INTECH MECHANICS

ENGINEERING. HYDRAULICS. METALWORKING

A RELIABLE SOLUTION FOR YOUR BUSINESS

FROM DRAWING TO FINISHED ASSEMBLY



27	7696	1000 MM	3000 KG	ISO 9001:2015
YEARS OF EXPERIENCE	COMPLETED PROJECTS	MAXIMUM PARTLENGTH	MAXIMUM PART WEIGHT	QUALITY CONTROL

APPLICATION AREAS
FOR OUR PRODUCTS



METALLURGY

Reliable equipment for continuous operation and extreme loads.



AEROSPACE INDUSTRY

High-precision manufacturing of parts for aviation systems and mechanisms.



OIL AND GAS INDUSTRY

Resistance to corrosive environments and harsh operating conditions.



MILITARY

Reliable solutions for equipment operating in extremely challenging conditions



RAIL TRANSPORT

Durable components for rolling stock and infrastructure.



AGRICULTURAL MACHINERY

High wear resistance and reliability of agricultural machinery components designed for intensive use.

INTECH MECHANICS

WHEN ACCURACY, RELIABILITY, AND RESULTS MATTER

ABOUT US

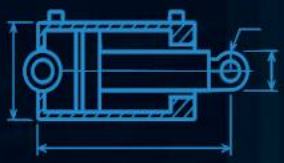
INTECH MECHANICS is a modern manufacturing enterprise specializing in power hydraulics and high-precision metalworking.











27 YEARS OF EXPERIENCE

4 EXPORTS TO 4 COUNTRIES

41 CLIENT ENTERPRISES

7696 COMPLETED PROJECTS

20000± PRODUCT NAMES

OUR MANUFACTURING

- Advanced CNC machinery
- Quality control at every stage
- Series and custom production
- High processing accuracy

MACHINE SPECIFICATIONS

SPECIFICATIONS	CNC VERTICAL MACHINING CENTERS	CNC LATHES
Accuracy	0.005	0.008
Repeatability	0.003	0.005
MAX ø	–	560 mm
MAX ↔	–	1000 mm
Worktable size	1360/700	–
Max X	1300 mm	300 mm
Max Y	700 mm	–
Max Z	700 mm	950 mm
MAX workpiece weight	1000 kg	300 kg

WE DON'T JUST MANUFACTURE PARTS - WE CREATE RELIABLE ENGINEERING SOLUTIONS FOR INDUSTRY.

OUR SPECIALIZATION



HYDRAULIC CYLINDERS

Design and manufacture of hydraulic cylinders for various applications – for industrial equipment, specialized machinery, and heavy-duty operation.



HYDRAULIC BLOCKS

Manufacturing of high-complexity hydraulic blocks in compliance with requirements for channel cleanliness, machining precision, and leak-tightness.



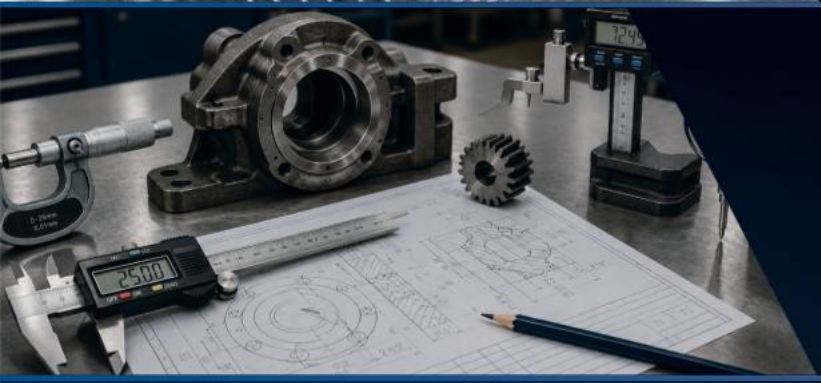
HYDRAULIC JACKS

Reliable power solutions for industrial applications designed for a long service life.



CUSTOM METALWORK

High-precision metalworking according to customer drawings.



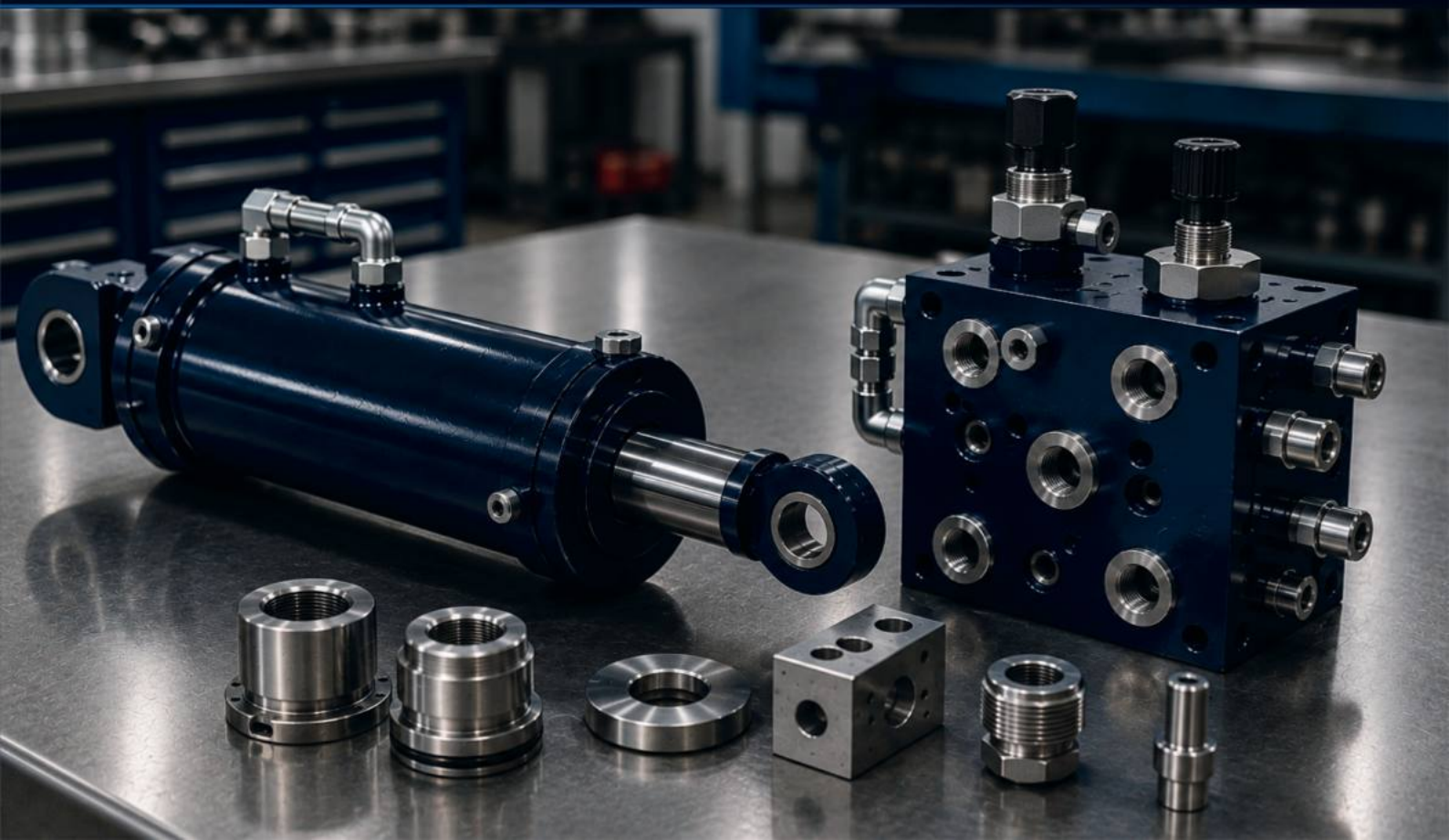
DESIGN

On-site measurement of parts, development of design documentation, and manufacturing of the final product.

METALWORKING | OF ANY COMPLEXITY

WE MANUFACTURE:

- Housing components, bases, covers
- Clevises, front and rear covers
- Flanged joints
- Bushings, glands
- High-strength nuts
- Custom-designed products
- Coatings: decorative a nd hard chrome plating, anodizin
- Valve blocks
- Special fasteners and brackets
- Piston rods, machined tubes
- Rollers, pulleys, disc springs
- Steel heat treatment: annealing, normalizing, quenching, tempering
- Welding
- Grinding



WHY CHOOSE US

FULFILLMENT OF THE MOST COMPLEX TASKS

ENGINEERING SUPPORT
We provide support at every stage –
from concept to final product

IN-HOUSE MANUFACTURING
Full cycle – from raw materials to final product

RESTORATION OF IMPORTED ASSEMBLIES
Repair and manufacturing
of replacement parts

HYDRAULIC TESTING
Bench testing
under pressure

QUALITY CONTROL
100% inspection
at every stage

MANUFACTURING FROM 1 PC TO BATCH RUNS
Flexible volumes tailored
to your needs



HYDRAULIC CYLINDERS

RELIABILITY IN EVERY MOVEMENT



- PRESSURE UP TO 37.5 MPa
- PISTON DIAMETER UP TO 220 MM
- PISTON ROD DIAMETER UP TO 160 MM
- OPERATING TEMPERATURE FROM -40°C TO +200°C
- STROKE UP TO 1,000 MM
- PRESSURE BENCH TESTING

TAILORED APPROACH

QUALITY CONTROL

IN-HOUSE MANUFACTURING

FULL PRODUCTION CYCLE

WATER-COOLED HYDRAULIC CYLINDER

PISTON DIAMETER	PISTON ROD DIAMETER	PISTON STROKE	WORKING FLUID
140 mm	100 mm	500 mm	Shell Tellus

AMBIENT TEMPERATURE RANGE	NOMINAL OPERATING PRESSURE	TEST PRESSURE	WEIGHT
from –20°C to +100°C	20 MPa	37.5 MPa	242.5 kg



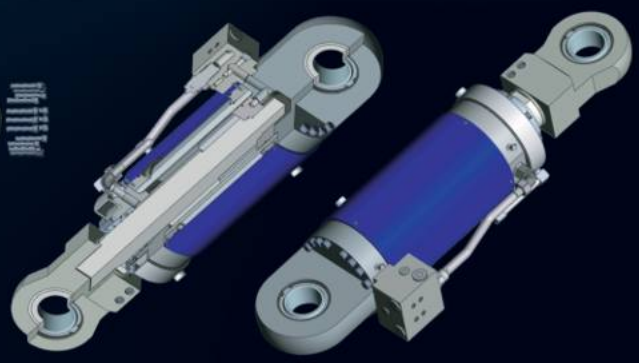


WATER-COOLED HYDRAULIC CYLINDER

PISTON DIAMETER	PISTON ROD DIAMETER	PISTON STROKE	WORKING FLUID
220 mm	160 mm	250 mm	Shell Tellus

AMBIENT TEMPERATURE RANGE	NOMINAL OPERATING PRESSURE	TEST PRESSURE	WEIGHT
from –10°C to +80°C	20 MPa	37.5 MPa	620 kg





WATER-COOLED HYDRAULIC CYLINDER

PISTON DIAMETER	PISTON ROD DIAMETER	PISTON STROKE	WORKING FLUID
50 mm	40 mm	260 mm	Mineral oil

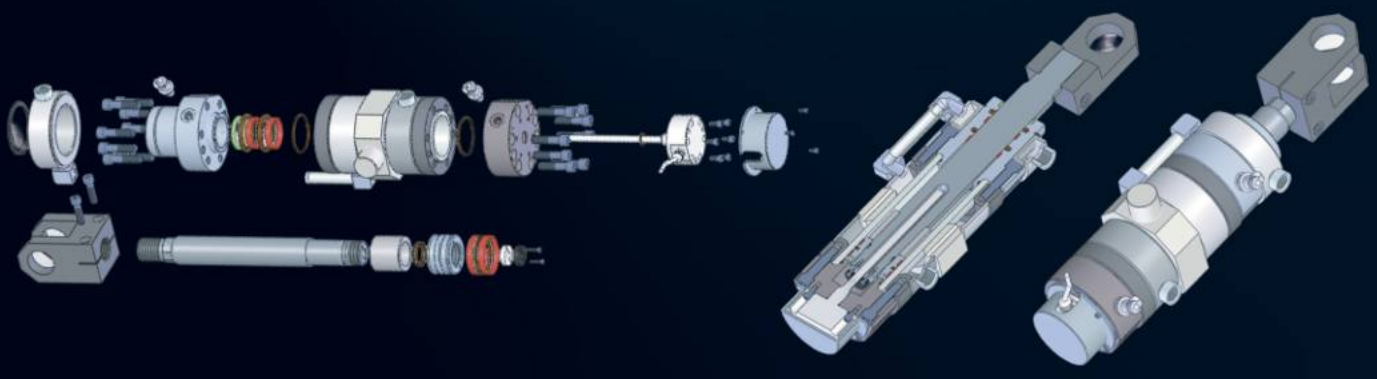
AMBIENT TEMPERATURE RANGE	NOMINAL OPERATING PRESSURE	TEST PRESSURE	WEIGHT
from –20°C to +100°C	16 MPa	30 MPa	14.7 kg



WATER-COOLED HYDRAULIC CYLINDER WITH POSITION SENSOR

PISTON DIAMETER	PISTON ROD DIAMETER	PISTON STROKE	WORKING FLUID
63 mm	45 mm	80 mm	Mineral oil

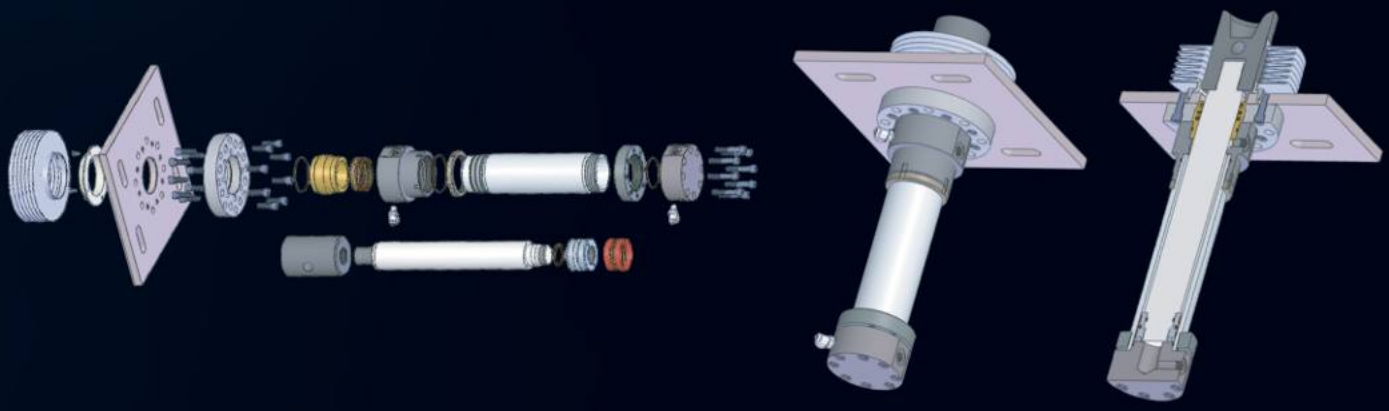
AMBIENT TEMPERATURE RANGE	NOMINAL OPERATING PRESSURE	TEST PRESSURE	WEIGHT
from –15°C to +200°C	20 MPa	30 MPa	30.6 kg



HYDRAULIC CYLINDER

PISTON DIAMETER	PISTON ROD DIAMETER	PISTON STROKE	WORKING FLUID
80 mm	70 mm	300 mm	Mineral oil

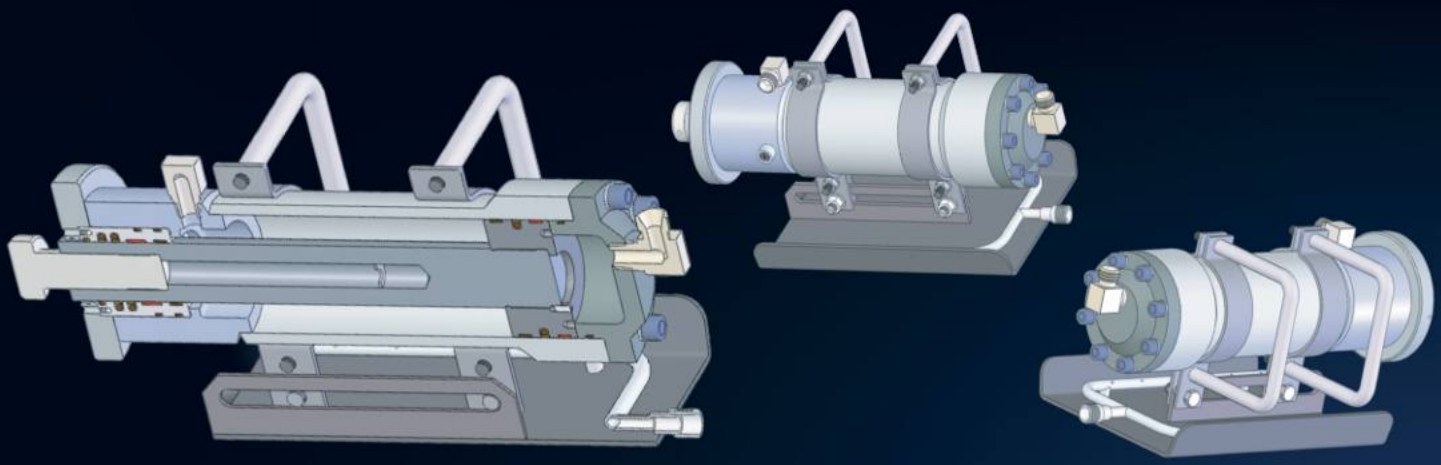
AMBIENT TEMPERATURE RANGE	NOMINAL OPERATING PRESSURE	TEST PRESSURECK	WEIGHT
from –15°C to +200°C	20 MPa	30 MPa	75 kg



HYDRAULIC CYLINDER

PISTON DIAMETER	PISTON ROD DIAMETER	PISTON STROKE	WORKING FLUID
100 mm	50 mm	200 mm	Mineral oil

AMBIENT TEMPERATURE RANGE	NOMINAL OPERATING PRESSURE	TEST PRESSURECK	WEIGHT
from –40°C to +150°C	20 MPa	30 MPa	28 kg



HYDRAULIC CYLINDER

PISTON DIAMETER	PISTON ROD DIAMETER	PISTON STROKE	WORKING FLUID
140 mm	100 mm	500 mm	Shell Tellus

AMBIENT TEMPERATURE RANGE	NOMINAL OPERATING PRESSURE	TEST PRESSURE	WEIGHT
from –20°C to +100°C	20 МПа	37,5 МПа	176 кг

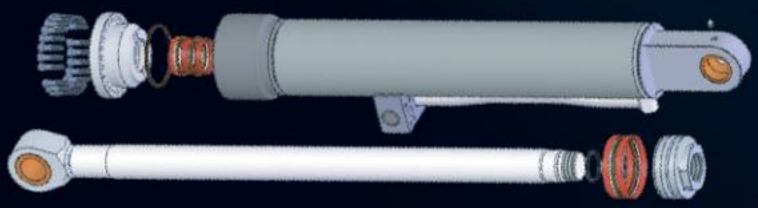




HYDRAULIC CYLINDER

PISTON DIAMETER	PISTON ROD DIAMETER	PISTON STROKE	WORKING FLUID
140 mm	100 mm	500 mm	Shell Tellus

AMBIENT TEMPERATURE RANGE	NOMINAL OPERATING PRESSURE	TEST PRESSURE	WEIGHT
from –20°C to +100°C	20 МПа	37,5 МПа	242.5 кг





HYDRAULIC CYLINDER

PISTON DIAMETER	PISTON ROD DIAMETER	PISTON STROKE	WORKING FLUID
50 mm	25 mm	175 mm	Mineral oil

AMBIENT TEMPERATURE RANGE	NOMINAL OPERATING PRESSURE	TEST PRESSURE	WEIGHT
from –20°C to +100°C	16 МПа	20 МПа	5,5 кг



HYDRAULIC CYLINDER

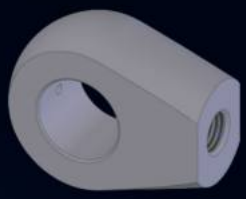
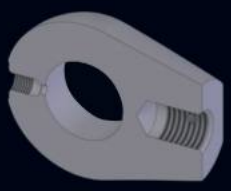
PISTON DIAMETER	PISTON ROD DIAMETER	PISTON STROKE	WORKING FLUID
100 mm	20 mm	200 mm	Mineral oil

AMBIENT TEMPERATURE RANGE	NOMINAL OPERATING PRESSURE	TEST PRESSURE	WEIGHT
from –40°C to +150°C	20 МПа	30 МПа	28 кг



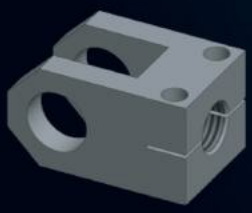
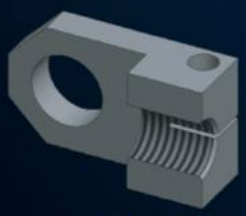
HYDRAULIC CYLINDER PARTS

CLEVISES

TYPE	LENGTH (L)
Front	200 mm

OUTER DIAMETER	MOUNTING HOLE (FOR SPHERICAL PLAIN BEARING)
80 mm	$40^{+0,025}$ mm

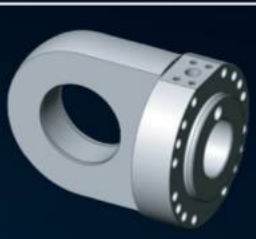
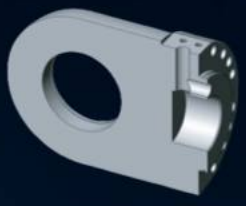
TYPE	LENGTH (L)
Front	134x85x75 mm

OUTER DIAMETER	MOUNTING HOLE (FOR SPHERICAL PLAIN BEARING)
–	$45^{+0,025}$ mm



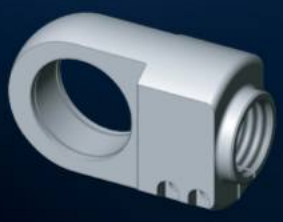

TYPE	LENGTH (L)
Front	455 mm

OUTER DIAMETER	MOUNTING HOLE (FOR SPHERICAL PLAIN BEARING)
290 mm	$180^{+0,063}$ mm

TYPE	LENGTH (L)
Front	454 mm

OUTER DIAMETER	MOUNTING HOLE (FOR SPHERICAL PLAIN BEARING)
338 mm	$180^{+0,063}$ mm

TYPE	LENGTH (L)
Front	98 mm

OUTER DIAMETER	MOUNTING HOLE (FOR SPHERICAL PLAIN BEARING)
65 mm	$42^{+0,025}$ mm




TYPE	LENGTH (L)
Front	74 mm

OUTER DIAMETER	MOUNTING HOLE (FOR SPHERICAL PLAIN BEARING)
60 mm	$42^{+0,025}$ mm

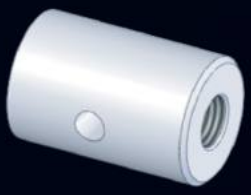
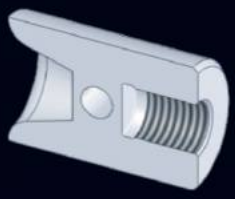
HYDRAULIC CYLINDER PARTS

CLEVISES




TYPE	LENGTH (L)
Front	228 mm

OUTER DIAMETER	MOUNTING HOLE (FOR SPHERICAL PLAIN BEARING)
128 mm	90 $^{+0,054}$ mm

TYPE	LENGTH (L)
Front	150 mm

OUTER DIAMETER	MOUNTING HOLE (FOR SPHERICAL PLAIN BEARING)
100 mm	–




TYPE	LENGTH (L)
Front	98 mm

OUTER DIAMETER	MOUNTING HOLE (FOR SPHERICAL PLAIN BEARING)
65 mm	42 $^{+0,025}$ mm



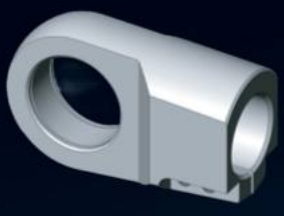

TYPE	LENGTH (L)
Rear weld-on	74 mm

OUTER DIAMETER	MOUNTING HOLE (FOR SPHERICAL PLAIN BEARING)
60 mm	42 $^{+0,025}$ mm




TYPE	LENGTH (L)
Front weld-on	162 mm

OUTER DIAMETER	MOUNTING HOLE (FOR SPHERICAL PLAIN BEARING)
106 mm	130 $^{+0,063}$ mm




TYPE	LENGTH (L)
Front	193 mm

OUTER DIAMETER	MOUNTING HOLE (FOR SPHERICAL PLAIN BEARING)
116 mm	75 $^{+0,030}$ mm

HYDRAULIC CYLINDER PARTS

CLEVISES





TYPE	LENGTH (L)
Front	296 мм

OUTER DIAMETER	MOUNTING HOLE (FOR SPHERICAL PLAIN BEARING
85 мм	130 $^{+0,063}$ мм





TYPE	LENGTH (L)
Rear weld-on	255 мм

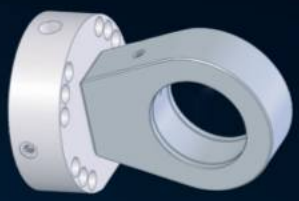
OUTER DIAMETER	MOUNTING HOLE (FOR SPHERICAL PLAIN BEARING
200 мм	130 $^{+0,063}$ мм

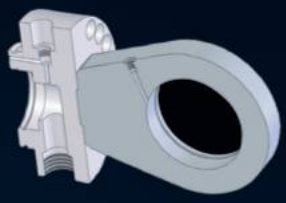




TYPE	LENGTH (L)
Front	296 мм

OUTER DIAMETER	MOUNTING HOLE (FOR SPHERICAL PLAIN BEARING
85 мм	130 $^{+0,063}$ мм





TYPE	LENGTH (L)
Rear	255 мм

OUTER DIAMETER	MOUNTING HOLE (FOR SPHERICAL PLAIN BEARING
200 мм	130 $^{+0,063}$ мм





TYPE	LENGTH (L)
Front	237 мм

OUTER DIAMETER	MOUNTING HOLE (FOR SPHERICAL PLAIN BEARING
222 мм	130 $^{+0,063}$ мм

HYDRAULIC CYLINDER PARTS

PISTON RODS



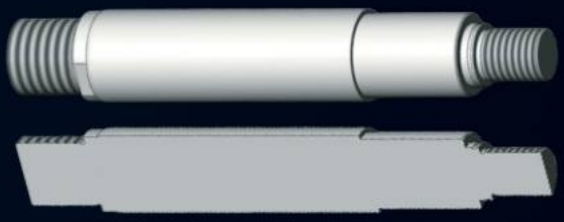
TYPE

Piston rod	
DIAMETER	LENGTH (L)
16 mm	150 mm
45 mm	389 mm



TYPE

Rod with a sensor bore	
DIAMETER	LENGTH (L)
40 mm	389 mm



TYPE

Rod	
DIAMETER	LENGTH (L)
160 mm	985 mm



TYPE

Rod with a sensor bore	
DIAMETER	LENGTH (L)
14 mm	650 mm
100 mm	976 mm



TYPE

Rod with a sensor bore	
DIAMETER	LENGTH (L)
20 mm	275 mm
50 mm	376 mm

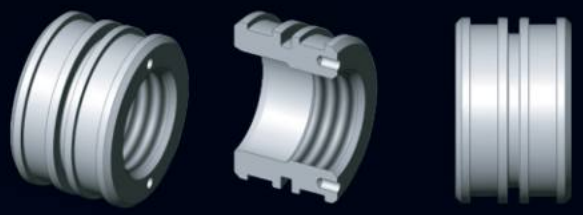


TYPE

Rod	
DIAMETER	LENGTH (L)
80 mm	1315 mm

HYDRAULIC CYLINDER PARTS

PISTONS



THREAD

M39x2 - 7H	
DIAMETER	LENGTH (L)
62,6 $^{-0,074}$ mm	40 mm



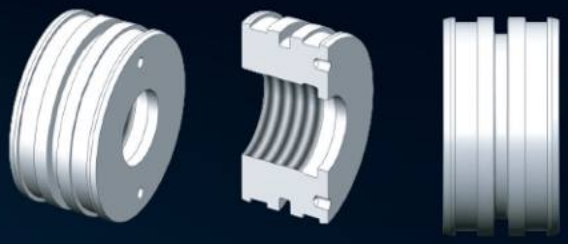
THREAD

M90x3 - 7H	
DIAMETER	LENGTH (L)
219,4 $^{-0,115}$ mm	90 mm



THREAD

M60x3 - 7H	
DIAMETER	LENGTH (L)
139,6 $^{-0,100}$ mm	80 mm



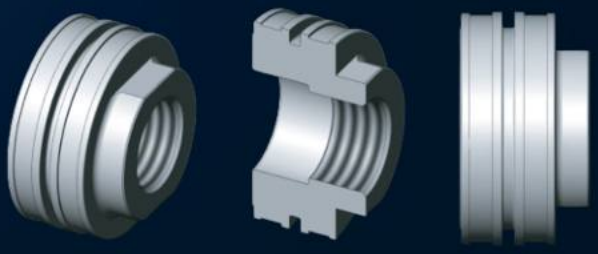
THREAD

M72x3 - 7H	
DIAMETER	LENGTH (L)
99,6 $^{-0,087}$ mm	110 mm



THREAD

M72x3 - 7H	
DIAMETER	LENGTH (L)
139,6 $^{-0,100}$ mm	110 mm

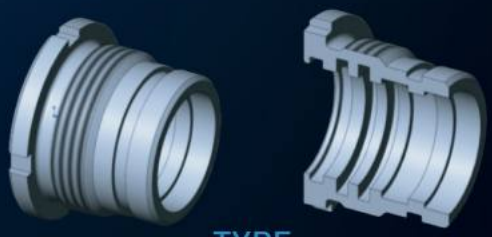


THREAD

M68x3 - 7H	
DIAMETER	LENGTH (L)
148 $^{-0,100}$ mm	83 mm

HYDRAULIC CYLINDER PARTS

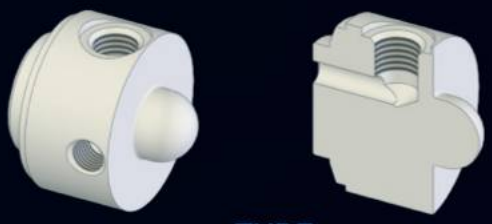
GLANDS, COVERS, MOUNTS, BUSHINGS



TYPE

Front hydraulic cylinder gland

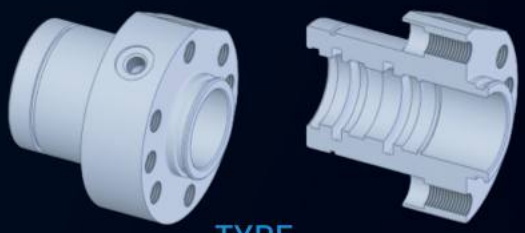
DIAMETER	LENGTH (L)
72 mm	53 mm



TYPE

Rear hydraulic cylinder mount

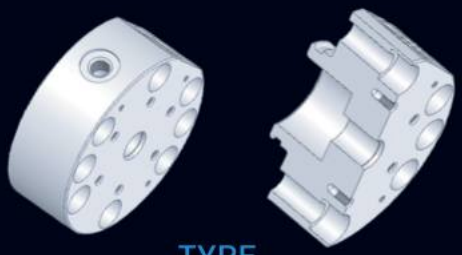
DIAMETER	LENGTH (L)
75 mm	73 mm



TYPE

Front hydraulic cylinder gland

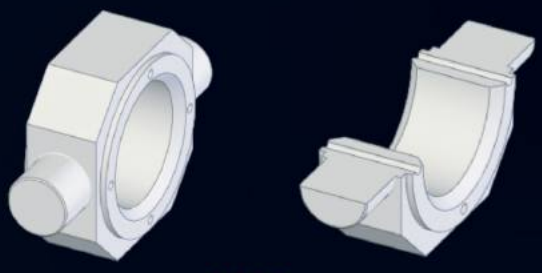
DIAMETER	LENGTH (L)
124 mm	116 mm



TYPE

Rear hydraulic cylinder gland

DIAMETER	LENGTH (L)
124 mm	59 mm



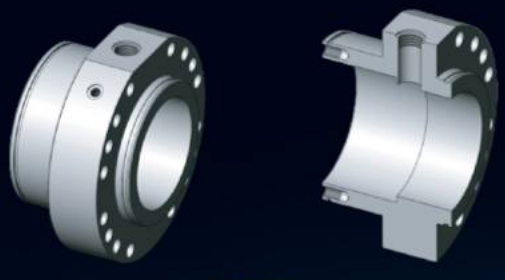
TYPE

Hydraulic cylinder trunnion

INNER DIAMETER	LENGTH (L)
$80\ ^{+0,29}_{+0,11}$ mm	55 mm

ГАБАРИТНИЙ РОЗМІР

189 x 125 mm



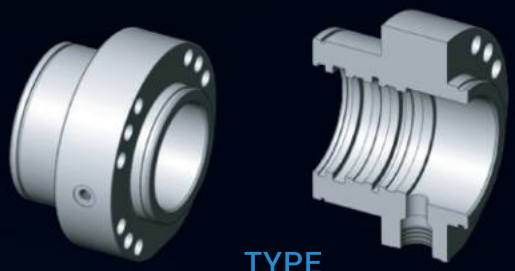
TYPE

Front hydraulic cylinder cover

OUTER DIAMETER	LENGTH (L)
338 mm	191 mm

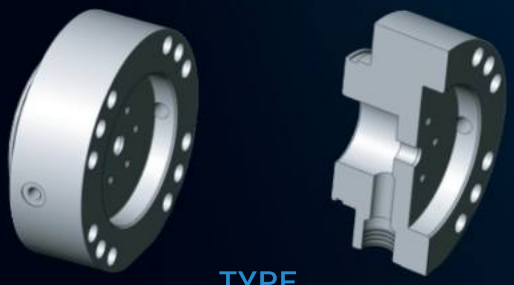
HYDRAULIC CYLINDER PARTS

GLANDS, COVERS, MOUNTS, BUSHINGS



TYPE

Front hydraulic cylinder gland	
DIAMETER	LENGTH (L)
223 mm	150 mm



TYPE

Rear hydraulic cylinder mount	
DIAMETER	LENGTH (L)
75 mm	73 mm



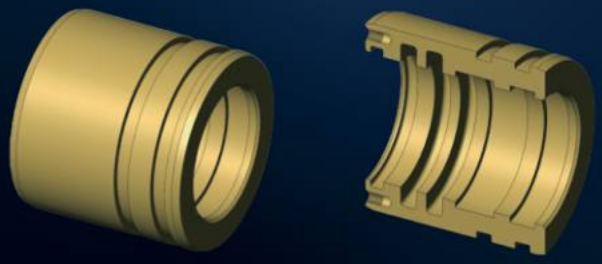
TYPE

Hydraulic cylinder head	
DIAMETER	LENGTH (L)
118 mm	104 mm



TYPE

Hydraulic cylinder rear cover	
OUTER DIAMETER	LENGTH (L)
140 mm	55 mm



TYPE

Sealing bushing	
DIAMETER	LENGTH (L)
75 $^{-0,30}_{-0,60}$ mm	70 mm



TYPE

Hydraulic cylinder threaded ring	
DIAMETER	LENGTH (L)
330 mm	84 mm

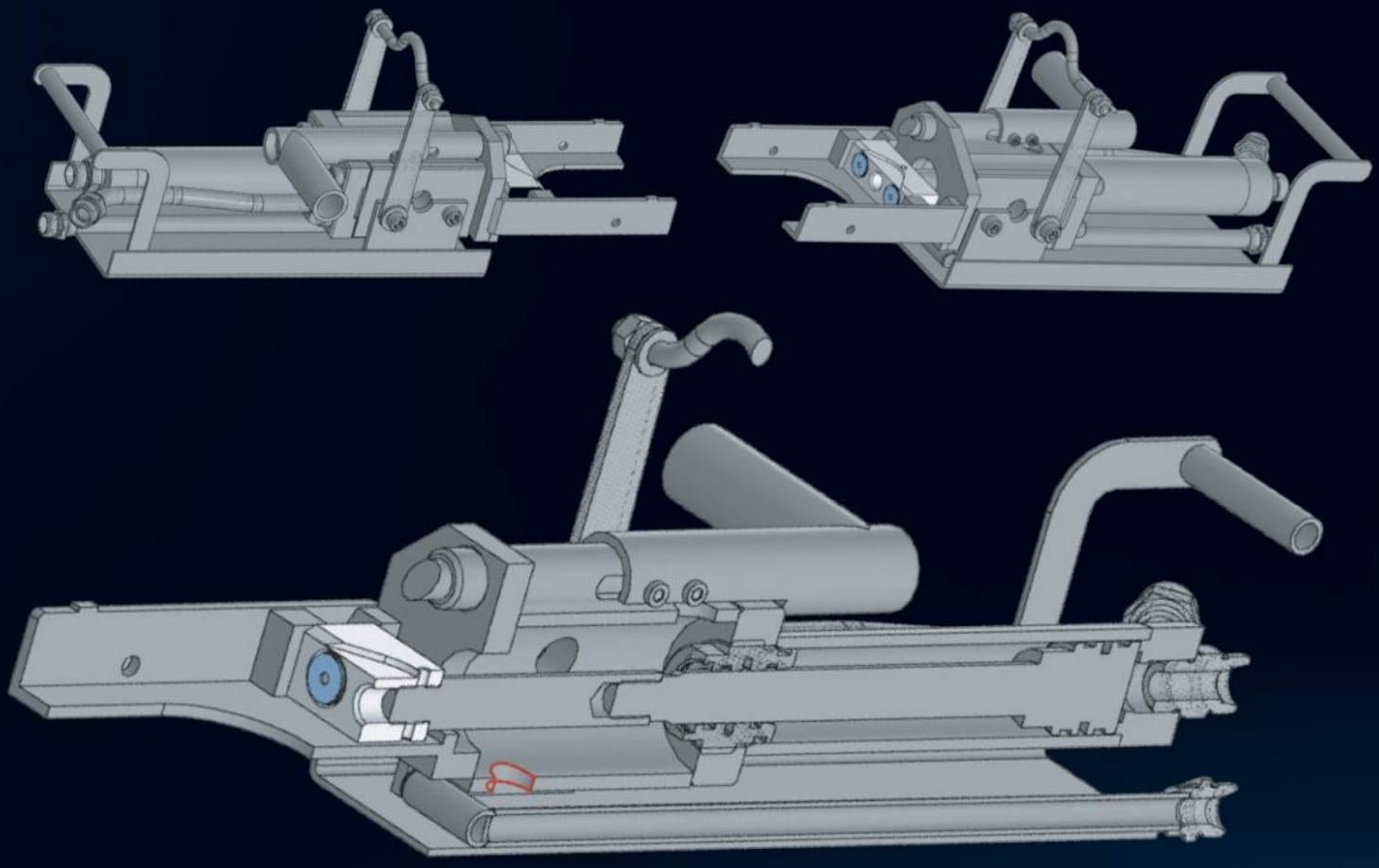
THREAD
M260x3 - 7H

HOUSING COMPONENTS, HYDRAULIC BLOCKS, MECHANISMS

FNC MECHANISM

Hydraulic fast nozzle changer (FNC) mechanism featuring a protective shield and air cooling for a continuous casting machine (CCM).

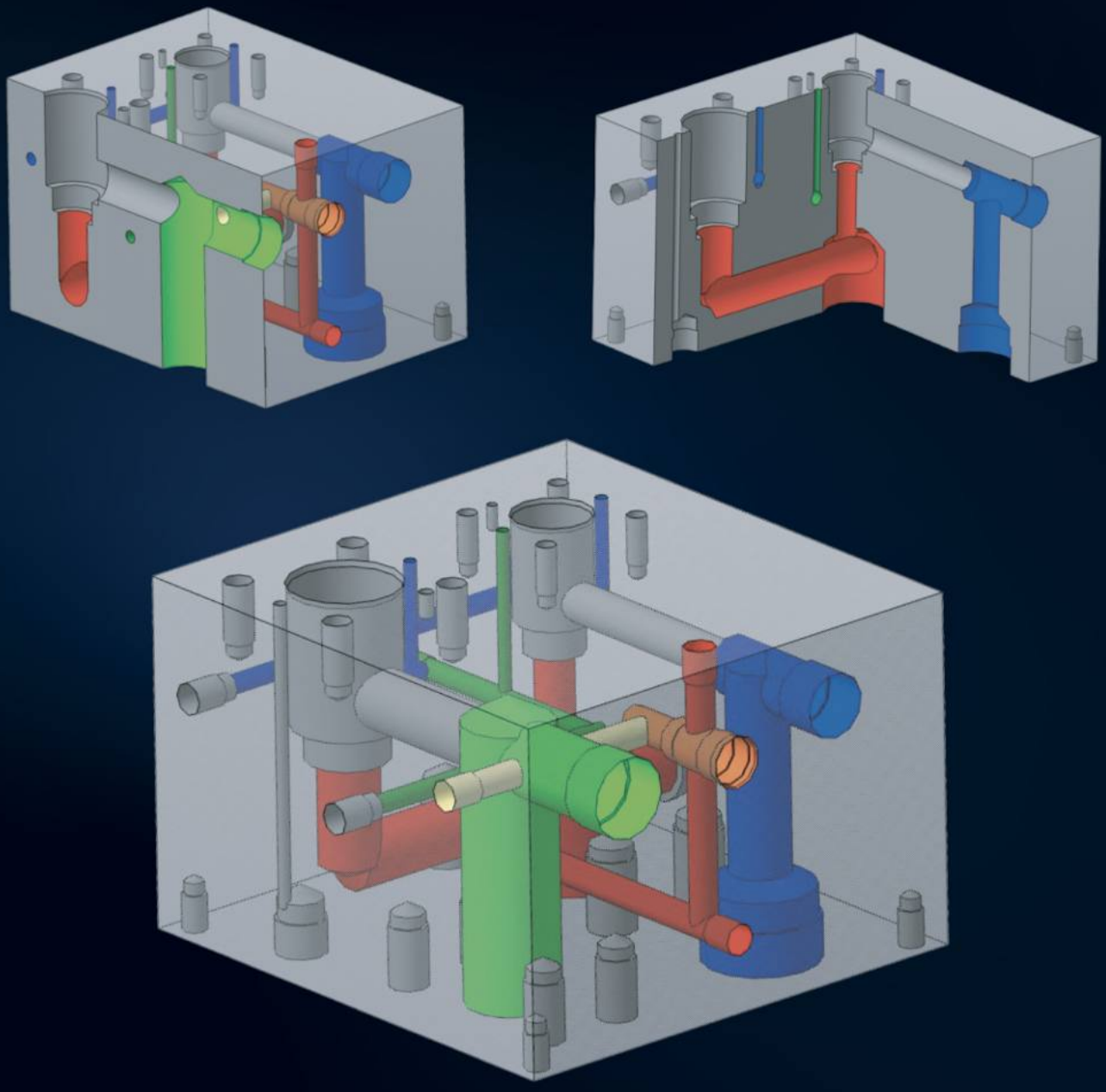
This cassette-type device is located beneath the bottom of the production ladle and replaces worn-out metering nozzles with new ones in 0.2–0.3 seconds.



HOUSING COMPONENTS, HYDRAULIC BLOCKS, MECHANISMS

HYDRAULIC BLOCK

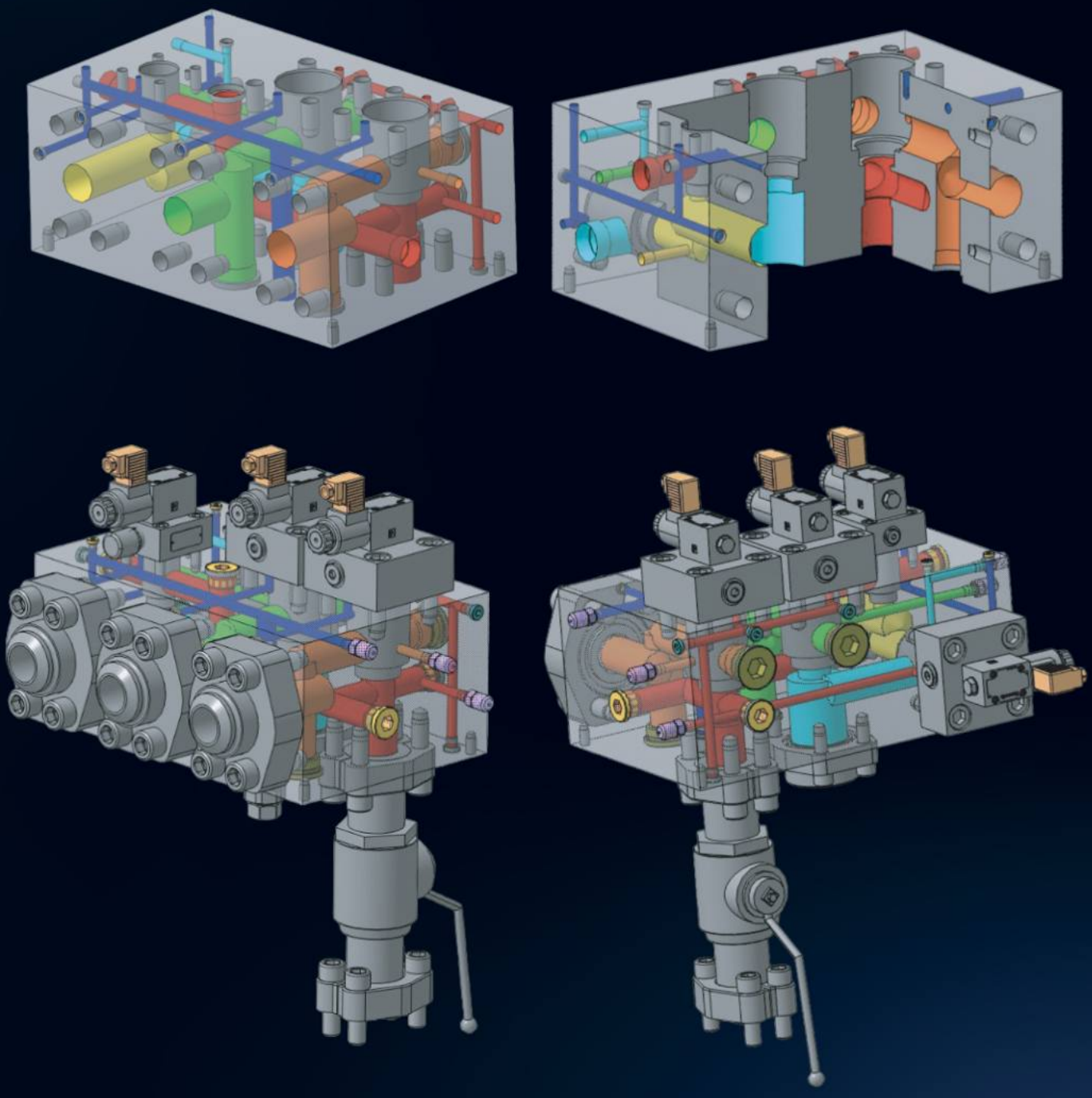
A hydraulic block is a compact assembly that combines fluid channels and mounting ports for valves and distributors within a single housing.



HOUSING COMPONENTS, HYDRAULIC BLOCKS, MECHANISMS

HYDRAULIC BLOCK

Hydraulic control block for a continuous casting machine

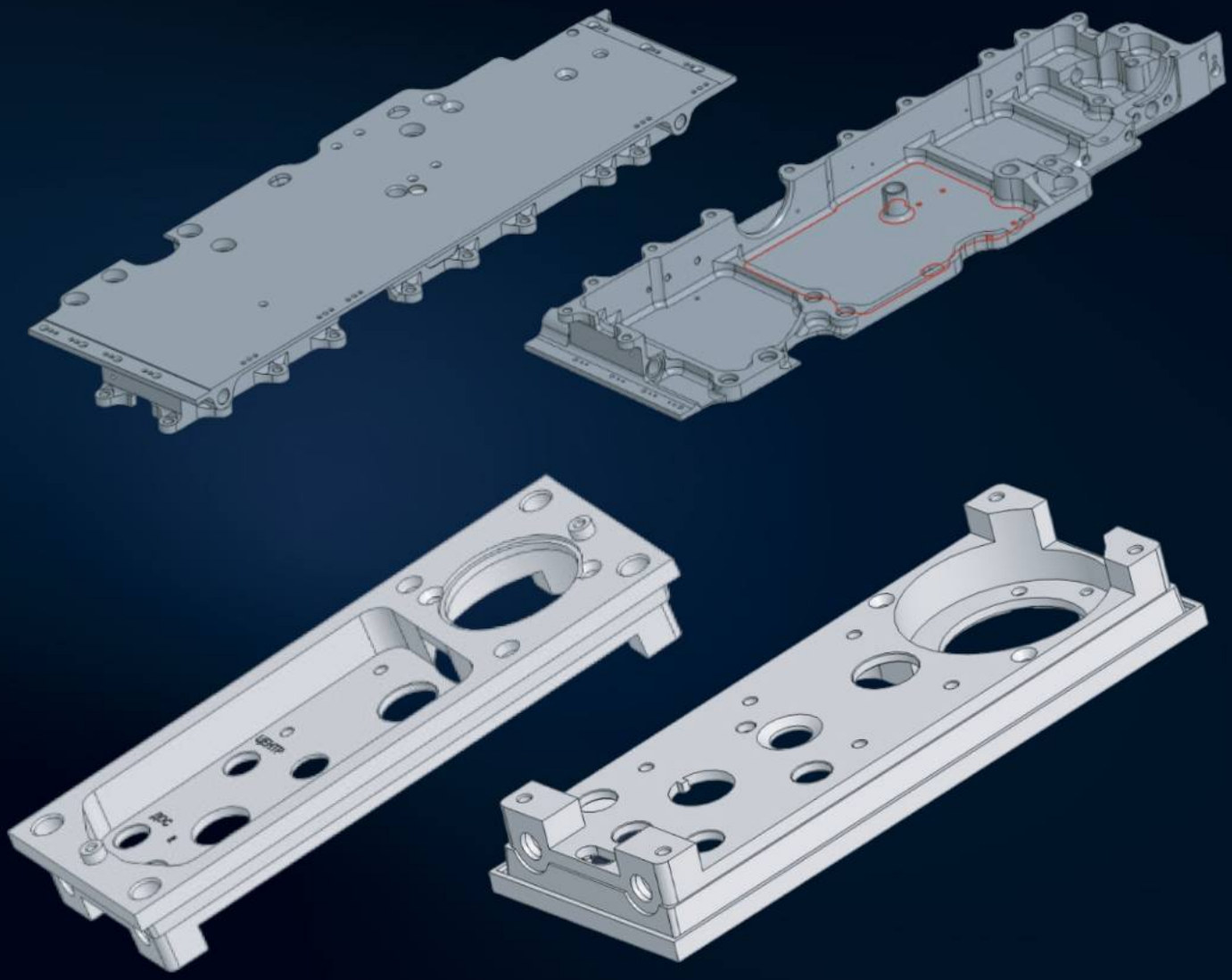


HOUSING COMPONENTS, HYDRAULIC BLOCKS, MECHANISMS

CONTROL PANEL BASE

These parts feature numerous holes of various diameters, slots, mounting seats, and fasteners for assembling internal mechanisms or hydraulic components.

They are used as structural base elements (housings or chassis) for mounting controls, circuit boards, assemblies, and connections.



CRANE-MANIPULATOR

An industrial solution for intensive cargo handling.
Designed to automate hoisting and transport operations in high-workload manufacturing environments.

The equipment ensures fast, precise, and safe cargo handling without requiring significant physical effort from personnel. It increases workshop productivity, reduces downtime, and stabilizes technological processes.

The solution integrates easily into existing production lines and does not require major infrastructure reconstruction.

Areas of application:

- Machine building
- Metalworking
- Assembly operations
- Logistics complexes
- Metallurgy

MAX. LOAD CAPACITY	MAX. AXIS ROTATIONI	VERTICAL STROKE RANGE	MAX. VERTICAL STROKE
100 kg	360°	1300 mm	1450 mm

MAX. REACH FROM AXIS	MIN. REACH FROM AXIS	COMPRESSED AIR SUPPLY	STRUCTURE WEIGHT
2210 mm	540 mm	6 bar	115 kg



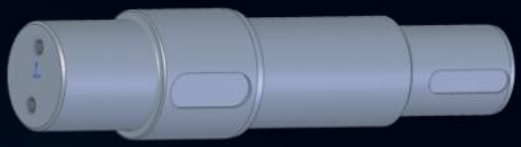
MACHINED PARTS



TYPE	DIAMETER
Nozzle	20,5 mm

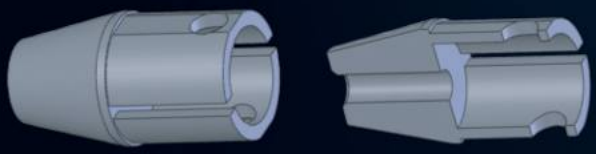


TYPE	SIZE
Clevis	127,5 x70 x 50 mm



TYPE	DIAMETER
Shaft	130 mm

LENGTH (L)
537 мм



TYPE	DIAMETER
Cap	27 mm

LENGTH (L)
50 мм



TYPE	DIAMETER
Valve	12,7 mm

LENGTH (L)
16,6 mm



TYPE	DIAMETER
Sleeve	35 mm

LENGTH (L)
52 mm



TYPE	SIZE
Rear gland	330x210 mm



TYPE	DIAMETER
Stop	70 mm

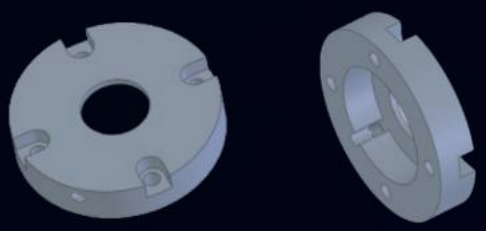
LENGTH (L)
32 mm

MACHINED PARTS



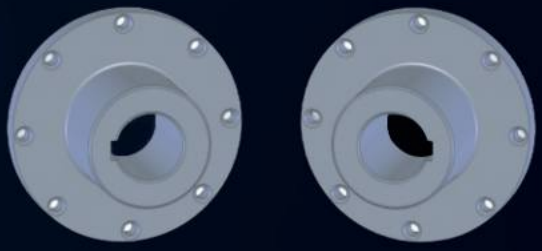
TYPE	OUTER DIAMETER
Sleeve cap	56 mm

LENGTH (L)
27 mm



TYPE	OUTER DIAMETER
Labyrinth seal for pinch roll	270 mm

HEIGHT (h)
54 mm



TYPE	DIAMETER
Half-coupling	205 mm

LENGTH (L)
105 mm



TYPE	DIAMETER
Ring	200 mm

LENGTH (L)	THREAT (M)
35 mm	170 x 4 cl.3



TYPE	DIAMETER
Center roll cover	200 mm

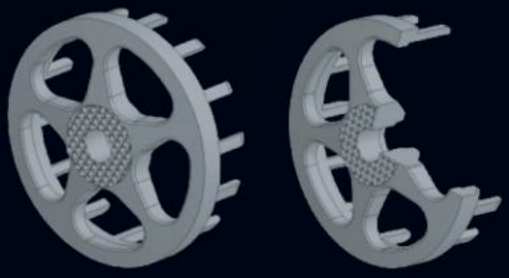
LENGTH (L)	THREAT (M)
38 mm	175 x 4



TYPE	DIAMETER
Bushing	20,3 mm

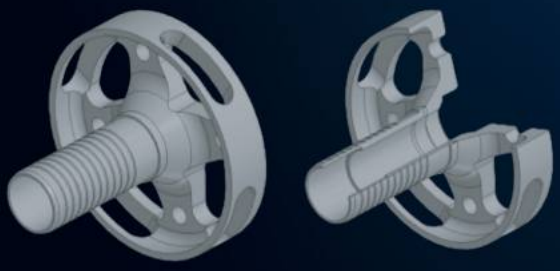
LENGTH (L)
31 mm

MACHINED PARTS



TYPE	DIAMETER
Rotor cap	37 mm

HEIGHT (h)
9 mm



TYPE	DIAMETER
Housing - Axle	36 mm

HEIGHT (h)
23,5 mm



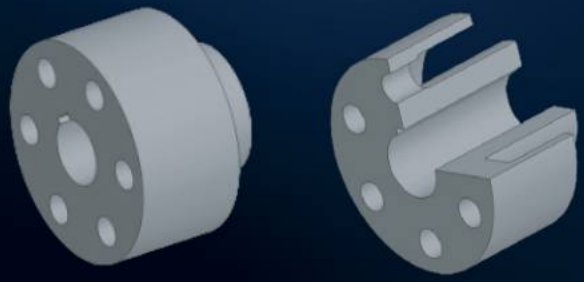
TYPE	DIAMETER
Housing - Axle	42 mm

LENGTH (L)
33,5 mm



TYPE	DIAMETER
Housing - Axle with Lug	42 mm

HEIGHT (h)
23,5 mm



TYPE	DIAMETER
Gland	130 mm

LENGTH (L)
52 mm



TYPE	DIAMETER
Holder bracket	42 mm

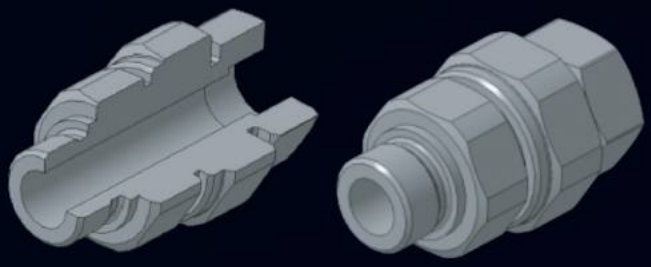
LENGTH (L)
450 mm

MACHINED PARTS



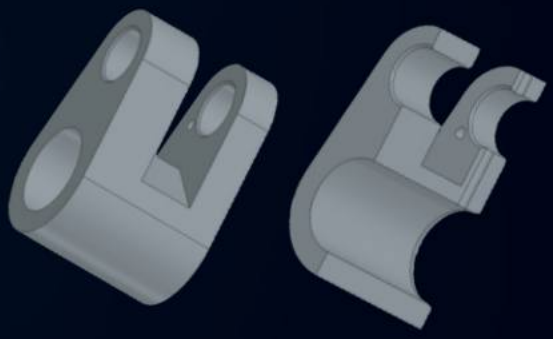
TYPE	DIAMETER
Mounting bracket	40 mm

LENGTH (L)
120 mm

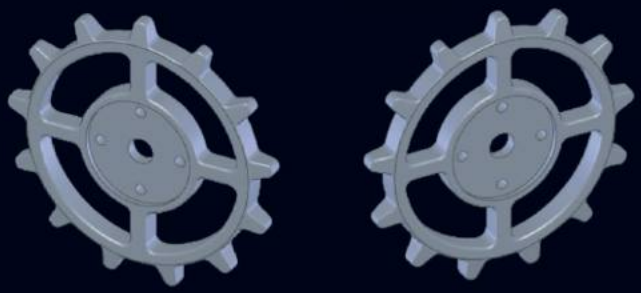


TYPE	DIAMETER
Fitting	30 mm

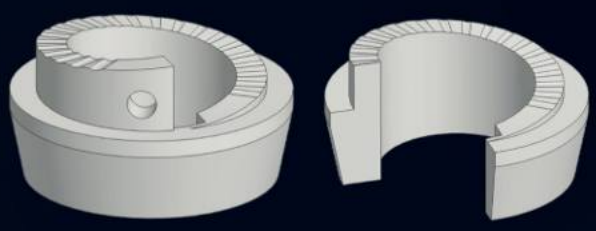
LENGTH (L)
52 mm



TYPE	SIZE
Bracket	40 mm x 70 mm

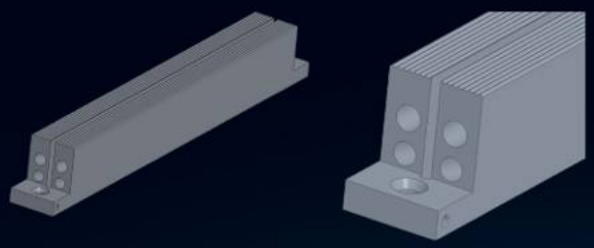


TYPE	DIAMETER
Wheel	250 mm



TYPE	DIAMETER
Cone	80 mm

HEIGHT (h)
45 mm



TYPE	LENGTH (L)
Shoe	320 mm

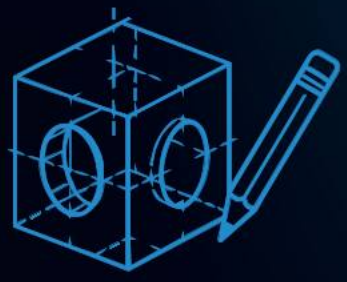
HEIGHT (h)	WIDTH
43 mm	34 mm

WORK PROCESS



1 TASK ANALYSIS

We analyze technical requirements, operating conditions, and determine the optimal engineering solution.



2 ENGINEERING & DESIGN

We develop 3D models, drawings, and a complete set of technical documentation.



3 MANUFACTURING

We manufacture parts and assemblies using modern CNC metalworking equipment.



4 INSPECTION

We verify the geometry, precision, and compliance of the manufactured parts with technical requirements.



5 TESTING

We test finished products to confirm their reliability and performance characteristics.



6 SHIPPING

We carefully package and ship the products to the customer. замовнику.

ENGINEERING

OUR STRENGTH

- Development of technical specifications and custom drawings upon your request
- Rapidly analyze technical tasks and requirements
- Proposing engineering-based solutions
- Optimizing designs for mass production
- Ensure stable quality during scaling
- Design and engineering of cold sheet metal stamping dies of any complexity



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