

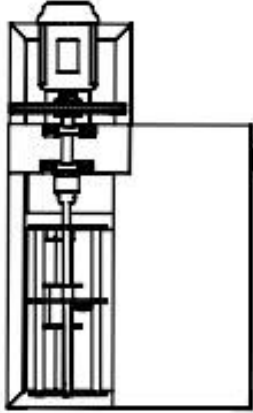
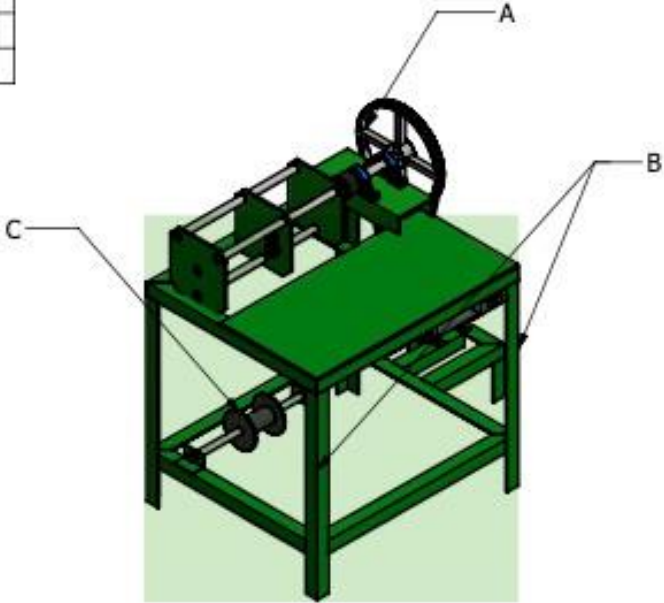
LAMPIRAN

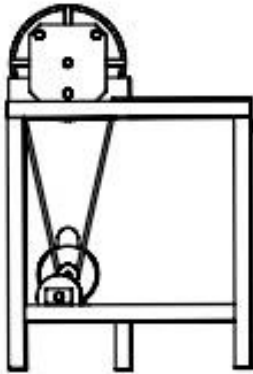
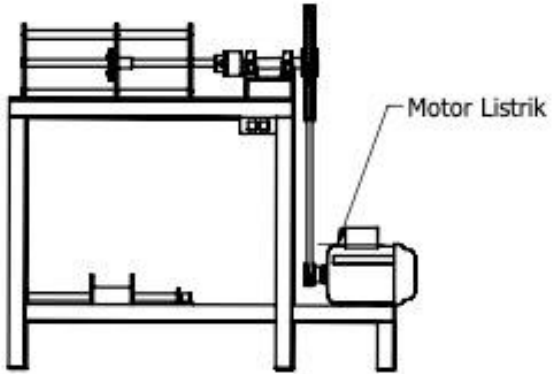
Lampiran 1. Jadwal kegiatan penelitian


No.	Nama Kegiatan	Bulan ke-						Keterangan
		4	5	6	7	8	9	
1.	Studi Litelatur							UNUGHA
2.	Observasi							Kabupaten Cilacap
3.	Penyusunan Proposal Penelitian							FTI UNUGHA
4.	Seminar proposal							FTI UNUGHA
4.	Pengujian Mesin pengerol kawat galvanis menggunakan pelumas WD-40							Laboratorium Konversi Energi dan perancangan mesin FTI UNUGHA
5.	Penyusunan Karya Ilmiah Tugas Akhir							FTI UNUGHA
6.	Seminar hasil penelitian							UNUGHA
7.	Laporan Penelitian							UNUGHA

Lampiran 2. Disain mesin pengerol kawat galvanis

PART LIST		
NO	CODE	PART NAME
1	A	Komponen Mesin
2	B	Rangka Mesin
3	C	Gulungan Kawat

1	Mesin Pengerol Kawat Pemberat Jala	1	Mild Steel	700 x 600 x 660	-		
Qty	Description	Item	Material	Dim/Dwg.No.	Rem/Seat No.		
SN 258440 - Middle		Dwn 01.06.2023	Ziad A.	Scale	Hard. HRc	Item	Operation
Nom.	0.5 >6 >30 >120 >400 >1000 6 30 120 400 1000 2000	Chk 11.07.2023	Christian S.	1:15	±	-	<input checked="" type="checkbox"/>
Tol.±	0.1 0.2 0.3 0.5 0.8 1.2	Val 11.07.2023	Yunus A.R.	Title : MESIN Pengerol Kawat Pemberat Jala			
R1	RNo.	Date	Name	Detail of : FTI - UNUGHA CILACAP			
—	—	—	—	Assy.			Dwg No. 1/20
Origin :		Register :					

Lampiran 3. Tabel Data Pengamatan

**TABEL DATA PENGAMATAN MESIN Pengerol Kawat
PEMBERAT JALA**

1. Check sheet pengujian komponen mesin

No	Proses	Visualisasi/Cek
1	Mempersiapkan mesin pengerol kawat pemberat jala dalam kondisi siap uji setelah dirakit	
2	Menghubungkan arus listrik AC 220 V	
3	Pastikan tombol dalam keadaan OFF dan dapat beroperasi ketika tombol di ON	
4	Kondisikan pengerol sudah terpasang pada chuck bor	
5	Kondisikan kawat sudah terpasang pada rangka bagian bawah dengan baik	

2. Pengujian mesin pengerol kawat pemberat jala

No	Proses	Visualisasi/Cek
1	Mempersiapkan alat bantu yaitu tang potong yang digunakan untuk mempermudah proses pemotongan setelah proses pengerolan	
2	Mempersiapkan material yang akan dilakukan proses pengerolan (kawat galvanis berdiameter 2 mm) dan mempersiapkan pelumas WD 40 untuk proses spraying terhadap kawat	
3	Pastikan pengerol sudah tercekam pada chuck bor dan kencangkan	
4	Kencangkan baut penyangga pada plat pengerol depan yang berfungsi untuk menjaga	

	pengerol tetap stabil dalam berputar ketika mesin beroperasi	
5	Pastikan kawat terpasang pada pengerol dengan benar dan pastikan posisi kawat melewati roller agar hasil pengerolan maksimal	
6	Nyalakan mesin dengan menekan tombol ON pada saklar	
7	Kawat galvanis dapat dilakukan pengerolan dengan bentuk spiral dan seragam	
8	Spray kawat menggunakan WD 40 ketika proses pengerolan berlangsung dengan jarak 15 cm	

3. Data uji hasil pengerolan

No	Diameter	Waktu Pengerolan			Berat Hasil Pengerolan		
		I	II	III	I	II	III
1	14 mm						
2	16 mm						
3	18 mm						

4. Waktu rata rata pengerolan

$$\text{Waktu rata-rata pengerolan} = \frac{\text{waktu pengerolan 1,2,3}}{3}$$

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5. Berat rata-rata pengerolan

$$\text{Berat rata-rata pengerolan} = \frac{\text{Berat hasil pengerolan 1,2,3}}{3}$$

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6. Waktu produksi

$$\text{Waktu produksi} = \left(\frac{\text{waktu yang diinginkan}}{\text{waktu pengerolan}} \right) \times \text{berat hasil pengerolan}$$

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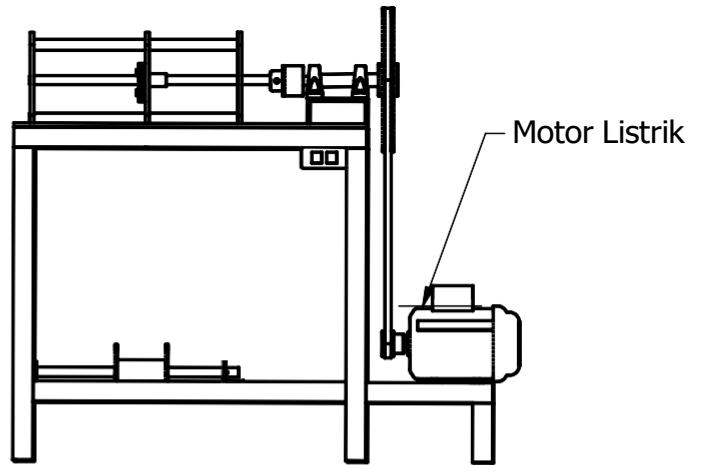
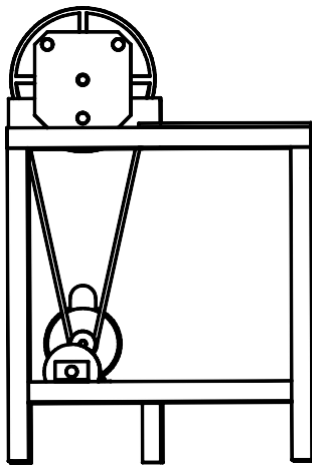
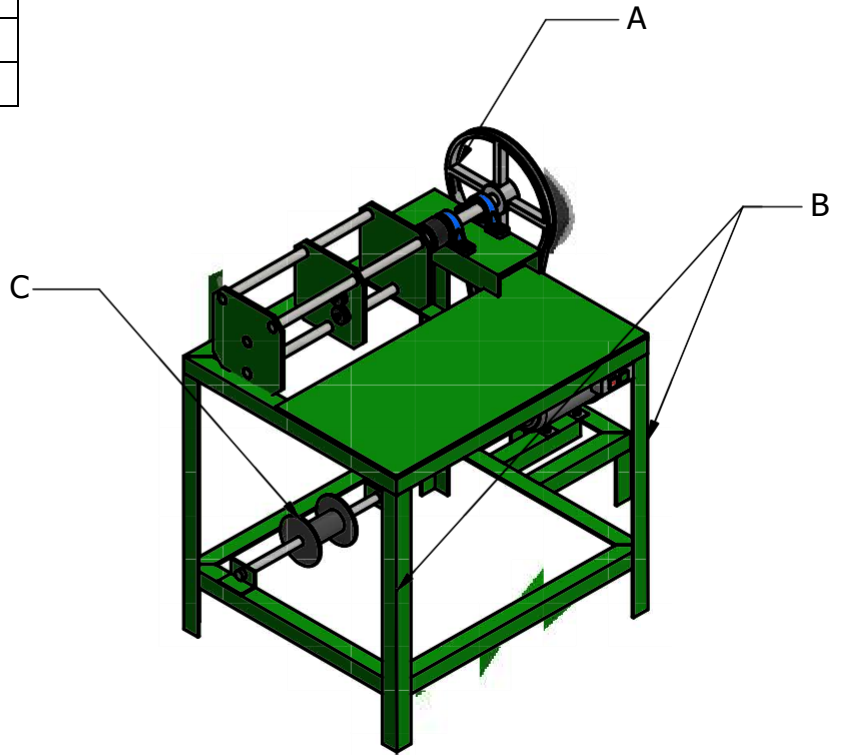
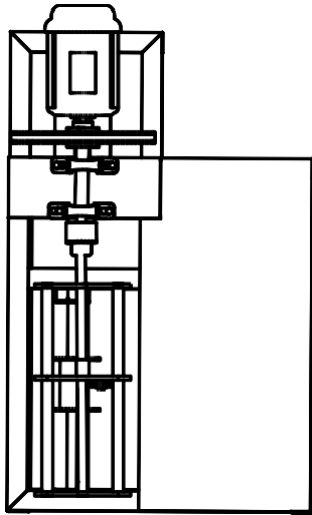
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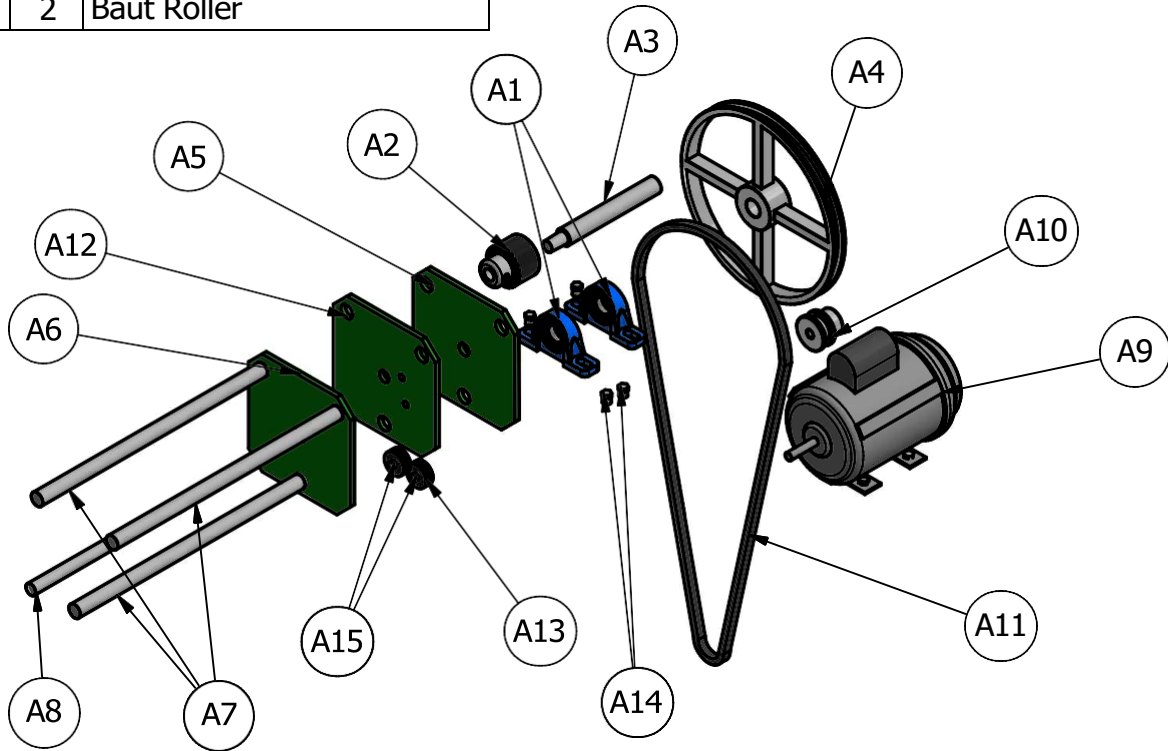
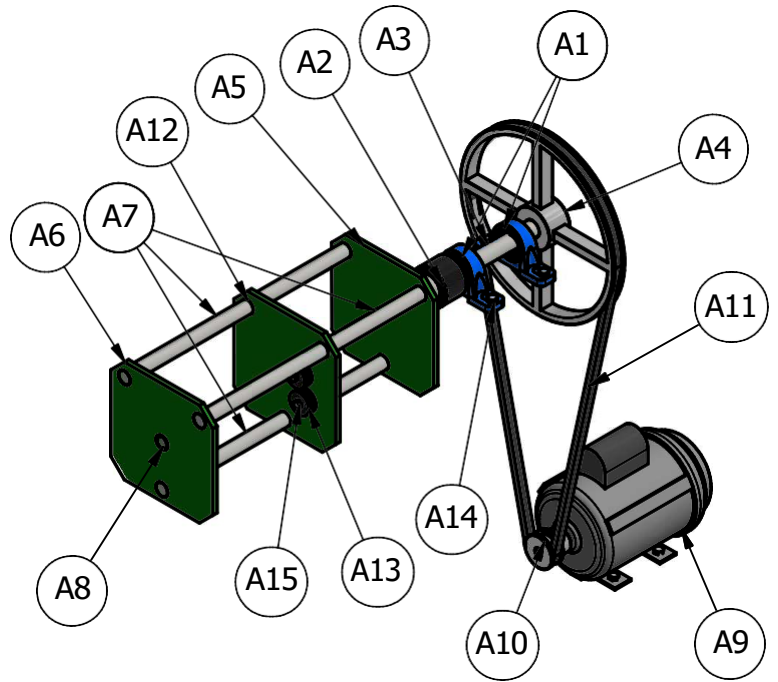
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PART LIST		
NO	CODE	PART NAME
1	A	Komponen Mesin
2	B	Rangka Mesin
3	C	Gulungan Kawat

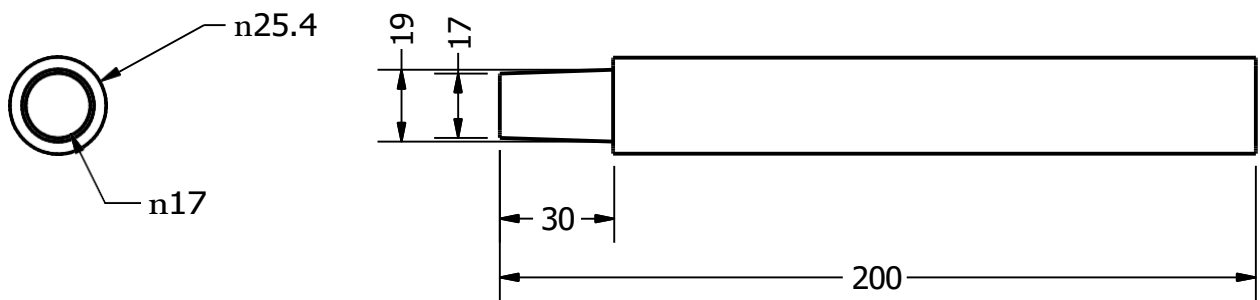


1	Mesin Pengerol Kawat Pemberat Jala	1	Mild Steel	700 x 600 x 660	-						
Qty	Description	Item	Material	Dim/Dwg.No.	Rem/Seat No.						
SN 258440 - Middle		Dwn 01.06.2023 Ziad A.	Scale	Hard. Hrc	Item	Operation					
Nom.	0.5 6	>6 30	>30 120	>120 400	>400 1000	>1000 2000	Chk 11.07.2023 Christian S.	1:15	_±_	-	✓
Tol.±	0.1	0.2	0.3	0.5	0.8	1.2	Val 11.07.2023 Yunus A.R.	Title : MESIN Pengerol Kawat Pemberat Jala			
R1	RNo.	Date	Name	Detail of : FTI - UNUGHA CILACAP							
_____	_____	____.____.____	_____	 PROGRAM STUDI TEKNIK MESIN FAKULTAS TEKNOLOGI INDUSTRI UNIVERSITAS NAHDLATUL ULAMA AL-GHAZALI CILACAP		Assy.		Dwg No. 1/20			
Origin : _____				Register : _____							

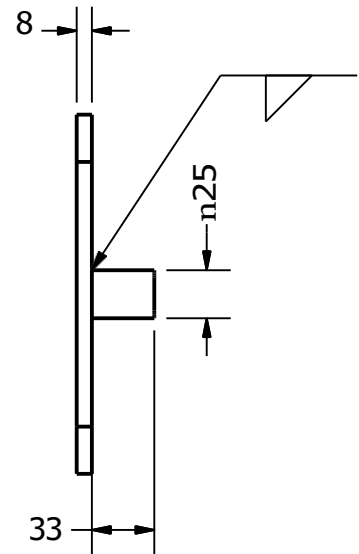
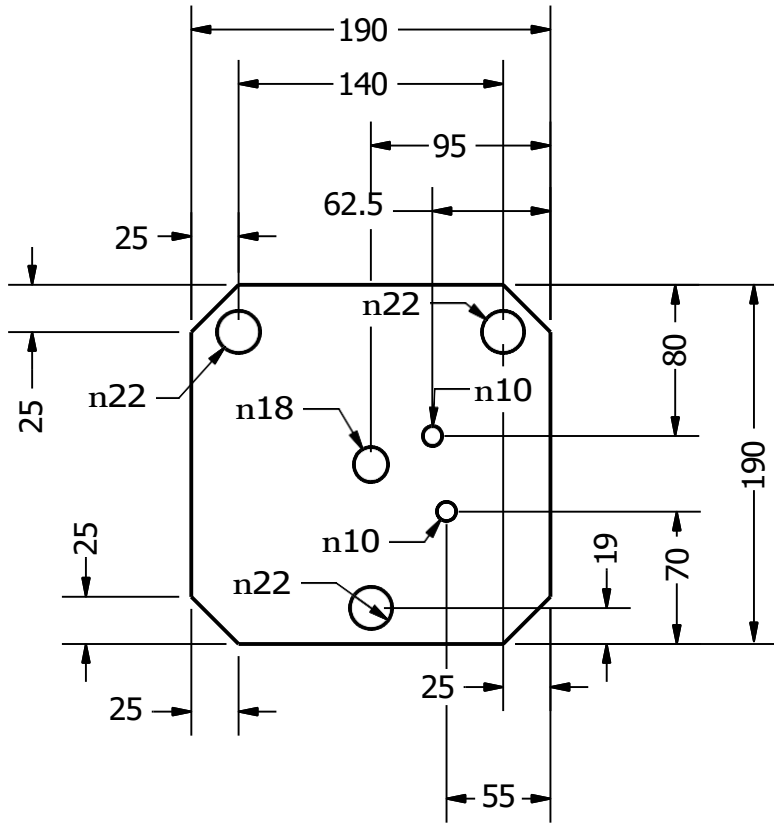
PARTS LIST		
CODE	QTY	DESCRIPTION
A1	2	Bearing & House
A2	1	Chuck Bor
A3	1	Shaft Chuck Bor
A4	1	Pulley Driven
A5	1	Plat Pengerol Belakang
A6	1	Plat Pengerol Depan
A7	3	Rel Pengerol
A8	1	Pengerol
A9	1	Motor Listrik
A10	1	Pulley Driver
A11	1	Sabuk
A12	1	Plat Pengerol Tengah
A13	2	Roller
A14	4	Baut House Bearing
A15	2	Baut Roller



1	Komponen Mesin					1	-	-	-			
Qty	Description					Item	Material	Dim/Dwg.No.	Rem/Seat No.			
SN 258440 - Middle						Dwn 01.06.2023	Ziad A.	Scale	Hard. HRC	Item	Operation	
Nom.	0.5	>6	>30	>120	>400	>1000	Chk 11.07.2023	Christian S.	1:10	±	-	✓
	6	30	120	400	1000	2000	Val 11.07.2023	Yunus A.R.				
Tol.±	0.1	0.2	0.3	0.5	0.8	1.2	Title : KOMPONEN MESIN PENEROL KAWAT PEMBERAT JALA (1/5)					
R1	RNo.	Date	Name	Detail of : FTI - UNUGHA CILACAP								
_____	_____	_____	_____	 PROGRAM STUDI TEKNIK MESIN FAKULTAS TEKNOLOGI INDUSTRI UNIVERSITAS NAHDLATUL ULAMA AL-GHAZALI CILACAP				Assy.		Dwg No. 2/20		
Origin :	_____					Register :	_____					



1	Poros Chuck Bor					A3	ST - 37	-	-	
Qty	Description					Item	Material	Dim/Dwg.No.	Rem/Seat No.	
SN 258440 - Middle						Dwn 01.06.2023 Ziad A.	Scale	Hard. HRc	Item	Operation
Nom.	0.5 6	>6 30	>30 120	>120 400	>400 1000	>1000 2000	1:2	_±_	-	
Chk						11.07.2023 Christian S.				
Val						11.07.2023 Yunus A.R.				
Tol.±	0.1	0.2	0.3	0.5	0.8	1.2	Title : KOMPONEN MESIN PENGEROL KAWAT PEMBERAT JALA (2/5)			
R1	RNo.	Date	Name			Detail of : FTI - UNUGHA CILACAP				
___	___	___	___			Assy.				
___	___	___	___			Dwg No. 3/20				
___	___	___	___			  <small>PROGRAM STUDI TEKNIK MESIN FAKULTAS TEKNOLOGI INDUSTRI UNIVERSITAS NAHDLATUL ULAMA AL GHAZALI CILACAP</small>				
Origin :	___					Register :	___			

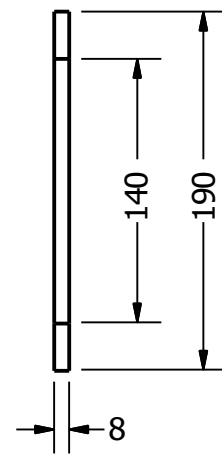
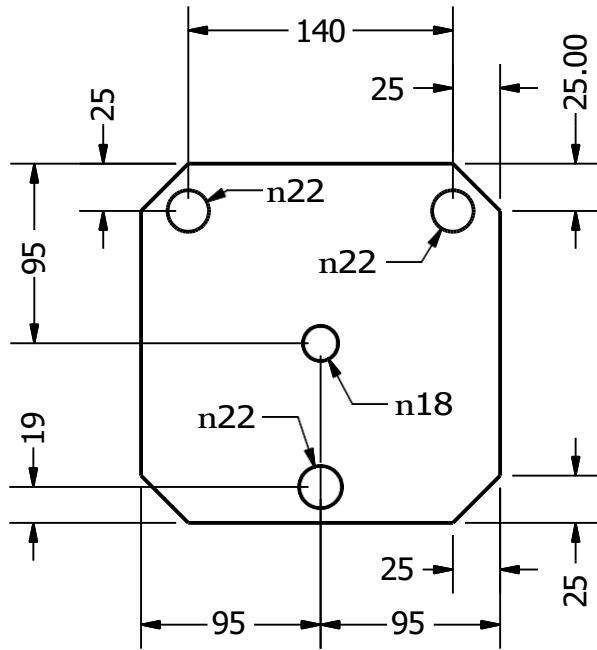


1	Plat Pengerol Tengah	A12	ST - 37	190 x 190	-	
Qty	Description	Item	Material	Dim/Dwg.No.	Rem/Seat No.	
SN 258440 - Middle		Dwn 01.06.2023 Ziad A.	Scale	Hard. HRC	Item	
Nom.	0.5 6	>6 30	>30 120	>120 400	>400 1000	>1000 2000
Tol.±	0.1	0.2	0.3	0.5	0.8	1.2
R1 RNo. Date Name		Title : KOMPONEN MESIN Pengerol Kawat Pemberat Jala (3/5)				
Detail of :		FTI - UNUGHA CILACAP				
Origin : _____		Register : _____		Assy.	Dwg No. 4/20	



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AL-GHAZALI CILACAP



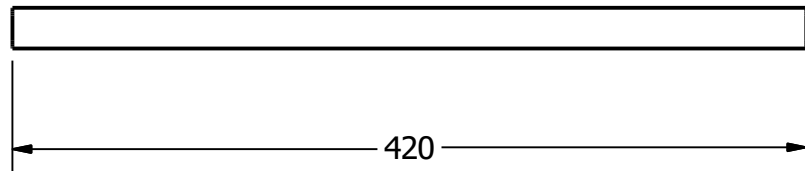
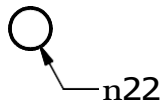


2	Plat Pengerol Depan & Belakang	A5 & A6	ST - 37	190 x 190	-	
Qty	Description	Item	Material	Dim/Dwg.No.	Rem/Seat No.	
SN 258440 - Middle		Dwn 01.06.2023 Ziad A.	Scale	Hard. HRc	Item	
Nom.	0.5 6	>6 30	>30 120	>120 400	>400 1000	>1000 2000
Tol.±	0.1	0.2	0.3	0.5	0.8	1.2
R1		RNo.	Date	Name		
___		___	___	___		
___		___	___	___		
___		___	___	___		
___		___	___	___		
Origin :		Register :		Assy.		Dwg No.
___		___		___		5/20

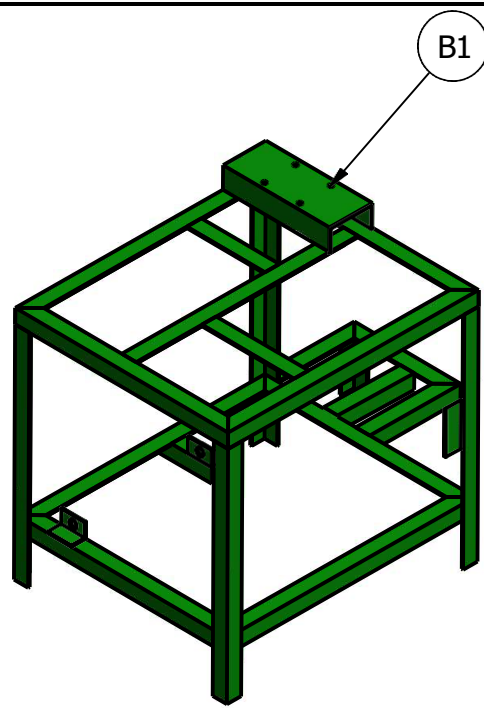
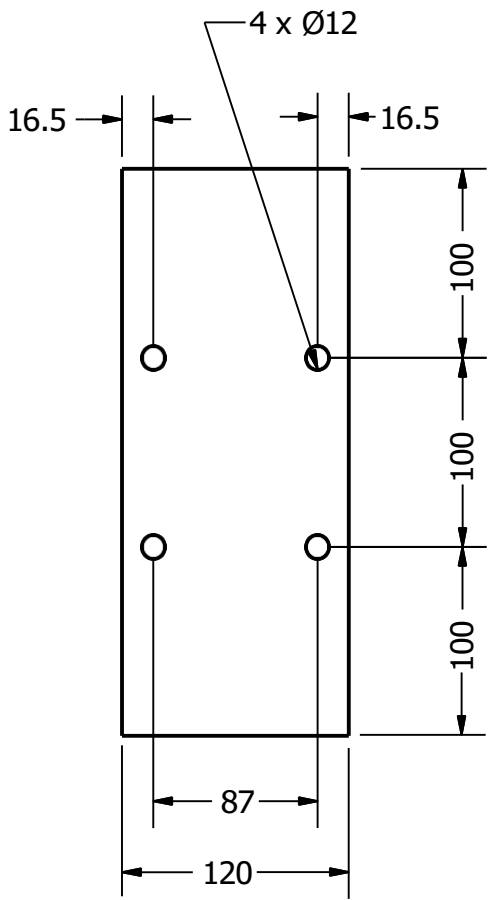


PROGRAM STUDI TEKNIK MESIN
FAKULTAS TEKNOLOGI INDUSTRI
UNIVERSITAS NAHDLATUL ULAMA
AL-GHAZALI CILACAP

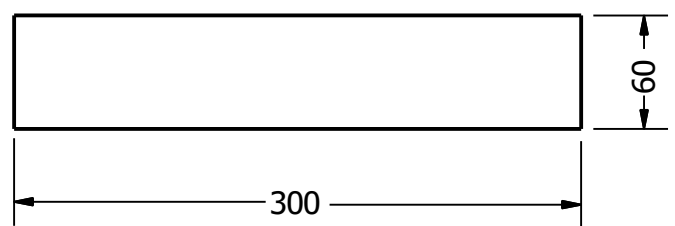
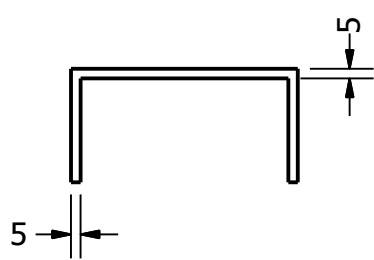




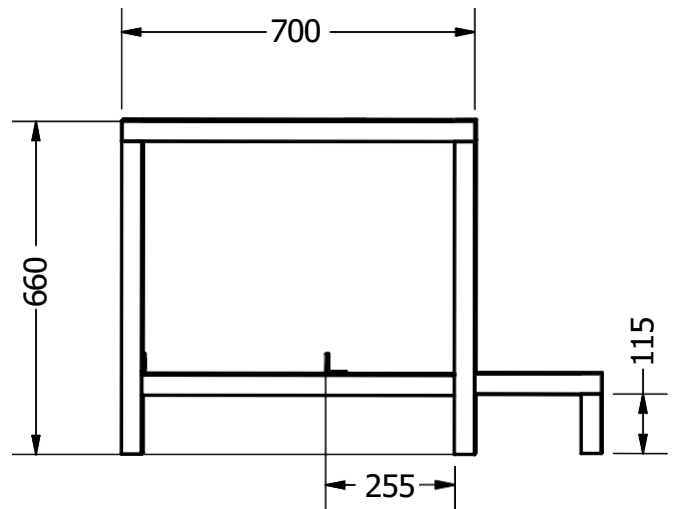
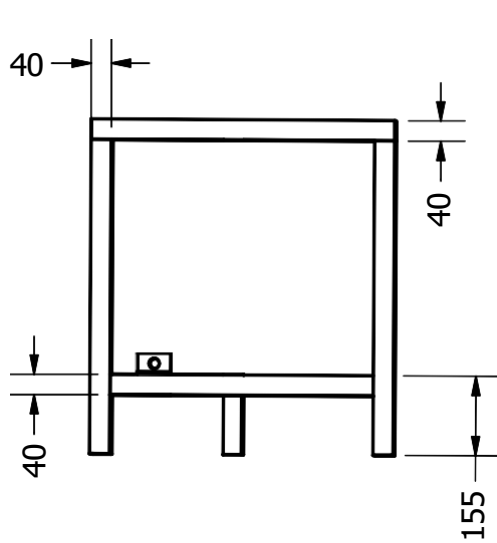
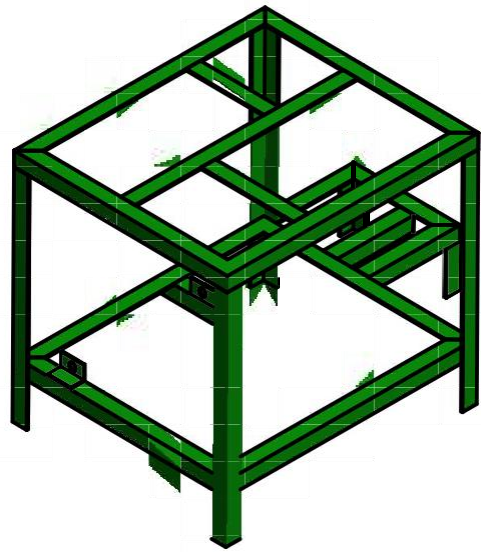
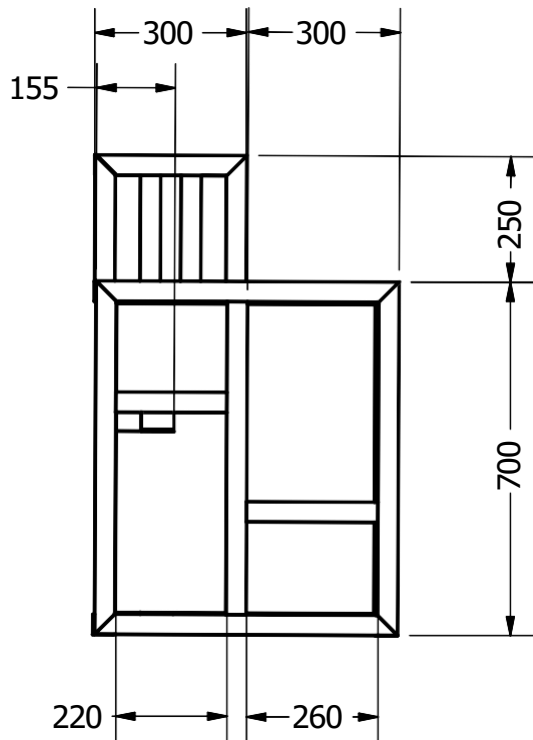
3	Rel Pengerol						A7	ST - 37	Ø 22 x 420	-	
Qty	Description						Item	Material	Dim/Dwg.No.	Rem/Seat No.	
SN 258440 - Middle							Dwn 01.06.2023 Ziad A.	Scale	Hard. HRc	Item	Operation
Nom.	0.5 6	>6 30	>30 120	>120 400	>400 1000	>1000 2000	Chk 11.07.2023 Christian S. Val 11.07.2023 Yunus A.R.	1:4	_±_	-	
Tol.±	0.1	0.2	0.3	0.5	0.8	1.2	Title : KOMPONEN MESIN Pengerol Kawat Pemberat Jala (5/5)				
R1	RNo.	Date	Name		Detail of : FTI - UNUGHA CILACAP						
___	___	___	___		 PROGRAM STUDI TEKNIK MESIN FAKULTAS TEKNOLOGI INDUSTRI UNIVERSITAS NAHDLATUL ULAMA AL-GHAZALI CILACAP						
Origin : _____							Register : _____				Dwg No. 6/20



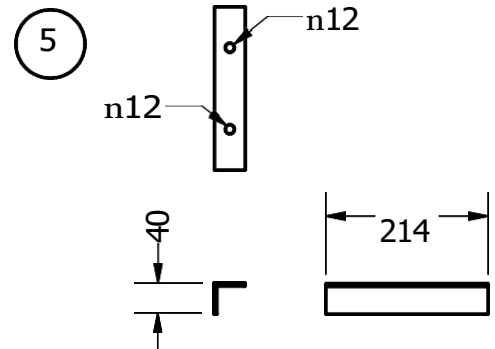
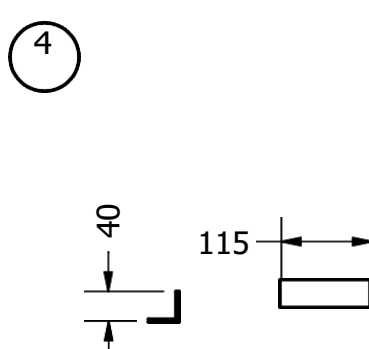
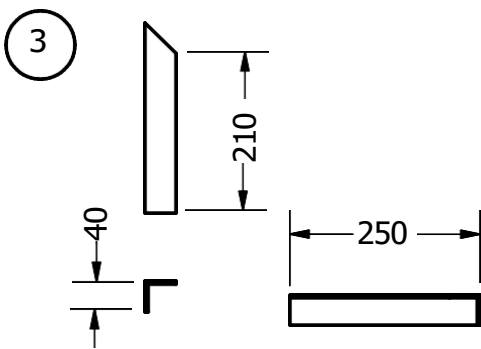
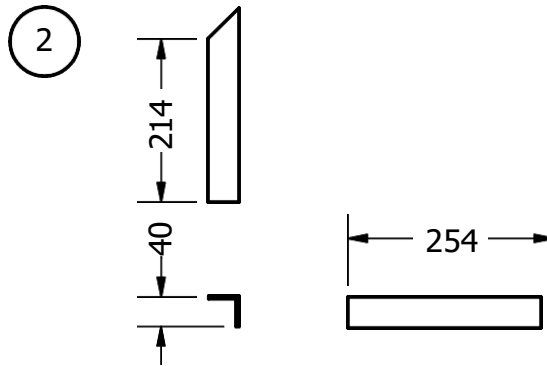
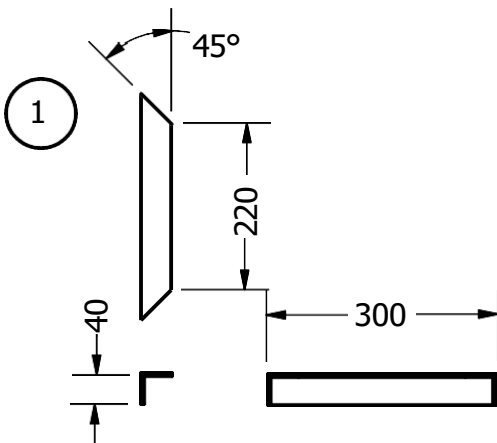
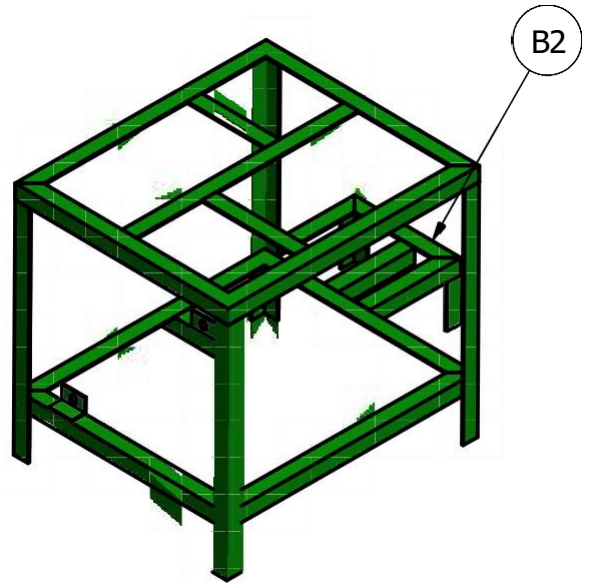
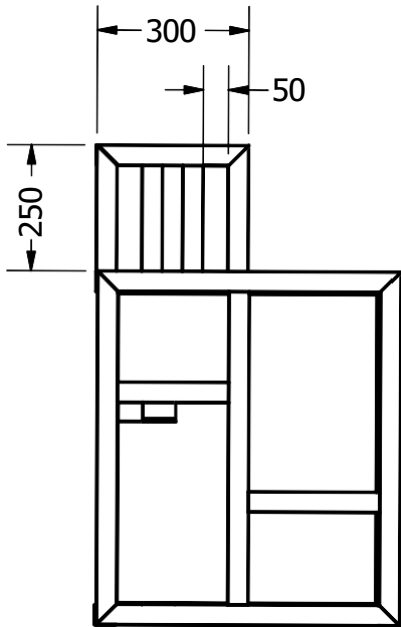
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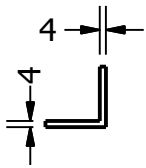
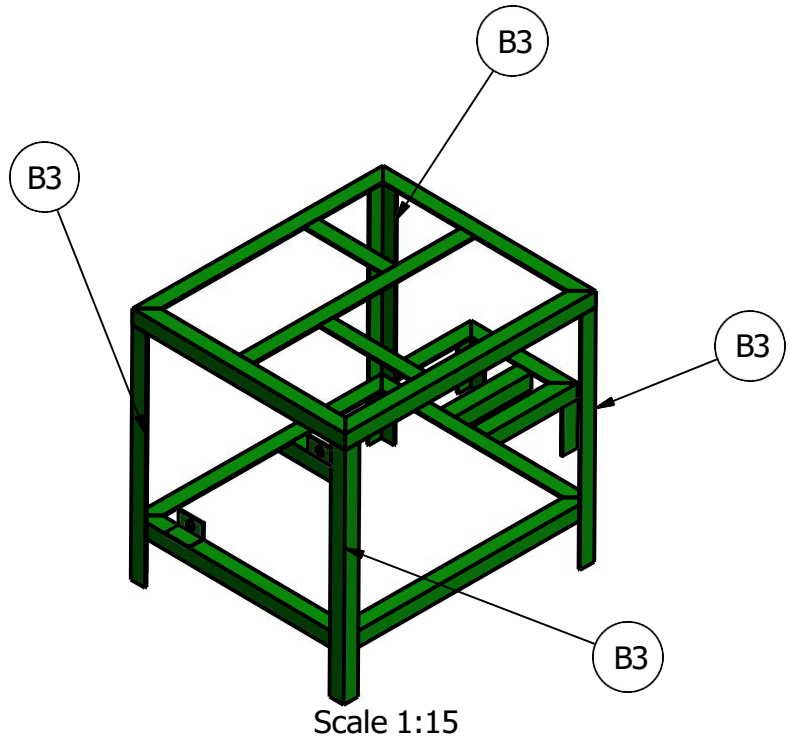
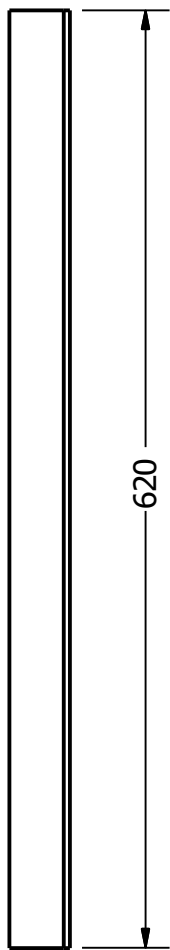
1	Dudukan Chuck Bor	1	ST - 37	300 x 120 x 60	-	
Qty	Description	Item	Material	Dim/Dwg.No.	Rem/Seat No.	
SN 258440 - Middle		Dwn 01.06.2023 Ziad A.	Scale	Hard. HRc	Item	
Nom.	0.5 6	>6 30	>30 120	>120 400	>400 1000	>1000 2000
Tol.±	0.1	0.2	0.3	0.5	0.8	1.2
R1 RNo. Date Name		Title : DUDUKAN CHUCK BOR				
Detail of :		FTI - UNUGHA CILACAP				
		PROGRAM STUDI TEKNIK MESIN FAKULTAS TEKNOLOGI INDUSTRI UNIVERSITAS NAHDLATUL ULAMA AL GHAZALI CILACAP	Assy.		Dwg No. 7/20	
Origin :		Register :				



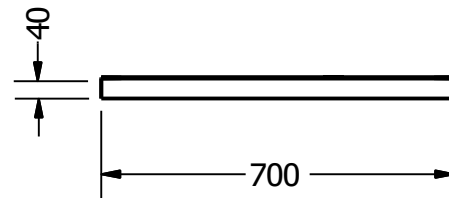
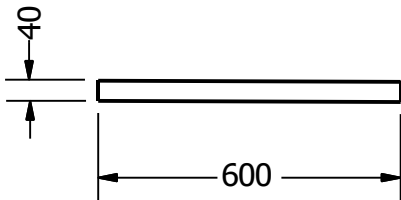
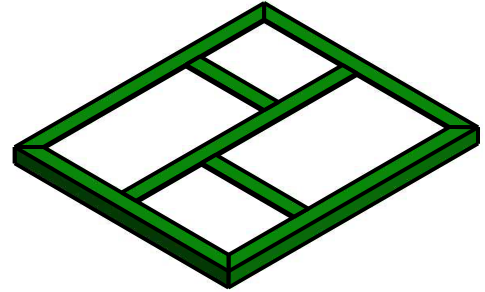
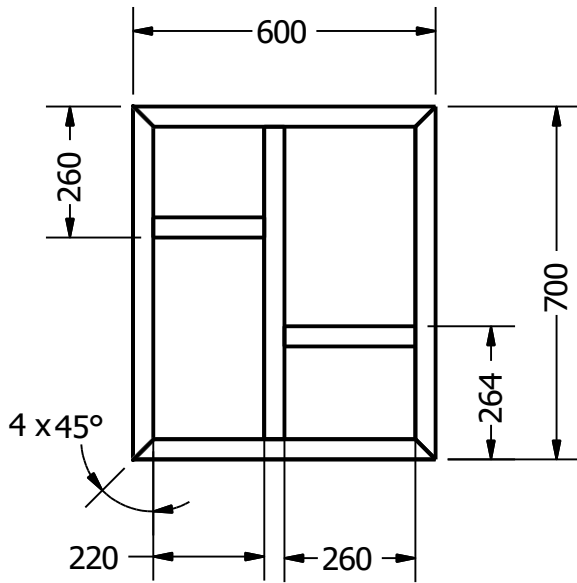
1	Rangka Mesin	1	Besi L ST-37	700 x 600 x 660	-						
Qty	Description	Item	Material	Dim/Dwg.No.	Rem/Seat No.						
SN 258440 - Middle		Dwn 01.06.2023 Ziad A.	Scale	Hard. HRc	Item	Operation					
Nom.	0.5 6	>6 30	>30 120	>120 400	>400 1000	>1000 2000	Chk 11.07.2023 Christian S.	1:15	_±_	-	✓
Tol.±	0.1	0.2	0.3	0.5	0.8	1.2	Val 11.07.2023 Yunus A.R.	Title : RANGKA MESIN PENGEROL KAWAT PEMBERAT JALA (1/10)			
RI	RNo.	Date	Name	Detail of : FTI - UNUGHA CILACAP							
				Assy.			Dwg No. 8/20				
Origin : _____				Register : _____							



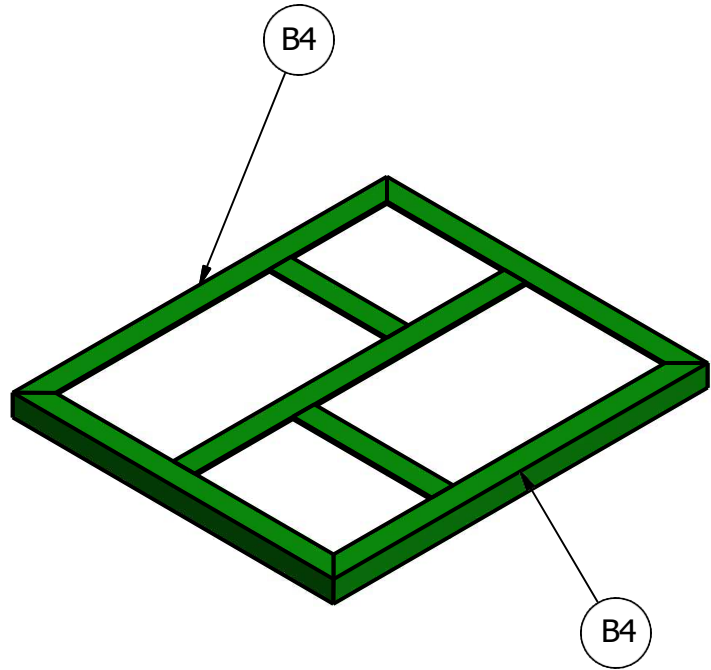
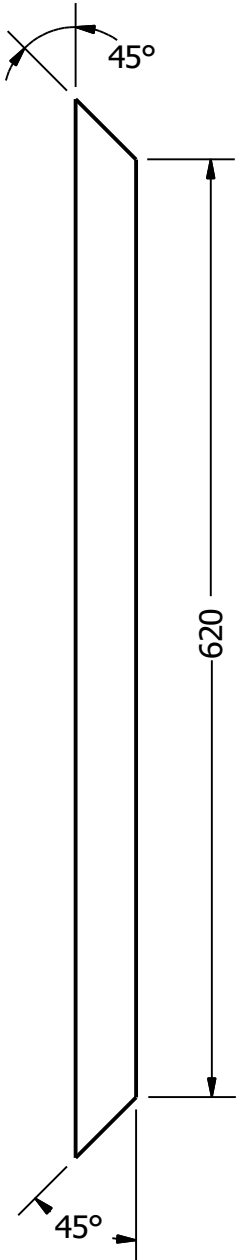
4	Rangka Dudukan Motor	B2	Besi L ST-37	300 x 250								
Qty	Description	Item	Material	Dim/Dwg.No.	Rem/Seat No.							
SN 258440 - Middle		Dwn 01.06.2023	Ziad A.	Scale	Hard. HRC	Item	Operation					
Nom.	0.5 6	>6 30	>30 120	>120 400	>400 1000	>1000 2000	Chk 11.07.2023 Val 11.07.2023	Christian S. Yunus A.R.	1:5	±	-	✓
Tol.±	0.1	0.2	0.3	0.3	0.8	1.2	Title : RANGKA MESIN PENGEROL KAWAT PEMBERAT JALA (2/10)					
RI	RNo.	Date	Name	Detail of : FTI - UNUGHA CILACAP								
				Assy.		Dwg No. 9/20						
Origin : _____				Register : _____								



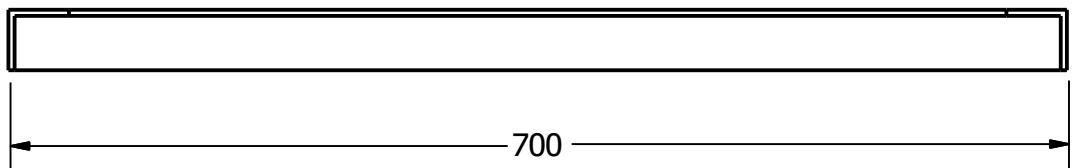
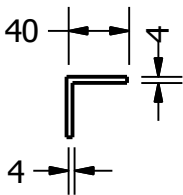
4	Rangka Atas	B3	Besi L ST-37	620 x 40	-						
Qty	Description	Item	Material	Dim/Dwg.No.	Rem/Seat No.						
SN 258440 - Middle		Dwn 01.06.2023 Ziad A.	Scale	Hard. HRc	Item	Operation					
Nom.	0.5 6	>6 30	>30 120	>120 400	>400 1000	>1000 2000	Chk 11.07.2023 Christian S. Val 11.07.2023 Yunus A.R.	1:5	_±_	-	
Tol.±	0.1	0.2	0.3	0.3	0.8	1.2	Title : RANGKA MESIN PENGROL KAWAT PEMBERAT JALA (2/10)				
RI	RNo.	Date	Name	Detail of : FTI - UNUGHA CILACAP							
___	___	___	___			Assy.			Dwg No. 10/20		
Origin : _____			Register : _____								



1	Rangka Atas	1	Besi L ST-37	700 X 600	-							
Qty	Description	Item	Material	Dim/Dwg.No.	Rem/Seat No.							
SN 258440 - Middle		Dwn 01.06.2023	Ziad A.	Scale	Hard. HRc	Item	Operation					
Nom.	0.5 6	>6 30	>30 120	>120 400	>400 1000	>1000 2000	Chk 11.07.2023 Val 11.07.2023	Christian S. Yunus A.R.	1:15	_±_	-	
Tol.±	0.1	0.2	0.3	0.3	0.8	1.2	Title : RANGKA MESIN PENGROL KAWAT PEMBERAT JALA (3/10)					
RI	RNo.	Date	Name	Detail of : FTI - UNUGHA CILACAP								
___	___	___	___			PROGRAM STUDI TEKNIK MESIN FAKULTAS TEKNOLOGI INDUSTRI UNIVERSITAS NAHDLATUL ULAMA AL GHAZALI CILACAP	Assy.		Dwg No. 11/20			
Origin : _____				Register : _____								



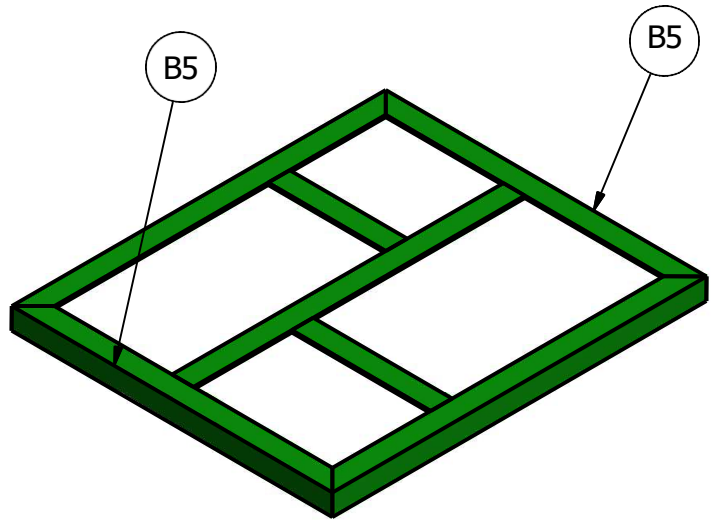
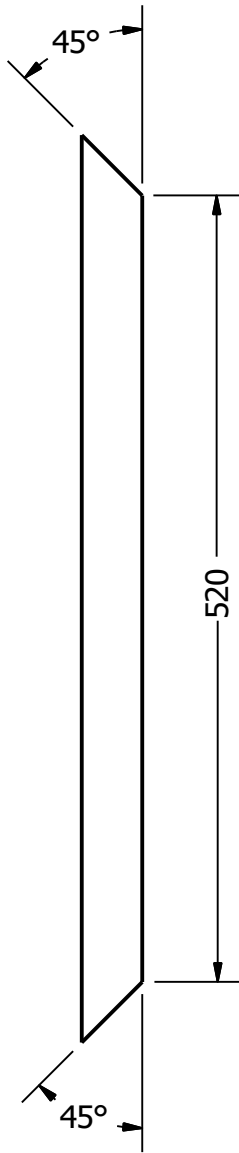
Scale 1:10



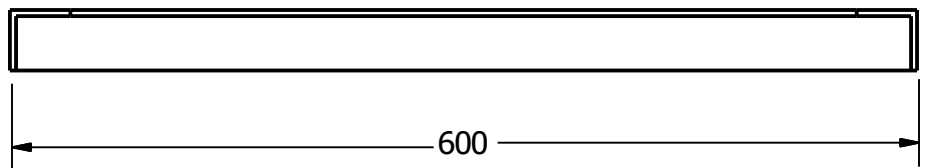
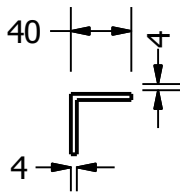
2	Rangka Atas	B4	ST - 37	700 x 40	-	
Qty	Description	Item	Material	Dim/Dwg No.	Rem/Seat No.	
SN 258440 - Middle		Dwn 01.06.2023 Ziad A.	Scale	Hard. HRc	Item	Operation
Nom.	0.5 6	>6 30	>30 120	>120 400	>400 1000	>1000 2000
Chk	11.07.2023	Christian S.	1:5	_±_	-	<input checked="" type="checkbox"/>
Val	11.07.2023	Yunus A.R.	Title : RANGKA MESIN PENGROL KAWAT PEMBERAT JALA (4/10)			
Tol.±	0.1	0.2	0.3	0.5	0.8	1.2
RI	RNo.	Date	Name	Detail of : FTI - UNUGHA CILACAP		
___	___	__-__-__	___	Assy.	Dwg No.	
___	___	__-__-__	___		12/20	
___	___	__-__-__	___			
___	___	__-__-__	___			
Origin :	Register :					



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AL-GHAZALI CILACAP

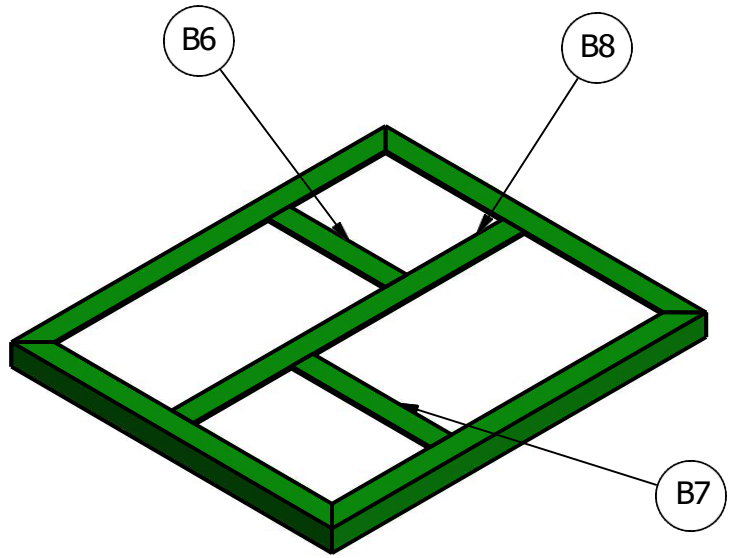


Scale 1:10



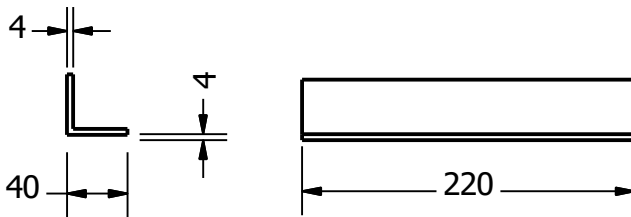
2	Rangka Atas	B5	ST - 37	600 x 40	-							
Qty	Description	Item	Material	Dim/Dwg No.	Rem/Seat No.							
SN 258440 - Middle		Dwn 01.06.2023	Ziad A.	Scale	Hard. HRc	Item	Operation					
Nom.	0.5 6	>6 30	>30 120	>120 400	>400 1000	>1000 2000	Chk 11.07.2023 Val 11.07.2023	Christian S. Yunus A.R.	1:5	_±_	-	<input checked="" type="checkbox"/>
Tol.±	0.1	0.2	0.3	0.5	0.8	1.2	Title : RANGKA MESIN PENGEROL KAWAT PEMBERAT JALA (5/10)					
RI	RNo.	Date	Name	Detail of : FTI - UNUGHA CILACAP								
_____	_____	_____*_*_*_	_____		PROGRAM STUDI TEKNIK MESIN FAKULTAS TEKNOLOGI INDUSTRI UNIVERSITAS NAHDLATUL ULAMA AL GHAZALI CILACAP	Assy.		Dwg No. 13/20				
Origin : _____			Register : _____									

PART LIST		
NO	CODE	DIMENSION
1	B6	220 x 40
2	B7	260 x 40
3	B8	620 x 40

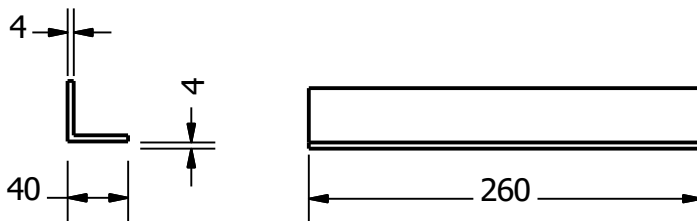


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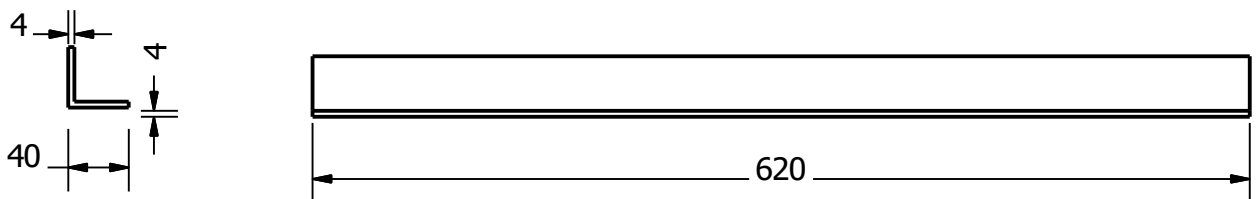
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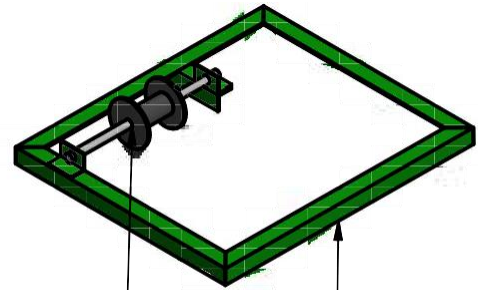
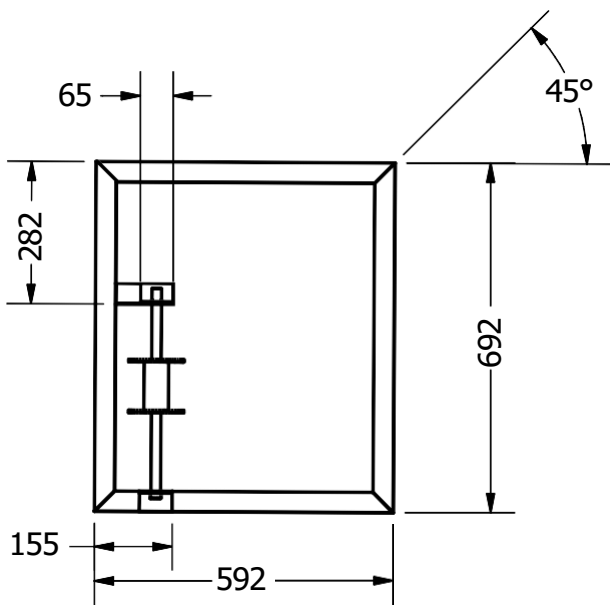
2



3

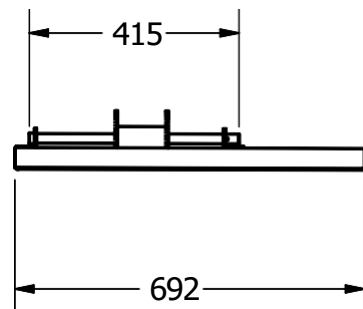
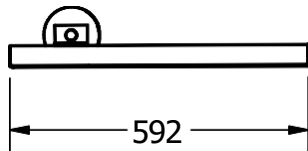


1	Rangka Atas	B6 - B8	ST - 37	-	-
Qty	Description	Item	Material	Dim/Dwg No.	Rem/Seat No.
SN 258440 - Middle		Dwn 01.06.2023 Ziad A.	Scale 1:5	Hard. HRC \pm	Item -
Nom.	0.5 >6 >30 >120 >400 >1000	Chk 11.07.2023 Christian S.	1:5	\pm	-
Fol.	1 6 30 120 400 1000 2000	Val 11.07.2023 Yunus A.R.			
RI	RNo. Date Name	Title : RANGKA MESIN PENGEROL KAWAT PEMBERAT JALA (6/10)			
Detail of :		FTI - UNUGHA CILACAP			
Origin :		Assy.			Dwg No. 14/20
Register :					

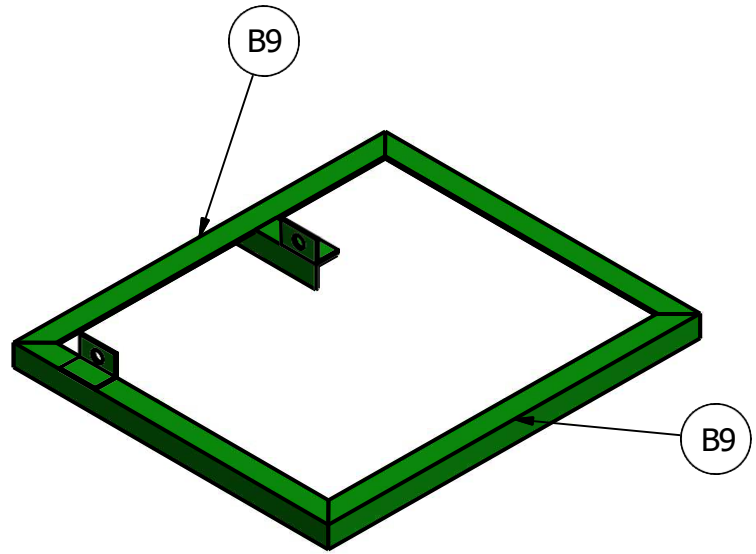
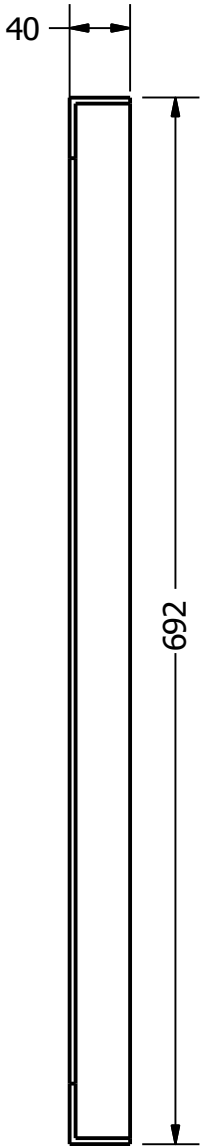


Gulungan Kawat

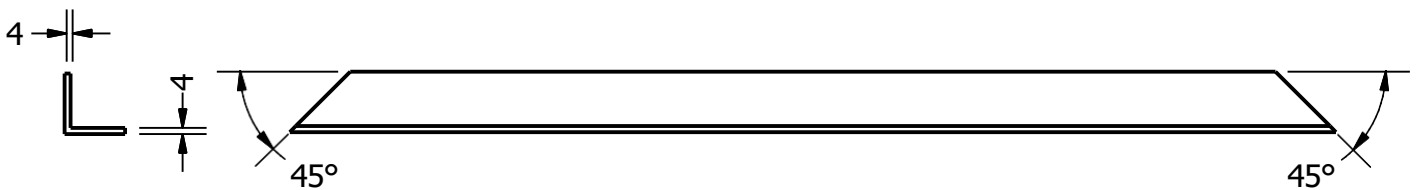
Rangka Bawah



1	Rangka Bawah	1	ST-37	692 x 592	-						
Qty	Description	Item	Material	Dim/Dwg.No.	Rem/Seat No.						
SN 258440 - Middle		Dwn 01.06.2023 Ziad A.	Scale	Hard. HRc	Item	Operation					
Nom.	0.5 6	>6 30	>30 120	>120 400	>400 1000	>1000 2000	Chk 11.07.2023 Christian S.	1:15	_±_	-	✓
Tol.±	0.1	0.2	0.3	0.5	0.8	1.2	Title : RANGKA MESIN PENGEROL KAWAT PEMBERAT JALA (7/10)				
R1	RNo.	Date	Name	Detail of : FTI - UNUGHA CILACAP							
_____	_____	____.____.____	_____	 PROGRAM STUDI TEKNIK MESIN FAKULTAS TEKNOLOGI INDUSTRI UNIVERSITAS NAHDLATUL ULAMA AL-GHAZALI CILACAP			Assy.			Dwg No. 15/20	
Origin : _____				Register : _____							



Scale 1:10

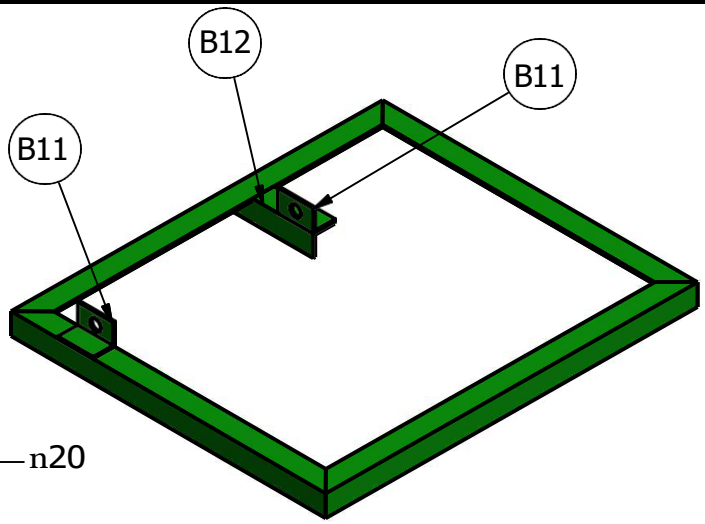
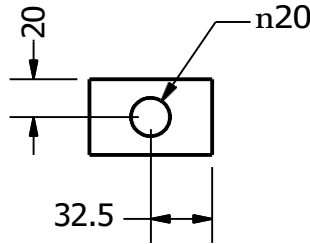
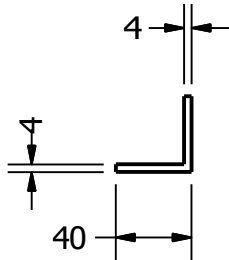
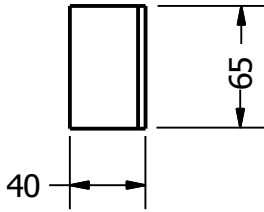


2	Rangka Bawah	B9	ST-37	692 x 40	-	
Qty	Description	Item	Material	Dim/Dwg.No.	Rem/Seat No.	
SN 258440 - Middle		Dwn 01.06.2023 Ziad A.	Scale	Hard. HRc	Item	Operation
Nom.	0.5 6	>6 30	>30 120	>120 400	>400 1000	>1000
Chk	11.07.2023	Christian S.	1:5	_±_	-	<input checked="" type="checkbox"/>
Val	11.07.2023	Yunus A.R.	Title : RANGKA MESIN PENGROL KAWAT PEMBERAT JALA (8/10)			
Tol.±	0.1	0.2	0.3	0.5	0.8	1.2
R1	RNo.	Date	Name	Detail of : FTI - UNUGHA CILACAP		
_____	_____	____.____.____	_____	Assy.	Dwg No.	
_____	_____	____.____.____	_____		16/20	
_____	_____	____.____.____	_____	Register :	_____	
Origin :	_____					



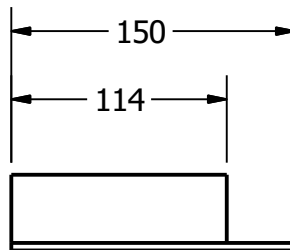
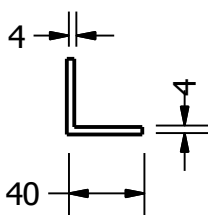
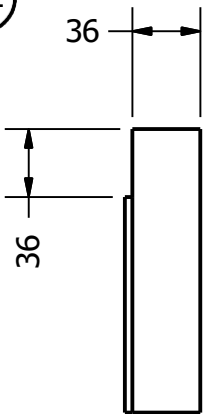
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B11



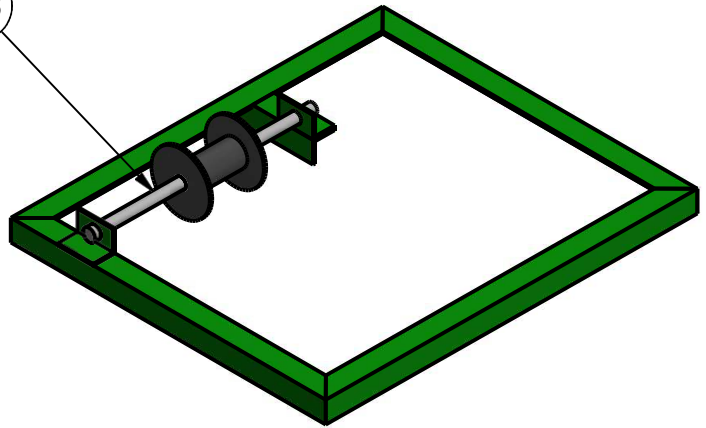
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B12

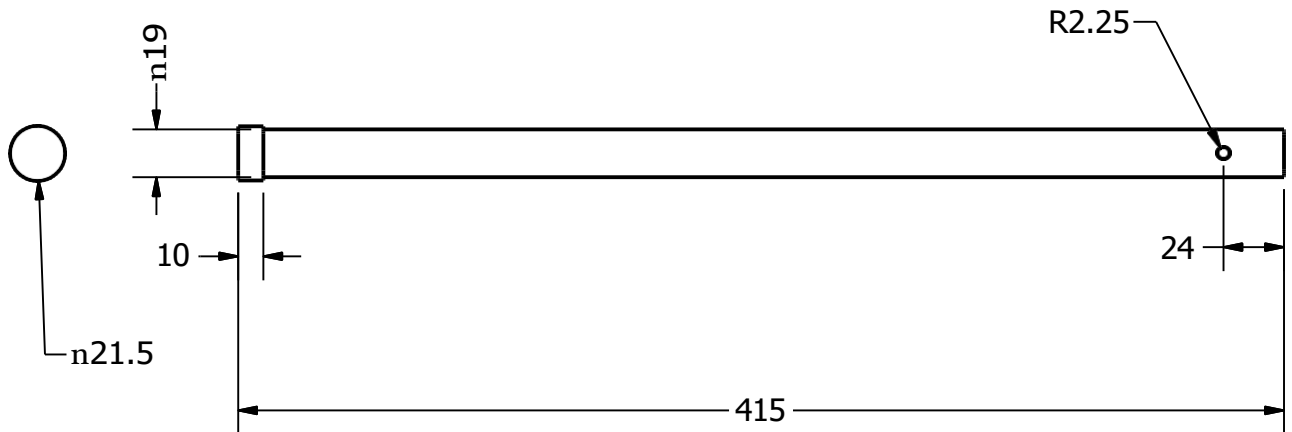


1	Dudukan Gulungan	B12	ST-37	150 x 40	-	
2	Dudukan Shaft Gulungan	B11	ST-37	65 x 40	-	
Qty	Description	Item	Material	Dim/Dwg.No.	Rem/Seat No.	
SN 258440 - Middle		Dwn 01.06.2023 Ziad A.	Scale	Hard. HRc	Item	
Nom.	0.5 6	>6 30	>30 120	>120 400	>400 1000	>1000 2000
Tol.±	0.1	0.2	0.3	0.5	0.8	1.2
R1 RNo. Date Name		Title : RANGKA MESIN PENGGEROL KAWAT PEMBERAT JALA (10/10)				
Detail of :		FTI - UNUGHA CILACAP				
Origin : _____		Register : _____		Assy.	Dwg No. 18/20	

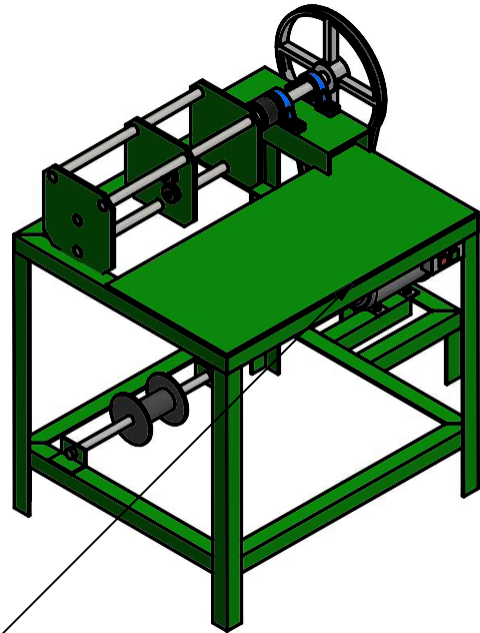
B13



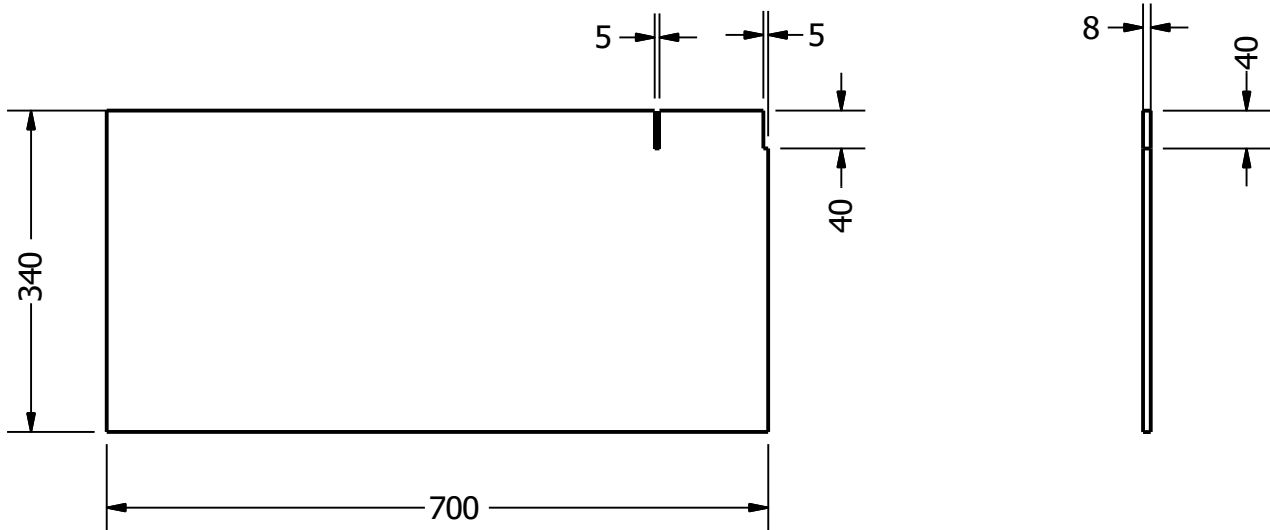
Scale 1:10



1	Shaft Gulungan	B12	ST-37	Ø 21.5 x 415	-	
Qty	Description	Item	Material	Dim/Dwg.No.	Rem/Seat No.	
SN 258440 - Middle		Dwn 01.06.2023 Ziad A.	Scale	Hard. HRc	Item	Operation
Nom.	0.5 6	>6 30	>30 120	>120 400	>400 1000	>1000 2000
Chk	11.07.2023	Christian S.	1:3	±	-	✓
Val	11.07.2023	Yunus A.R.	Title : SHAFT GULUNGAN KAWAT GALVANIS			
Tol.±	0.1	0.2	0.3	0.5	0.8	1.2
R1	RNo.	Date	Name	Detail of : FTI - UNUGHA CILACAP		
_____	_____	____.____.____	_____	Assy.		Dwg No. 19/20
_____	_____	____.____.____	_____			
_____	_____	____.____.____	_____	Register : _____		
Origin :	_____					



Plat Meja Mesin



1	Plat Meja Mesin	-	ST-37	700 x 340	-							
Qty	Description	Item	Material	Dim/Dwg.No.	Rem/Seat No.							
SN 258440 - Middle		Dwn 01.06.2023	Ziad A.	Scale	Hard. HRc	Item	Operation					
Nom.	0.5 6	>6 30	>30 120	>120 400	>400 1000	>1000 2000	Chk 11.07.2023 Val 11.07.2023	Christian S. Yunus A.R.	1:8	_±_	-	<input checked="" type="checkbox"/>
Tol.±	0.1	0.2	0.3	0.5	0.8	1.2	Tittle : PLAT MEJA MESIN					
R1	RNo.	Date	Name	Detail of : FTI - UNUGHA CILACAP								
_____	_____	____.____.____	_____			<small>PROGRAM STUDI TEKNIK MESIN FAKULTAS TEKNOLOGI INDUSTRI UNIVERSITAS NAHDLATUL ULAMA AL GHAZALI CILACAP</small>		Assy.			Dwg No. 20/20	
Origin : _____			Register : _____									

Lampiran 4. Hasil Perhitungan Pengerolan Kawat galvanis

Data Pengamatan Mesin Pengerol Kawat Pemberat Jala Dengan Pelumas

No	Diameter	Waktu Pengerolan			Berat Hasil Pengerolan			Waktu rata-rata pengerolan	Berat rata-rata pengerolan	Waktu produksi
		mm	I	II	III	I	II	III	Detik	Gram
1	14	33,31	33,12	33,29	185	184	187	33,24	185,3333	20,0722
2	16	31,83	31,81	31,35	209	211	210	31,66333	210	23,8762
3	18	31,11	31,75	31,61	240	242	241	31,49	241	27,5516
								Kapasitas (Kg/jam)	23,83333	

Data Pengamatan Mesin Pengerol Kawat Pemberat Jala Tanpa Pelumas

No	Diameter	Waktu Pengerolan			Berat Hasil Pengerolan			Waktu rata-rata pengerolan	Berat rata-rata pengerolan	Waktu produksi
		mm	I	II	III	I	II	III	Detik	Gram
1	14	32,51	32,01	31,55	180	180	181	32,02333	180,3333	20,27272
2	16	29,97	30,63	30,3	200	202	201	30,3	201	23,88119
3	18	30,29	30,01	30,27	238	237	237	30,19	237,3333	28,30076
								Kapasitas (Kg/jam)	24,15156	