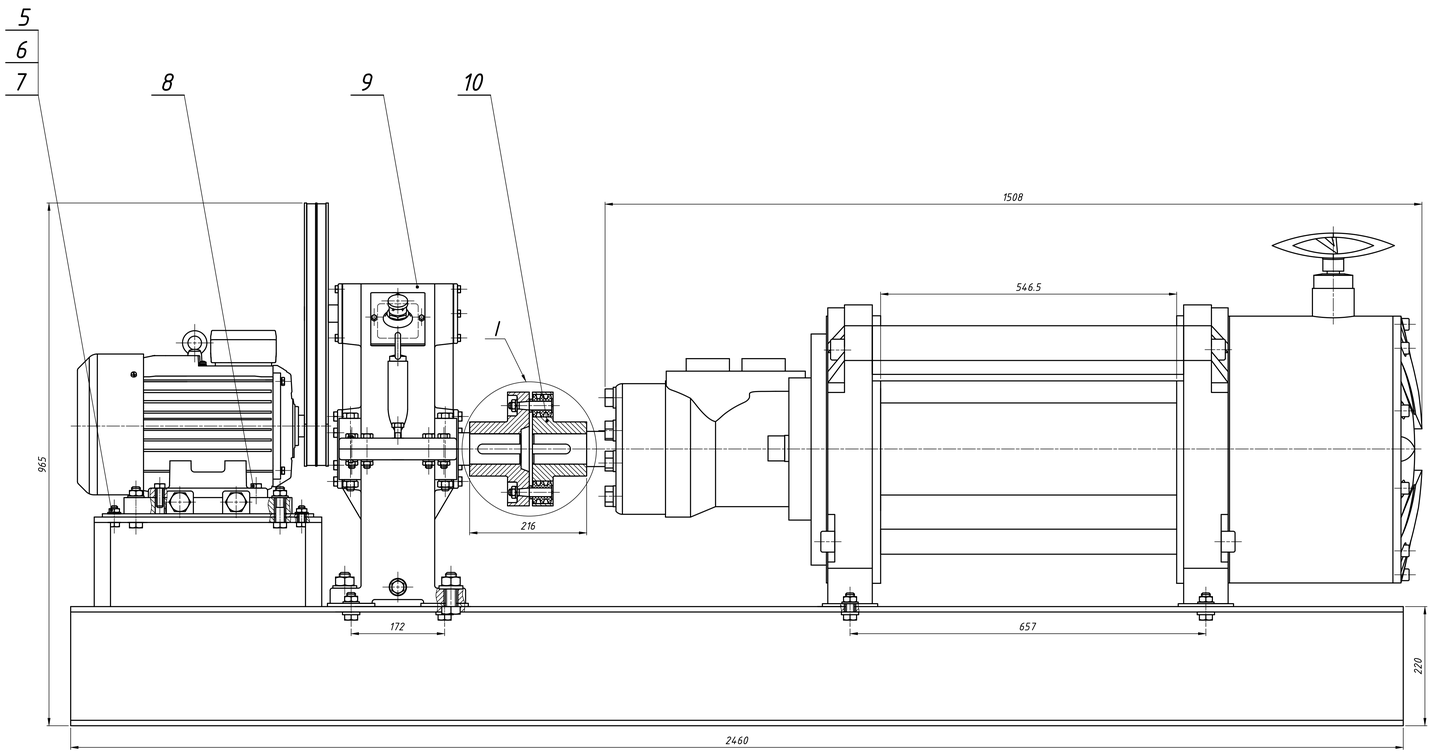
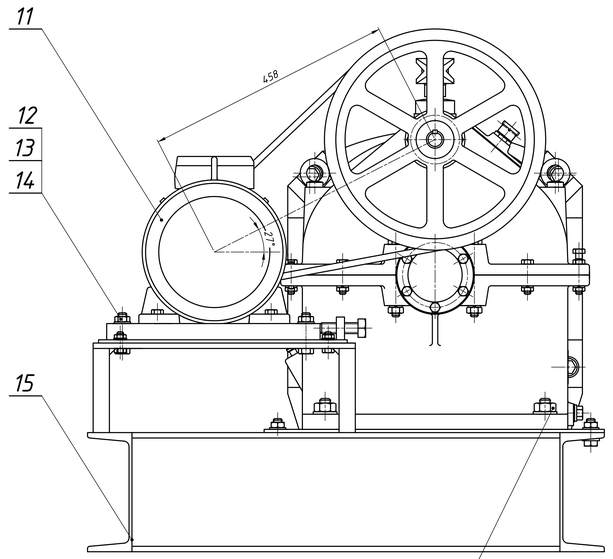
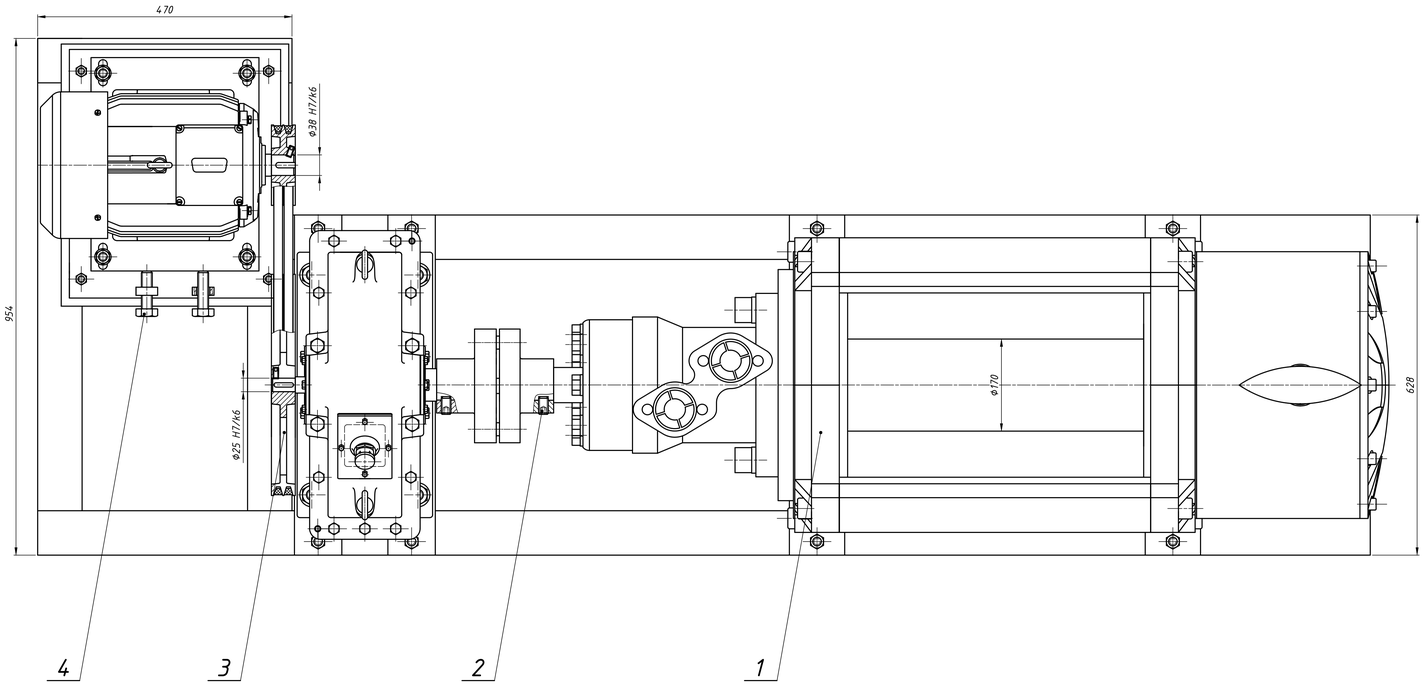
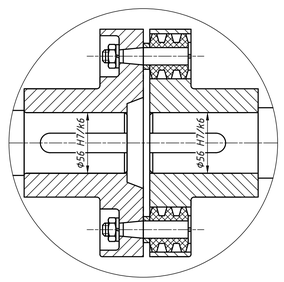






1
Scale 1:2



SYSTEM'S TECHNICAL SPECIFICATION

	Motor	First shaft	Second shaft	Winch
Power (kW)	3.38	3.18	3.06	2.94
Speed (rpm)	965	323.55	40.44	40.44
Speed ratio	2.98	8		1
Torque (Nm)	33.45	93.86	722.63	694.29

TECHNICAL REQUIREMENTS:

1. The belt should be replaced after 752 hours.
2. The welded platform should be straightened after welding.

No.	Symbol	Name	Q.ty	Material	Notation
18	90180A672	Hex bolts M20x2.5	4	Steel	MCMaster-Carr
17	90592A050	Hex nuts M20x2.5	4	Steel	MCMaster-Carr
16	98689A121	Flat washers M20	4	Steel	MCMaster-Carr
15	C1-005	Welded platform	1	Steel	Workshop
14	RSCB16	Hex bolts M16x2	12	Steel	Misumi
13	SLBNR16	Hex nuts M16x2	12	Steel	Misumi
12	PWF16	Flat washers M16	12	Steel	Misumi
11	SG132M-4	132M Motor	1		SGA
10	C1-004	Flexible Coupling	1	Steel	Workshop
9	C1-003	Gearbox	1	GX15-32	Workshop
8	RSCB16	Hex bolts M16x2	4	Steel	Misumi
7	RSCB12	Hex bolts M12x1.75	4	Steel	Misumi
6	SLBNR12	Hex nuts M12x1.75	4	Steel	Misumi
5	PWF12	Flat washers M12	4	Steel	Misumi
4	91310A889	Hex bolts M20	2	Steel	MCMaster-Carr
3	C1-002	V-belt system	1		Workshop
2	SSHSTM1830	Set screw M18	2	Steel	SUNCO
1	C1-001	Winch roller	1		Workshop

DESIGN OF A TRANSMISSION SYSTEM FOR THE TOWING WINCH

TRANSMISSION PROJECT

Func.	Full name	Sign.	Date
Design	D.L.Minh		
	D.T.Quy		
Instruct.	T.T.Phuc		
Approve			

TRANSMISSION SYSTEM DRAWING

Q.ty	Weight	Scale
1		1:4
Sheet: 4		Total sheet: 4

HCMC University of Technology
Mechanical Engineering Faculty