



AX RANGE

- **"TAUR"** ECU
- **"SENTAUR"** PCU
- **"AX"** JOYSTICKS
- **"TM"** CHOPPERS



Icons legend



Scissor lifts



Articulated boom lifts



Telescopic boom lifts



Vertical mast boom lifts



Articulated platforms



Articulated push-arounds



Telescopic push-arounds

ECU

Electronic Control Unit

PCU

Power Control Unit



Scissor Lifts SYSTEM PROPOSAL



“SENTAUR”
multifunction controller PCU



Cable Harnesses



Compact scissor



“TM”
Traction Module



“TAUR”
multifunction controller ECU

“TAUR”

MULTIFUNCTION CONTROLLER ECU

P/N	Pkg Q.ty
1097017 TAUR-S1	1



Integrated 2-axis inclinometer



Customized “Lock vehicle” function for rental companies



System diagnostic function through the software



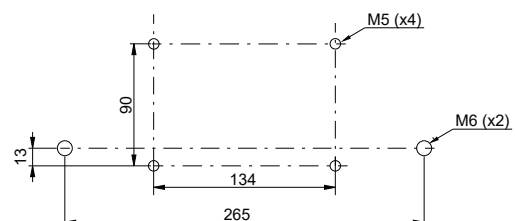
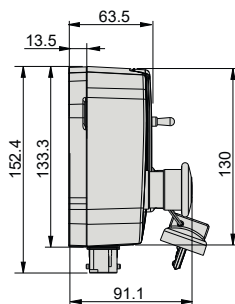
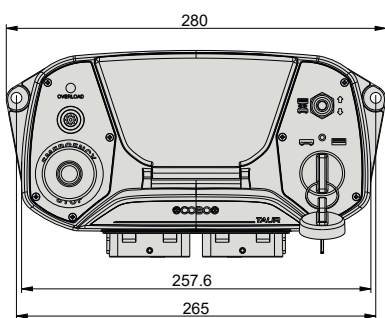
CAN Bus battery charger management function



Equipped with internal data logger managed by software



Use friendly guided menu for system setting & calibration



“TAUR”

MULTIFUNCTION CONTROLLER ECU



Door hinged on the lower side
Better access to the display,
better IP degree



System setting & calibration are
protected by PIN code



Touch screen for system setting
& configuration



3 way key switch for power and control
position selection



Toggle switch for ground operation of
basket



Emergency button



“SENTAUR”

MULTIFUNCTION CONTROLLER PCU



P/N	Pkg Q.ty	Description
1097235 SENTAUR-S1	1	1-axis joystick (Dead man's switch / 2 push buttons)
1097236 SENTAUR-S2	1	2-axis joystick (Dead man's switch)



2 or 4 axis ergonomic joystick



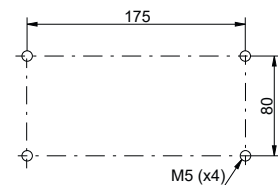
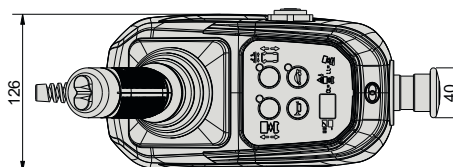
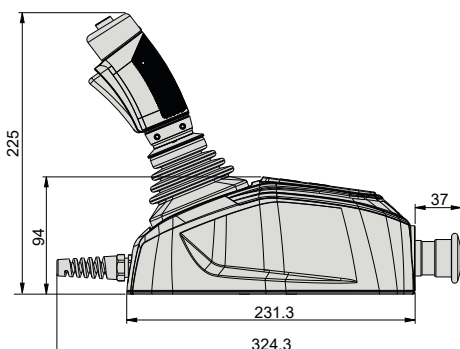
Injection moulded upper plastic cover



Plastic back-shell injection moulded



Coloured insert
Customizable on request



“SENTAUR”

MULTIFUNCTION CONTROLLER **PCU**



Pad printed Logo
Customizable on request



Graphic interface with protective film
Aesthetically customizable
(not buttons and display position)



Emergency button



Polycarbonate with membrane buttons
can be substituted in case of damage



“AX” JOYSTICKS

CAN BUS and HALL EFFECT



1 or 2 axes lever movement



Robust and ideal for outdoor use thanks to high sealing protection



Easy installation and connection



Space saving, reduced dimensions

CAN CAN Bus interface



Highly reliable and long lasting thanks to HALL EFFECT technology










Low power consumption



Ergonomic knob shape for fatigue-free operations

“AX” JOYSTICKS

CAN BUS and HALL EFFECT

TECHNICAL SPECIFICATIONS		
	Power supply	8 - 32V DC
	Current consumption	< 300mA
	Reverse polarity	protected
	Sealing degree	IP65 CEI EN 60529 (above the flange)
	Operating force*	7N (full stroke)
	Expected life	8.000.000 cycles
	Connection	Cable L 400 mm with connector DEUTSCH 6 pins DT04-6P-C015 OPTIONAL KIT: Mating connector P/N COBO 1028545 (27-0935-0000) <i>(Includes: connector, secondary lock, female terminals)</i>
EMC	Electromagnetic compatibility	ECE R10

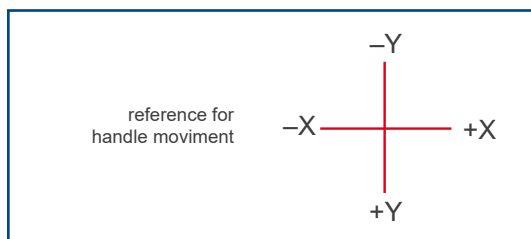
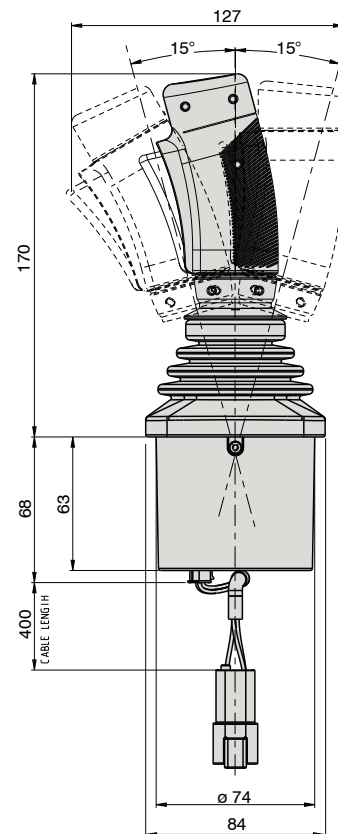
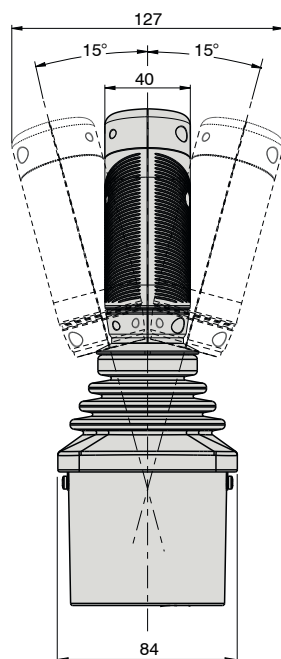
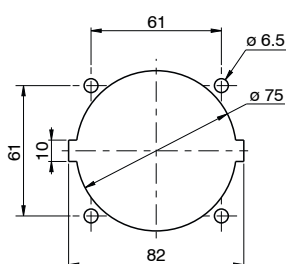
* Measured at 120mm above flange face

PIN OUT	
1	+VB
2	GND
3	CAN - L
4	CAN - H
5	-
6	-

“AX-2D” JOYSTICK

- 2 Axes
- Dead man's switch

P/N	Pkg Q.ty
1099063 42-0193-0000	1



INSTALLATION

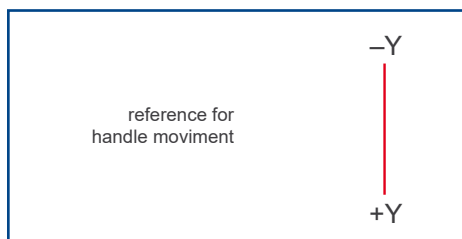
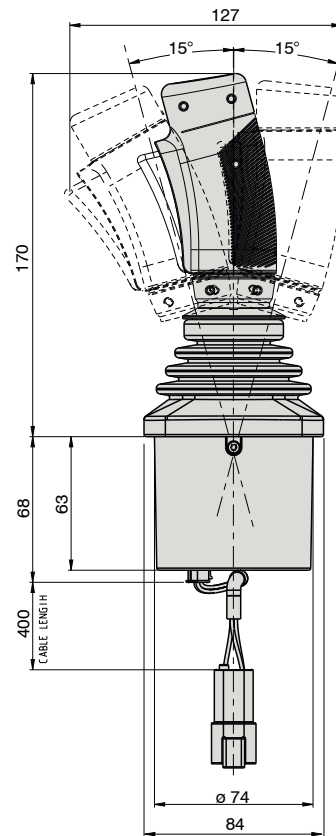
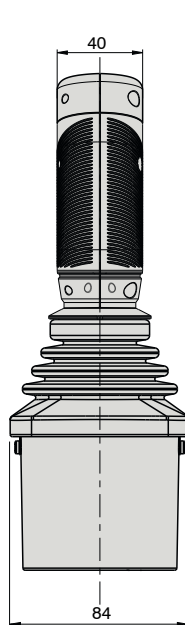
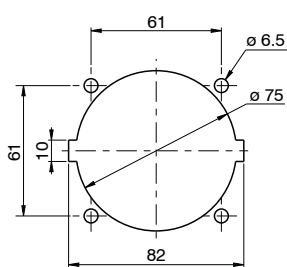
- Recommended panel thickness: 3 - 7mm.
- Fixing screws: M6 (L= panel thickness + 9mm).
- Tightening torque 5Nm.



“AX-1D” JOYSTICK

- 1 Axis
- Dead man's switch

P/N	Pkg Q.ty
1099064 42-0194-0000	1



INSTALLATION

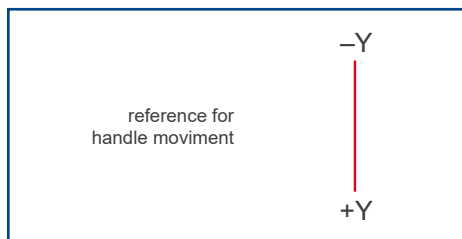
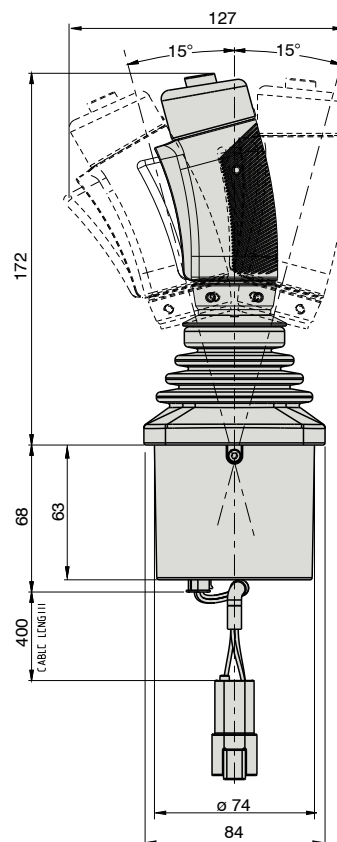
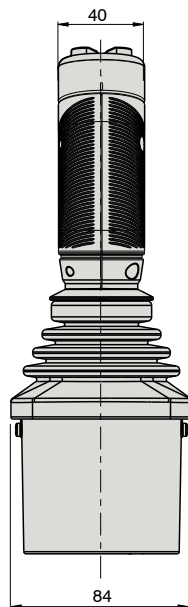
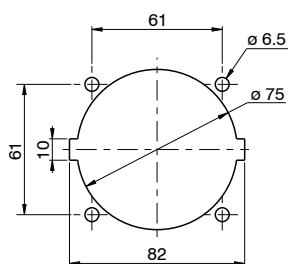
- Recommended panel thickness: 3 - 7mm.
- Fixing screws: M6 (L= panel thickness + 9mm).
- Tightening torque 5Nm.



“AX-1D2” JOYSTICK

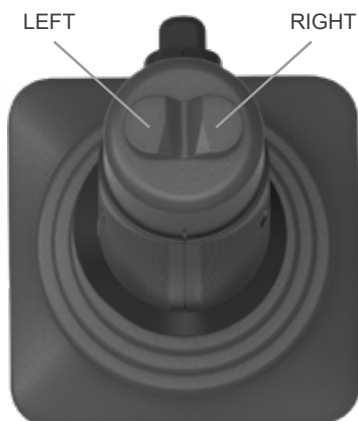
- 1 Axis
- Dead man's switch
- 2 Push buttons

P/N	Pkg Q.ty
1099062 42-0192-0000	1



INSTALLATION

- Recommended panel thickness: 3 - 7mm.
- Fixing screws: M6 (L= panel thickness + 9mm).
- Tightening torque 5Nm.



“TM” CHOPPERS

TRACTION MODULE



No matter the vehicle size and working height, same traction module for the same range of vehicle



Powerful and compact traction module



Main functions are adjustable through internal parameters



Diagnosis function for electrical motor and harness



Designed & manufactured by COBO

“TM” CHOPPERS

TRACTION MODULE

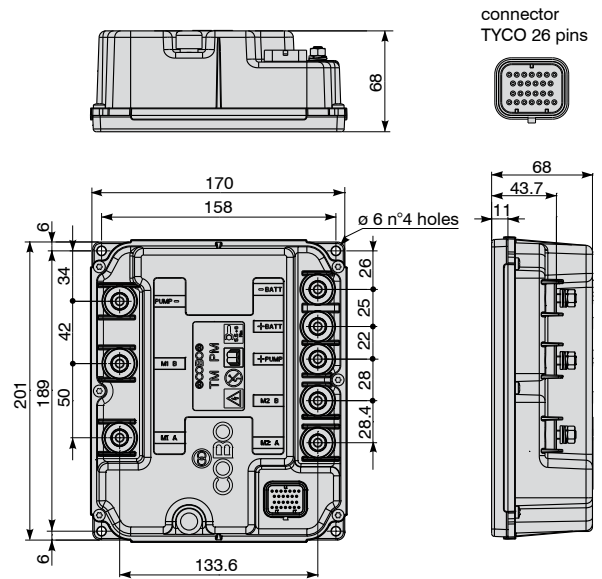
TM 1 plus GP

P/N	Pkg Q.ty
1091431 40-0032-0000	1

TECHNICAL SPECIFICATIONS

Power supply	24V
Regulation	EN12895 / EN1175
Operating temperature	-40°C ÷ +40°C
Sealing degree	IP65
Dimensions	170mm x 201mm x 68mm
Connector	AMPSEAL 26 pins
Traction motors	DC brushed
Pump motors	DC brushed
Power output	5
Digital output	3
Battery voltage	14,5 - 32V
Pump nominal current (1h) [Arms]	90
Traction nominal current (1h) [Arms]	70 + 70
Pump max current (2 min) [Arms]	200
Traction max current (2 min) [Arms]	150 + 150

Traction motors: DC brushed
Pump motors: DC brushed



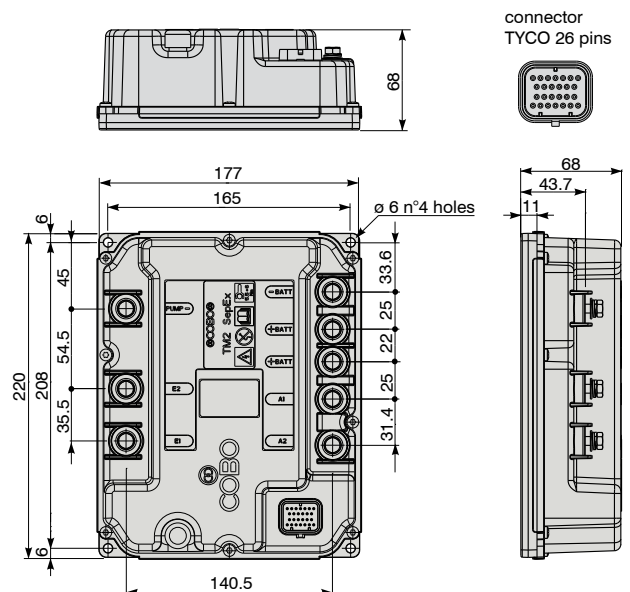
TM 2 GP

P/N	Pkg Q.ty
1091433 40-0034-0000	1

TECHNICAL SPECIFICATIONS

Power supply	24V
Regulation	EN12895 / EN1175
Operating temperature	-40°C ÷ +40°C
Sealing degree	IP65
Dimensions	177mm x 220mm x 68mm
Connector	AMPSEAL 26 pins
Traction motors	SepEx
Pump motors	DC brushed
Power output	5
Digital output	3
Battery voltage	14,5 - 32V
Pump nominal current (1h) [Arms]	125
Traction nominal current (1h) [Arms]	70 + 70
Pump max current (2 min) [Arms]	275
Traction max current (2 min) [Arms]	180 + 180
Maximum excitation current [Arms]	40

Traction motors: SepEx
Pump motors: DC brushed



“TM” 1 plus GP / 2 GP CHOPPERS

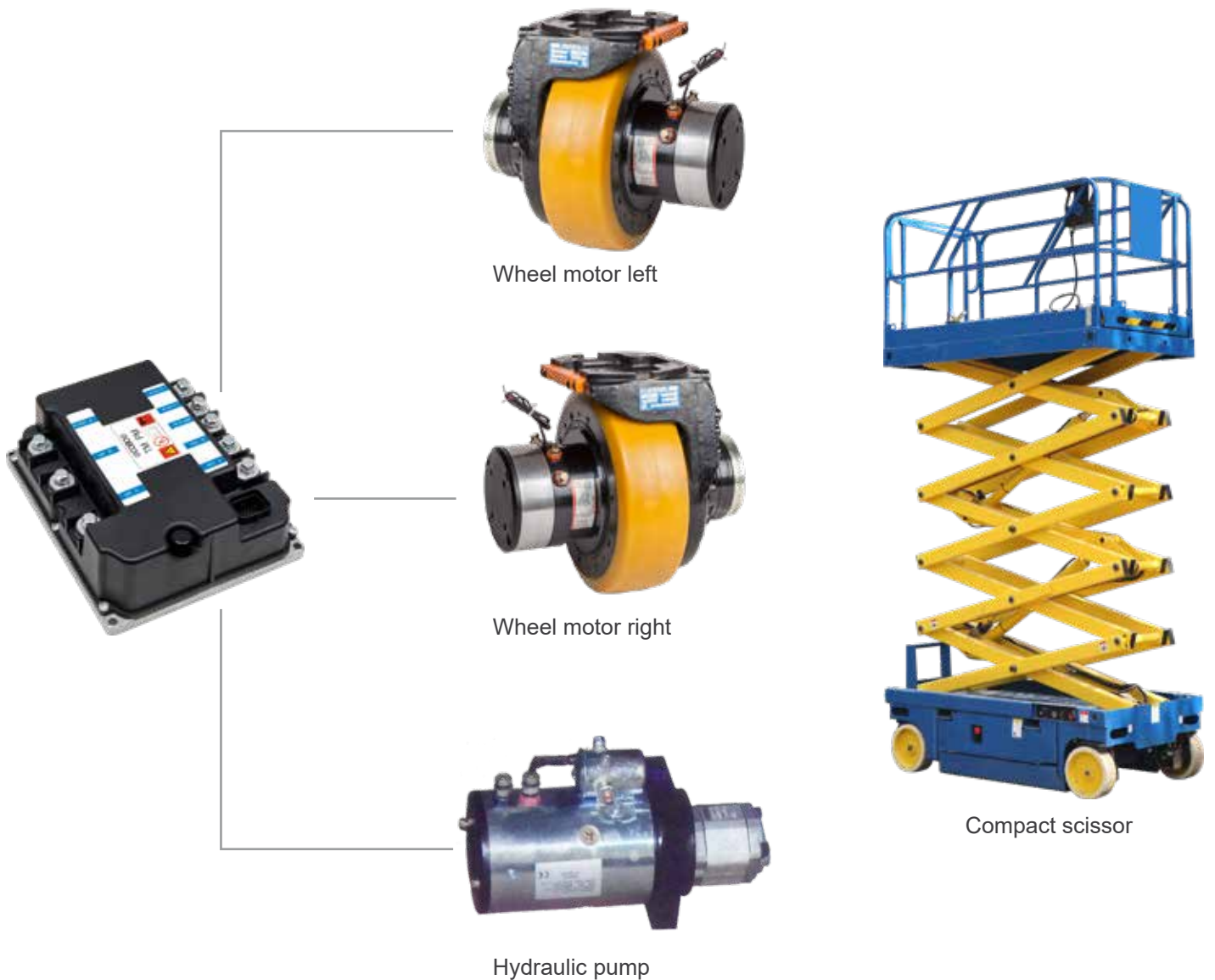
TRACTION MODULE

APPLICATIONS

Designed to manage 2 traction motors 24V + hydraulic pump motor 24V

Typical application field: indoor AWP or compact scissors

Slave configuration, all of commands via CAN



“TM” CHOPPERS

TRACTION MODULE

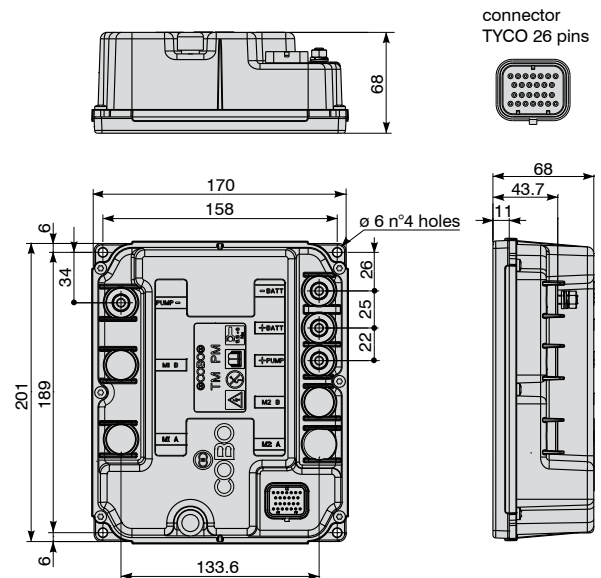
TM 3 GP

P/N	Pkg Q.ty
1091432 40-0033-0000	1

TECHNICAL SPECIFICATIONS

Power supply	24V
Regulation	EN12895 / EN1175
Operating temperature	-40°C ÷ +40°C
Sealing degree	IP65
Dimensions	170mm x 201mm x 68mm
Connector	AMPSEAL 26 pins
Pump motors	DC brushed or series
Power output	2
Digital output	3
Battery voltage	14,5 - 32V
Pump nominal current (1h) [Arms]	125
Pump max current (2 min) [Arms]	275

Pump motors: DC brushed or series



APPLICATIONS

Hydraulic pump motor 24V (DC permanent magnet or series)

Typical application field: indoor AWP or compact scissors

Slave configuration, all of commands via CAN



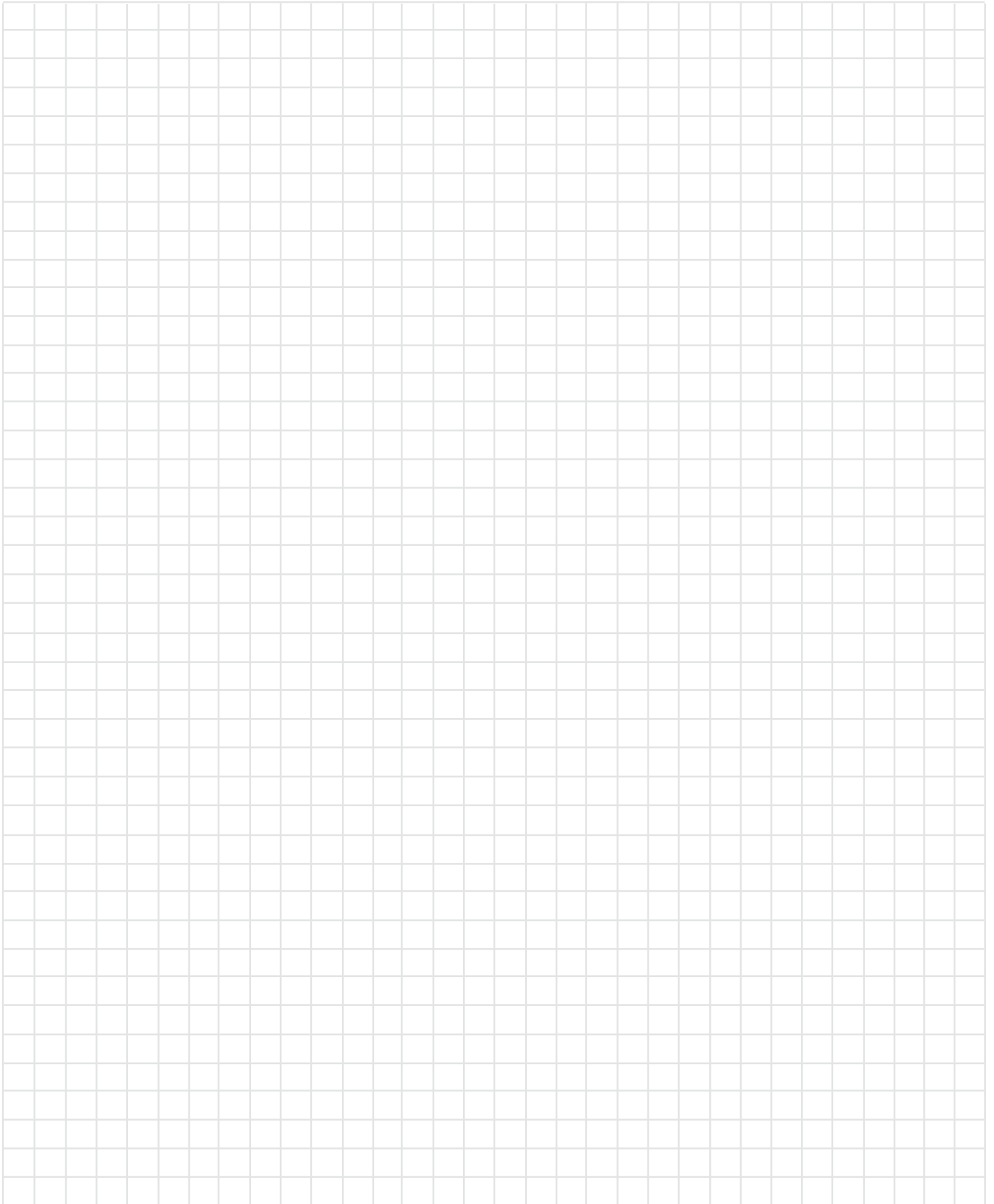
Hydraulic pump



Compact scissor



Note / Notes



A large grid area for taking notes, consisting of a 20x20 grid of small squares. The grid is empty and occupies most of the page below the header and section title.

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