES



$\varnothing D$	$\varnothing d$	L	L1	L2	L3	L4	G	DD	$\varnothing D1$	$\varnothing D2$	$\varnothing D3$	$\varnothing D4 \times (PCS)$	$\varnothing D5$	m	SW
$\varnothing 40$	25	165	25	40	60	20	G 3/8"	125	50	63	105	$\varnothing 8,5 \times 6$	GE20ES	M50x2	20
$\varnothing 50$	30	170	30	45	65	20	G 3/8"	155	60	73	125	$\varnothing 10,5 \times 6$	GE25ES	M60x2	25
$\varnothing 63$	35	177	35	50	70	20	G 3/8"	178	75	88	148	$\varnothing 10,5 \times 6$	GE30ES	M75x2	30
$\varnothing 80$	45	196	40	55	80	25	G 1/2"	198	95	108	165	$\varnothing 13 \times 6$	GE35ES	M95x2	40
$\varnothing 100$	55	210	55	70	95	25	G 1/2"	198	115	127	190	$\varnothing 13 \times 6$	GE50ES	M115x2	50
$\varnothing 125$	70	245	55	75	105	30	G 1/2"	226	145	165	220	$\varnothing 13 \times 6$	GE60ES	M145x2	60
$\varnothing 140$	80	253	60	80	110	30	G 1/2"	295	160	185	245	$\varnothing 17 \times 6$	GE70ES	M160x2	70

NOTE: Dimensions are given mm.

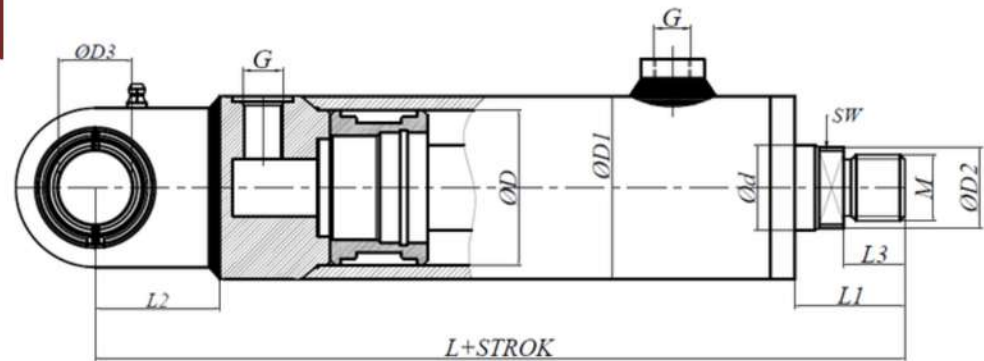
CHW-106 SERIES



ØD	L	Ød	L1	L2	L3	L4	L5	G	ØD1	ØD2	ØD3 (Joint Used)	SW
Ø40	228	25	50	38	30	15	8	G 1/4"	50	23	GE20ES	20
Ø50	243	30	50	45	35	15	8	G 3/8"	60	28	GE25ES	25
Ø63	271	35	60	51	40	15	10	G 3/8"	75	33	GE30ES	30
Ø80	321	45	70	61	45	15	10	G 1/2"	95	43	GE35ES	40
Ø100	415	55	105	88	50	20	12	G 1/2"	115	53	GE50ES	50
Ø125	452	70	130	100	50	20	12	G 1/2"	145	65	GE60ES	60
Ø140	525	80	150	115	60	25	12	G 1/2"	160	75	GE70ES	70
Ø160	535	90	150	115	70	30	12	G 1/2"	180	85	GE70ES	80
Ø180	613	100	170	141	80	30	14	G 3/4"	210	95	GE80ES	90
Ø200	739	110	235	170	100	40	14	G 3/4"	230	105	GE100ES	100

NOTE: Dimensions are given mm.

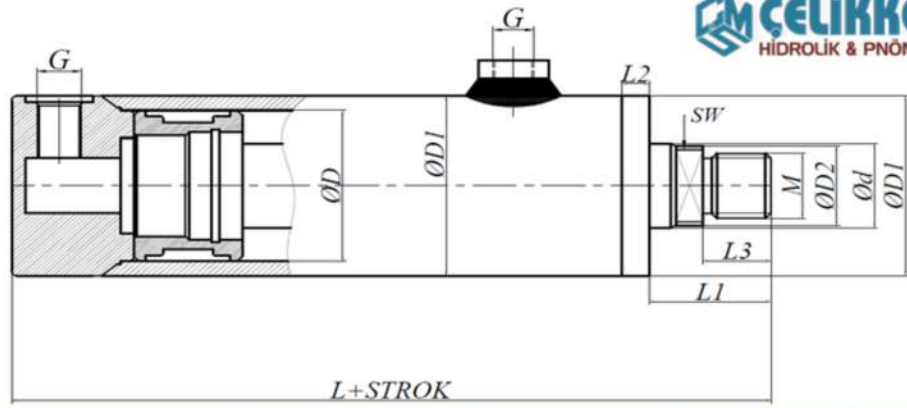
CHW-107 SERIES



ØD	M	L	Ød	L1	L2	L3	G	ØD1	ØD2	ØD3 (Joint Used)	SW
Ø40	M16x1,5	203	25	40	38	20	G 1/4"	50	23	GE20ES	20
Ø50	M20x1,5	213	30	40	45	20	G 3/8"	60	28	GE25ES	25
Ø63	M27x2	231	35	45	51	25	G 3/8"	75	33	GE30ES	30
Ø80	M33x2	266	45	50	61	30	G 1/2"	95	43	GE35ES	40
Ø100	M42x2	327	55	62	88	40	G 1/2"	115	53	GE50ES	50
Ø125	M48x2	355	70	70	100	45	G 1/2"	145	65	GE60ES	60
Ø140	M56x2	395	80	75	115	50	G 1/2"	160	75	GE70ES	70
Ø160	M64x3	427	90	80	115	60	G 1/2"	180	85	GE70ES	80
Ø180	M72x3	458	100	110	141	70	G 1/2"	210	95	GE80ES	90
Ø200	M80x3	509	110	120	170	80	G 1/2"	230	105	GE100ES	100

NOTE: Dimensions are given mm.

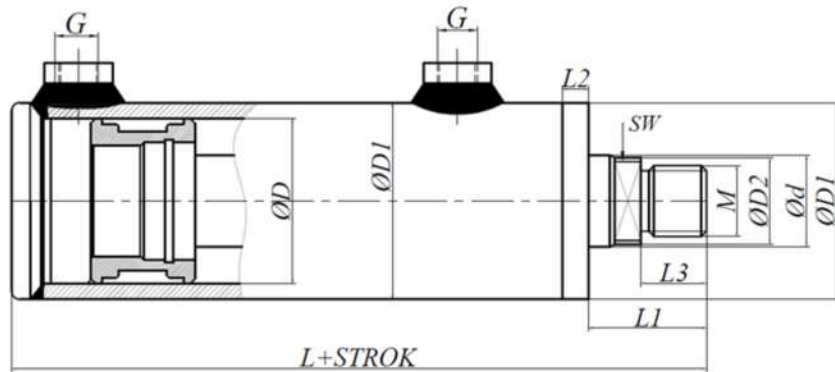
CHW-108 SERIES



ØD	M	L	Ød	L1	L2	L3	G	ØD1	ØD2	SW
Ø40	M16x1,5	165	25	40	8	20	G 1/4"	50	23	20
Ø50	M20x1,5	168	30	40	8	20	G 3/8"	60	28	25
Ø63	M27x2	180	35	45	10	25	G 3/8"	75	33	30
Ø80	M33x2	205	45	50	10	30	G 1/2"	95	43	40
Ø100	M42x2	239	55	62	12	40	G 1/2"	115	53	50
Ø125	M48x2	247	70	70	12	45	G 1/2"	145	65	60
Ø140	M56x2	280	80	75	12	50	G 1/2"	160	75	70
Ø160	M64x3	285	90	80	12	60	G 1/2"	180	85	80
Ø180	M72x3	317	100	110	14	70	G 1/2"	210	95	90
Ø200	M80x3	339	110	120	14	80	G 1/2"	230	105	100

NOTE: Dimensions are given mm.

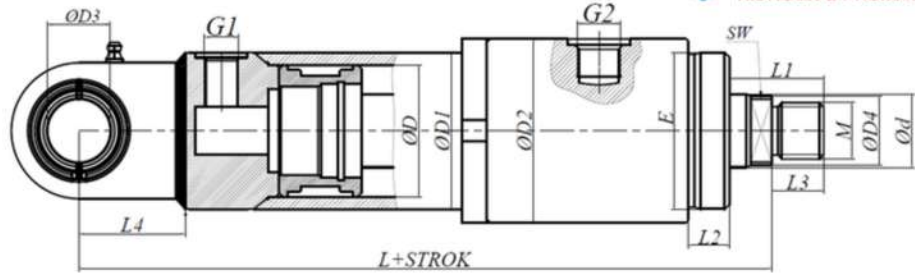
CHW-109 SERIES



ØD	M	L	Ød	L1	L2	L3	G	ØD1	ØD2	SW
Ø40	M16x1,5	150	25	40	8	20	G 1/4"	50	23	20
Ø50	M20x1,5	153	30	40	8	20	G 3/8"	60	28	25
Ø63	M27x2	165	35	45	10	25	G 3/8"	75	33	30
Ø80	M33x2	195	45	50	10	30	G 1/2"	95	43	40
Ø100	M42x2	234	55	62	12	40	G 1/2"	115	53	50
Ø125	M48x2	242	70	70	12	45	G 1/2"	145	65	60
Ø140	M56x2	275	80	75	12	50	G 1/2"	160	75	70
Ø160	M64x3	280	90	80	12	60	G 1/2"	180	85	80
Ø180	M72x3	332	100	110	14	70	G 3/4"	210	95	90
Ø200	M80x3	354	110	120	14	80	G 3/4"	230	105	100

NOTE: Dimensions are given mm.

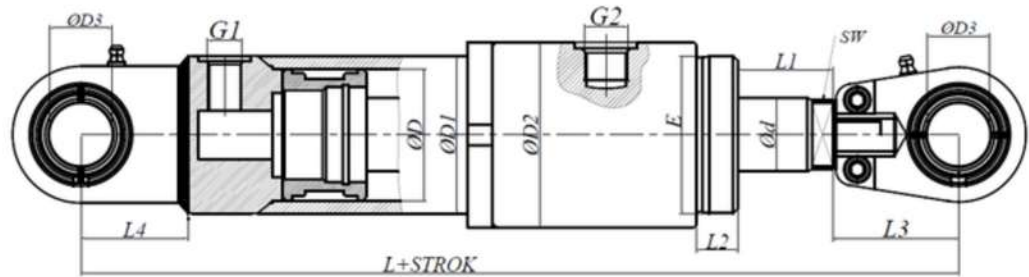
CHW-110 SERIES



ØD	M	L	Ød	L1	L2	L3	L4	E	G1	G2	ØD1	ØD2	ØD3 (JOINT USED)	ØD4	SW
Ø40	M16x1,5	218	25	40	20	20	38	M50x2	G 1/4"	G 3/8"	50	63	GE20ES	23	20
Ø50	M20x1,5	225	30	40	20	20	45	M60x2	G 3/8"	G 3/8"	60	73	GE25ES	28	25
Ø63	M27x2	233	35	45	20	25	51	M75x2	G 3/8"	G 1/2"	75	88	GE30ES	33	30
Ø80	M33x2	257	45	50	25	30	61	M95x2	G 1/2"	G 1/2"	95	108	GE35ES	43	40
Ø100	M42x2	300	55	62	25	40	88	M115x2	G 1/2"	G 1/2"	115	127	GE50ES	53	50
Ø125	M48x2	325	70	70	30	45	100	M145x2	G 1/2"	G 3/4"	145	165	GE60ES	65	60
Ø140	M56x2	348	80	75	30	50	115	M160x2	G 1/2"	G 3/4"	160	185	GE70ES	75	70
Ø160	M64x3	348	90	80	35	60	115	M180x2	G 1/2"	G 3/4"	180	205	GE70ES	85	80
Ø180	M72x3	399	100	110	40	70	141	M210x3	G 1/2"	G 1"	210	235	GE80ES	95	90
Ø200	M80x3	440	110	120	40	80	170	M230x3	G 1/2"	G 1"	230	255	GE100ES	105	100

NOTE: Dimensions are given mm.

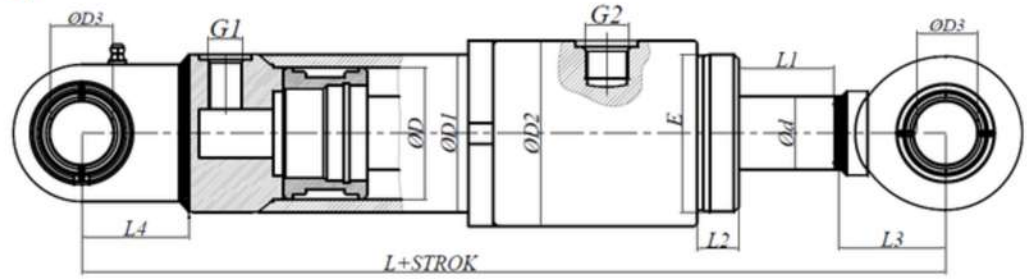
CHW-111 SERIES



ØD	L	Ød	L1	L2	L3	L4	E	G1	G2	ØD1	ØD2	ØD3 (JOINT USED)	SW
Ø40	288	25	40	20	50	38	M50x2	G 1/4"	G 3/8"	50	63	GE20ES	20
Ø50	295	30	40	20	50	45	M60x2	G 3/8"	G 3/8"	60	73	GE25ES	25
Ø63	318	35	45	20	60	51	M75x2	G 3/8"	G 1/2"	75	88	GE30ES	30
Ø80	357	45	50	25	70	61	M95x2	G 1/2"	G 1/2"	95	108	GE35ES	40
Ø100	445	55	62	25	105	88	M115x2	G 1/2"	G 1/2"	115	127	GE50ES	50
Ø125	500	70	70	30	130	100	M145x2	G 1/2"	G 3/4"	145	165	GE60ES	60
Ø140	548	80	75	30	150	115	M160x2	G 1/2"	G 3/4"	160	185	GE70ES	70
Ø160	558	90	80	35	150	115	M180x2	G 1/2"	G 3/4"	180	205	GE70ES	80
Ø180	639	100	110	40	170	141	M210x3	G 1/2"	G 1"	210	235	GE80ES	90
Ø200	755	110	120	40	235	170	M230x3	G 1/2"	G 1"	230	255	GE100ES	100

NOTE: Dimensions are given mm.

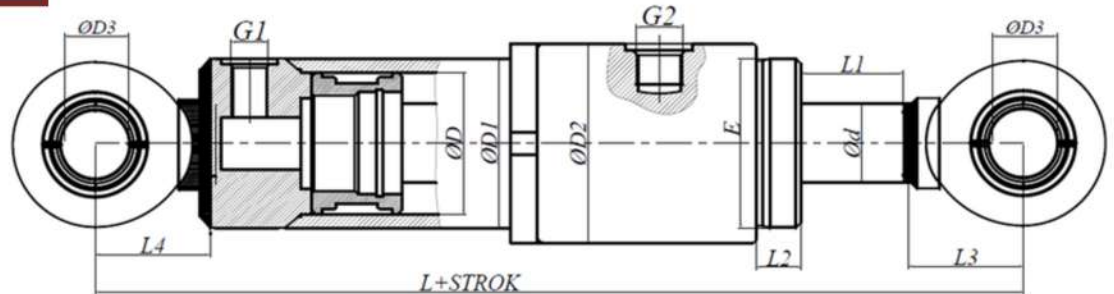
CHW-112 SERIES



ØD	L	Ød	L1	L2	L3	L4	E	G1	G2	ØD1	ØD2	ØD3 (JOINT USED)
Ø40	276	25	40	20	38	38	M50x2	G 1/4"	G 3/8"	50	63	GE20ES
Ø50	290	30	40	20	45	45	M60x2	G 3/8"	G 3/8"	60	73	GE25ES
Ø63	309	35	45	20	51	51	M75x2	G 3/8"	G 1/2"	75	88	GE30ES
Ø80	348	45	50	25	61	61	M95x2	G 1/2"	G 1/2"	95	108	GE35ES
Ø100	428	55	62	25	88	88	M115x2	G 1/2"	G 1/2"	115	127	GE50ES
Ø125	470	70	70	30	100	100	M145x2	G 1/2"	G 3/4"	145	165	GE60ES
Ø140	513	80	75	30	115	115	M160x2	G 1/2"	G 3/4"	160	185	GE70ES
Ø160	523	90	80	35	115	115	M180x2	G 1/2"	G 3/4"	180	205	GE70ES
Ø180	610	100	110	40	141	141	M210x3	G 1/2"	G 1"	210	235	GE80ES
Ø200	661	110	120	40	141	141	M230x3	G 1/2"	G 1"	230	255	GE80ES

NOTE: Dimensions are given mm.

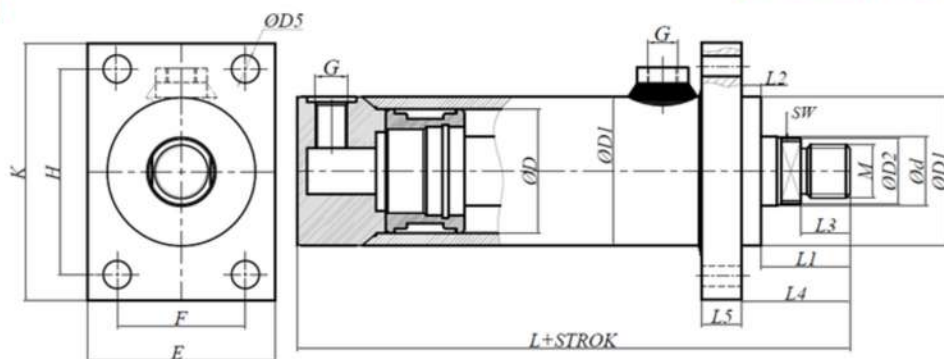
CHW-113 SERIES



ØD	L	Ød	L1	L2	L3	L4	E	G1	G2	ØD1	ØD2	ØD3 (JOINT USED)
Ø40	276	25	40	20	38	38	M50x2	G 1/4"	G 3/8"	50	63	GE20ES
Ø50	290	30	40	20	45	45	M60x2	G 3/8"	G 3/8"	60	73	GE25ES
Ø63	309	35	45	20	51	51	M75x2	G 3/8"	G 1/2"	75	88	GE30ES
Ø80	348	45	50	25	61	61	M95x2	G 1/2"	G 1/2"	95	108	GE35ES
Ø100	428	55	62	25	88	88	M115x2	G 1/2"	G 1/2"	115	127	GE50ES
Ø125	470	70	70	30	100	100	M145x2	G 1/2"	G 3/4"	145	165	GE60ES
Ø140	513	80	75	30	115	115	M160x2	G 1/2"	G 3/4"	160	185	GE70ES
Ø160	523	90	80	35	115	115	M180x2	G 1/2"	G 3/4"	180	205	GE70ES
Ø180	610	100	110	40	141	141	M210x3	G 1/2"	G 1"	210	235	GE80ES
Ø200	661	110	120	40	141	141	M230x3	G 1/2"	G 1"	230	255	GE80ES

NOTE: Dimensions are given mm.

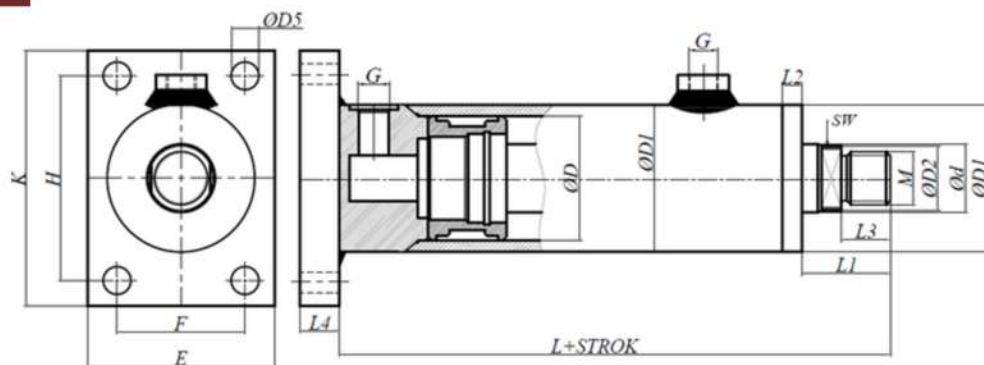
CHW-114 SERIES



ØD	M	L	Ød	L1	L2	L3	L4	L5	G	ØD1	ØD2	K	H	E	F	ØD5 x4 PCS	SW
Ø40	M16x1,5	165	25	40	8	20	48	18	G 1/4"	50	23	115	91	80	54	Ø8,5	20
Ø50	M20x1,5	168	30	40	8	20	48	20	G 3/8"	60	28	132	105	92	63	Ø10,5	25
Ø63	M27x2	180	35	45	10	25	55	20	G 3/8"	75	33	135	115	95	65	Ø13,5	30
Ø80	M33x2	205	45	50	10	30	60	25	G 1/2"	95	43	160	130	115	78	Ø13,5	40
Ø100	M42x2	239	55	62	12	40	74	25	G 1/2"	115	53	190	155	138	96	Ø17,5	50
Ø125	M48x2	247	70	70	12	45	82	30	G 1/2"	145	65	240	195	168	115	Ø22	60
Ø140	M56x2	280	80	75	12	50	87	30	G 1/2"	160	75	265	214	185	128	Ø22	70
Ø160	M64x3	285	90	80	12	60	92	30	G 1/2"	180	85	310	250	220	155	Ø26	80
Ø180	M72x3	317	100	110	14	70	124	40	G 1/2"	210	95	350	285	250	175	Ø30	90
Ø200	M80x3	339	110	120	14	80	134	40	G 1/2"	230	105	395	320	285	200	Ø33	100

NOTE: Dimensions are given mm.

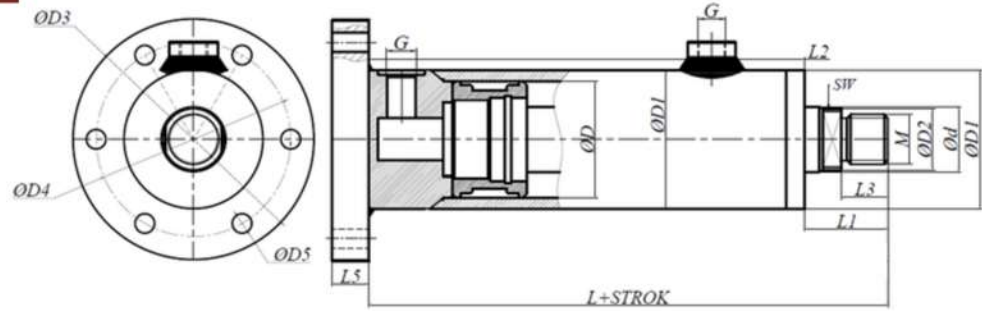
CHW-115 SERIES



ØD	M	L	Ød	L1	L2	L3	L4	G	ØD1	ØD2	K	H	E	F	ØD5 x4 PCS	SW
Ø40	M16x1,5	165	25	40	8	20	18	G 1/4"	50	23	115	91	80	54	Ø8,5	20
Ø50	M20x1,5	168	30	40	8	20	20	G 3/8"	60	28	132	105	92	63	Ø10,5	25
Ø63	M27x2	180	35	45	10	25	20	G 3/8"	75	33	135	115	95	65	Ø13,5	30
Ø80	M33x2	205	45	50	10	30	25	G 1/2"	95	43	160	130	115	78	Ø13,5	40
Ø100	M42x2	239	55	62	12	40	25	G 1/2"	115	53	190	155	138	96	Ø17,5	50
Ø125	M48x2	247	70	70	12	45	30	G 1/2"	145	65	240	195	168	115	Ø22	60
Ø140	M56x2	280	80	75	12	50	30	G 1/2"	160	75	265	214	185	128	Ø22	70
Ø160	M64x3	285	90	80	12	60	30	G 1/2"	180	85	310	250	220	155	Ø26	80
Ø180	M72x3	317	100	110	14	70	40	G 1/2"	210	95	350	285	250	175	Ø30	90
Ø200	M80x3	339	110	120	14	80	40	G 1/2"	230	105	395	320	285	200	Ø33	100

NOTE: Dimensions are given mm.

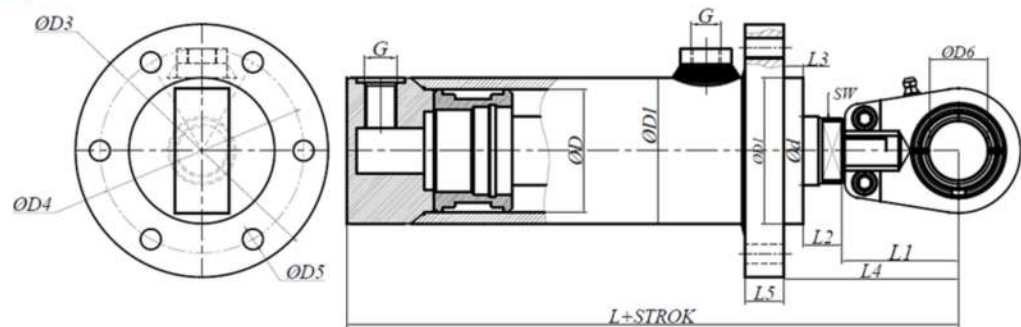
CHW-116 SERIES



ØD	M	L	Ød	L1	L2	L3	L5	G	ØD1	ØD2	ØD3	ØD4	ØD5	SW
Ø40	M16x1,5	165	25	40	8	20	15	G 1/4"	50	23	98	85	Ø8,5x6 pcs	20
Ø50	M20x1,5	168	30	40	8	20	20	G 3/8"	60	28	118	95	Ø10,5x6 pcs	25
Ø63	M27x2	180	35	45	10	25	20	G 3/8"	75	33	128	105	Ø10,5x6 pcs	30
Ø80	M33x2	205	45	50	10	30	25	G 1/2"	95	43	148	120	Ø13x6 pcs	40
Ø100	M42x2	239	55	62	12	40	25	G 1/2"	115	53	168	140	Ø13x6 pcs	50
Ø125	M48x2	247	70	70	12	45	30	G 1/2"	145	65	198	170	Ø13x6 pcs	60
Ø140	M56x2	280	80	75	12	50	30	G 1/2"	160	75	208	185	Ø17x6 pcs	70
Ø160	M64x3	285	90	80	12	60	30	G 1/2"	180	85	245	210	Ø17x6 pcs	80
Ø180	M72x3	317	100	110	14	70	40	G 1/2"	210	95	300	255	Ø21x6 pcs	90
Ø200	M80x3	339	110	120	14	80	40	G 1/2"	230	105	320	285	Ø21x6 pcs	100

NOTE: Dimensions are given mm.

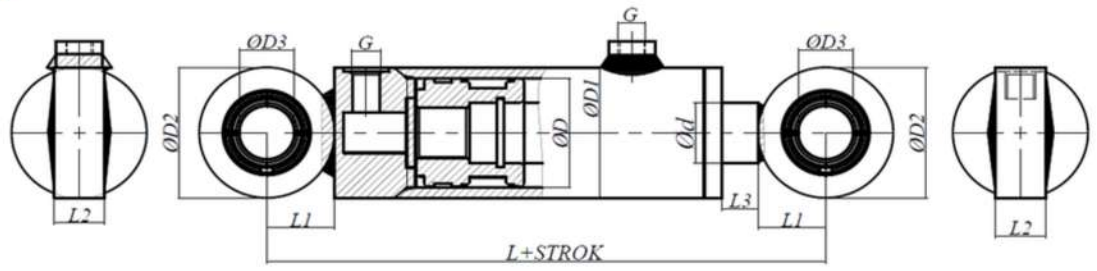
CHW-117 SERIES



ØD	L	Ød	L1	L2	L3	L4	L5	G	ØD1	ØD3	ØD4	ØD5	ØD6 (JOINT USED)	SW
Ø40	215	25	50	40	8	98	15	G 1/4"	50	98	85	Ø8,5x6 pcs	GE20ES	20
Ø50	218	30	50	40	8	98	20	G 3/8"	60	118	95	Ø10,5x6 pcs	GE25ES	25
Ø63	240	35	60	45	10	115	20	G 3/8"	75	128	105	Ø10,5x6 pcs	GE30ES	30
Ø80	275	45	70	50	10	130	25	G 1/2"	95	148	120	Ø13x6 pcs	GE35ES	40
Ø100	344	55	105	62	12	179	25	G 1/2"	115	168	140	Ø13x6 pcs	GE50ES	50
Ø125	377	70	130	70	12	212	30	G 1/2"	145	198	170	Ø13x6 pcs	GE60ES	60
Ø140	430	80	150	75	12	237	30	G 1/2"	160	208	185	Ø17x6 pcs	GE70ES	70
Ø160	435	90	150	80	12	242	30	G 1/2"	180	245	210	Ø17x6 pcs	GE70ES	80
Ø180	487	100	170	110	14	294	40	G 1/2"	210	300	255	Ø21x6 pcs	GE80ES	90
Ø200	574	110	235	120	14	369	40	G 1/2"	230	320	285	Ø21x6 pcs	GE100ES	100

NOTE: Dimensions are given mm.

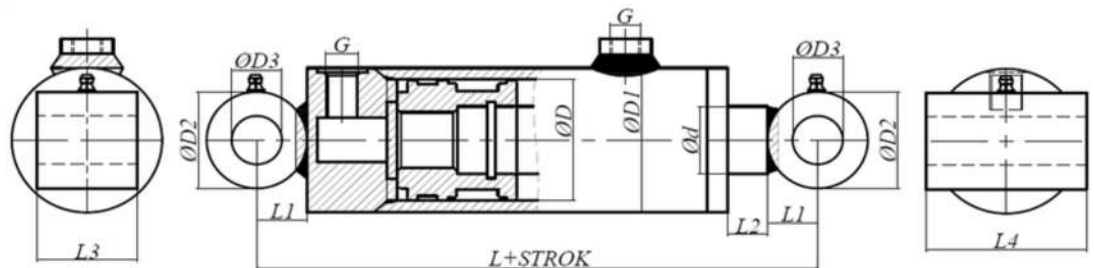
CHW-118 SERIES



ØD	Ød	L	L1	L2	L3	G	ØD1	ØD2	ØD3
40	25	212	26	22	15	1/4"	50	52	GE20ES
50	30	225	31	24	15	3/8"	60	62	GE25ES
63	36	250	37,5	28	20	3/8"	75	75	GE30ES
70	40	270	42,5	30	20	3/8"	85	85	GE35ES
80	45	288	44	44	25	3/8"	95	92	GE35ES
90	50	305	52,5	48	25	3/8"	105	105	GE45ES
100	55	342	57,5	50	30	1/2"	115	115	GE50ES
125	70	372	72,5	58	30	1/2"	145	145	GE60ES
140	80	422	80	68	35	1/2"	160	160	GE70ES
160	90	442	90	74	35	1/2"	180	180	GE70ES
180	100	499	105	78	40	3/4"	210	210	GE80ES
200	110	544	115	88	45	1"	230	230	GE100ES
220	110	580	125	104	45	1"	250	250	GE100ES
250	120	660	150	118	50	1"	300	300	GE120ES

NOTE: Dimensions are given mm.

CHW-119 SERIES



ØD	Ød	L	L1	L2	L3	L4	ØD1	ØD2	ØD3
32	20	170	17,5	15	30	50	40	35	16
40	25	200	20	15	30	60	50	40	20
50	30	208	20	20	40	70	60	40	20
63	35	225	25	20	50	80	75	50	25
70	40	240	27,5	20	55	85	85	55	30
80	45	260	30	25	60	110	95	60	30
90	50	265	32,5	25	65	120	105	65	35
100	55	297	35	30	70	130	115	70	40
125	60	312	42,5	30	80	160	145	85	50
140	80	352	45	35	90	195	160	90	50
160	90	382	50	35	100	200	180	100	60

NOTE: Dimensions are given mm.



CHB Series is a hydraulic cylinder platform with compact block body structure designed to provide high power density in tight spaces. Monoblock offers maximum resistance in minimum space thanks to its robust body design, with superior resistance to deformation under high pressure.

CHB Series with advanced sealing technology and precision machined structure; provides long-lasting performance in tough, mass manufacturing conditions of moulding and automation systems. The cubic body provides the advantage of direct and versatile mounting in restricted areas.

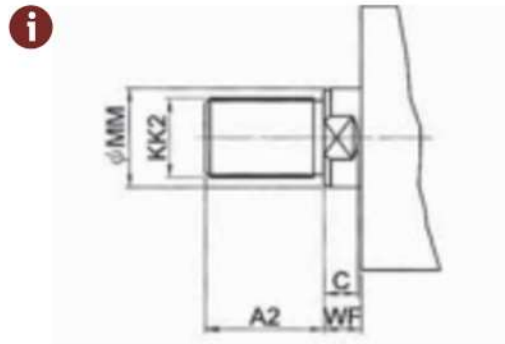
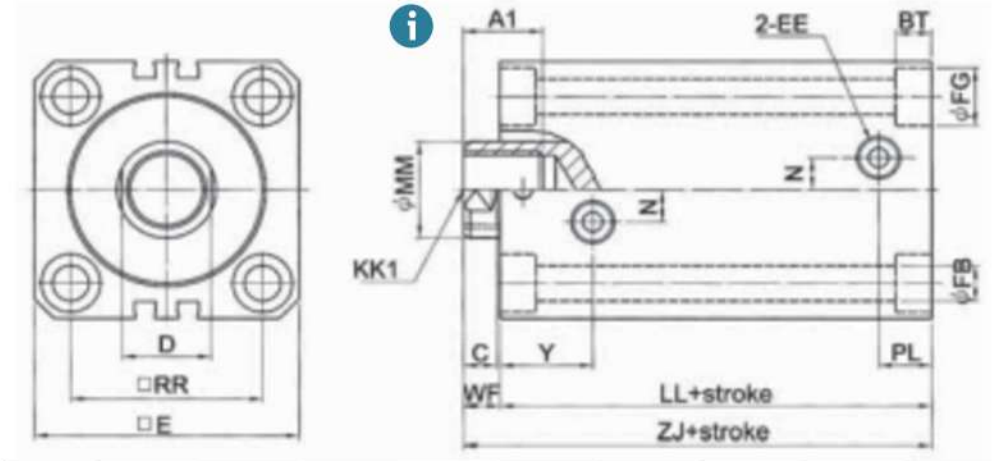
Advantages:

- High Power Density: High tonnage and pressure capacity in restricted spaces
- Rigid Monoblock Body: High precision achieved through a deformation-resistant structure
- Easy & Versatile Mounting: Direct connection across multiple axes thanks to the cubic body design
- Mass Production Compliance: Minimal wear even under rapid and high-cycle operating conditions
- Long Service Life: Consistent sealing and performance even in harsh industrial environments.

Fields of Usage:

- Plastic and metal injection molds (core puller and ejector systems)
- Sheet metal forming and cutting dies
- Automation lines, welding and clamping fixtures
- Compact presses and custom machinery requiring short strokes and high force

TECHNICAL PARAMETER	STANDARD MANUFACTURING DIMENSIONS	OUR TECHNOLOGICAL UPPER LIMIT
OPERATING PRESSURE	10BAR/400BAR	450 BAR FOR SPECIAL APPLICATIONS
FLUID TYPE	MINERAL OILS	MINERAL OILS
SEALING ELEMENTS	NBR+PU+FKM	LOW FRICTION (TEFLON)/ BRONZE ALLOY COMBINATIONS
PISTON ROD	CK45 Chrome Plated (f7 Tolerance)	Induction-Hardened/ Corrosion-Resistant Nickel-Chromium Plating
MAX. PISTON SPEED	0.5 M/s	1.5 M/s and Over High Speed Seals
OPERATING TEMPERATURE	Min.-20°/Max.+80°(+200° SPECIAL FKM/VITON)	Min.-40°/Max+200°
VISCOSITY	5 cSt-300 cSt	5 cSt-400 cSt
CYLINDER TUBE	ST52 BK+S/E355 HONED	Special Alloy High Pressure



TUBE	BT	C	D	E	EE	FB	FG	LL	LL1	MM	N	PL	RR	WF	Y	ZJ	ZJ1
32	6,5	9	17	62	G 1/4"	7	11	73	84	20	10	17	47	10	27	83	94
40	8,6	9	21	70	G 1/4"	9	14	70	81	25	10	16	52	10	27	80	91
50	10,8	9	27	80	G 1/4"	11	17,5	75	87	30	10	16	58	11	28	86	98
63	13	11	32	94	G 1/4"	14	20	84	94	35	10	18	69	13	30	97	107
80	15,2	14	37	114	G 3/8"	16	23	95	106	40	15	22	86	17	35	112	123
100	17,5	14	50	134	G 3/8"	18	26	100	114	56	15	25	102	17	39	117	131

NOTE: Dimensions are given mm.

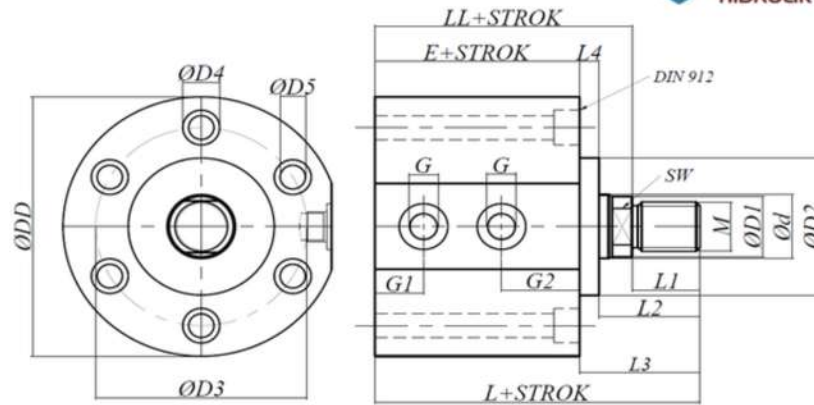
i FOR EXTERNAL
THREAD:

A2	KK2
25	M16x1,5
30	M20x1,5
35	M24x1,5
45	M30x1,5
55	M36x1,5
70	M48x1,5

i FOR INTERNAL
THREAD:

A1	KK1
15	M12x1,75
20	M16x2
24	M20x2,5
33	M27x3
33	M30x3,5
40	M36x4

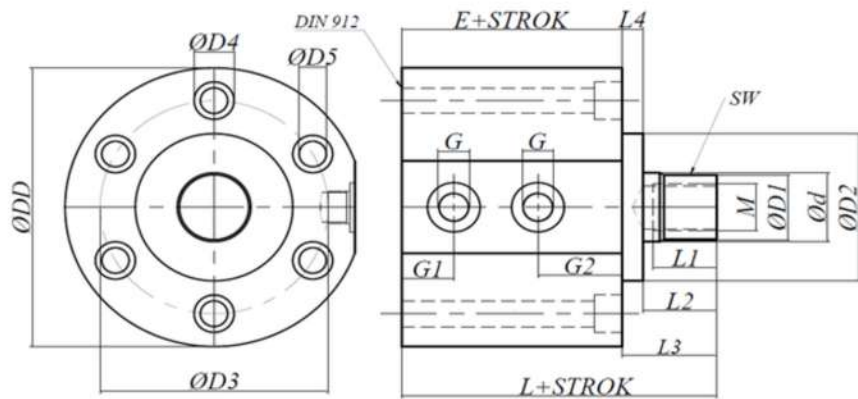
CHB-101M-SERIES



BORE Ø	Ød	L	LL	E	M	G	G1	G2	L1	L2	L3	L4	ØDD	ØD1	ØD2	ØD3	ØD4	ØD5	SW
32	20	125	105	82	M14x2	1/4"	20	32	20	35	43	8	82	18	40	62	14	9	16
40	25	147	122	97	M16x2	1/4"	25	32	25	42	50	8	92	23	50	72	14	9	18
50	30	153	123	100	M20x1,5	1/4"	25	35	30	45	53	8	108	28	60	84	17	11	24
63	35	167	132	105	M27x2	3/8"	25	40	35	52	62	10	142	33	75	108	19	13	30
80	45	197	157	130	M36x2	1/2"	30	50	40	57	67	10	168	43	95	131	22	15	38
100	56	242	192	155	M48x2	1/2"	35	70	50	75	87	12	208	54	115	156	25	17	50

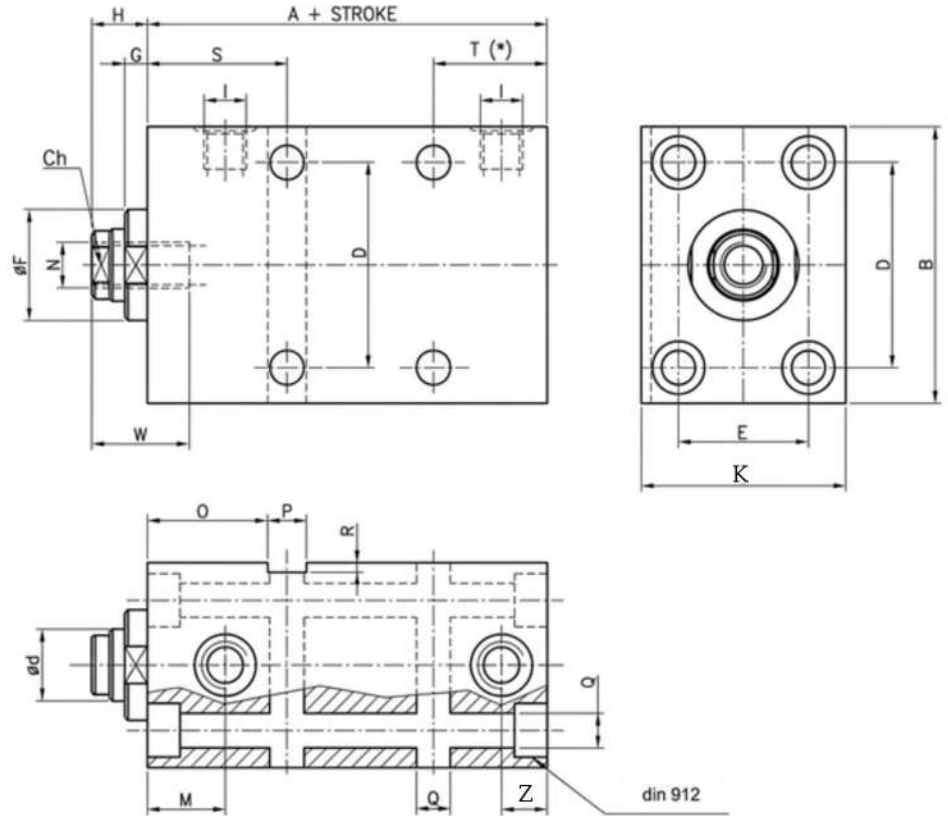
NOTE: Dimensions are given mm.

CHB-101F-SERIES



BORE Ø	Ød	L	E	M	G	G1	G2	L1	L2	L3	L4	ØDD	ØD1	ØD2	ØD3	ØD4	ØD5	SW
32	20	105	82	M12x1,5	1/4"	20	32	25	15	23	8	82	18	40	62	14	9	16
40	25	120	97	M16x2	1/4"	25	32	35	15	23	8	92	23	50	72	14	9	18
50	30	128	100	M16x2	1/4"	25	35	35	20	28	8	108	28	60	84	17	11	24
63	35	145	105	M20x1,5	3/8"	25	40	40	30	40	10	142	33	75	108	19	13	30
80	45	175	130	M27x2	1/2"	30	50	55	35	45	10	168	43	95	131	22	15	38
100	56	207	155	M36x4	1/2"	35	70	60	40	52	12	208	54	115	156	25	17	50

NOTE: Dimensions are given mm.



BORE Ø	d	L	B	K	SW	D	E	F	G	H	I	Z	M	N
32	22	60	75	55	18	55	35	34	8	15	G 1/4"	13	22	M12
40	22	73	85	63	18	63	40	34	7	17	G 1/4"	16	24	M14
50	28	75	100	75	24	76	45	42	8	20	G 1/4"	17	25	M20
63	28	85	115	90	24	90	55	50	7	20	G 3/8"	21	29	M20
80	36	100	140	110	32	110	75	60	7	20	G 1/2"	25	35	M27
100	45	110	170	140	40	135	95	72	8	25	G 1/2"	28	37	M33

BORE Ø	O	P	Q	R	S	T	W
32	34	12	10,5	3	40	30	7
40	37	12	10,5	3	43	35	9
50	37,5	15	13	5	45	35	11
63	47,5	15	13	5	55	40	14
80	50	20	17	5	60	50	16
100	60	20	17	5	70	60	18

NOTE: Dimensions are given mm.



Top Link Cylinders is a heavy-duty platform that optimizes the connection between the tractor and the equipment in modern agricultural mechanisation. Thanks to its integrated dual pilot-operated check valve (double lock valve), it prevents pressure drops and ensures maximum driving safety during the transport and operation of heavy implements.

With its high-strength forged eye construction, corrosion-resistant chrome-plated rod, and heavy-duty seals, it delivers precise positioning under harsh terrain conditions, allowing effortless adjustment of the implement angle directly from inside the cab.

Advantages:

Maximum Safety: Prevents hydraulic leak and unexpected equipment drops via integrated lock valves

High Dynamic Strength: Welded and forged construction resistant to harsh terrain conditions and sudden shock loads

Corrosion Resistance: Specially coated rod and cylinder body optimized for outdoor and muddy environments

Precision Angle Control: Allows effortless adjustment of implement parallelism and depth directly from inside the cab

Long Service Life: Consistent sealing performance even under agricultural dust, moisture, and heavy loads

Fields of Usage:

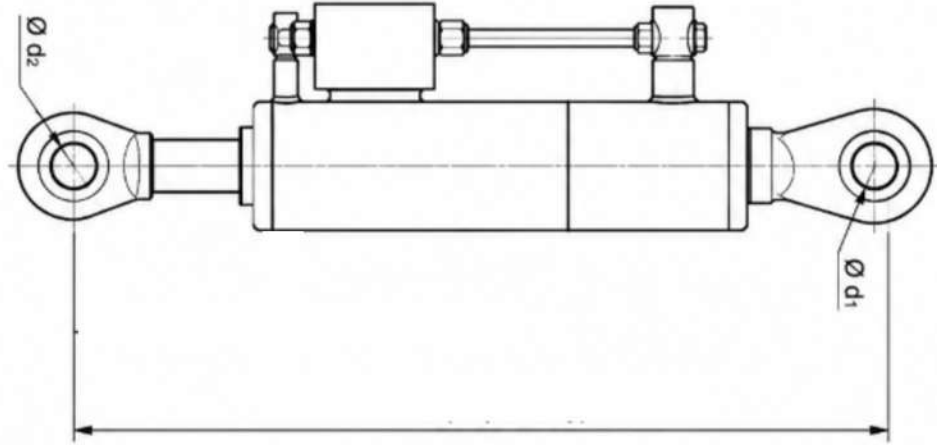
Tractor three-point hitch systems (Category 1, 2, and 3)

Soil tillage implements such as plows, cultivators, and subsoilers

Seedbed preparation and seeding machinery

Rear components used in agricultural loading, leveling, and transport

TECHNICAL PARAMETER	STANDARD MANUFACTURING DIMENSIONS	OUR TECHNOLOGICAL UPPER LIMIT
OPERATING PRESSURE	180BAR/210BAR	250BAR
FLUID TYPE	MINERAL OILS	MINERAL OILS
SEALING ELEMENTS	NBR+PU	FKM(VITON)
PISTON ROD	CK45 CHROME PLATED (f7 Tolerance)	Induction-Hardened/ Corrosion-Resistant Nickel Chromium Plating
MAX. PISTON SPEED	0.1 m/s-0.3 m/s	0.5 m/s
OPERATING TEMPERATURE	Min.-20°/Max.+80°)	-30°/+110°
VISCOSITY	10 cSt-300 cSt	5 cSt-400 cSt
CYLINDER TUBE	ST52 BK+S/E355 HONED	Special Alloy High Pressure



CLOSED LENGTH (CM)	CAPACITY (TON)	PIN DIAMETER	TUBE DIAMETER	ROD DIAMETER
50	5	26*26/GG	60-70	40
55	5	26*26/GG	60-70	40
60	5	26*26/GG	60-70	40
65	5	26*26/GG	60-70	40
68	5	26*26/GG	60-70	40
70	5	26*26/GG	60-70	40
50	5	19*26/DG	60-70	40
55	5	19*26/DG	60-70	40
60	5	19*26/DG	60-70	40
65	5	19*26/DG	60-70	40
68	5	19*26/DG	60-70	40
70	5	19*26/DG	60-70	40

CUSTOM-ENGINEERED TELESCOPIC CYLINDERS



✓ 2 to 5 Stage Options

✓ Single-acting /Double-acting
Options

Telescopic hydraulic cylinders manufactured by Çelikkol Hidrolik are designed to provide high performance and reliable operation in applications where long stroke is required. While offering the advantage of assembly thanks to its compact closed length, it reaches the maximum elongation capacity with its multi-stage structure. Our telescopic cylinders, widely utilised in construction machinery, tipper systems, agricultural equipment, lifting platforms, and specialised industrial applications, are manufactured using high-strength materials, precision machining technologies, and premium sealing elements. They can be custom-engineered in single- or double-acting options, offering a variety of stage counts and fitting types to perfectly match specific customer needs.

CUSTOM-ENGINEERED DOUBLE ROD CYLINDERS



✓ Customized Stroke Options

✓ Custom Mounting Options

Double rod hydraulic cylinders are specially designed for applications requiring equal force and high precision in both directions. Thanks to its symmetrical structure, it offers stable operating performance and helps to balance side loads. This ensures reliability, especially in industrial systems where precise motion control is critical. Our double rod cylinders, which offer durable body structure and long-lasting use with high quality sealing elements, can be specially produced according to customer needs with different diameter and stroke options. It is an ideal choice for solutions seeking high performance and stability in heavy industry, automation systems and special machine applications.

CUSTOM-ENGINEERED COMPACT BLOCK CYLINDERS



Customized Stroke Options



Customized Cylinder Body Options

Compact block cylinders are specialised hydraulic solutions featuring a reinforced body design, engineered to provide high force output in confined installation spaces. It provides reliable power transmission in industrial applications by delivering stable performance under high pressure.

Thanks to the monoblock body design, maximum productivity is achieved while occupying minimum space. Manufactured for heavy-duty operating conditions, these cylinders offer low maintenance requirements thanks to their long-lasting sealing elements and precision-machined surfaces. Press systems, special machine applications, automation lines and compact solutions requiring high force.

CUSTOM-ENGINEERED WATER COOLED CYLINDERS



Customized Stroke Options



Heat Resistant Sealing System

Water-cooled hydraulic cylinders are specifically developed to ensure dependable operation under high-temperature conditions in heavy industrial sectors such as iron and steel, casting, glass, ceramics, and hot press systems. Thanks to the cooling channels integrated into the cylinder body, heat generated during operation is effectively dissipated, extending the service life of seals, bearings, and other critical components.

This special design, which prevents performance loss under high temperature conditions, reduces the need for maintenance while improving system efficiency. Water-cooled cylinders manufactured by Çelikkol Hidrolik; operating pressure, stroke, fitting type, material selection and cooling capacity can be manufactured in accordance with customer demands.

CUSTOM-ENGINEERED CYLINDERS WITH MAGNETIC PISTON



✓ Stainless Steel Body Options

✓ Customized Cylinder Body Options

The magnetic cylinders manufactured by Çelikkol Hidrolik are special engineering solutions that provide precise position detection and reliable process control thanks to the high-performance magnetic system integrated into the piston. Designed to be fully compatible with contactless sensor technologies, these cylinders offer high productivity, operational reliability and a long service life in automation applications.

It provides optimum performance to industrial systems by producing different diameter, stroke, fitting and assembly options according to operating conditions and customer needs. Combining quality, durability, and engineering excellence, our magnetic cylinders are developed to meet the demanding requirements of modern manufacturing processes.

CUSTOM-ENGINEERED LINEAR CYLINDERS



✓ Customized Stroke Options

✓ Custom Fitting Options

The linear cylinders developed by Çelikkol Hidrolik are manufactured with high precision for applications where motion and position control are critical. Thanks to the integrated position dimension system, piston movement can be monitored instantaneously, enabling safer, controlled and productivity management of processes. Preferred in automation systems, industrial production lines, construction machinery, and custom engineering projects, our linear cylinders can be custom-designed with application-specific dimensions, stroke options, and mounting types. With our strong engineering infrastructure and quality-oriented manufacturing understanding, we offer long-lasting performance and maximum operational reliability.

CUSTOM-ENGINEERED AGRICULTURAL CYLINDERS



✓ Customized Stroke Options

✓ Custom Fitting Options

The agricultural type hydraulic cylinders developed by Çelikkol Hidrolik are designed to provide the high performance and durability requirements of modern agricultural equipment. Our products provide reliable operation in difficult terrain and climatic conditions; it offers long-lasting use with its robust construction, high-quality material selection and precise production processes. Custom-built according to customer specifications, our agricultural cylinders provide dependable solutions designed to maximize productivity in numerous agricultural applications, primarily tractor equipment, trailers, planting, and soil cultivation machinery. Çelikkol Hidrolik continues to add value to the agricultural sector by combining quality, durability and engineering power.

CUSTOM-ENGINEERED CONSTRUCTION MACHINERY CYLINDERS



✓ Customized Diameter & Stroke Options

✓ Custom Fitting Options

Our construction machinery cylinders, which are specially produced for heavy duty conditions, are designed with the principle of high strength and long life. Thanks to quality material and precision machining technology; in machines such as excavators, loaders and dozers, it offers maximum performance even in the most demanding environments.

Our cylinders, which stand out with high pressure resistance, superior sealing and low maintenance requirements, are manufactured with the measurement and technical specifications in accordance with different application requirements.

CUSTOM-ENGINEERED PNEUMATIC CYLINDERS



Customized Diameter & Stroke Options



Custom Fitting Options

As Çelikkol Hidrolik, we offer high performance solutions to different industrial needs with our special pneumatic cylinder designs that go beyond standard solutions. Developed in line with customer demands, our cylinders are custom-designed and manufactured with an engineering-driven approach, tailored to specific application areas, operating conditions, and technical requirements.

Engineered for high precision, long service life, and low maintenance, our pneumatic cylinders deliver reliable and productivity performance across automation lines, manufacturing facilities, and custom machinery applications. Material selection, stroke length, mounting types, and sealing systems are fully optimized on a project-specific basis.

CUSTOM-ENGINEERED STAINLESS CYLINDERS



Customized Diameter & Stroke Options



Double-acting & Single-acting Options

Engineered specifically for challenging operating conditions, our stainless cylinders ensure superior corrosion resistance and an extended service life. Thanks to its stainless steel body structure, it provides superior resistance to moisture, chemical interaction and outdoor conditions. Our cylinders are manufactured with precision manufacturing technologies; food, chemical, pharmaceutical and marine industries that require hygiene and durability are used safely.

Our stainless cylinders, which are offered with customer-required dimension and assembly options, add value to your systems with low maintenance needs and high productivity.

CYLINDERS WITH CUSTOM MOUNTING ELEMENTS



Customized Diameter & Stroke Options



Custom Fitting Options

Our Cylinders with Custom Mounting Elements are meticulously designed with our superior engineering expertise in order to provide a complete response to the specific requirements of different sectors and industrial applications. In challenging operating conditions where standard solutions are insufficient, it provides perfect integration and full compliance to your systems thanks to innovative connection solutions we have developed specifically for the project.

Our products come to life with our advanced manufacturing technologies and high quality material choices; they offer high durability, uninterrupted reliability and maximum performance even in the most challenging operating conditions. Designed on the basis of long service life, our cylinders reduce the maintenance costs of your enterprises while minimising downtime.

CUSTOM-ENGINEERED DAM GATE CYLINDERS



Customized Diameter & Stroke Options



High Load Capacity Fitting Solutions

Our Dam Gate Cylinders are designed to high engineering standards to ensure reliable and uninterrupted operation in water control systems. Thanks to its harsh environmental resistant structure, high force capacity and long service life, it offers superior performance in dam, regulator and water management projects. Our solutions developed specifically for project requirements are confidently preferred in critical infrastructure applications, ensuring maximum operational reliability and precise control.

CUSTOM-ENGINEERED IRON-STEEL SECTOR CYLINDERS



Mounting and Flexible Fitting Options



Custom Stroke and Integrated Position Control Options

Our hydraulic cylinders for the iron and steel sector are at the critical points of the production processes with their high load capacity, heavy operating condition resistant structure and reliable performance. They provide high force and precise motion control in demanding applications such as rolling mills, press systems, cutting and forming lines, scrap processing equipment, material handling systems, and continuous casting plants. Contributing to uninterrupted production through their robust construction, high-pressure resistant design, and extended service life, our cylinders are custom-manufactured with versatile options for bore diameters, stroke lengths, mounting types, and operating pressures to fulfill your application-specific requirements. Also, optional water-cooled designs are available for areas exposed to high heat.

CUSTOM-ENGINEERED FOOD GRADE CYLINDERS



Special Mounting and Fitting Elements



Stainless Steel Body Options

As Çelikkol Hidrolik, we develop special cylinder solutions in accordance with the high hygiene standards and uninterrupted production requirements of the food industry. Our products designed specifically for the needs of manufacturing lines; keep food safety and operational continuity at the highest level.

Our cylinders, which stand out with its stainless steel construction, food-compatible sealants and hygienic design; have high resistance to corrosion and aggressive cleaning chemicals. Thanks to their easy-to-clean construction, they deliver maximum sanitation within your processing lines.

Our designs offer reliable performance even in the most harsh operating conditions; promises long service life, low maintenance cost and high productivity. Our solutions, manufactured with the reliability of Çelikkol Hidrolik, merge quality and sustainability to eliminate downtime on your manufacturing lines.

OUR PRODUCT RANGE & GALLERY



OUR PRODUCT RANGE & GALLERY



OUR PRODUCT RANGE & GALLERY



OUR PRODUCT RANGE & GALLERY



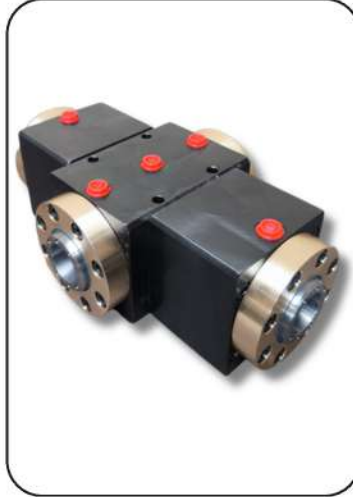
OUR PRODUCT RANGE & GALLERY



OUR PRODUCT RANGE & GALLERY



OUR PRODUCT RANGE & GALLERY



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☎ (0332) 238 64 96 ————— (0332) 238 64 73

✉ info@celikkolhidrolik.com.tr

🌐 www.celikkolhidrolik.com.tr

in | | | | @celikkolhidrolik

celikkolhidrolik.com.tr

CONTACT

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