

**LAMPIRAN 1**  
**BIODATA PENULIS**

LAMPIRAN 1  
BIODATA PENULIS



Nama : Bagus Abel Tasman  
Tempat tanggal lahir : Cilacap, 3 Agustus 2002  
Alamat : Jalan sadang 1 Rt 04 Rw 08 Gumilir, Cilacap Utara  
: Cilacap  
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Hobi : Olahraga  
Motto : Siapapun Bisa Jadi Apapun

**Riwayat Pendidikan**

<b>Sekolah</b>	<b>Jurusan</b>	<b>Periode</b>
SD Negeri 3 Gumilir	-	2009-2015
SMP Negeri 7 Cilacap	-	2015-2018
SMA Batik 2 Surakarta	IPS	2018-2020
Politeknik Negeri Cilacap	D III Teknik Mesin	2020-2024

Penulis telah mengikuti seminar hasil Tugas Akhir pada tanggal 05 Februari 2024, sebagai salah satu persyaratan untuk memperoleh gelar Ahli Madya (A.Md)

**LAMPIRAN 2**  
**TABEL DATA PERANCANGAN**

## LAMPIRAN 2

### Data Perancangan

Tabel 1 Baja karbon untuk konstruksi mesin dan baja batang yang difinis dingin untuk poros (Sularso dan Suga, 2008)

Standard	Lambang	Perlakuan Panas	Kekuatan tarik (Kg/mm <sup>2</sup> )	Keterangan
Baja Karbon konstruksi mesin (JIS G 4501)	S30C	Penormalan	48	
	S35C		52	
	S40C		55	
	S45C		58	
	S50C		62	
	S55C		66	
Batang Baja yang difinis dingin	S35C-D	-	53	Ditarik dingin, digerinda, dibubut atau gabungan antara hal - hal tersebut.
	S45C-D	-	60	
	S55C-D	-	72	
Baja Khrom nikel (JIS G 4102)	SNC 2	Pengerasan Kulit	85	
	SNC 3		95	
	SNC 21		80	
	SNC 22		100	
Baja Khrom nikel molibden (JIS G 4103)	SNCM 1	Pengerasan Kulit	85	
	SNCM 2		95	
	SNCM 7		100	
	SNCM 8		105	
	SNCM22		90	
	SNCM23		100	
Baja Khrom (JIS G 4104)	SCr 3	Pengerasan Kulit	90	
	SCr 4		95	
	SCr 5		100	
	SCr21		80	
	SCr22		85	
Baja Khrom Molibden (JIS G 4105)	SCM 2	Pengerasan Kulit	85	
	SCM 3		95	
	SCM 4		100	
	SCM 5		105	
	SCM21		85	
	SCM22		95	
SCM23	100			

Tabel 2 Faktor koreksi  $k_t$  (torsi) dan  $k_m$  (momen) (Khurmi dan Gupta, 2005)

Nature of load	$K_m$	$K_t$
<b>1. Stationary shafts</b>		
(a) Gradually applied load	1.0	1.0
(b) Suddenly applied load	1.5 to 2.0	1.5 to 2.0
<b>2. Rotating shafts</b>		
(a) Gradually applied or steady load	1.5	1.0
(b) Suddenly applied load with minor shocks only	1.5 to 2.0	1.5 to 2.0
(c) Suddenly applied load with heavy shocks	2.0 to 3.0	1.5 to 3.0


Tabel 3 Kecepatan Potong Proses Bubut Rata dan Proses Bubut Ulir Untuk Pahat HSS  
(Widarto, 2008)

MATERIAL	STRAIGHT TURNING SPEED		THREADING SPEED	
	FEET PER MINUTE	METERS PER MINUTE	FEET PER MINUTE	METERS PER MINUTE
LOW-CARBON STEEL	80-100	24.4-30.5	35-40	10.7-12.2
MEDIUM-CARBON STEEL	60-80	18.3-24.4	25-30	7.6-9.1
HIGH-CARBON STEEL	35-40	10.7-12.2	15-20	4.6-6.1
STAINLESS STEEL	40-50	12.2-15.2	15-20	4.6-6.1
ALUMINUM AND ITS ALLOYS	200-300	61.0-91.4	50-60	15.2-18.3
ORDINARY BRASS AND BRONZE	100-200	30.5-61.0	40-50	12.2-15.2
HIGH-TENSILE BRONZE	40-60	12.2-18.3	20-25	6.1-7.6
CAST IRON	50-80	15.2-24.4	20-25	6.1-7.6
COPPER	60-80	18.3-24.4	20-25	6.1-7.6

NOTE: Speeds for carbide-tipped bits can be 2 to 3 times the speed recommended for high-speed steel

Tabel 4 Gerak Makan Pada Mesin Bubut dan Kecepatan Spindel

LONGITUDINAL FEED



G	D	M				G
		E	F	G		
5	1	0.044	0.088	0.176	0.352	1
4	2	0.050	0.099	0.198	0.396	2
1/2	3	0.052	0.105	0.210	0.420	3
	4	0.055	0.110	0.220	0.440	4
	5	0.060	0.121	0.242	0.484	5
1/2	6	0.063	0.127	0.254	0.508	6
	7	0.066	0.132	0.264	0.528	7
	8	0.072	0.144	0.287	0.574	8
2	9	0.075	0.149	0.298	0.596	9
	10	0.077	0.154	0.308	0.616	10
	11	0.083	0.166	0.331	0.662	11

	1	2	3
A	60	220	860
B	92	360	1400
C	140	530	2000

G I F E D

Tabel 5 Material, *Cutting Speed* dan Spesifikasi kecepatan putaran spindel Mesin Gurdi

MATERIAL	CUTTING SPEEDS 1.		POINT ANGLE	LIP CLEARANCE	COOLANTS
	(METERS/MINUTE)	(FEET/MINUTE)			
	MPM	FPM			
Aluminum And Alloys	61.00 - 91.50	200 - 300	90 - 130 deg	12 - 15 deg	Kerosene/Kerosene & Lard Oil/ Soluble Oil
Armor Plate	12.20 - 18.25	40 - 50	135 - 140 deg	6 - 9 deg	Light Machine Oil
Brass	61.00 - 91.50	200 - 300	118 - 118 deg	12 - 15 deg	Dry/ Soluble Oil/Kerosene/Lard Oil
Bronze	61.00 - 91.50	200 - 300	110 - 118 deg	12 - 15 deg	Dry/ Soluble Oil/Mineral Oil/Lard Oil
Bronze, High Tensile	21.35 - 45.75	70 - 150	100 - 110 deg	12 - 15 deg	Dry/ Soluble Oil/Mineral Oil/Lard Oil
Cast Iron, Soft	30.50 - 45.75	100 - 150	90 - 100 deg	12 - 15 deg	Air Jet Dry/ Soluble Oil
Cast Iron, Medium	21.35 - 30.50	70 - 100	100 - 110 deg	12 - 15 deg	Air Jet Dry/ Soluble Oil
Cast Iron, Hard	21.35 - 30.50	70 - 100	100 - 118 deg	8 - 12 deg	Air Jet Dry/ Soluble Oil
Cast Iron, Chilled	9.15 - 12.20	30 - 40	118 - 135 deg	5 - 9 deg	Air Jet Dry/ Soluble Oil
Copper	61.00 - 91.50	200 - 300	100 - 118 deg	12 - 15 deg	Air Jet Dry/ Soluble Oil
Copper Graphite Alloy (Carbon Drills)	18.30 - 21.35	60 - 70	**_**	**_**	Soluble Oil/Dry/Mineral Oil/Kerosene
Glass (Carbon Drills)	6.10 - 9.15	20 - 30	**_**	**_**	Soluble Oil/Dry/Mineral Oil/Kerosene
Iron, Malleable	15.25 - 27.45	50 - 90	90 - 100 deg	12 - 15 deg	Light Machine Oil
Magnesium And Alloys	76.25 - 122.0	250 - 400	70 - 118 deg	12 - 15 deg	Soluble Oil
Monel Nickel	4.15 - 15.28	30 - 50	118 - 125 deg	10 - 12 deg	Compressed Air/Mineral Oil
Nickel Alloys	12.20 - 18.30	40 - 60	135 - 140 deg	5 - 7 deg	Lard Oil/Soluble Oil
Plastic, Hot Set	30.50 - 91.50	100 - 300	60 - 90 deg	10 - 12 deg	Lard Oil/Soluble Oil
Plastic, Cold Set	30.50 - 91.50	100 - 300	118 - 135 deg	12 - 20 deg	Soap Solution
Steel, Low Carbon, 0.2-0.3ct	24.40 - 33.55	80 - 110	110 - 118 deg	7 - 9 deg	Soap Solution
Steel, Medium Carbon 0.4-0.5c	21.35 - 24.40	70 - 80	118 - 125 deg	7 - 9 deg	Soluble Oil/Mineral Oil/Sulfur Oil/Lard Oil
Steel (High Carbon 1.2c)	15.25 - 18.30	50 - 60	118 - 145 deg	7 - 9 deg	Soluble Oil/Mineral Oil/Sulfur Oil/Lard Oil
Steel, Forged	15.25 - 18.30	50 - 60	118 - 145 deg	7 - 12 deg	Soluble Oil/Mineral Oil/Sulfur Oil/Lard Oil
Steel, Alloy	15.25 - 21.35	50 - 70	118 - 125 deg	10 - 12 deg	Mineral Lard Oil
Steel, Alloy 300 To 400 Brinell	6.10 - 9.15	20 - 30	130 - 140 deg	7 - 10 deg	Soluble Oil
Steel, Stainless, Free Machining	9.15 - 24.40	30 - 80	110 - 118 deg	8 - 12 deg	Soluble Oil
Steel, Stainless, Hard	4.57 - 15.25	15 - 50	118 - 135 deg	6 - 8 deg	Soluble Oil
Steel, Manganese	3.66 - 4.57	12 - 15	140 - 150 deg	7 - 10 deg	Soluble Oil
Stone (Carbide Drills)	7.63 - 9.15	25 - 30	**_**	**_**	Water Solution
Wood	91.50 - 122.2	300 - 400	60 - 70 deg	10 - 15 deg	Dry

Gambar 1 Empiris Gerak Makan Per Mata Potong Gurdi (Widarto, 2008)

- Untuk baja
 
$$f = 0,084\sqrt[3]{d}; mm / put \dots\dots\dots (8.2)$$
- Untuk besi tuang
 
$$f = 0,1\sqrt[3]{d}; mm / put \dots\dots\dots (8.3)$$

Tabel 6 Putaran Mesin gurdi

TYPE	LG-16A			
CAPACITY	16m/m			
SER.NO.	091001			
	50Hz		60Hz	
R . P . M	4P	6P	4P	6P
1-7	240	170	290	200
2-7	400	280	490	340
1-6	410	285	500	350
1-5	660	460	800	560
3-7	660	480	800	580
2-6	710	500	800	600
2-4	1760	1230	2100	1300
3-5	1800	1260	2100	1300
3-4	2840	1990	3400	2400

Gambar 2 Kalor jenis material (Serway, Vuille, and Faughn 2009)

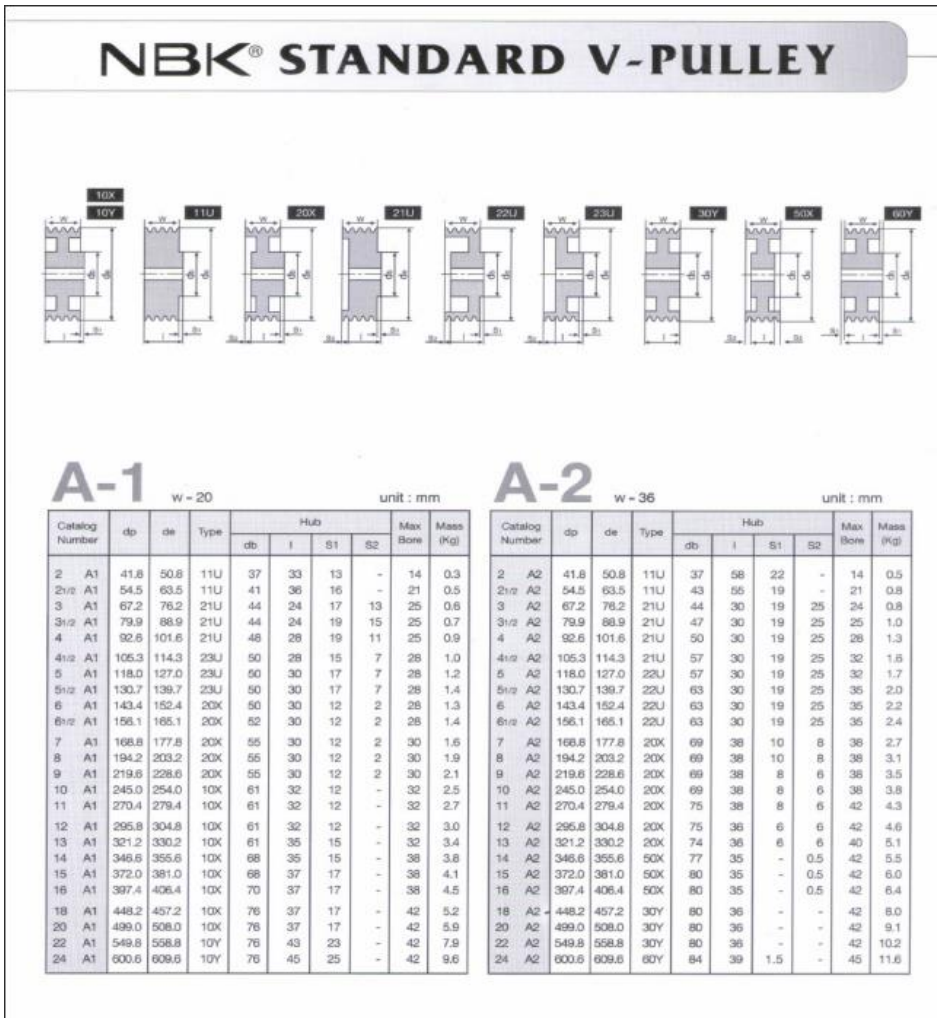
**Specific Heats of Some  
Materials at Atmospheric  
Pressure**

<b>Substance</b>	<b>J/kg·°C</b>	<b>cal/g·°C</b>
Aluminum	900	0.215
Beryllium	1 820	0.436
Cadmium	230	0.055
Copper	387	0.092 4
Ethyl Alcohol	2 430	0.581
Germanium	322	0.077
Glass	837	0.200
Gold	129	0.030 8
Ice	2 090	0.500
Iron	448	0.107
Lead	128	0.030 5
Mercury	138	0.033
Silicon	703	0.168
Silver	234	0.056
Steam	2 010	0.480
Tin	227	0.054 2
Water	4 186	1.00

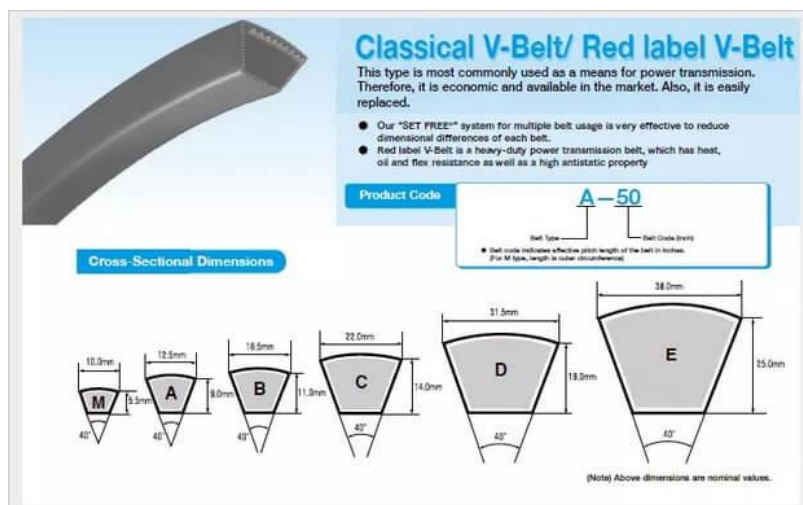
**LAMPIRAN 3**  
***CATALOG PART***



Gambar 2 Katalog Pada Puli



Gambar 3 Katalog Pada Sabuk V

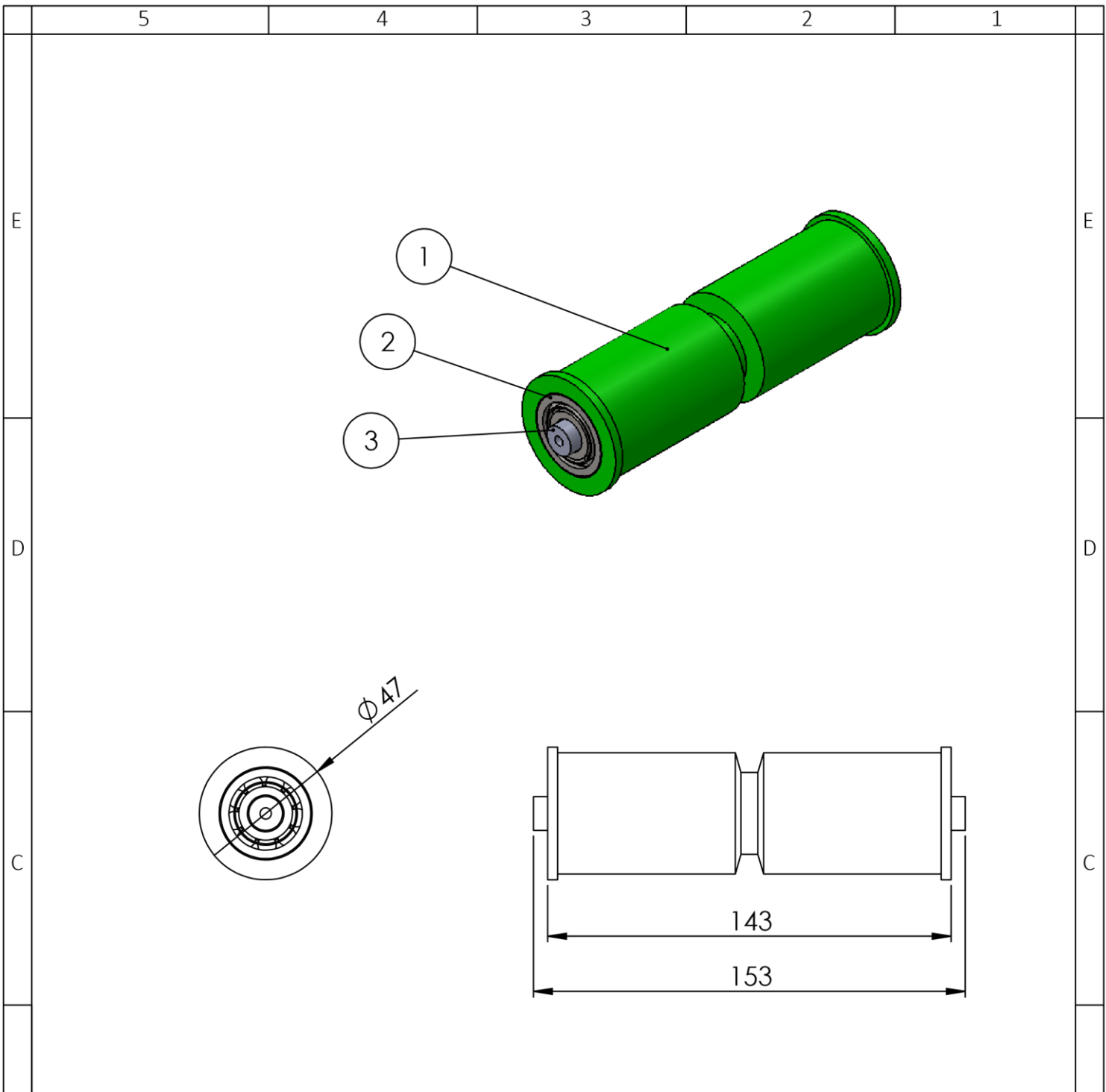


Part No.	Outside Length (inches)	Metric No.	Wt. (lbs.)	Stock/Non-Stock	Std. Pack	Pack Weight (lbs.)
<b>A/4L Section</b>						
<b>Recommended Pulleys: QD Type (BQ)</b>						
A19	21.3	13R535	0.1	N	5	0.5
A20	22.3	13R560	0.1	N	5	0.5
A21	23.3	13C585	0.1	S	5	0.5
A22	24.3	13C610	0.1	S	5	0.5
A23	25.3	13C635	0.2	N	5	1.0
A24	26.3	13C665	0.2	S	5	1.0
A25	27.3	—	0.2	N	5	1
A26	28.3	13C710	0.2	S	5	1.0
A27	29.3	13C750	0.2	N	5	1.0
A28	30.3	13C765	0.2	S	5	1.0
A29	31.3	13C800	0.2	S	5	1.0
A30	32.3	13C815	0.2	S	5	1.0
A31	33.3	13C850	0.2	S	5	1.0
A32	34.3	13C865	0.2	S	5	1.0
A33	35.3	13C900	0.2	S	5	1.0
A34	36.3	13C915	0.2	S	5	1.0
A35	37.3	13C950	0.2	S	5	1.0
A36	38.3	13C965	0.2	S	5	1.0
A37	39.3	13C1000	0.2	S	5	1.0
A38	40.3	13C1020	0.2	S	5	1.0
A39	41.3	13C1045	0.3	S	5	1.5
A40	42.3	13C1075	0.3	S	5	1.5
A41	43.3	13C1095	0.3	S	5	1.5
A42	44.3	13C1120	0.3	S	5	1.5
A43	45.3	13C1150	0.3	S	5	1.5
A44	46.3	13C1170	0.3	S	5	1.5
A45	47.3	13C1195	0.3	S	5	1.5
A46	48.3	13C1230	0.3	S	5	1.5
A47	49.3	13C1245	0.3	S	5	1.5
A48	50.3	13C1270	0.3	S	5	1.5
A49	51.3	13C1300	0.3	S	5	1.5
A50	52.3	13C1325	0.3	S	5	1.5
A51	53.3	13C1350	0.3	S	5	1.5
A52	54.3	13C1375	0.3	N	5	1.5
A53	55.3	13C1400	0.3	S	5	1.5

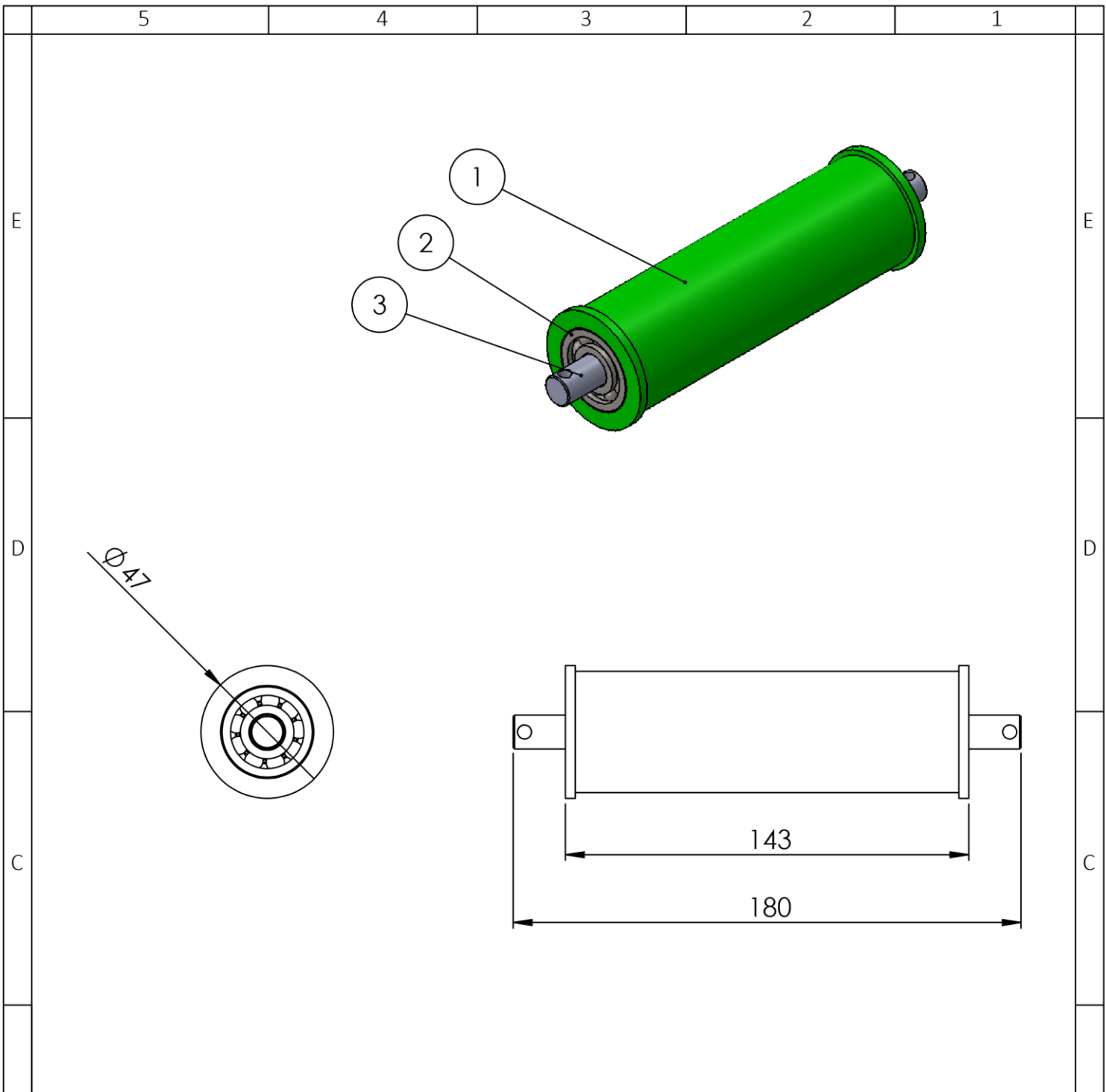
**LAMPIRAN 4**

**DESAIN RINCI SISTEM *HEATER* DAN *BELT***  
***CONVEYOR* PADA MESIN *CONTINUOUS***  
***SEALER* TIPE VERTIKAL**

	5						4						3						2						1								
E																									E								
D																									D								
C																									C								
B																									B								
8		BOLT M6X1						3																									
2		FRAME 2						2		MILD STEEL						546 x 44 x 20						BC-01-03-02											
2		FRAME 1						1		MILD STEEL						365 x 290 x 20						BC-01-03-01											
JML		NAMA BAGIAN						POS		BAHAN						UKURAN JADI						UKURAN KASAR						NO. ID					
>		0	6	30	120	400	1000	PEKERJAAN LANJUT						NO.ORDER						PROYEKSI													
<		6	30	120	400	1000	2000																										
TOL		0.1	1.2	0.3	0.5	0.8	1.2																										
nama:		<p align="center"><b>FRAME ASSY</b></p>						skala		DIGAMBAR						ABEL						HANIF											
								1:5		DIPERIKSA																							
										DISAHKAN																							
		POLITEKNIK NEGERI CILACAP, JURUSAN TEKNIK MESIN												FORMAT		BC-01-03																	
		JL. dr . SOETOMO, NO 01, SIDAKAYA, CILACAP, 53212												A4																			
		TELP. 0282-533329, E-MAIL :tmpnc@politekniknegericilacap.ac.id																															
	5						4						3						2						1								
A																									A								

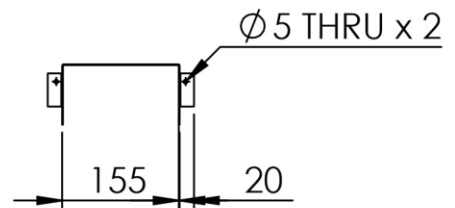
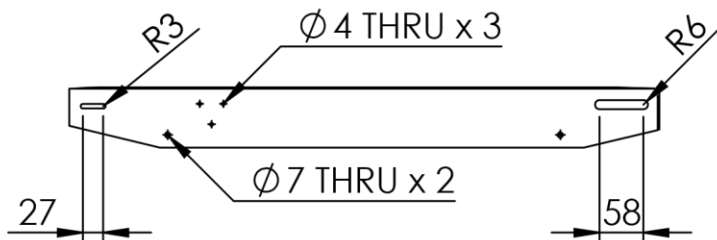
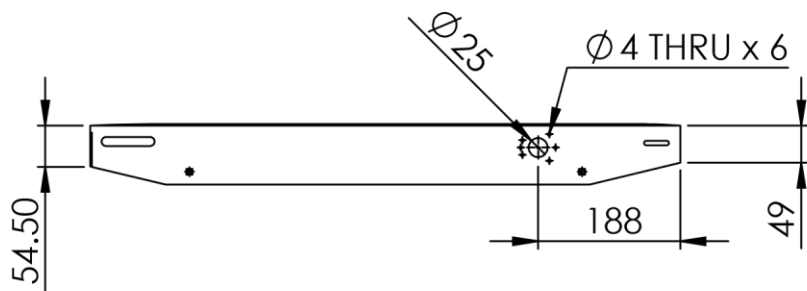
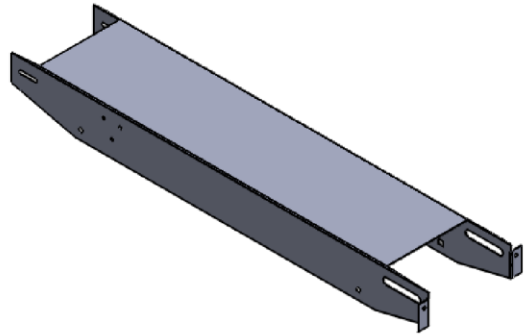
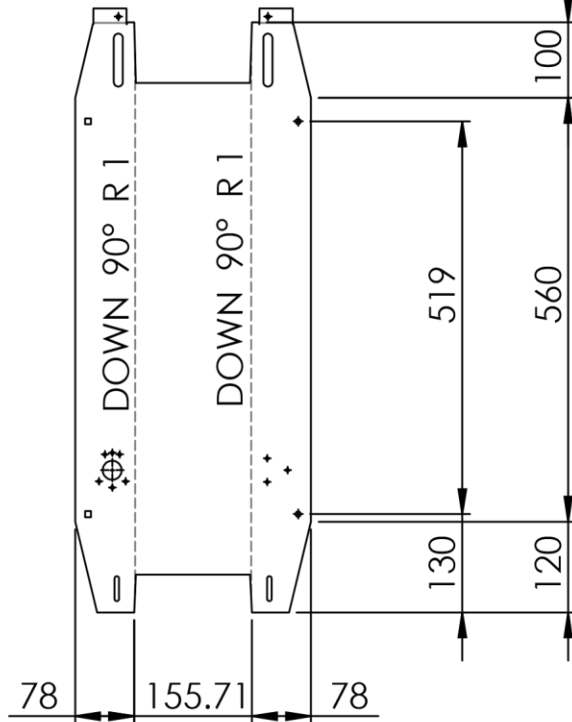


1	SHAFT ROLLER ROLLER CONVEYOR					3	S45C	-	-	BC-01-02-02-01
2	BEARING					2	-	-	-	-
1	ROLLER PULLEY CONVEYOR					1	NYLON	-	-	BC-01-02-02-02
JML	NAMA BAGIAN					POS	BAHAN	UKURAN JADI	UKURAN KASAR	NO. ID
>	0	6	30	120	400	1000	PEKERJAAN LANJUT		NO.ORDER	PROYEKSI
<	6	30	120	400	1000	2000				
TOL	0.1	1.2	0.3	0.5	0.8	1.2				
nama: <b>ASSY ROLLER PULLEY CONVEYOR</b>								skala <b>1:2</b>	DIGAMBAR DIPERIKSA DISAHKAN	ABEL HANIF
								FORMAT <b>A4</b>	<b>BC-01-02-02</b>	
5		4		3		2		1		



1	POROS ROLLER CONVEYOR	3	S45C	-	-	BC-01-02-03-01	
2	BEARING	2	-	-	-	-	
1	ROLLER CONVEYOR	1	NYLON	-	-	BC-01-02-03-02	
JML	NAMA BAGIAN	POS	BAHAN	UKURAN JADI	UKURAN KASAR	NO. ID	
>	0	6	30	120	400	1000	
<	6	30	120	400	1000	2000	
TOL	0.1	1.2	0.3	0.5	0.8	1.2	
nama:				skala	DIGAMBAR	ABEL	HANIF
ASSY ROLLER CONVEYOR				1:2	DIPERIKSA		
					DISAHKAN		
 POLITEKNIK NEGERI CILACAP, JURUSAN TEKNIK MESIN JL. dr . SOETOMO, NO 01, SIDAKAYA, CILACAP, 53212 TELP. 0282-533329, E-MAIL :tmpnc@politekniknegericilacap.ac.id				FORMAT	BC-01-02-03		
				A4			

UP 90° R 1 UP 90° R 1



JML	NAMA BAGIAN					POS	BAHAN	UKURAN JADI	UKURAN KASAR	NO. ID
>	0	6	30	120	400	1000	PEKERJAAN LANJUT	NO.ORDER	PROYEKSI	
<	6	30	120	400	1000	2000				
TOL	0.1	1.2	0.3	0.5	0.8	1.2				

nama:

**CASE BELT CONVEYOR**

skala

**1:10**

DIGAMBAR	ABEL	HANIF
DIPERIKSA		
DISAHKAN		



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FORMAT  
**A4**

**BC-01-02-05**

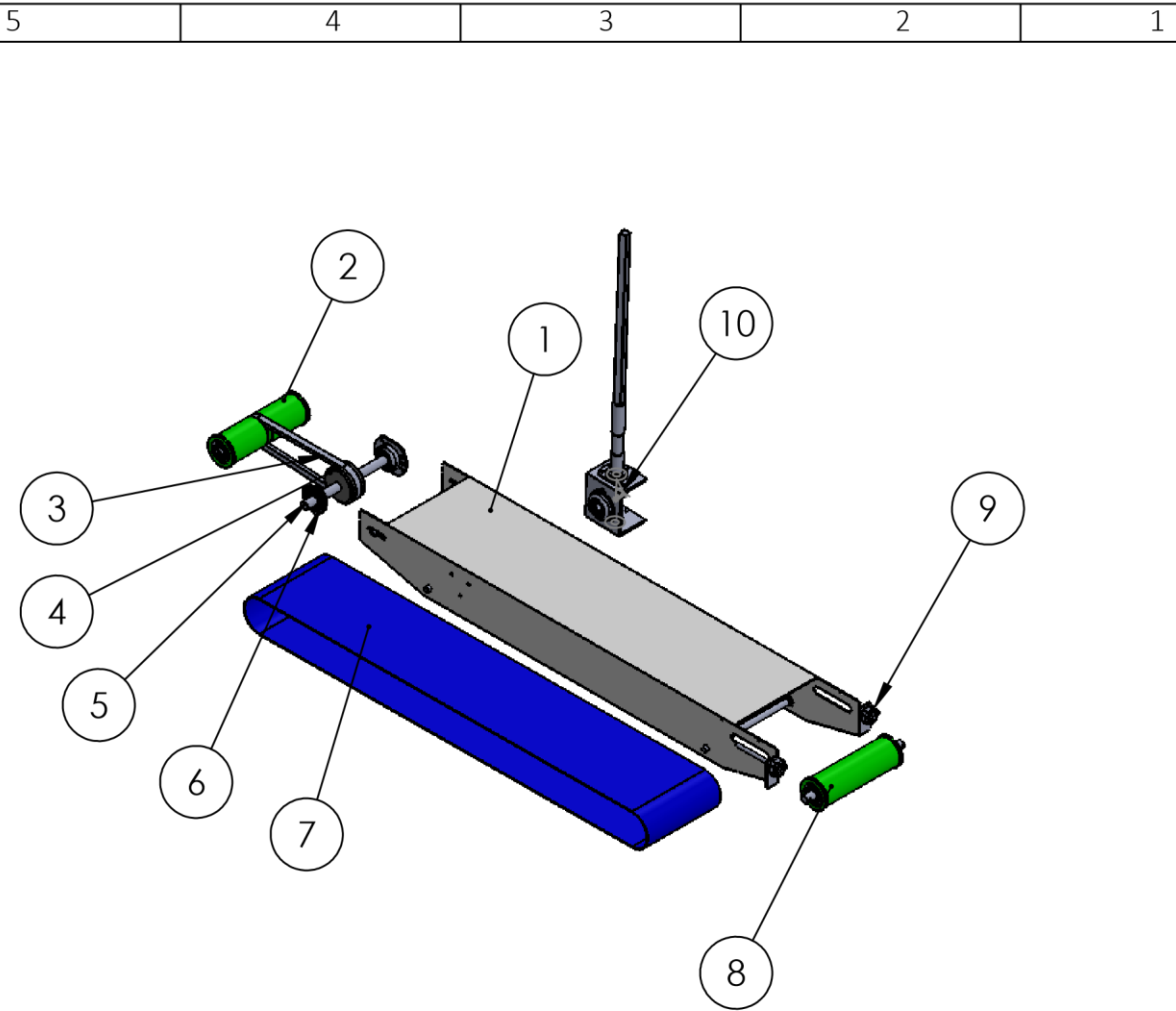
5

4

3

2

1



1	VERTICAL SHAFT	10	S45C			BC-01-02-01
2	BOLT ADJUSTER	9	-			
1	ASSY ROLLER	8	-			BC-01-02-03
1	BELT CONVEYOR	7	PVC			
2	PILLOW BLOCK	6	-			
1	SHAFT 3	5	S45C			BC-01-02-04
1	PULLEY	4	-			
1	V BELT	3	-			
1	ASSY ROLLER PULLEY	2	-			BC-01-02-02
1	CASE CONVEYOR	1	MILD STEEL	LIHAT DETAIL		BC-01-02-05

JML	NAMA BAGIAN						POS	BAHAN	UKURAN JADI	UKURAN KASAR	NO. ID
>	0	6	30	120	400	1000	PEKERJAAN LANJUT		NO.ORDER	PROYEKSI	
<	6	30	120	400	1000	2000					
TOL	0.1	1.2	0.3	0.5	0.8	1.2					

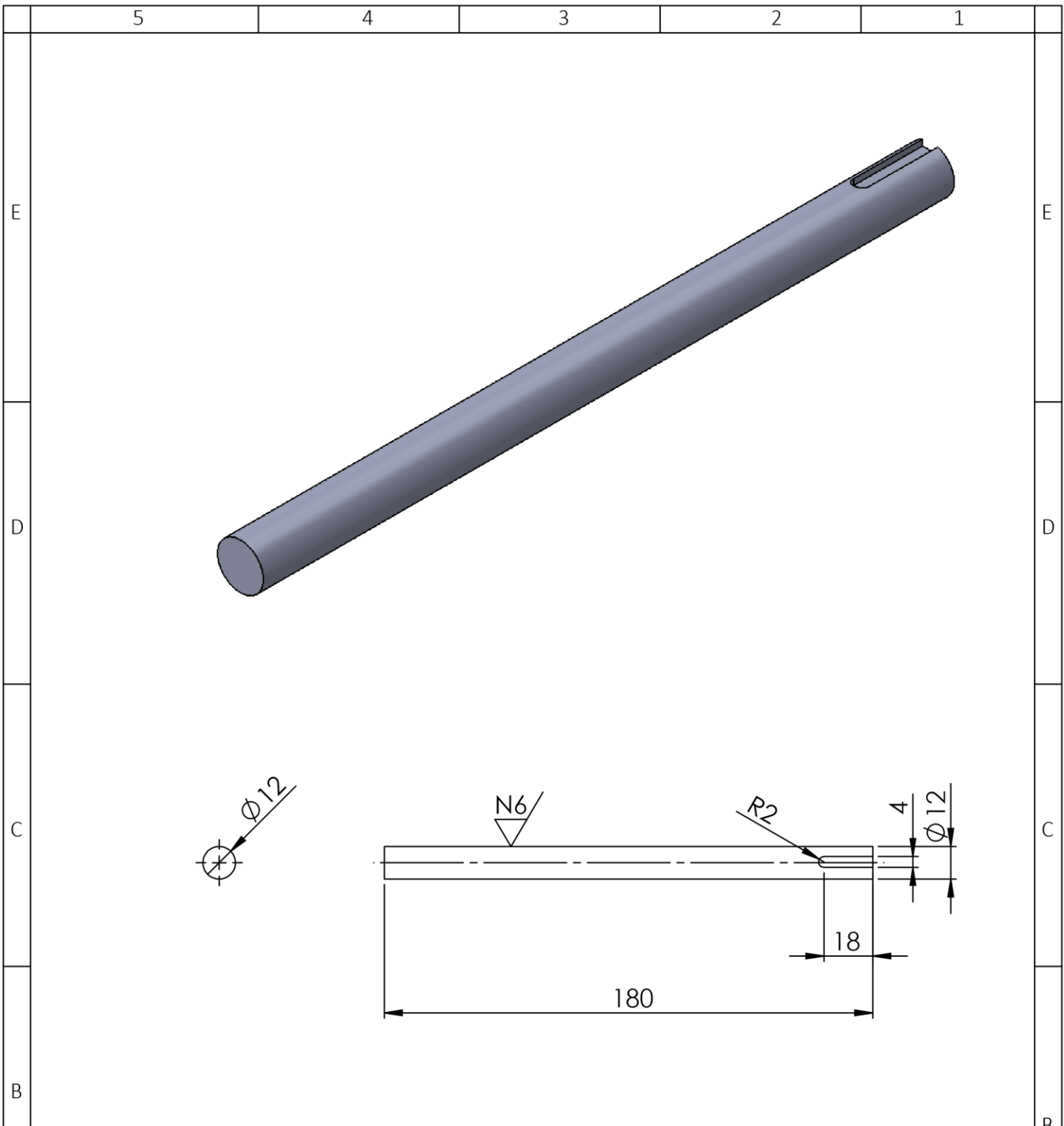
nama:  <h2 style="text-align: center;">CONVEYOR ASSY</h2>	skala	DIGAMBAR	ABEL	HANIF
	1:10	DIPERIKSA		
		DISAHKAN		
FORMAT	BC-01-02			
A4				



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 TEL.P. 0282-533329, E-MAIL :tmpnc@politekniknegericilacap.ac.id

FORMAT  
**A4**





						S45C				
JML	NAMA BAGIAN					POS	BAHAN	UKURAN JADI	UKURAN KASAR	NO. ID
>	0	6	30	120	400	1000	PEKERJAAN LANJUT	NO.ORDER	PROYEKSI	
<	6	30	120	400	1000	2000				
TOL	0.1	1.2	0.3	0.5	0.8	1.2				

nama: <b>CONVEYOR PULLEY SHAFT</b>	skala	DIGAMBAR	ABEL	HANIF
	<b>1:2</b>	DIPERIKSA		
		DISAHKAN		

	POLITEKNIK NEGERI CILACAP, JURUSAN TEKNIK MESIN JL. dr . SOETOMO, NO 01, SIDAKAYA, CILACAP, 53212 TELP. 0282-533329, E-MAIL :tmpnc@politekniknegericilacap.ac.id	FORMAT <b>A4</b>	<b>BC-01-02-04</b>
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E

E

D

D

C

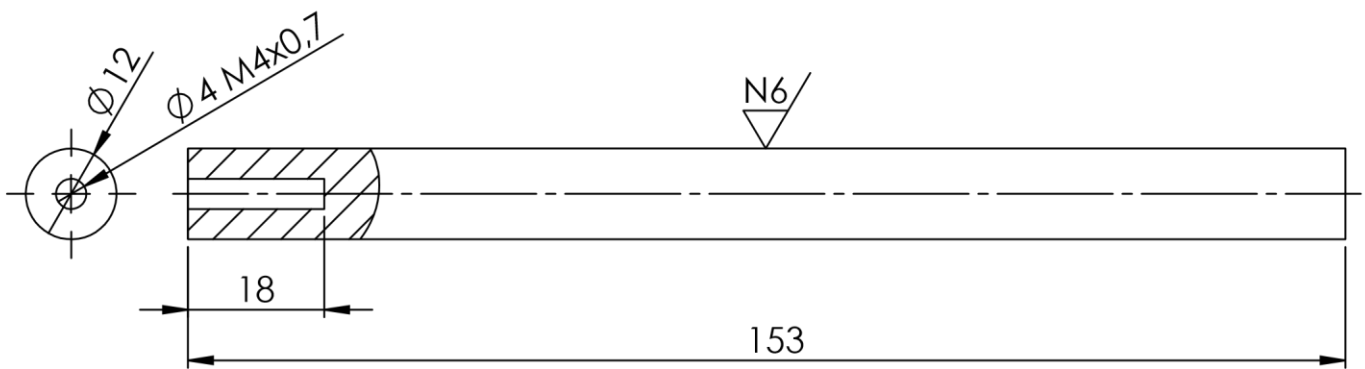
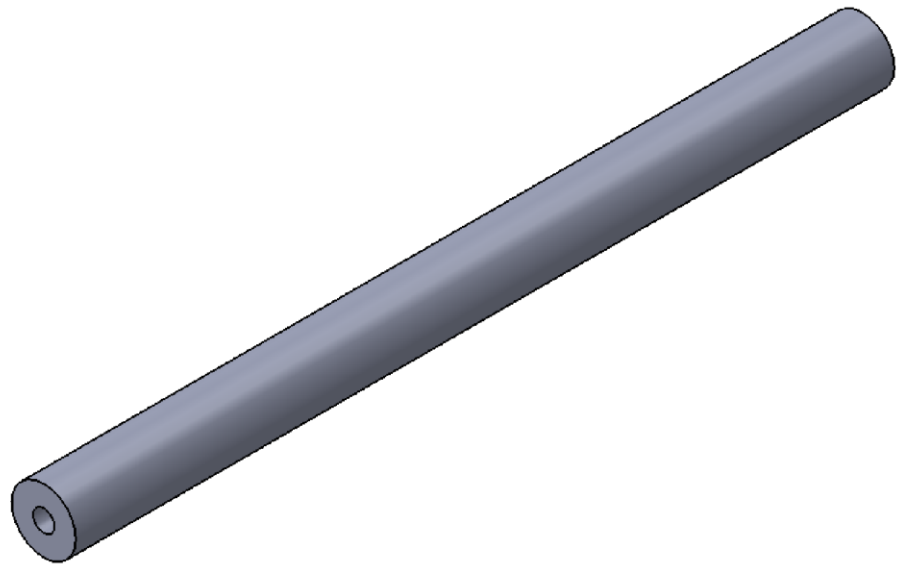
C

B

B

A

A



			S45C							
JML	NAMA BAGIAN					POS	BAHAN	UKURAN JADI	UKURAN KASAR	NO. ID
>	0	6	30	120	400	1000	PEKERJAAN LANJUT		NO.ORDER	PROYEKSI
<	6	30	120	400	1000	2000				
TOL	0.1	1.2	0.3	0.5	0.8	1.2				

nama:  <h2 style="text-align: center;">CONVEYOR ROLLER SHAFT</h2>	skala  <h1 style="text-align: center;">1:1</h1>	DIGAMBAR DIPERIKSA DISAHKAN	ABEL   	HANIF   
POLITEKNIK NEGERI CILACAP, JURUSAN TEKNIK MESIN JL. dr . SOETOMO, NO 01, SIDAKAYA, CILACAP, 53212 TELP. 0282-533329, E-MAIL :tmpnc@politekniknegericilacap.ac.id		FORMAT <h1 style="text-align: center;">A4</h1>		
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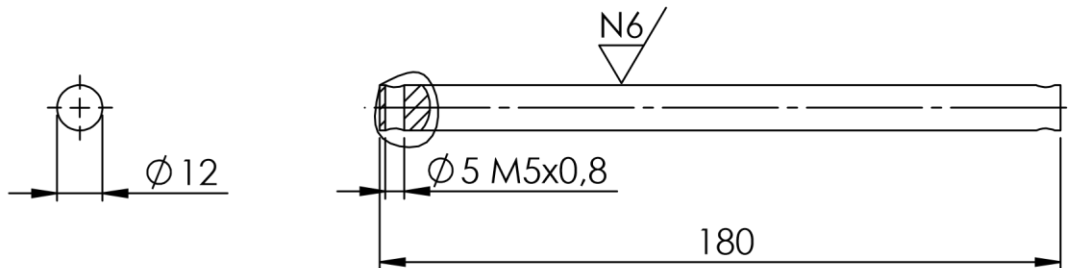
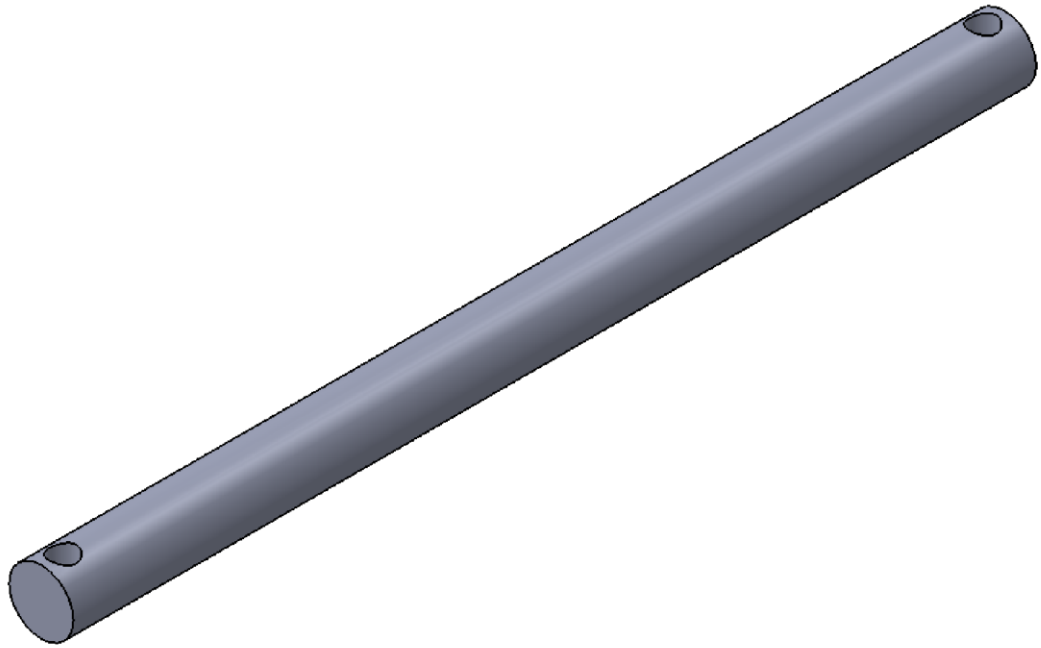
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<	6	30	120	400	1000	2000					
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nama:								skala	DIGAMBAR	ABEL	HANIF
PULLEY ROLLER SHAFT								1:2	DIPERIKSA		
									DISAHKAN		
POLITEKNIK NEGERI CILACAP, JURUSAN TEKNIK MESIN JL. dr . SOETOMO, NO 01, SIDAKAYA, CILACAP, 53212 TELP. 0282-533329, E-MAIL :tmpnc@politekniknegericilacap.ac.id								FORMAT	BC-01-02-03-1		
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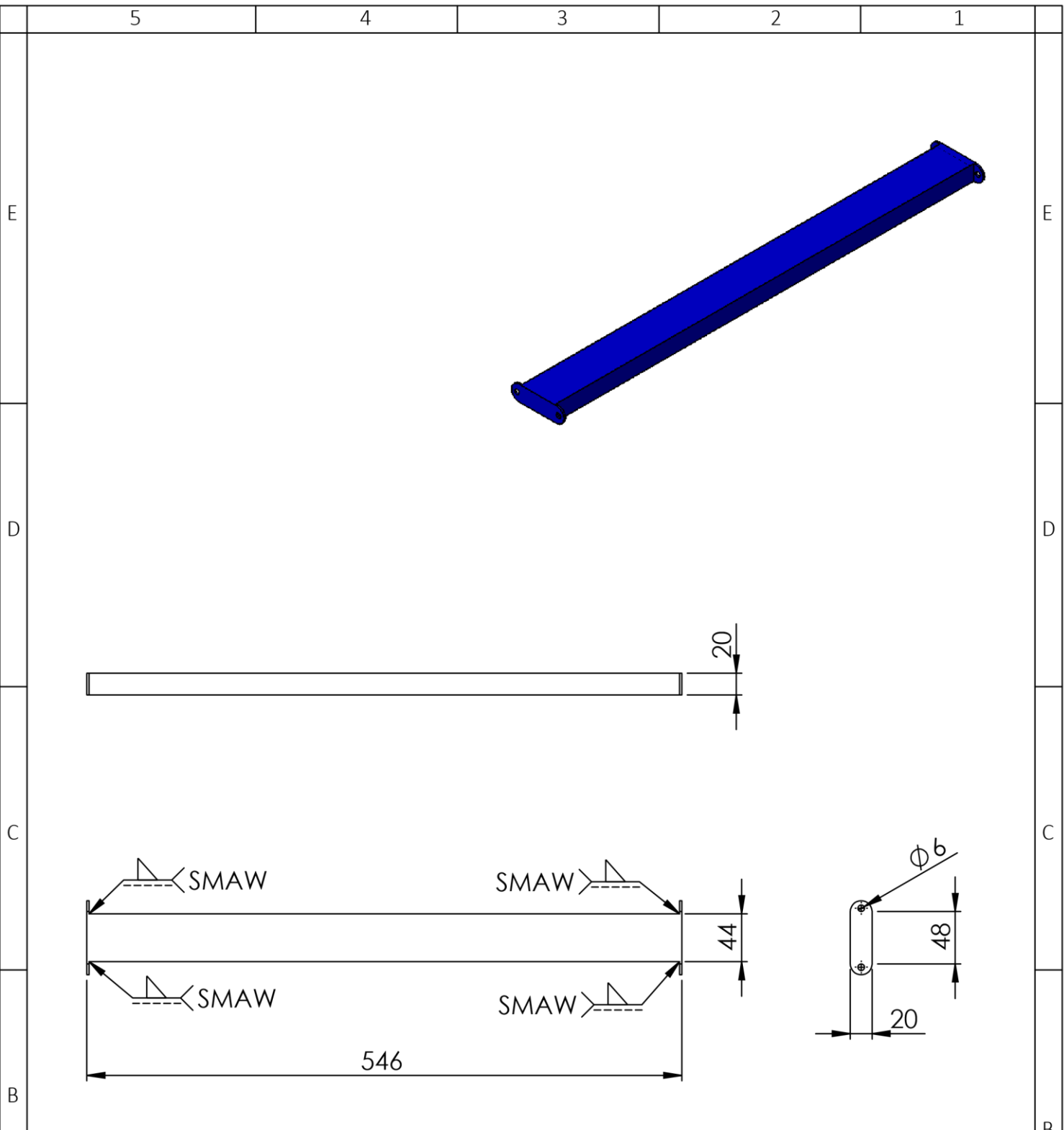
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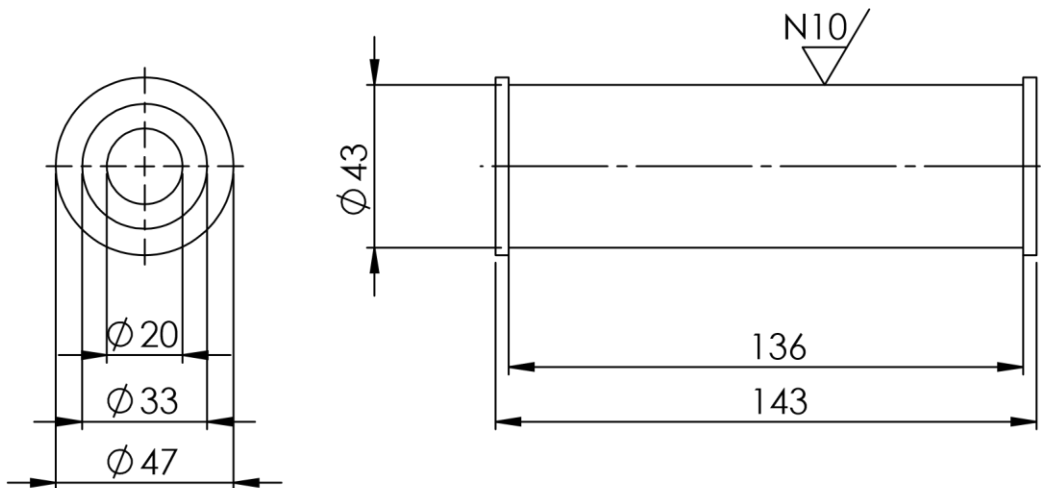
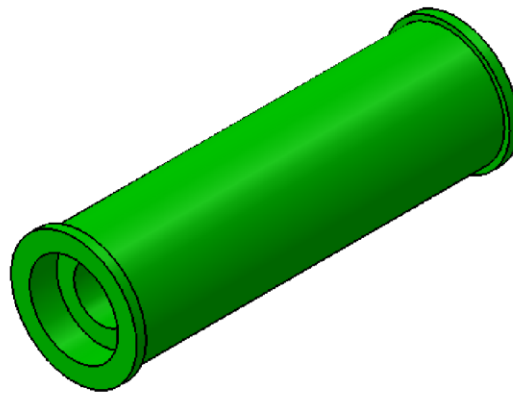
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							MILD STEEL				
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TOL	0.1	1.2	0.3	0.5	0.8	1.2					
nama: <h2 style="text-align: center;">FRAME 2</h2>								skala	DIGAMBAR	ABEL	HANIF
								1:5	DIPERIKSA		
									DISAHKAN		
POLITEKNIK NEGERI CILACAP, JURUSAN TEKNIK MESIN JL. dr . SOETOMO, NO 01, SIDAKAYA, CILACAP, 53212 TELP. 0282-533329, E-MAIL :tmpnc@politekniknegericilacap.ac.id								FORMAT	BC-01-03-02		
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							NYLON				
JML	NAMA BAGIAN					POS	BAHAN	UKURAN JADI	UKURAN KASAR	NO. ID	
>	0	6	30	120	400	1000	PEKERJAAN LANJUT	NO.ORDER	PROYEKSI		
<	6	30	120	400	1000	2000					
TOL	0.1	1.2	0.3	0.5	0.8	1.2					

nama:	<b>ROLLER CONVEYOR</b>						skala	DIGAMBAR	ABEL	HANIF	
								1:2	DIPERIKSA		
									DISAHKAN		
	POLITEKNIK NEGERI CILACAP, JURUSAN TEKNIK MESIN JL. dr . SOETOMO, NO 01, SIDAKAYA, CILACAP, 53212 TELP. 0282-533329, E-MAIL :tmpnc@politekniknegericilacap.ac.id						FORMAT	BC-01-02-03-02			
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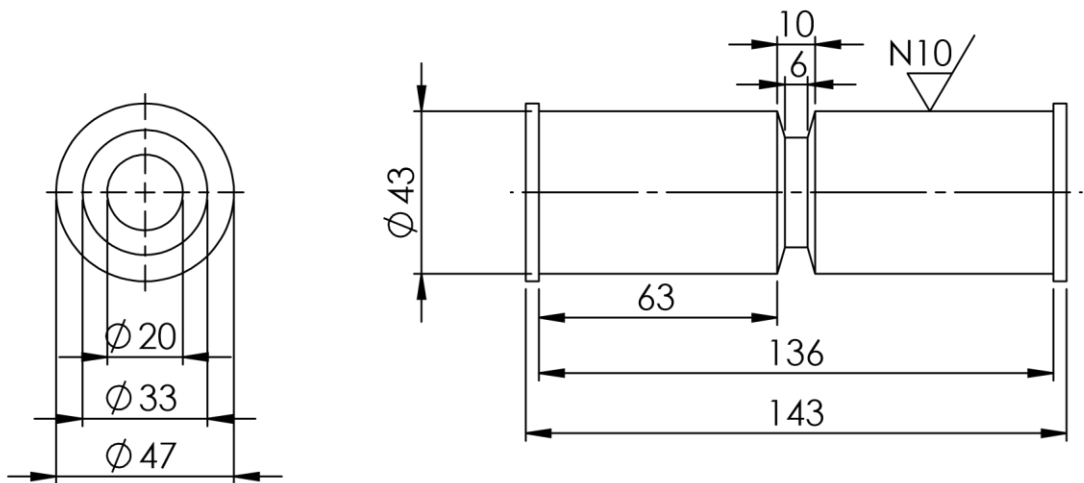
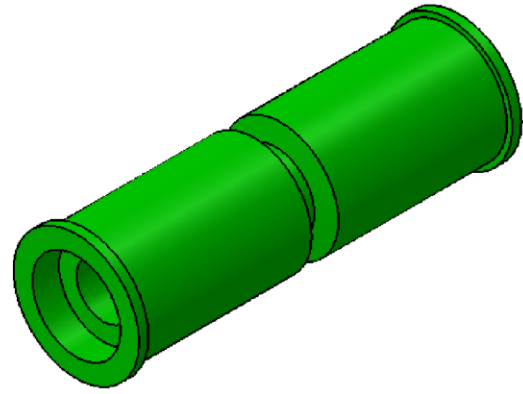
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							NYLON				
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<	6	30	120	400	1000	2000					
TOL	0.1	1.2	0.3	0.5	0.8	1.2					

nama:

# ROLLER PULLEY CONVEYOR

skala

1:2

DIGAMBAR

DIPERIKSA

DISAHKAN

ABEL

HANIF

FORMAT

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BC-01-02-02-02



POLITEKNIK NEGERI CILACAP, JURUSAN TEKNIK MESIN

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TELP. 0282-533329, E-MAIL :tmpnc@politekniknegericilacap.ac.id

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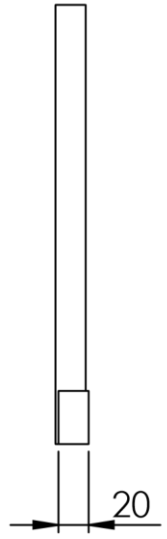
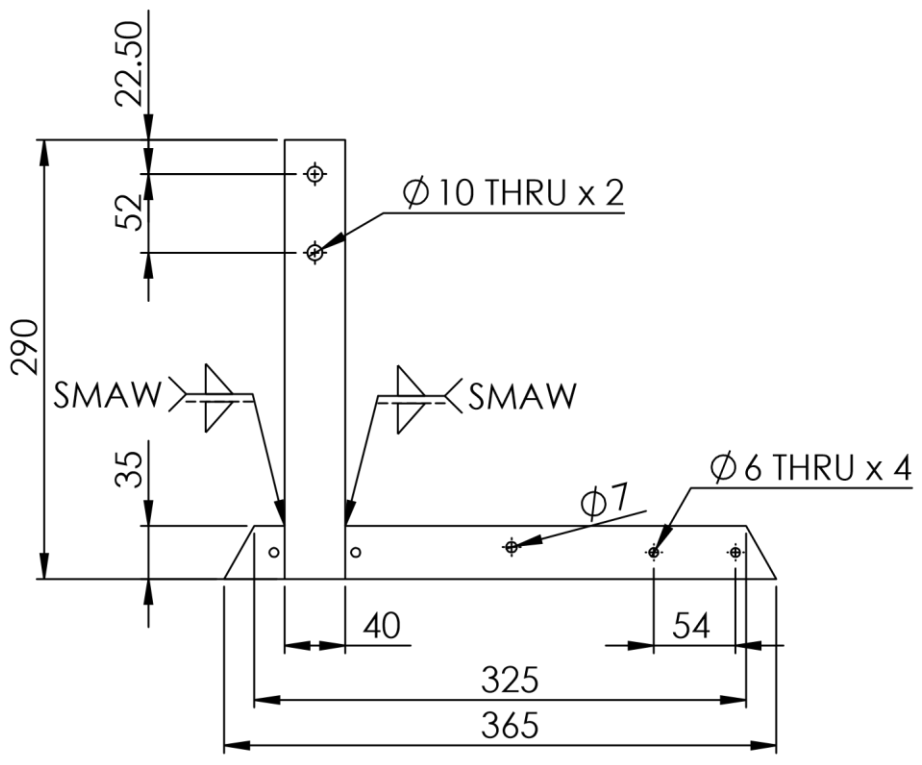
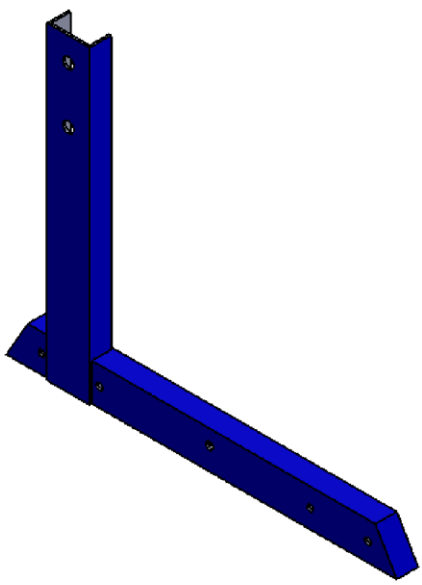
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				MILD STEEL							
JML	NAMA BAGIAN					POS	BAHAN	UKURAN JADI	UKURAN KASAR	NO. ID	
>	0	6	30	120	400	1000	PEKERJAAN LANJUT		NO.ORDER	PROYEKSI	
<	6	30	120	400	1000	2000					
TOL	0.1	1.2	0.3	0.5	0.8	1.2					
nama:								skala	DIGAMBAR	ABEL	HANIF
<h1>FRAME 1</h1>								1:5	DIPERIKSA		
									DISAHKAN		
POLITEKNIK NEGERI CILACAP, JURUSAN TEKNIK MESIN JL. dr . SOETOMO, NO 01, SIDAKAYA, CILACAP, 53212 TELP. 0282-533329, E-MAIL :tmpnc@politekniknegericilacap.ac.id								FORMAT	BC-01-03-01		
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**LAMPIRAN 5**  
**DOKUMENTASI**





