

LAMPIRAN 1
DATA PERHITUNGAN TRANSMISI

Tabel 1A Faktor-faktor koreksi daya yang akan ditransmisikan f_c (Sularso, 2004)

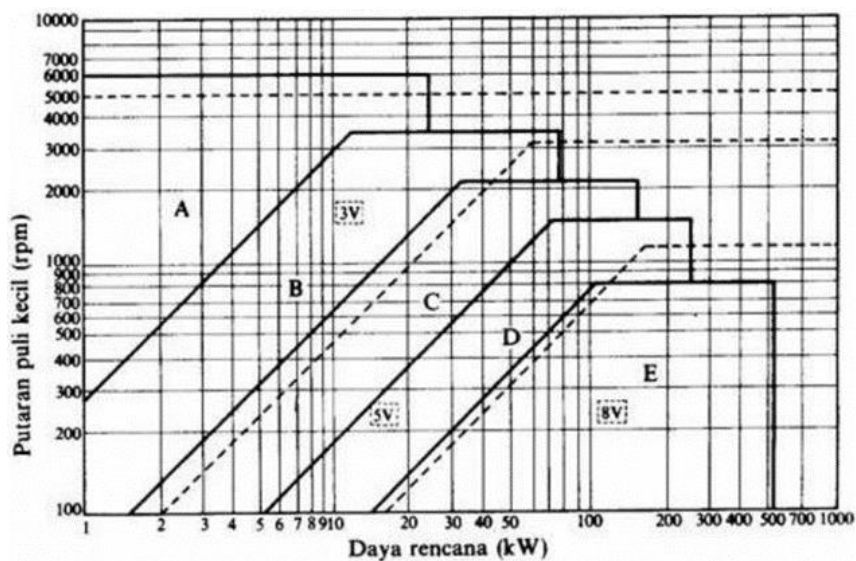
| Daya yang akan ditransmisikan | f_c |
|--------------------------------|---------|
| Daya rata-rata yang diperlukan | 1,2–2,0 |
| Daya maksimum yang diperlukan | 0,8–1,2 |
| Daya normal | 1,0–1,5 |

Tabel 1B Baja karbon untuk konstruksi mesin dan baja yang difinis dingin untuk poros (Sularso, 2004)

| Standar dan macam | Lambang | Perlakuan panas | Kekuatan tarik (kg/mm ²) | 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 | |

Tabel 1C Faktor koreksi (Sularso, 2004)

| Mesin yang digerakkan | | Pengerak | | | | | |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------|
| | | Momen puntir puncak > 200% | | | Momen puntir puncak > 200% | | |
| | | Motor arus bolak-balik (momen normal, sangkar bajing, sinkron), motor arus searah (lilitan shunt) | | | Motor arus bolak-balik (moment tinggi, fasa tunggal, lilitan seri), motor searah (lilitan kompon, lilitan seri), mesin torak, kopling tak tetap | | |
| | | Jumlah jam kerja tiap hari | | | Jumlah jam kerja tiap hari | | |
| | | 3-5 jam | 8-10 jam | 16-24 jam | 3-5 jam | 8-10 jam | 16-24 jam |
| beban sangat | Pengaduk zat cair, kipas angin, blower (sampai 7,5 kW) pompa sentrifugal, konveyor tugas ringan. | 1,0 | 1,1 | 1,2 | 1,2 | 1,3 | 1,4 |
| Variable beban kecil | Konveyor sabuk (pasir, batu bara), pengaduk, kipas angin (lebih dari 7,5kW), mesin torak, peluncur, mesin perkakas, mesin pencetak. | 1,2 | 1,3 | 1,4 | 1,4 | 1,5 | 1,6 |
| Variable beban sedang | Konveyor (ember, sekrup), pompa torak, kompresor, pilingan palu, pengocok, roots-blower, mesin tekstil, mesin kayu | 1,3 | 1,4 | 1,5 | 1,6 | 1,7 | 1,8 |
| Variable beban bebas | Penghancur, gilingan bola atau batang, pengangkat, mesin pabrik karet (rol, kalender) | 1,5 | 1,6 | 1,7 | 1,8 | 1,9 | 2,0 |



Gambar 1A Diagram pemilihan sabuk-V (Sularso, 2004)

Tabel 1D Diameter minimal puli yang diizinkan dan dianjurkan (mm)

| Penampang | A | B | C | D | E |
|-------------------------------|----|-----|-----|-----|-----|
| Diameter min. yang diizinkan | 65 | 115 | 175 | 300 | 450 |
| Diameter min. yang dianjurkan | 95 | 145 | 225 | 350 | 550 |

| | | | |
|----------------------------------|-----|-----|-----|
| Tipe sabuk sempit | 3V | 5V | 8V |
| Diameter minimum | 67 | 180 | 315 |
| Diameter minimum yang dianjurkan | 100 | 224 | 360 |

Tabel 1E Panjang sabuk-V standar (Sularso, 2004)

| Nomor nominal | | Nomor nominal | | Nomor nominal | | Nomor nominal | |
|---------------|------|---------------|------|---------------|------|---------------|------|
| (inch) | (mm) | (inch) | (mm) | (inch) | (mm) | (inch) | (mm) |
| 10 | 254 | 45 | 1143 | 80 | 2032 | 115 | 2921 |
| 11 | 279 | 46 | 1168 | 81 | 2057 | 116 | 2946 |
| 12 | 305 | 47 | 1194 | 82 | 2083 | 117 | 2972 |
| 13 | 330 | 48 | 1219 | 83 | 2108 | 118 | 2997 |
| 14 | 356 | 49 | 1245 | 84 | 2134 | 119 | 3023 |
| 15 | 381 | 50 | 1270 | 85 | 2159 | 120 | 3048 |
| 16 | 406 | 51 | 1295 | 86 | 2184 | 121 | 3073 |
| 17 | 432 | 52 | 1321 | 87 | 2210 | 122 | 3099 |
| 18 | 457 | 53 | 1346 | 88 | 2235 | 123 | 3124 |
| 19 | 483 | 54 | 1372 | 89 | 2261 | 124 | 3150 |
| 20 | 508 | 55 | 1397 | 90 | 2286 | 125 | 3175 |
| 21 | 533 | 56 | 1422 | 91 | 2311 | 126 | 3200 |
| 22 | 559 | 57 | 1448 | 92 | 2337 | 127 | 3226 |
| 23 | 584 | 58 | 1473 | 93 | 2362 | 128 | 3251 |
| 24 | 610 | 59 | 1499 | 94 | 2388 | 129 | 3277 |
| 25 | 635 | 60 | 1524 | 95 | 2413 | 130 | 3302 |
| 26 | 660 | 61 | 1549 | 96 | 2438 | 131 | 3327 |
| 27 | 686 | 62 | 1575 | 97 | 2464 | 132 | 3353 |
| 28 | 711 | 63 | 1600 | 98 | 2489 | 133 | 3378 |
| 29 | 737 | 64 | 1626 | 99 | 2515 | 134 | 3404 |
| 30 | 762 | 65 | 1651 | 100 | 2540 | 135 | 3429 |
| 31 | 787 | 66 | 1676 | 101 | 2565 | 136 | 3454 |
| 32 | 813 | 67 | 1702 | 102 | 2591 | 137 | 3480 |
| 33 | 838 | 68 | 1727 | 103 | 2616 | 138 | 3505 |
| 34 | 864 | 69 | 1753 | 104 | 2642 | 139 | 3531 |
| 35 | 889 | 70 | 1778 | 105 | 2667 | 140 | 3556 |
| 36 | 914 | 71 | 1803 | 106 | 2692 | 141 | 3581 |
| 37 | 940 | 72 | 1829 | 107 | 2718 | 142 | 3607 |
| 39 | 965 | 73 | 1854 | 108 | 2743 | 143 | 3632 |
| 39 | 991 | 74 | 1880 | 109 | 2769 | 144 | 3658 |
| 40 | 1016 | 75 | 1905 | 110 | 2794 | 145 | 3683 |
| 41 | 1041 | 76 | 1930 | 111 | 2819 | 146 | 3708 |
| 42 | 1067 | 77 | 1956 | 112 | 2845 | 147 | 3734 |
| 43 | 1092 | 78 | 1981 | 113 | 2870 | 148 | 3759 |
| 44 | 1118 | 79 | 2007 | 114 | 2896 | 149 | 3785 |

Tabel 1F Faktor koreksi K_θ (Sularso, 2004)

| $\frac{D_p - d_p}{C}$ | Sudut Kontak puli kecil $\theta(^{\circ})$ | Faktor Koreksi K_θ |
|-----------------------|--------------------------------------------|---------------------------|
| 0,00 | 180 | 1,00 |
| 0,10 | 174 | 0,99 |
| 0,20 | 169 | 0,97 |
| 0,30 | 163 | 0,96 |
| 0,40 | 157 | 0,94 |
| 0,50 | 151 | 0,93 |
| 0,60 | 145 | 0,91 |
| 0,70 | 139 | 0,89 |
| 0,80 | 133 | 0,87 |
| 0,90 | 127 | 0,85 |
| 1,00 | 120 | 0,82 |
| 1,10 | 113 | 0,80 |
| 1,20 | 106 | 0,77 |
| 1,30 | 99 | 0,73 |
| 1,40 | 91 | 0,70 |
| 1,50 | 83 | 0,65 |

LAMPIRAN 2

DATA PERHITUNGAN PROSES BUBUT

TABEL 2A 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 2B Kecepatan *spindle* mesin bubut (Dokumentasi : Politeknik Negeri Cilacap, 2024)



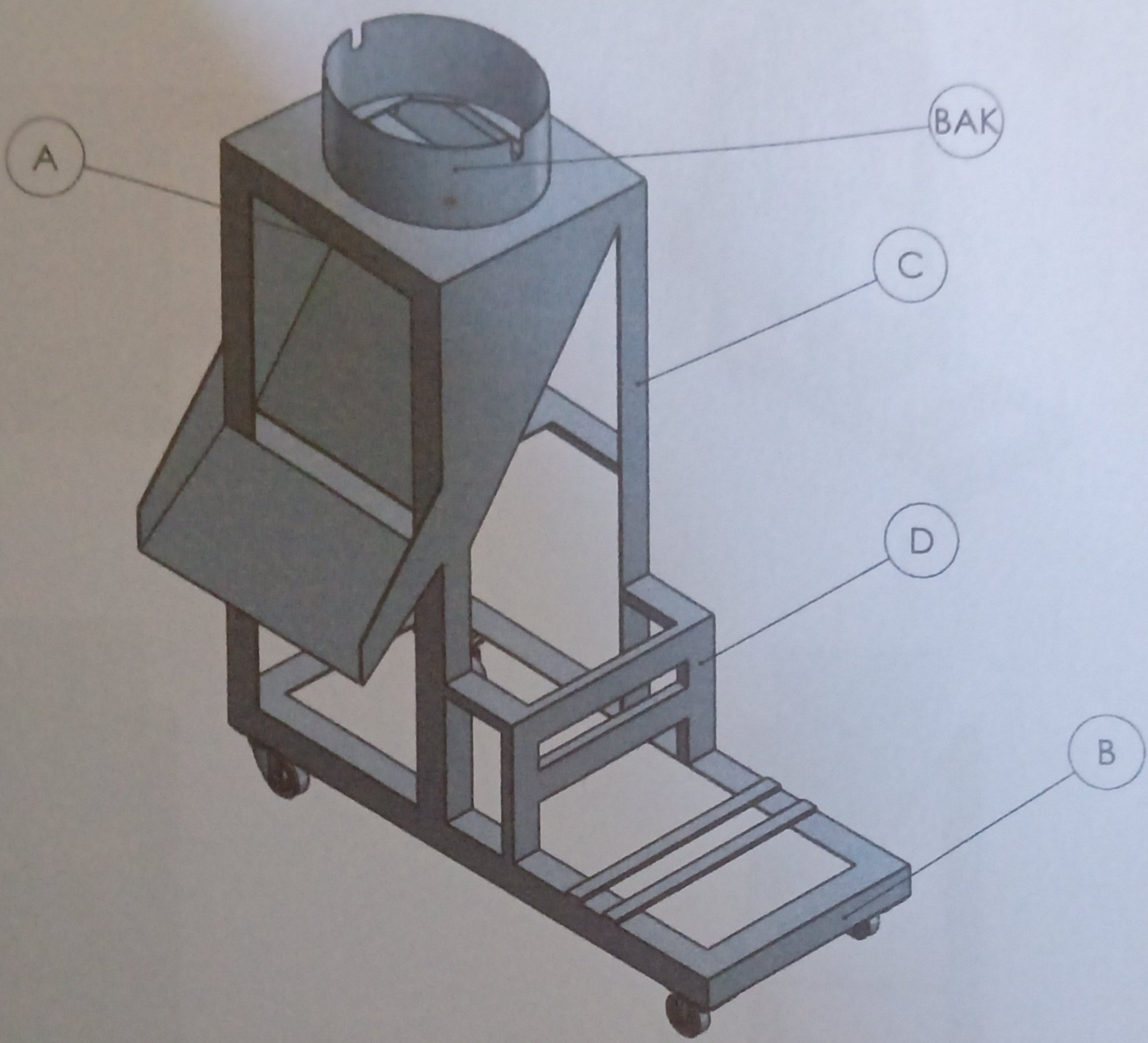
TABEL 2C Feeding mesin bubut berdasarkan bahan dan jenis pahat bubut

Tabel Kecepatan Potong dan Pemakanan/Putaran berdasarkan Bahan dan jenis pahat Bubut

| Material | Ballpark CS with High-Speed Tool | Cutting Speed High-Speed Tool | Cutting Speed Carbide Tool | Feed/Rev HSS Tool Lathe* | Feed/Rev Carbide Tool Lathe* |
|------------------------------|----------------------------------|-------------------------------|----------------------------|--------------------------|------------------------------|
| SAE 1020 - Low Carbon Steel | 100 | 80-120 | 300-400 | .002-.020 | .006-.035 |
| SAE 1050 - High Carbon Steel | 60 | 60-100 | 200 | .002-.015 | .006-.030 |
| Stainless Steel | 100 | 100-120 | 240-300 | .002-.005 | .003-.006 |
| Aluminium | 250 | 400-700 | 800-1000 | .003-.030 | .008-.045 |
| Brass & Bronze | 200 | 110-300 | 600-1000 | .003-.025 | .008-.040 |
| Plastics* | 500 | 500 | 1000 | .005-.050 | .005-.050 |

**Variation in Cutting-Speed & Feed-per-Revolution will exist with different alloys, procedures, tools & desired finishes. Feed-Per-Revolution is also affected by the size of the lathe-tool, as well as the depth of cut. The cutting speed and speed of plastics will vary greatly depending upon the type of plastic.*

| | | | | | | | |
|----|-----------|---------|------|----|-----------|---------|------|
| NO | PERUBAHAN | TANGGAL | NAMA | NO | PERUBAHAN | TANGGAL | NAMA |
| | | | | | | | |



| | | | | | | |
|-------------------|---|--------|--------------|---|-----|---|
| BAK PENAMPUNG | - | PLAT | LIHAT DETAIL | - | BAK | - |
| DUDUKAN PENGGERAK | - | HOLLOW | LIHAT DETAIL | - | D | - |
| RANGKA SUPPORT AB | - | SIKU | LIHAT DETAIL | - | C | - |
| RANGKA BAWAH | - | SIKU | LIHAT DETAIL | - | B | - |
| RANGKA ATAS | - | SIKU | LIHAT DETAIL | - | A | - |

| JML | NAMA BAGIAN | | | | | POS | BAHAN | UKURAN JADI | UKURAN KASAR | NO. ID | F |
|-----|-------------|------|------|------|------|------|---------------|-------------|--------------|----------|---|
| > | 0 | 6 | 30 | 120 | 400 | 1000 | UKURAN LANJUT | | NO. ORDER | PROYEKSI | |
| < | 6 | 30 | 120 | 400 | 1000 | 2000 | | | | | |
| TOL | ±0.1 | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 | | | | | |

NAMA :

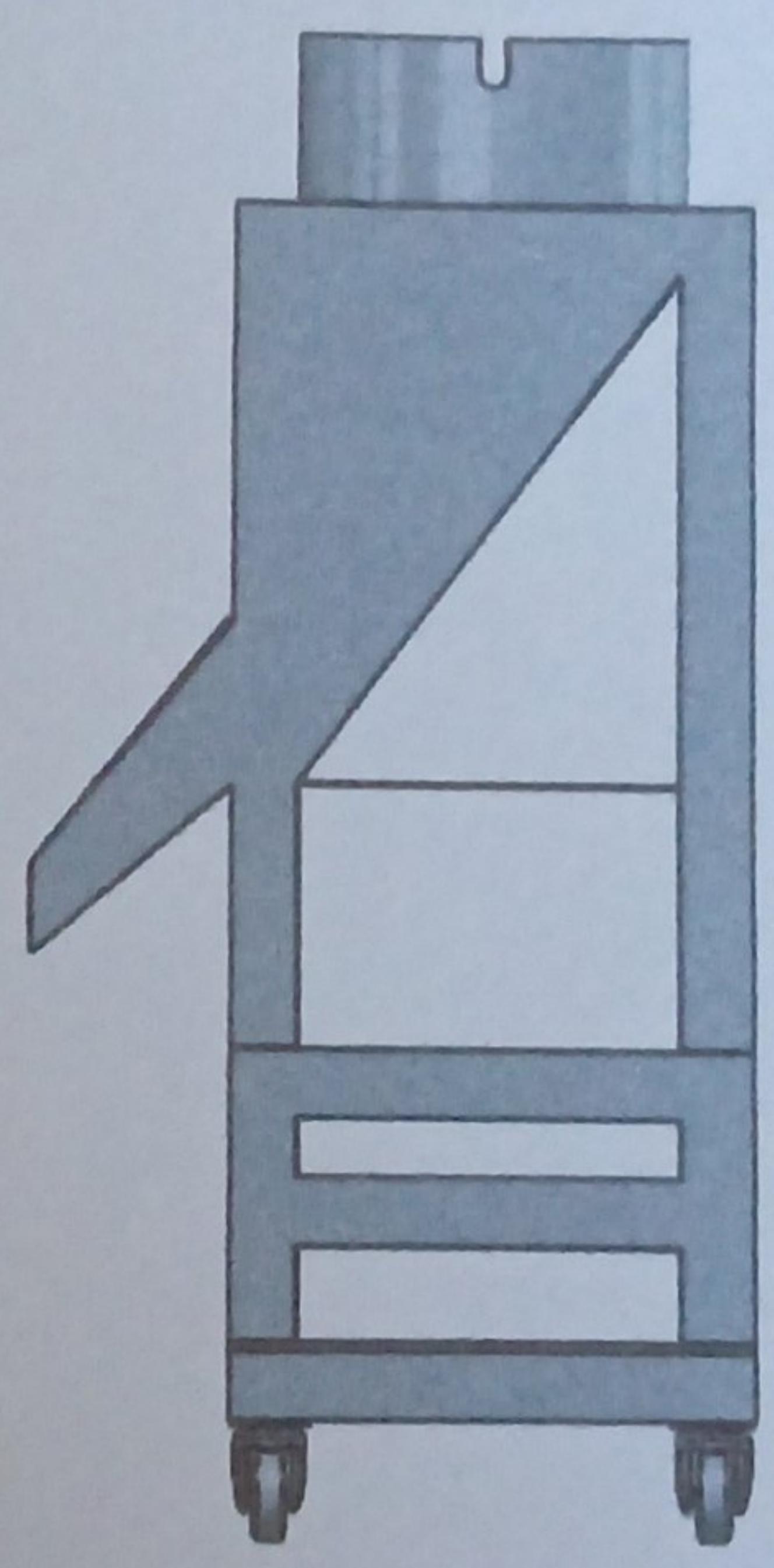
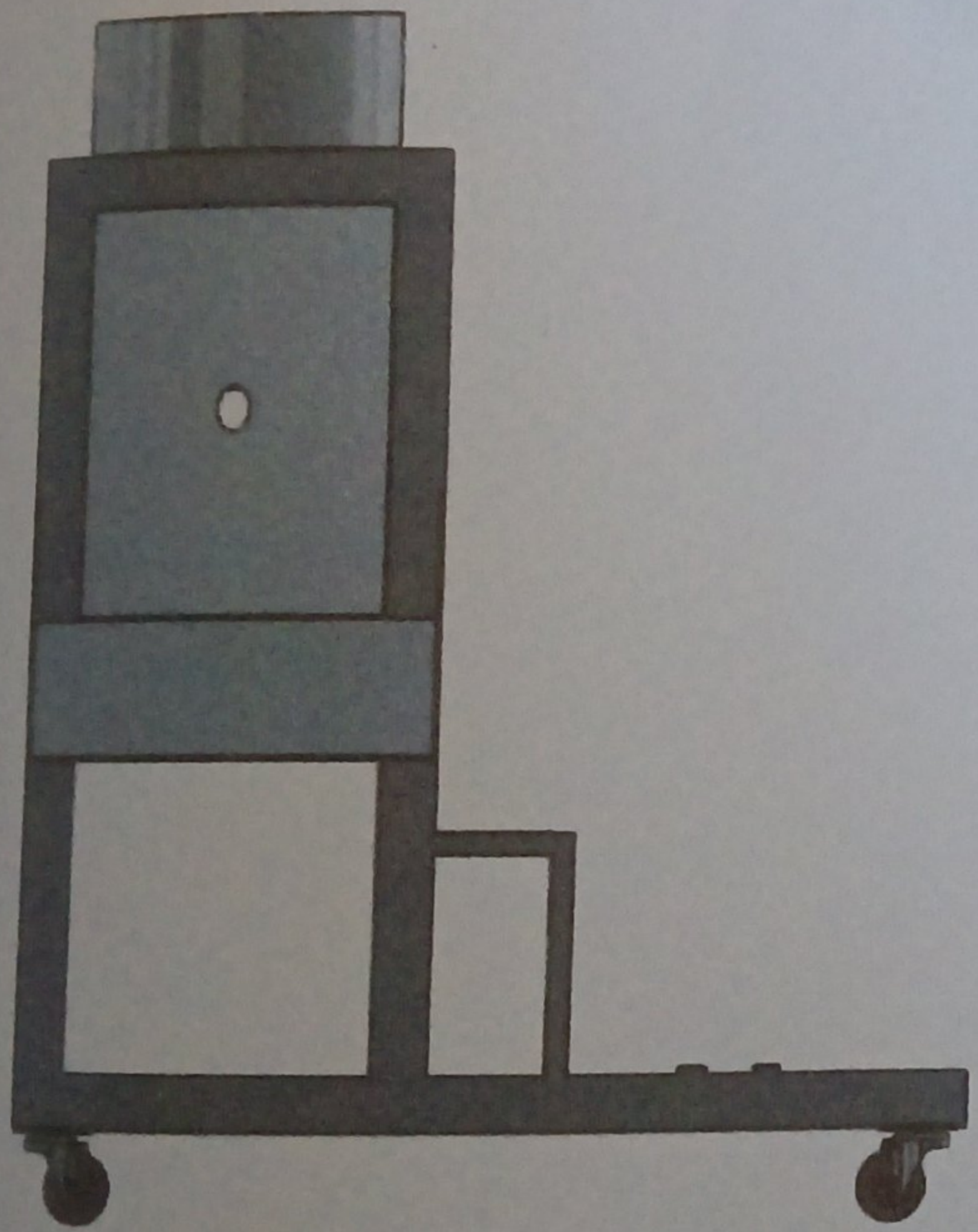
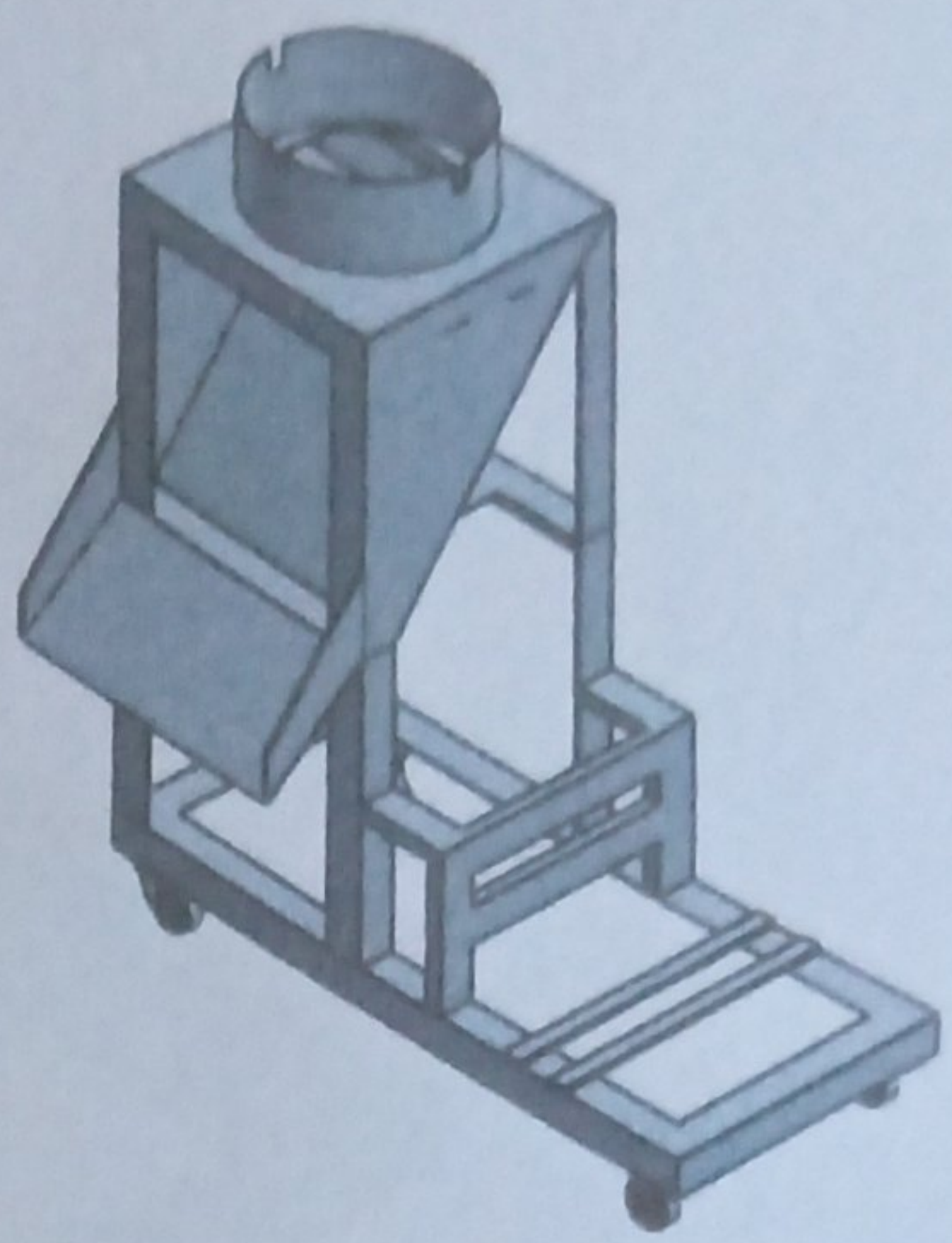
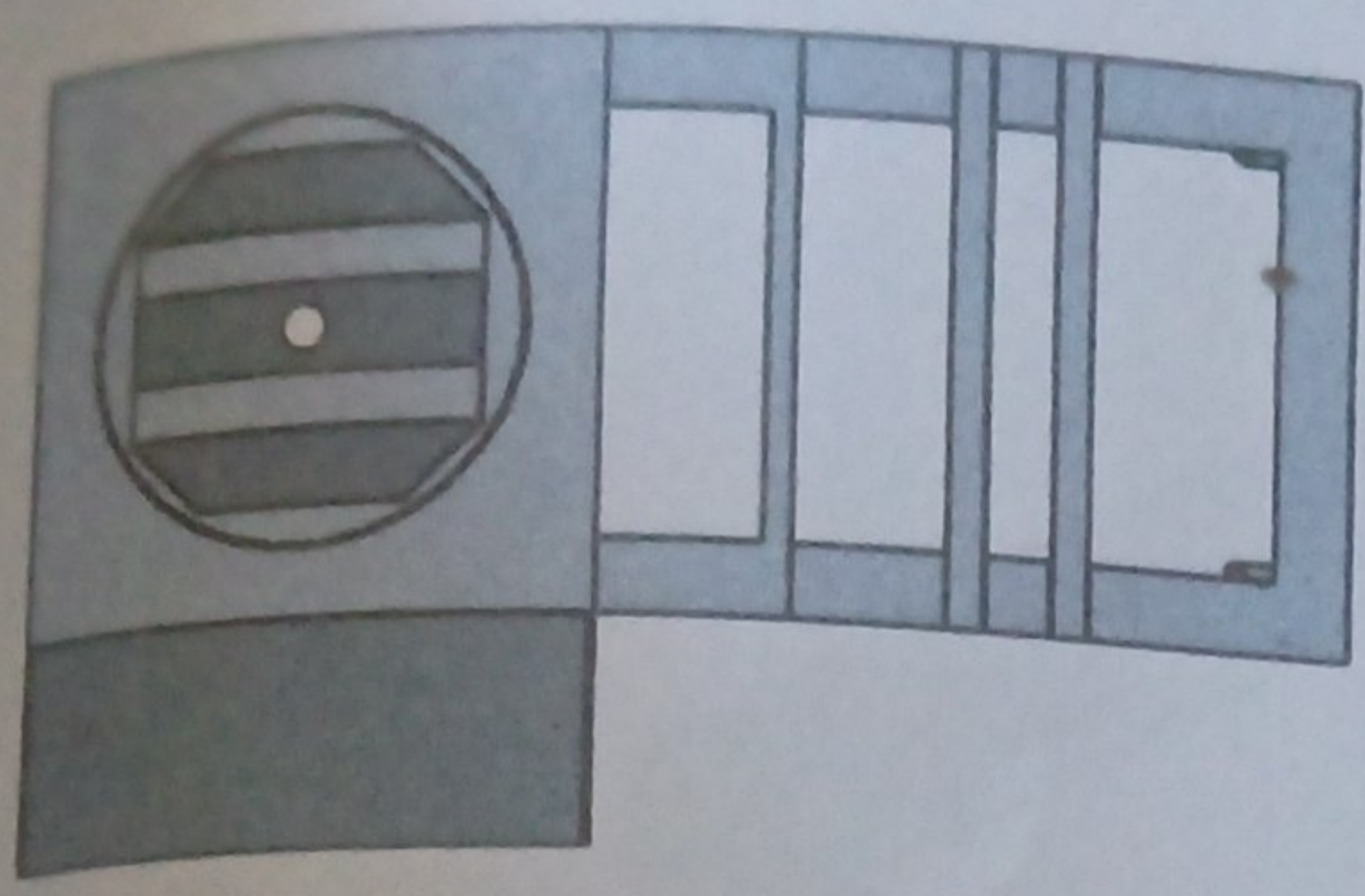
ASSEMBLY RANGKA MESIN PELET

NO. ASSY. :

| | | | |
|--------|-----------|--------|------------|
| SKALA | DIGAMBAR | REZA | 25/07/2024 |
| 1:5 | DIPERIKSA | AKHLIS | |
| | DISAHKAN | RADHI | |
| FORMAT | MPT/01 | | |
| A4 | | | |

POLITEKNIK NEGERI CILACAP, JURUSAN TEKNIK MESIN
 JL. dr. SOETOMO, NO. 01, SIDAKAYA, CILACAP, 53212
 TELP. 0882 - 533329, E-mail: tmpnc@politeknikcilacap.ac.id

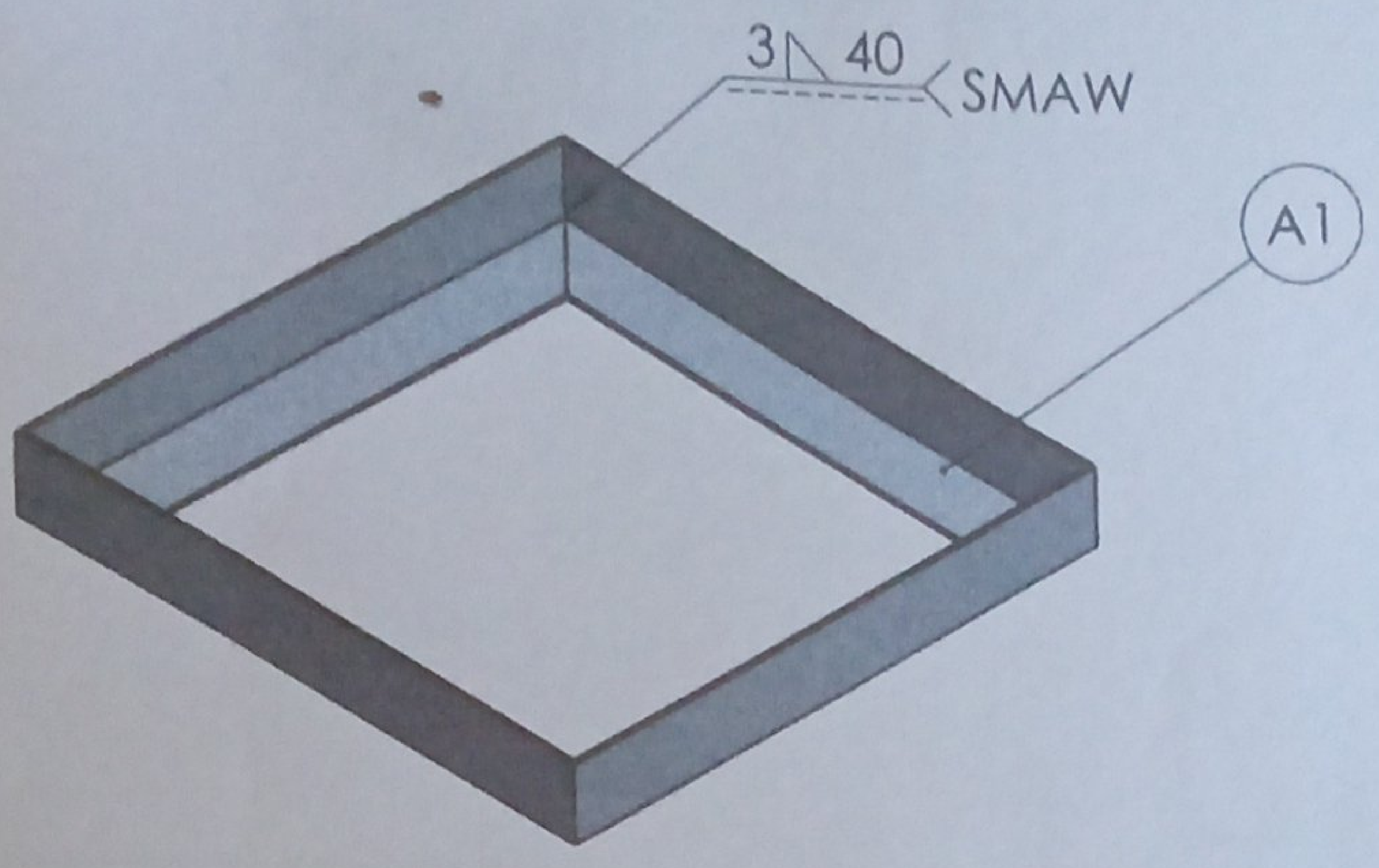
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|---|-----------|---------|------|----|---|-----------|---------|---|------|
| 5 | PERUBAHAN | TANGGAL | NAMA | NO | 2 | PERUBAHAN | TANGGAL | 1 | NAMA |
|---|-----------|---------|------|----|---|-----------|---------|---|------|



| JML | NAMA BAGIAN | | | | | POS | BAHAN | UKURAN JADI | UKURAN KASAR | NO. ID | F | |
|-------------------------------------------------------|-------------|------|------|------|------|------|---------------|----------------------|--------------------------------------------------------------|------------|---|--|
| > | 0 | 6 | 30 | 120 | 400 | 1000 | UKURAN LANJUT | NO. ORDER | PROYEKSI | | | |
| < | 6 | 30 | 120 | 400 | 1000 | 2000 | | | | | | |
| TOL | ±0.1 | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 | | | | | | |
| 3 PANDANGAN UTAMA RANGKA MESIN PELET | | | | | | | | SKALA 1:10 | DIGAMBAR REZA DIPERIKSA AKHLIS DISAHKAN RADHI | 25/07/2024 | A | |
| NO. ASSY. : | | | | | | | | FORMAT A4 | MPT/02 | | | |

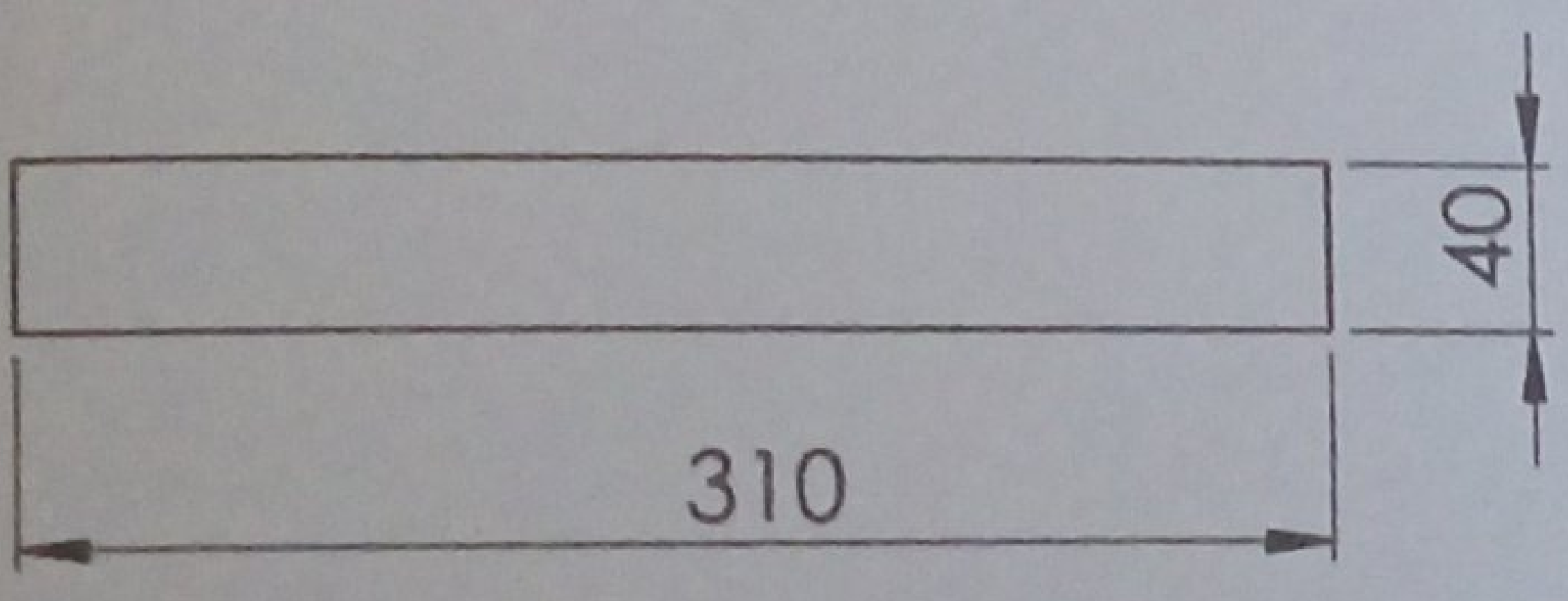
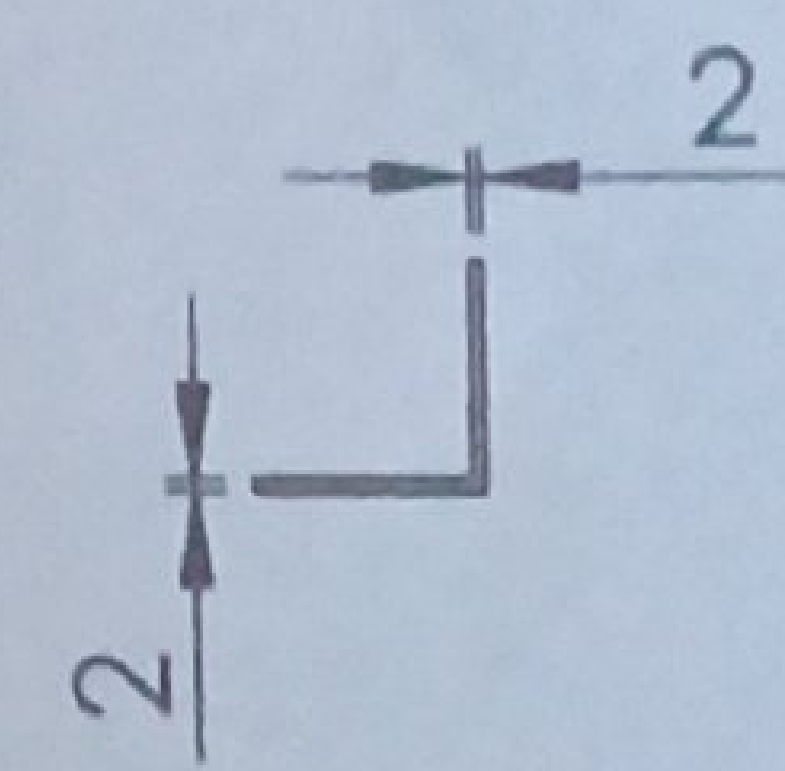
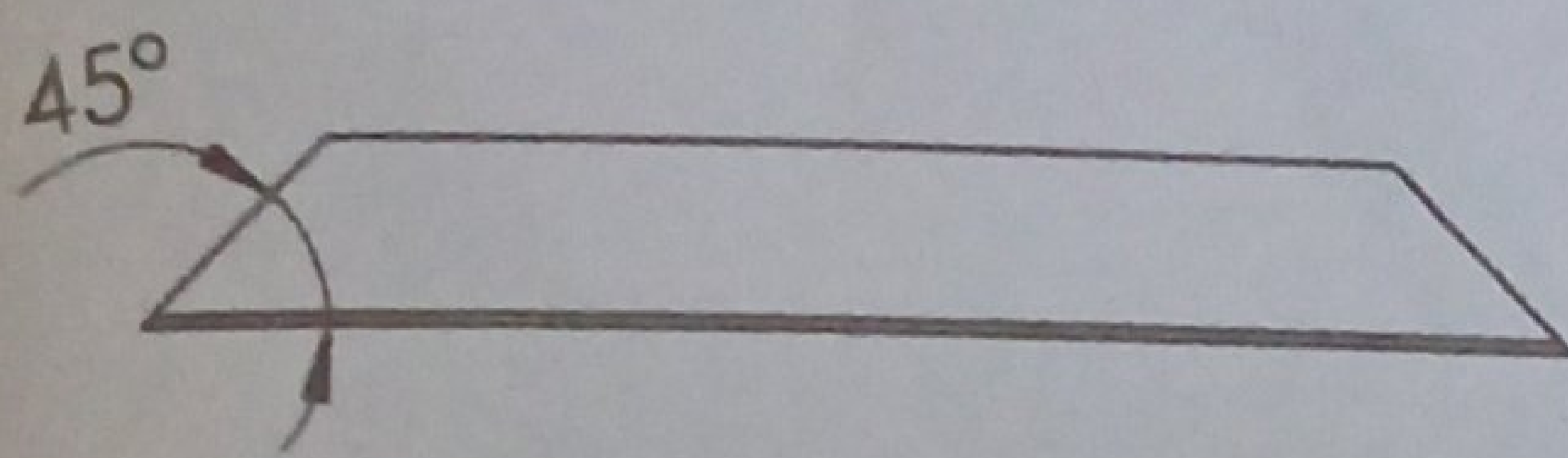
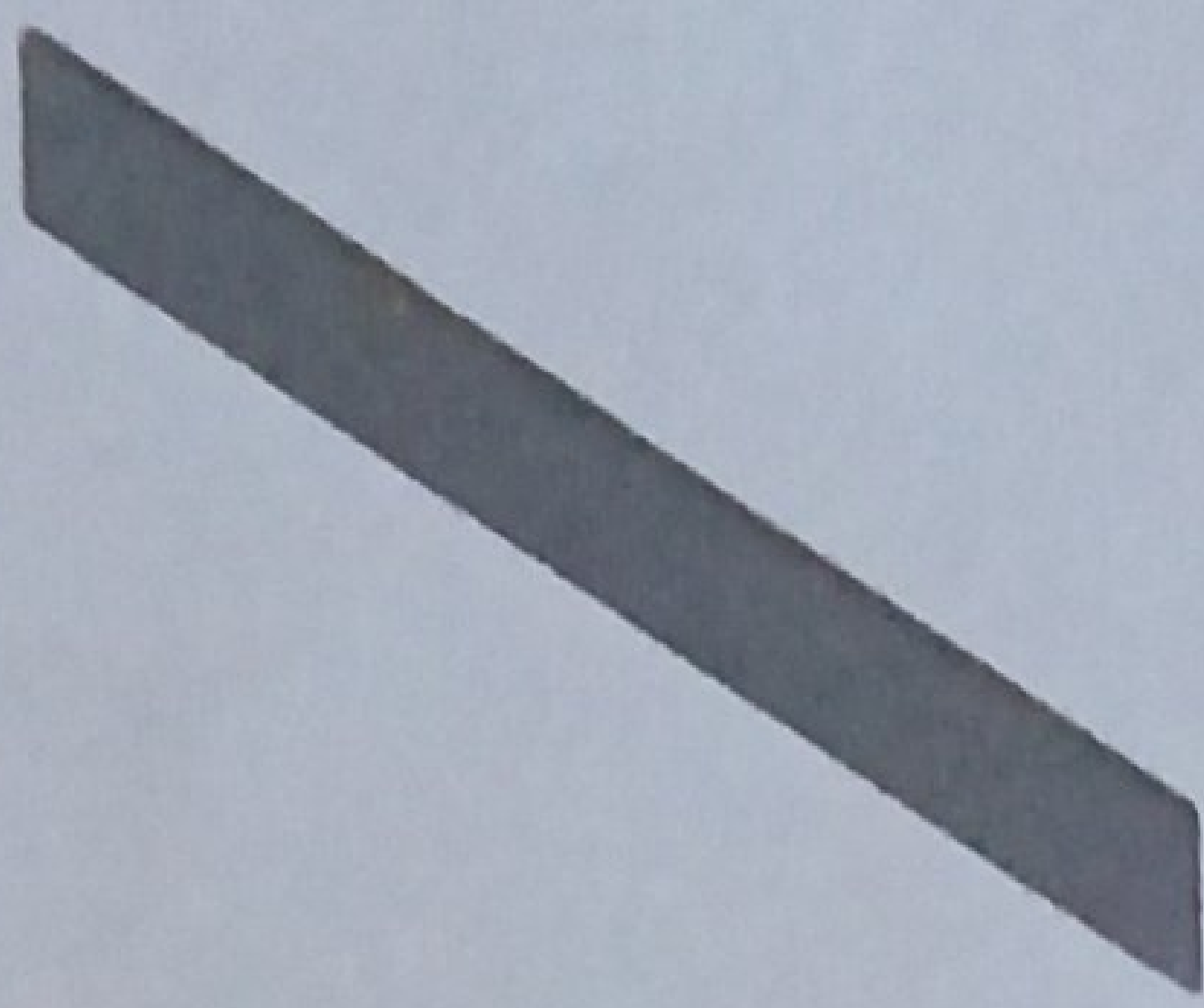
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 JL. dr. SOETOMO, NO. 01, SIDAKAYA, CILACAP, 53212
 TELP. 0282 533329, E-mail : tmpnc@politeknikcilacap.ac.id

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|---|-----------|---|---------|------|---|----|---|-----------|---|---------|------|
| 5 | PERUBAHAN | 4 | TANGGAL | NAMA | 3 | NO | 2 | PERUBAHAN | 1 | TANGGAL | NAMA |
| | | | | | | △ | | | | | |



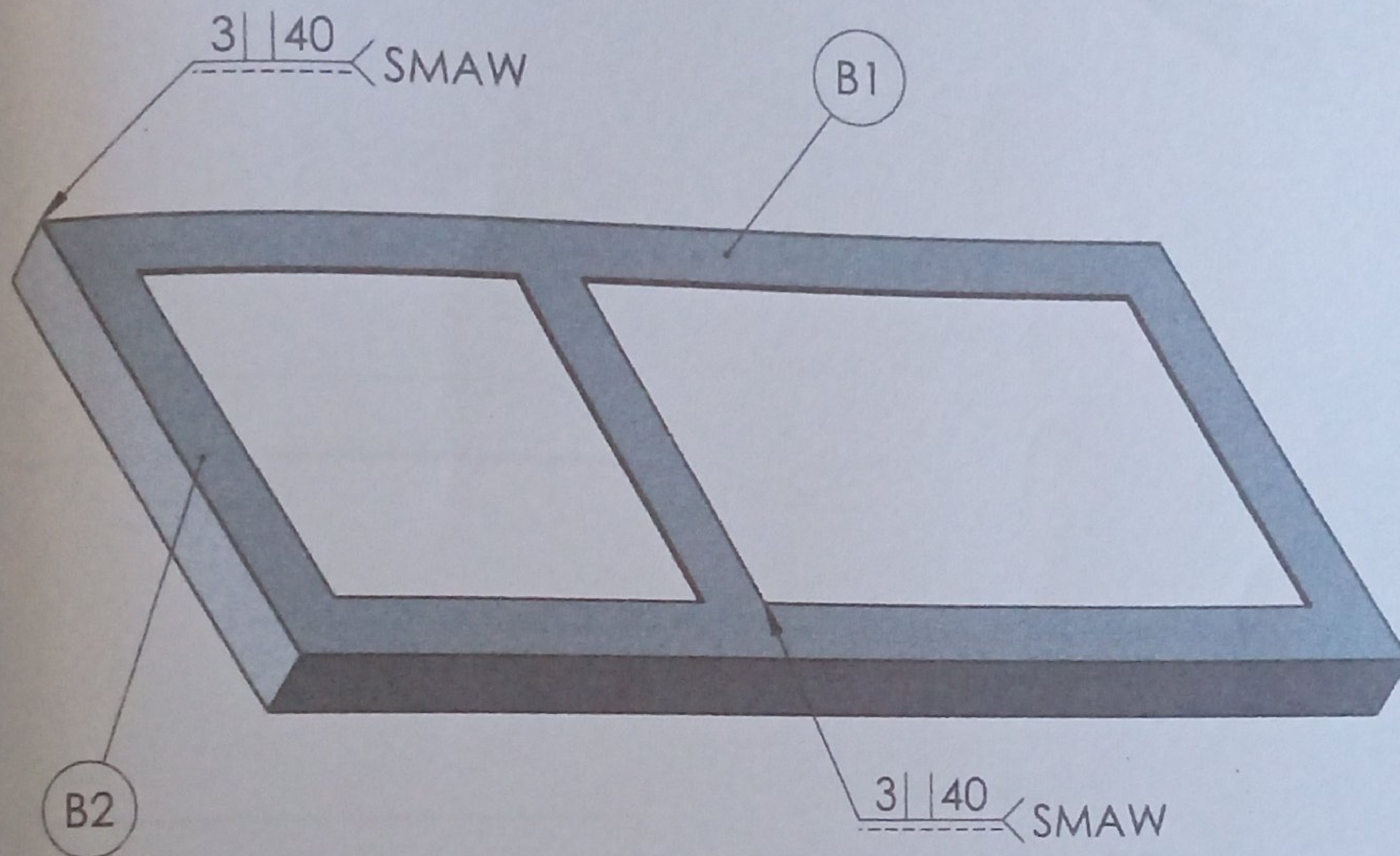
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| 1 | RANGKA PERSEGI ATAS | - | LOGAM | LIHAT DETAIL | - | A1 | - |
| ML | NAMA BAGIAN | POS | BAHAN | UKURAN JADI | UKURAN KASAR | NO. ID | F |
| > | 0 | 6 | 30 | 120 | 400 | 1000 | UKURAN LANJUT |
| < | 6 | 30 | 120 | 400 | 1000 | 2000 | |
| TOL | ±0.1 | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 | |
| RANGKA ATAS | | | | SKALA | DIGAMBAR | REZA | 25/07/2024 |
| | | | | 1:5 | DIPERIKSA | AKHLIS | |
| | | | | | DISAHKAN | RADHI | |
| | | | | FORMAT | MPT/03 | | |
| | | | | A4 | | | |
| POLITEKNIK NEGERI CILACAP, JURUSAN TEKNIK MESIN | | | | 2 | | | |
| Jl. dr. SOETOMO, NO. 01, SIDAKAYA, CILACAP, 53212 | | | | 1 | | | |
| TELP 0282 - 533329, E-mail tmpnc@politeknikcilacap.ac.id | | | | | | | |

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|---|-----------|---|---------|---|------|----|---|-----------|---------|---|------|
| 5 | PERUBAHAN | 4 | TANGGAL | 3 | NAMA | NO | 2 | PERUBAHAN | TANGGAL | 1 | NAMA |
|---|-----------|---|---------|---|------|----|---|-----------|---------|---|------|



| | | | | | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------|-------|--------------|--------------|-----------|---------------|------------|
| 4 | RANGKA PERSEGI ATAS | - | LOGAM | LIHAT DETAIL | - | A1 | - | |
| ML | NAMA BAGIAN | POS | BAHAN | UKURAN JADI | UKURAN KASAR | NO. ID | F | |
| > | 0 | 6 | 30 | 120 | 400 | 1000 | UKURAN LANJUT | |
| < | 6 | 30 | 120 | 400 | 1000 | 2000 | | |
| TOL | ±0.1 | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 | | |
| NAMA : RANGKA ATAS | | | | | SKALA | DIGAMBAR | REZA | 25/07/2024 |
| | | | | | 1:5 | DIPERIKSA | AKHLIS | |
| | | | | | | DISAHKAN | RADHI | |
| | | | | | | FORMAT | MPT/04 | |
| NO ASSY. : | | | | | A4 | | | |
| POLITEKNIK NEGERI CILACAP, JURUSAN TEKNIK MESIN J.L. dr. SCETOMO, NO. 01, SIDAKAYA, CILACAP, 53212 TELP : 0282 - 533329, E-mail : tmpnc@politeknikcilacap.ac.id | | | | | | | | |

| | | | | | | | | | | | |
|---|-----------|---|---------|---|------|----|---|-----------|---|---------|------|
| 5 | PERUBAHAN | 4 | TANGGAL | 3 | NAMA | NO | 2 | PERUBAHAN | 1 | TANGGAL | NAMA |
| | | | | | | | | | | | |



| | | | | | | | | |
|-----------------------------------------------------------|--------------|------|-------|--------------|--------------|-----------|---------------|------------|
| 2 | RANGKA BAWAH | - | LOGAM | LIHAT DETAIL | - | B1 | - | |
| 2 | RANGKA BAWAH | - | LOGAM | LIHAT DETAIL | - | B2 | - | |
| | NAMA BAGIAN | POS | BAHAN | UKURAN JADI | UKURAN KASAR | NO. ID | F | |
| > | 0 | 6 | 30 | 120 | 400 | 1000 | UKURAN LANJUT | |
| < | 6 | 30 | 120 | 400 | 1000 | 2000 | | |
| TOL | ±0.1 | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 | | |
| NAMA : | | | | | SKALA | DIGAMBAR | REZA | 25/07/2024 |
| RANGKA BAWAH | | | | | 1:5 | DIPERIKSA | AKHLIS | |
| | | | | | | DISAHKAN | RADHI | |
| | | | | | | FORMAT | | |
| NO ASSY : | | | | | A4 | | | |
| POLITEKNIK NEGERI CILACAP, JURUSAN TEKNIK MESIN | | | | | | | | |
| Jl. Dr. SOETOMO, NO. 01, SIDAKAYA, CILACAP, 53212 | | | | | | | | |
| TELP. 0282 - 533329, E-mail: info@politeknikcilacap.ac.id | | | | | | | | |

PERUBAHAN

TANGGAL

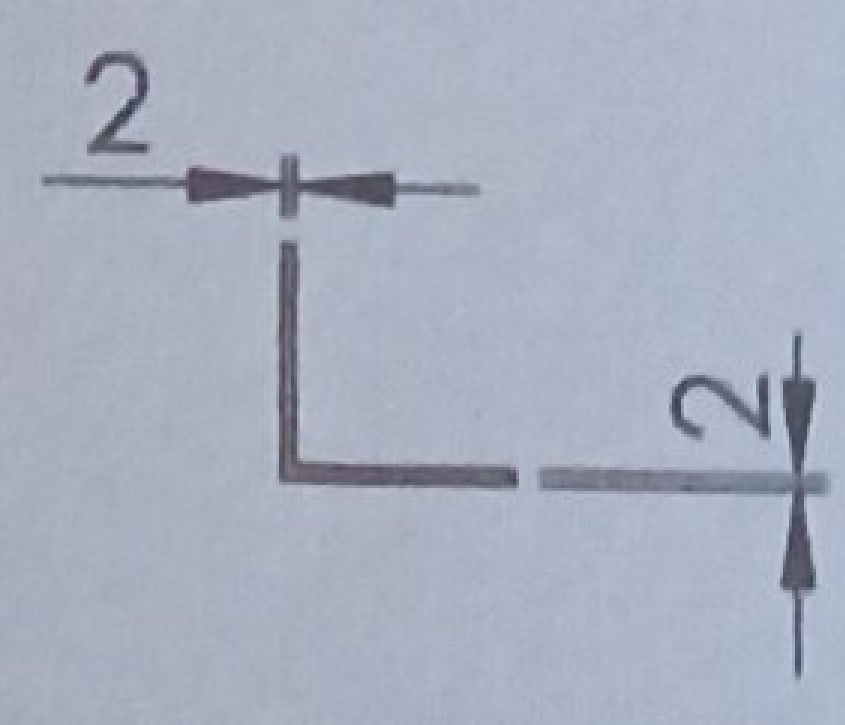
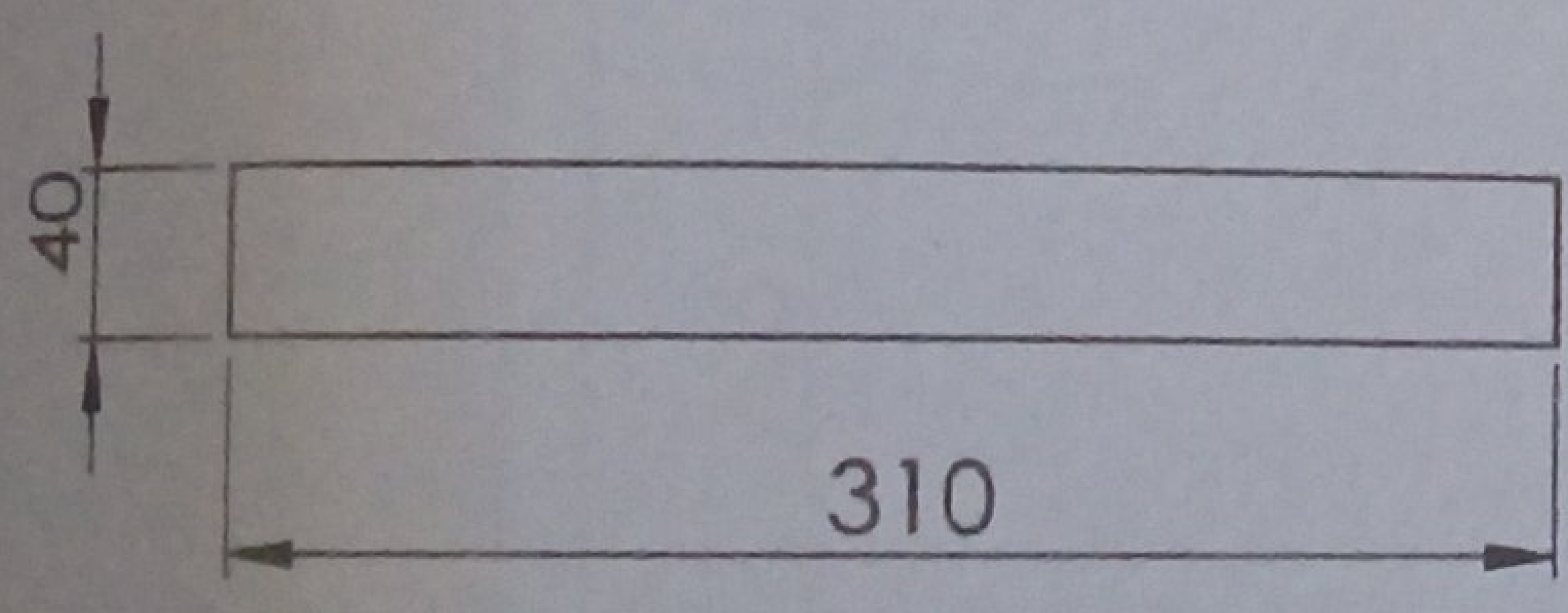
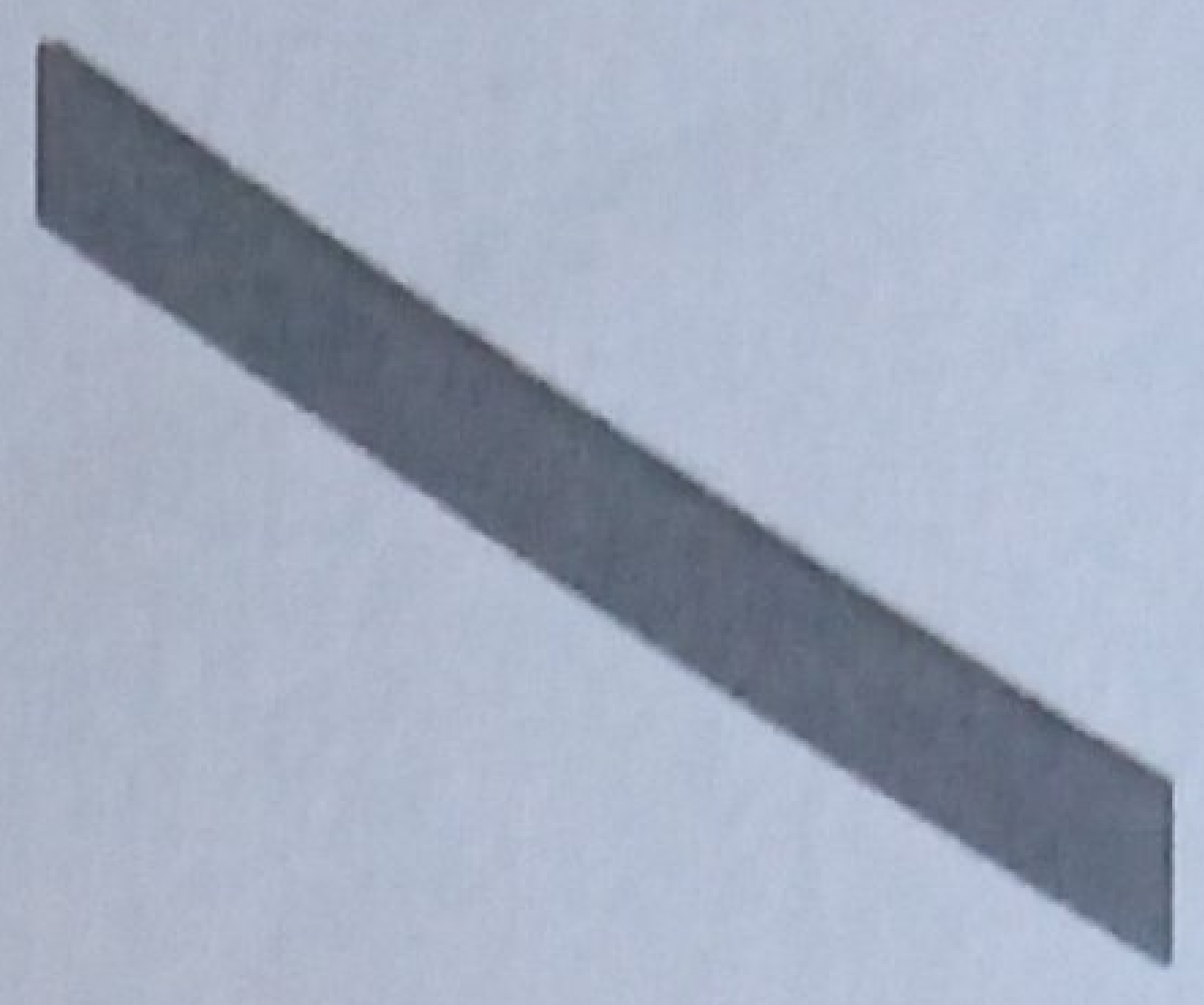
NAMA

NO

PERUBAHAN

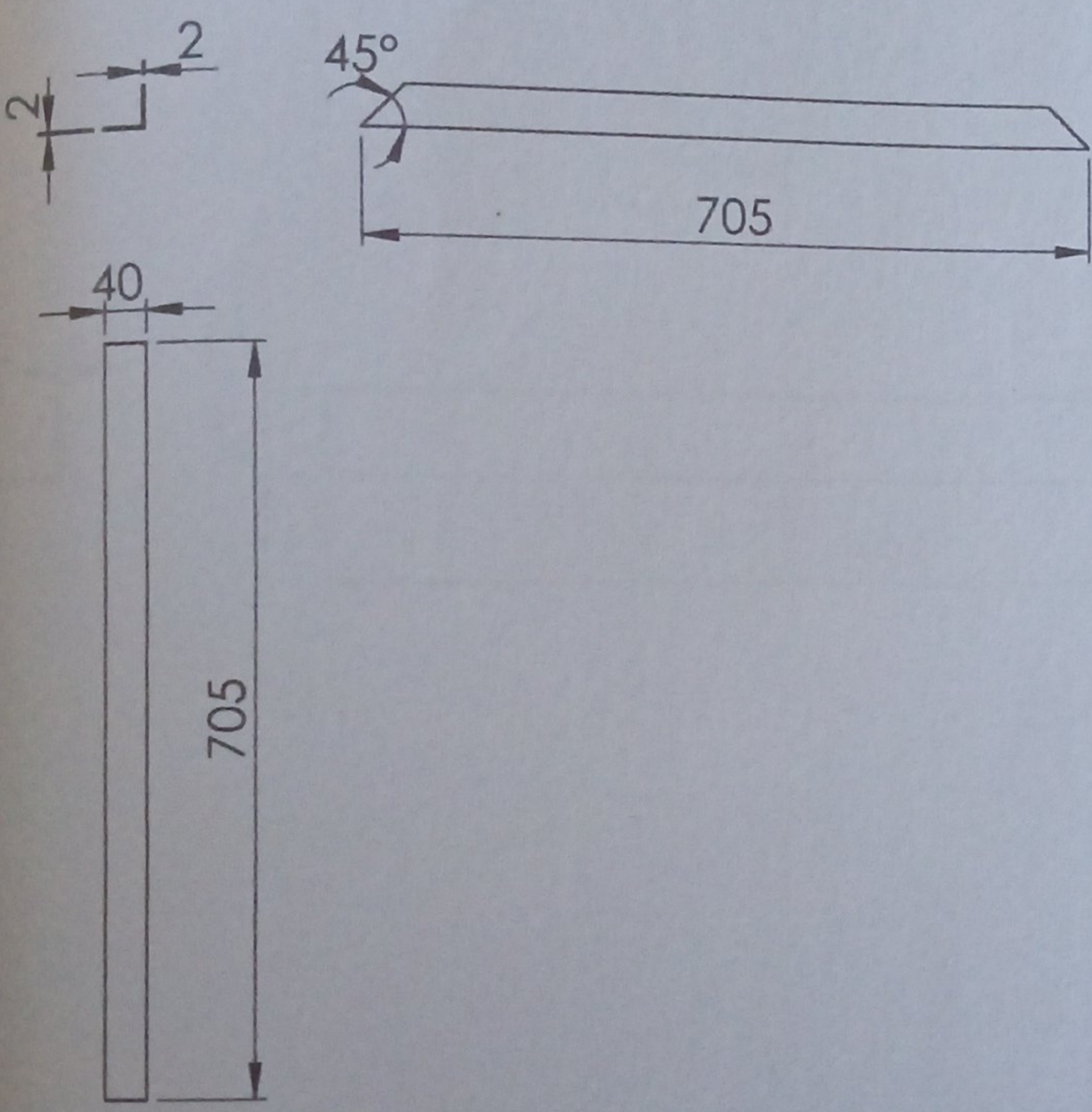
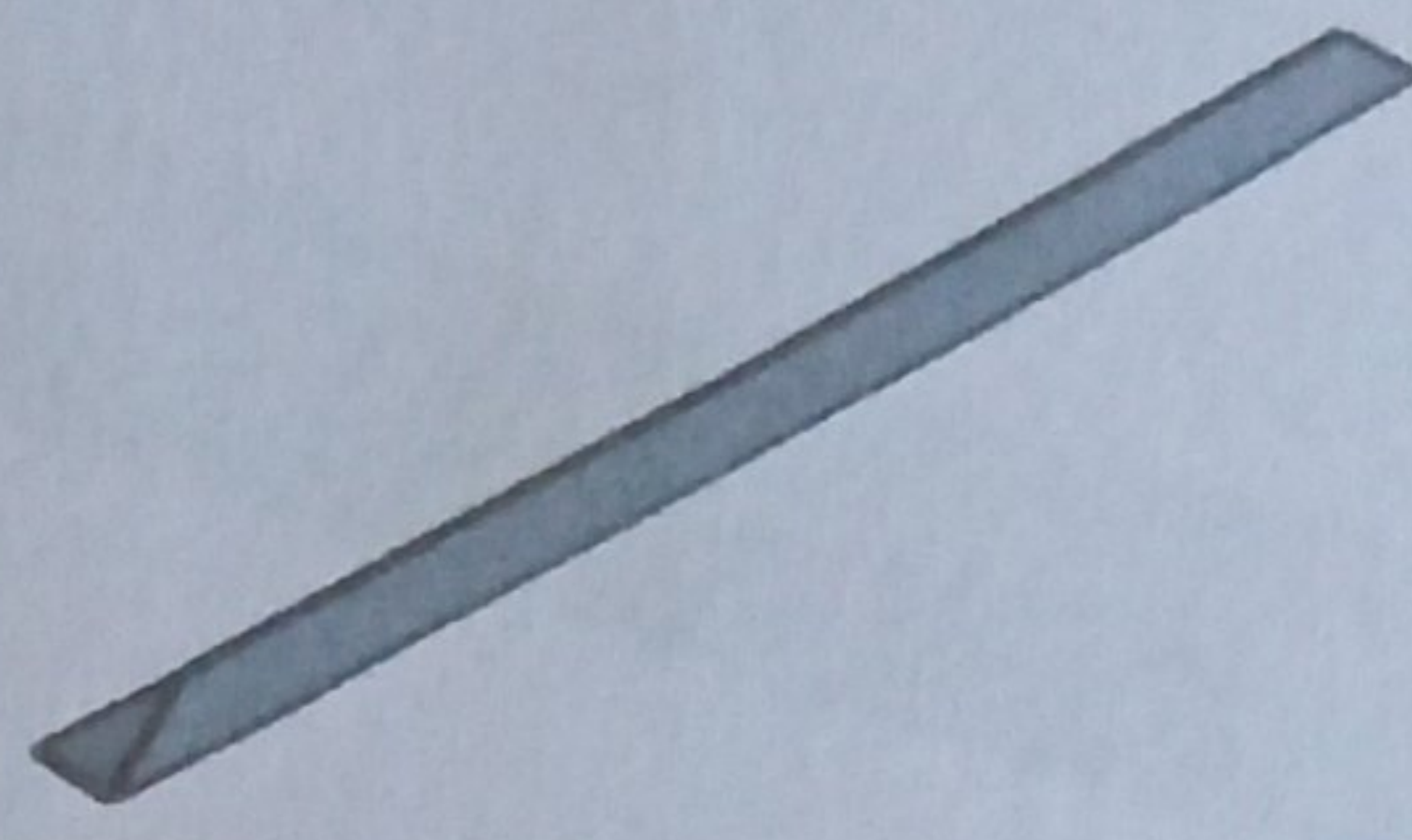
TANGGAL

NAMA



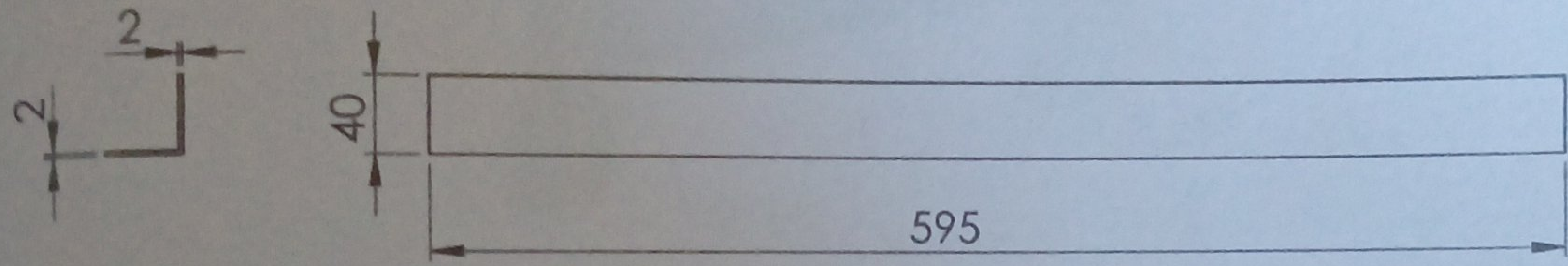
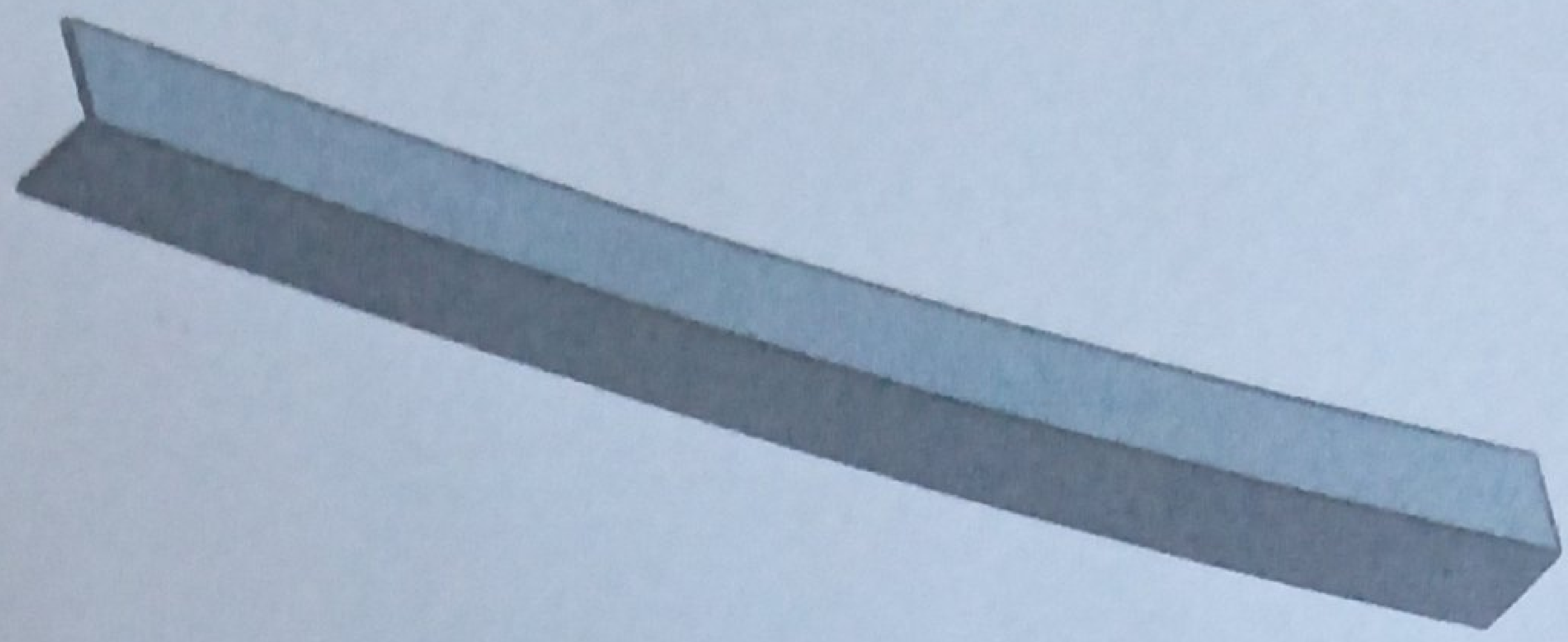
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|---------------------------------------------------------------|--------------|------|-------|--------------|--------------|-----------|---------------|------------|
| 2 | RANGKA BAWAH | - | LOGAM | LIHAT DETAIL | - | B2 | - | |
| NO. BAGIAN | NAMA BAGIAN | POS | BAHAN | UKURAN JADI | UKURAN KASAR | NO. ID | F | |
| > | 0 | 6 | 30 | 120 | 400 | 1000 | UKURAN LANJUT | |
| < | 6 | 30 | 120 | 400 | 1000 | 2000 | | |
| TOL | ±0.1 | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 | | |
| NAMA : | | | | | SKALA | DIGAMBAR | REZA | 25/07/2024 |
| RANGKA BAWAH | | | | | 1:5 | DIPERIKSA | AKHLIS | |
| | | | | | | DISAHKAN | RADHI | |
| | | | | | | FORMAT | | |
| NO. ASSY : | | | | | A4 | | | |
| POLITEKNIK NEGERI CILACAP, JURUSAN TEKNIK MESIN | | | | | 2 | 1 | | |
| JL. dr. SOETOMO, NO. 01, SIDAKAYA, CILACAP, 53212 | | | | | | | | |
| TELP : 0282 - 533329, E-mail : tmprnc@politeknikcilacap.ac.id | | | | | | | | |

| | | | | | | | | | | | |
|---|-----------|---|---------|------|---|----|---|-----------|---------|---|------|
| 5 | PERUBAHAN | 4 | TANGGAL | NAMA | 3 | NO | 2 | PERUBAHAN | TANGGAL | 1 | NAMA |
| | | | | | | | | | | | |



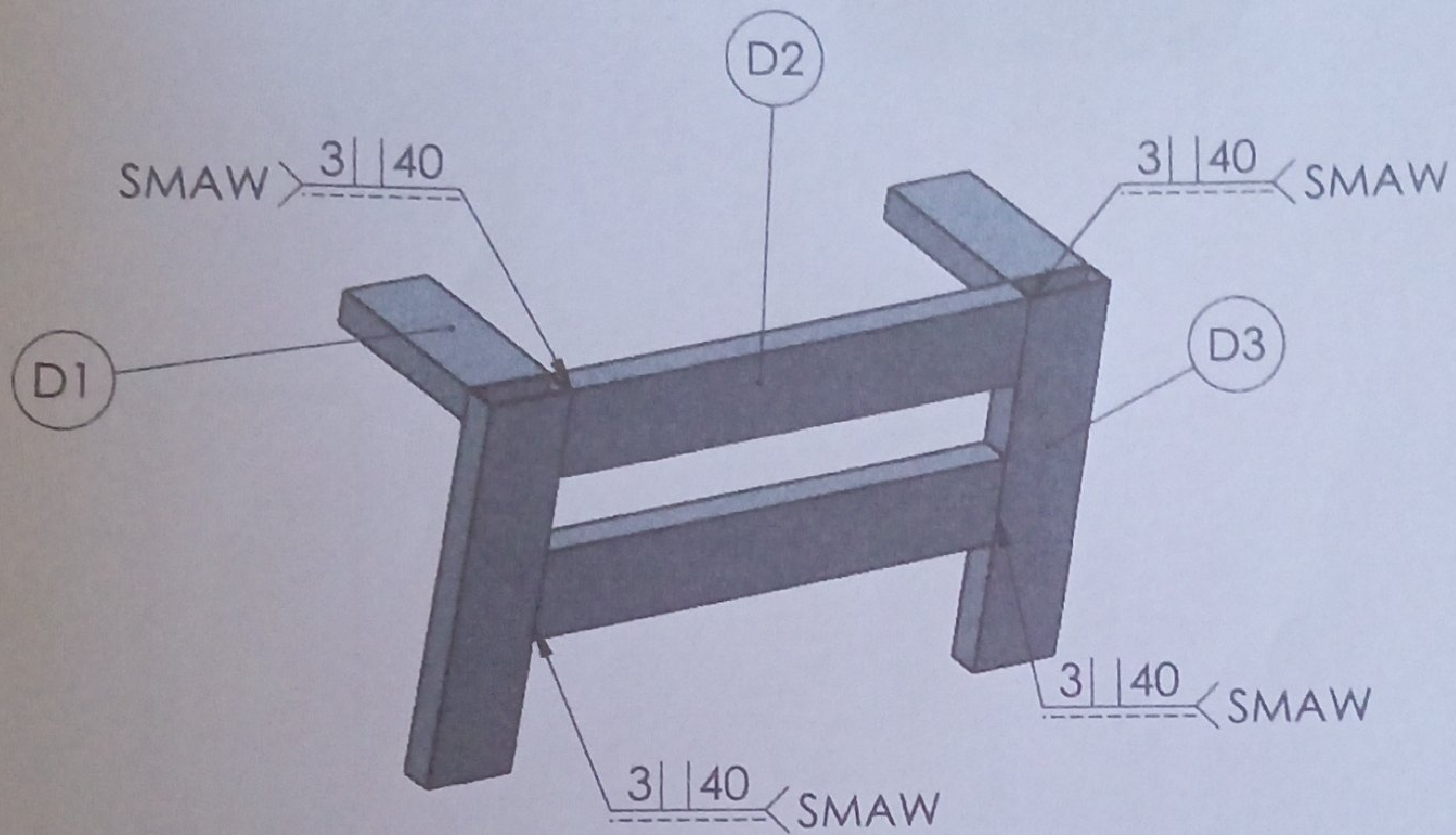
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|--------|--------------|------|-------|--------------|--------------|-----------|---------------|
| 2 | RANGKA BAWAH | - | LOGAM | LIHAT DETAIL | - | B1 | - |
| ML | NAMA BAGIAN | POS | BAHAN | UKURAN JADI | UKURAN KASAR | NO. ID | F |
| > | 0 | 6 | 30 | 120 | 400 | 1000 | UKURAN LANJUT |
| < | 6 | 30 | 120 | 400 | 1000 | 2000 | |
| TOL | ±0.1 | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 | |
| NAMA : | | | | RANGKA BAWAH | | NO. ORDER | |
| | | | | SKALA | | PROYEKSI | |
| | | | | 1:10 | | | |
| | | | | DIGAMBAR | | REZA | 25/07/2024 |
| | | | | DIPERIKSA | | AKHLIS | |
| | | | | DISAHKAN | | RADHI | |
| | | | | FORMAT | | MPT/07 | |
| | | | | A4 | | | |
| | | | | 2 | | 1 | |

| | | | | |
|-----------|---------|------|---------|-----------|
| 5 | 4 | 3 | 2 | 1 |
| PERUBAHAN | TANGGAL | NAMA | NO | PERUBAHAN |
| | | | △ | |
| NO | | | TANGGAL | NAMA |



| | | | | | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------|-------|--------------|------------------|-----------|---------------|------------|
| 4 | RANGKA SUPPORT | - | LOGAM | LIHAT DETAIL | - | C | - | |
| JML | NAMA BAGIAN | POS | BAHAN | UKURAN JADI | UKURAN KASAR | NO. ID | F | |
| > | 0 | 6 | 30 | 120 | 400 | 1000 | UKURAN LANJUT | |
| < | 6 | 30 | 120 | 400 | 1000 | 2000 | | |
| TOL | ±0.1 | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 | | |
| NAMA : | | | | | SKALA | DIGAMBAR | REZA | 25/07/2024 |
| RANGKA SUPORT A & B | | | | | 1:5 | DIPERIKSA | AKHLIS | |
| | | | | | | DISAHKAN | RADHI | |
| | | | | | | FORMAT | | |
| NO. ASSY. : | | | | | A4 | | | |
| POLITEKNIK NEGERI CILACAP, JURUSAN TEKNIK MESIN JL. dr. SOETOMO, NO. 01, SIDAKAYA, CILACAP, 53212 TELP : 0282 - 533329, E-mail :mpnc@politeknikcilacap.ac.id | | | | | DIGANTI DENGAN : | | | |

| | | | | | | | |
|----|-----------|---------|------|----|-----------|---------|------|
| 5 | 4 | 3 | 2 | 1 | | | |
| NO | PERUBAHAN | TANGGAL | NAMA | NO | PERUBAHAN | TANGGAL | NAMA |
| | | | | △ | | | |



| 2 | RANGKA DUDUKAN | - | GLV | LIHAT DETAIL | - | D3 | - |
|----|----------------|------|-------|--------------|--------------|--------|---------------|
| 2 | RANGKA DUDUKAN | - | GLV | LIHAT DETAIL | - | D2 | - |
| 2 | RANGKA DUDUKAN | - | GLV | LIHAT DETAIL | - | D1 | - |
| ML | NAMA BAGIAN | POS | BAHAN | UKURAN JADI | UKURAN KASAR | NO. ID | F |
| > | 0 | 6 | 30 | 120 | 400 | 1000 | UKURAN LANJUT |
| < | 6 | 30 | 120 | 400 | 1000 | 2000 | |
| OL | ±0.1 | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 | |

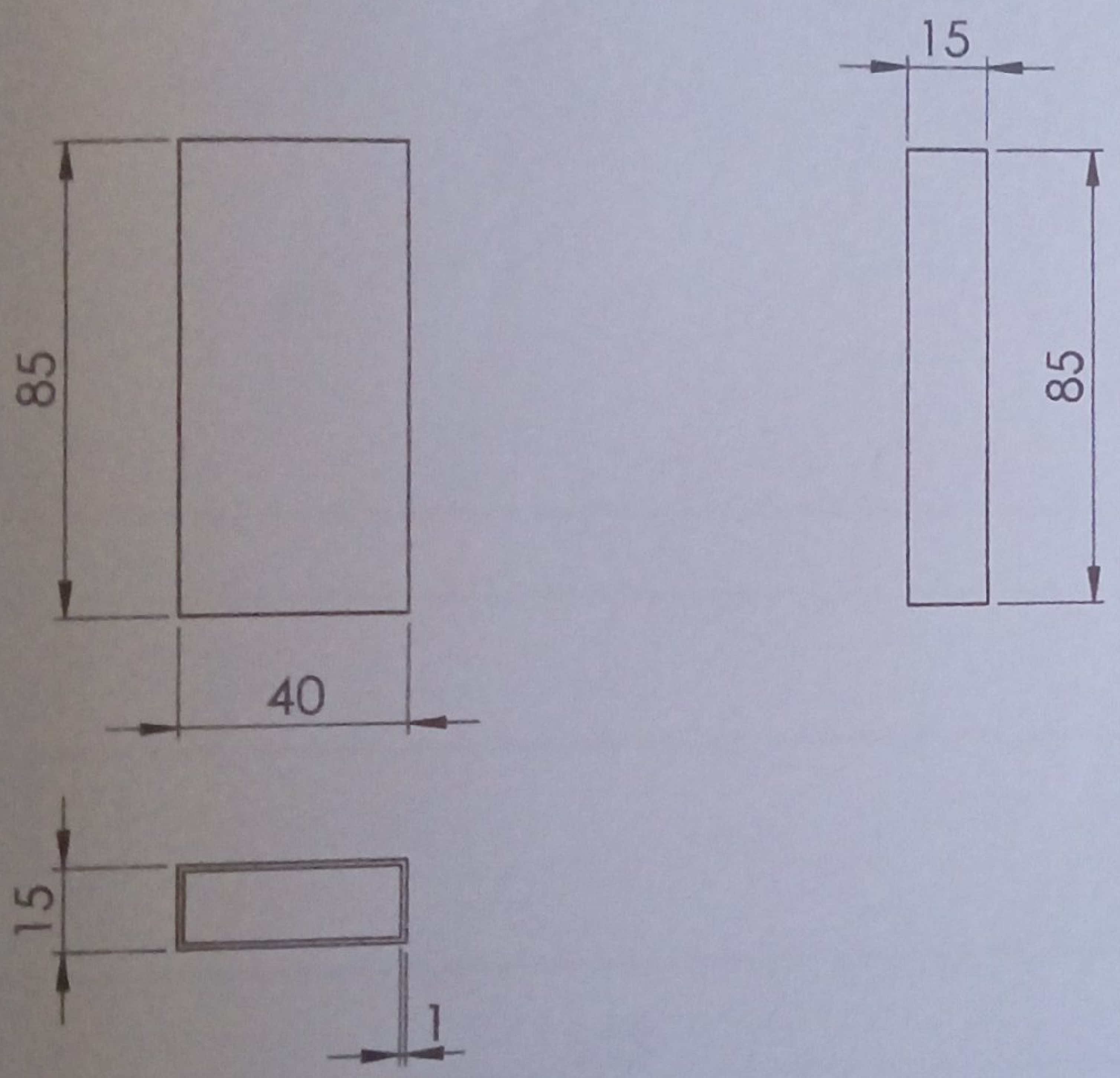
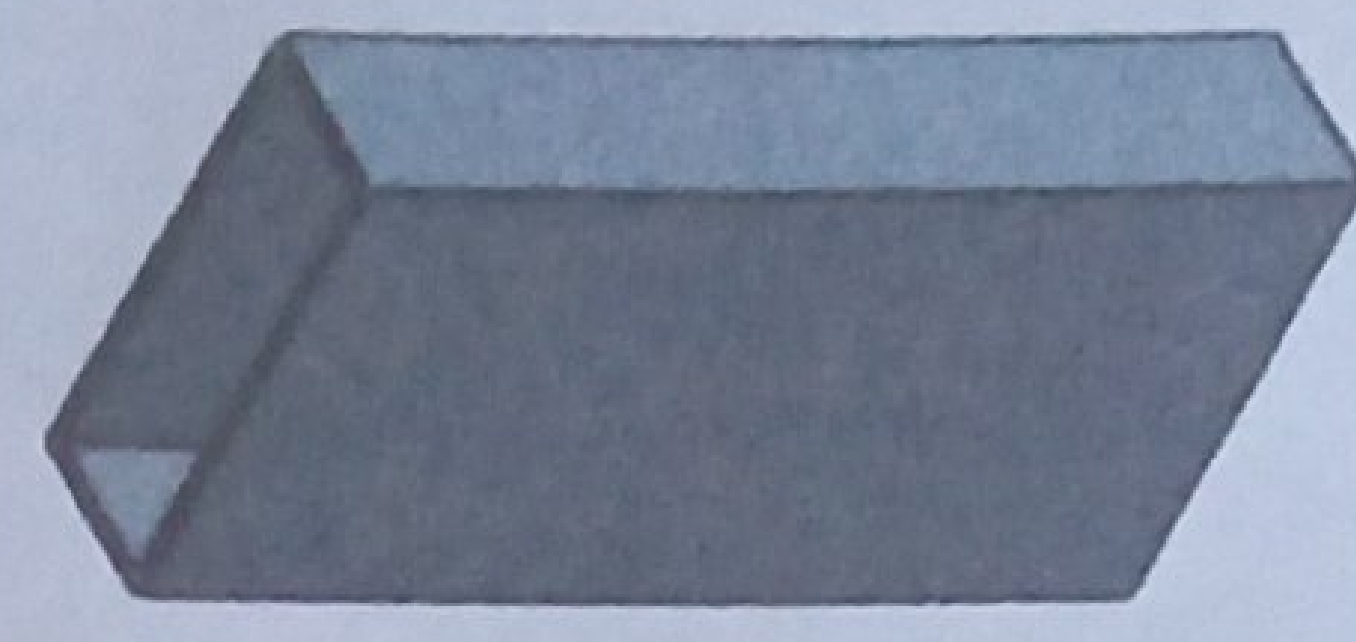
NO. ORDER

PROYEKSI

| | | | | |
|--------|-------|-----------|--------|------------|
| NAMA : | SKALA | DIGAMBAR | REZA | 25/07/2024 |
| | 1:5 | DIPERIKSA | AKHLIS | |
| | | DISAHKAN | RADHI | |
| | | | | |

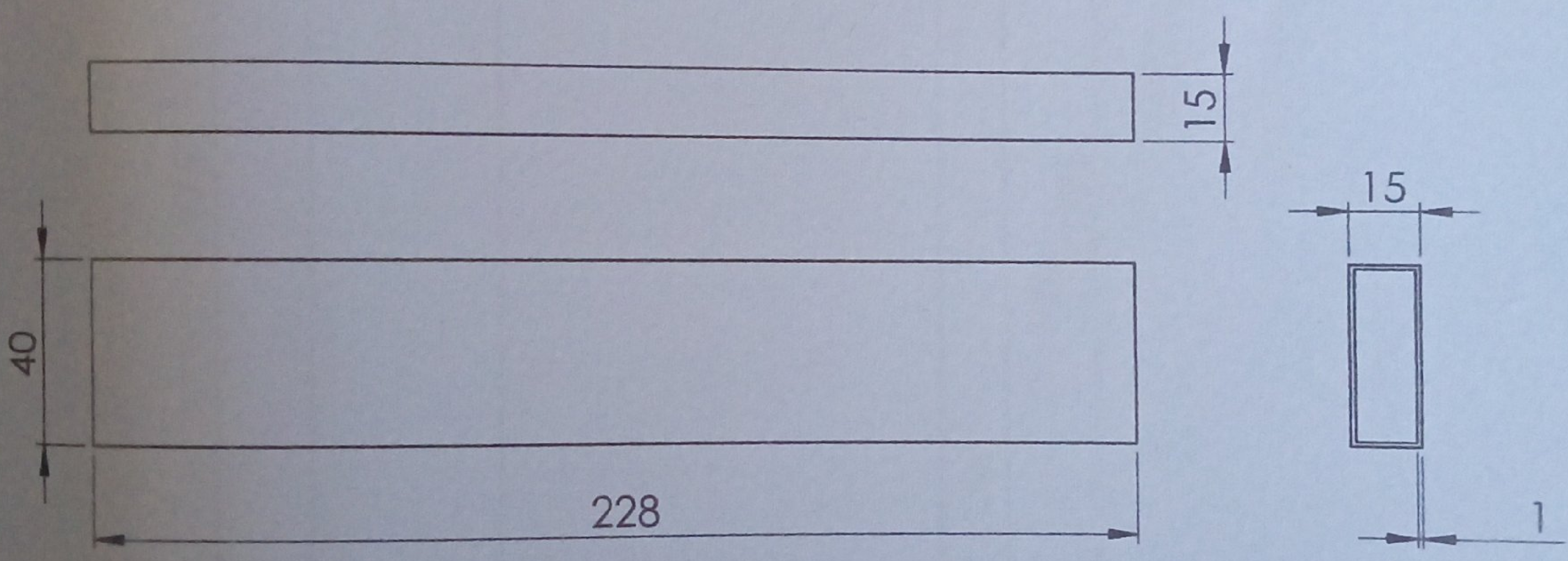
RANGKA DUDUKAN PENGGERAK

| | | | | | | | | | |
|----|-----------|---------|------|----|-----------|---------|------|---|--|
| 5 | | 4 | | 3 | | 2 | | 1 | |
| NO | PERUBAHAN | TANGGAL | NAMA | NO | PERUBAHAN | TANGGAL | NAMA | | |
| | | | | △ | | | | | |



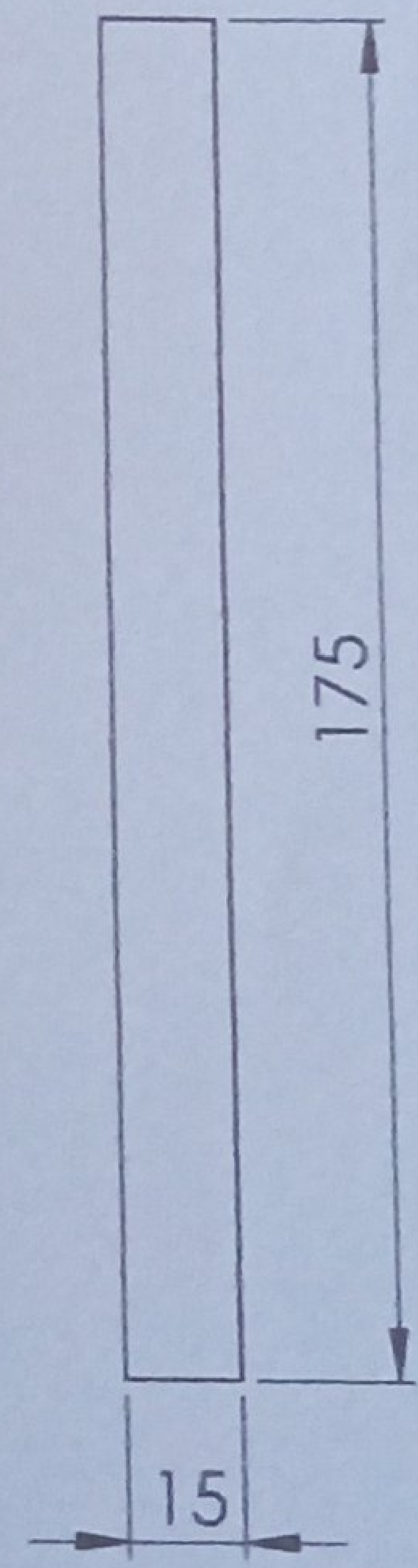
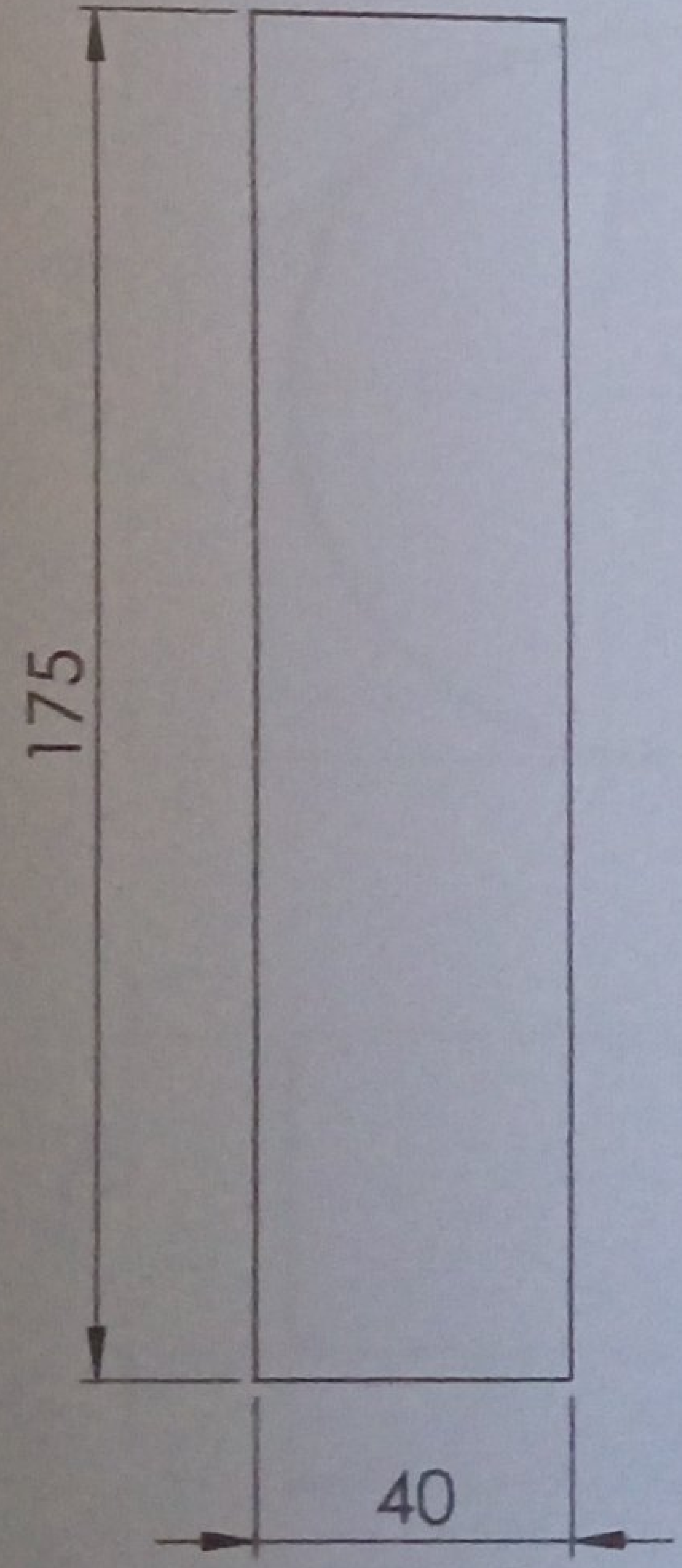
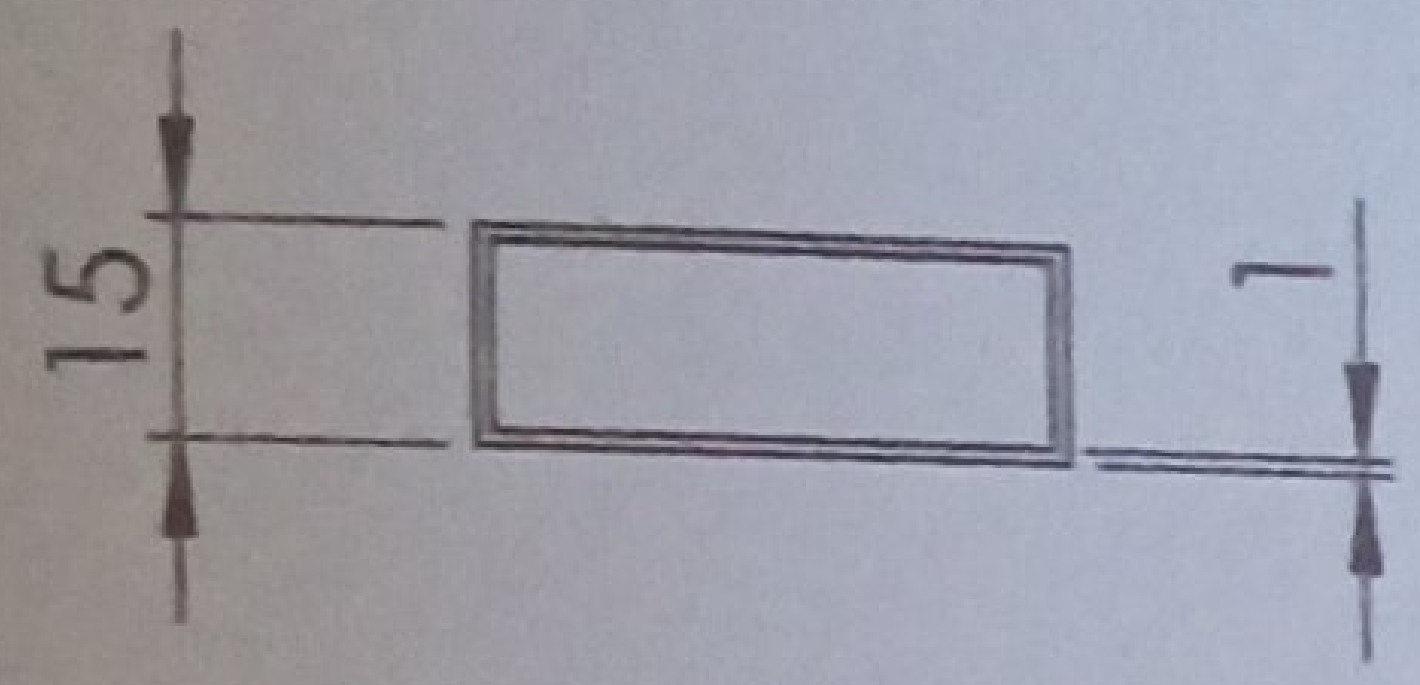
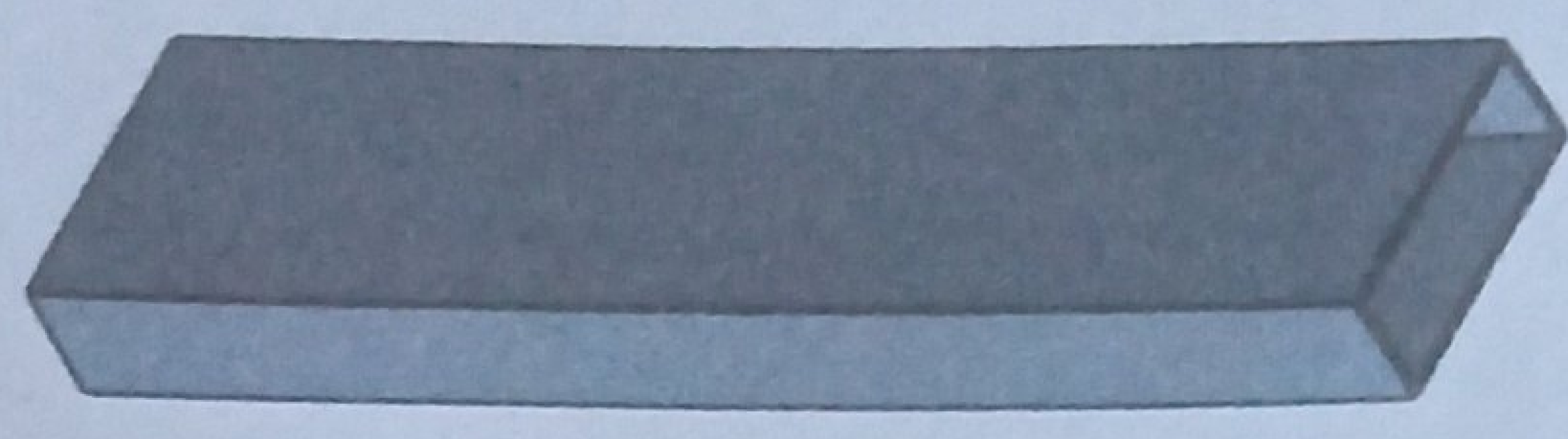
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|--------------------------------------------------------------|----------------|------|-------|--------------|--------------|-----------|---------------|------------|
| 2 | RANGKA DUDUKAN | - | GLV | LIHAT DETAIL | - | DI | - | |
| JML | NAMA BAGIAN | POS | BAHAN | UKURAN JADI | UKURAN KASAR | NO. ID | F | |
| > | 0 | 6 | 30 | 120 | 400 | 1000 | UKURAN LANJUT | |
| < | 6 | 30 | 120 | 400 | 1000 | 2000 | | |
| TOL | ±0.1 | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 | | |
| NAMA : RANGKA DUDUKAN | | | | | SKALA | DIGAMBAR | REZA | 25/07/2024 |
| | | | | | 1:2 | DIPERIKSA | AKHLIS | |
| | | | | | | DISAHKAN | RADHI | |
| | | | | | | FORMAT | MPT/10 | |
| NO ASSY. : | | | | | A4 | | | |
| POLITEKNIK NEGERI CILACAP, JURUSAN TEKNIK MESIN | | | | | | | | |
| Jl. dr. SUETOMO, NO. 01, SIDAKAYA, CILACAP, 53212 | | | | | | | | |
| TELP - 0282 - 533329, E-mail : tnpnc@politeknikcilacap.ac.id | | | | | | | | |

| | | | | | | | | | |
|----|-----------|---------|------|----|-----------|---------|------|---|--|
| 5 | | 4 | | 3 | | 2 | | 1 | |
| NO | PERUBAHAN | TANGGAL | NAMA | NO | PERUBAHAN | TANGGAL | NAMA | | |
| | | | | △ | | | | | |

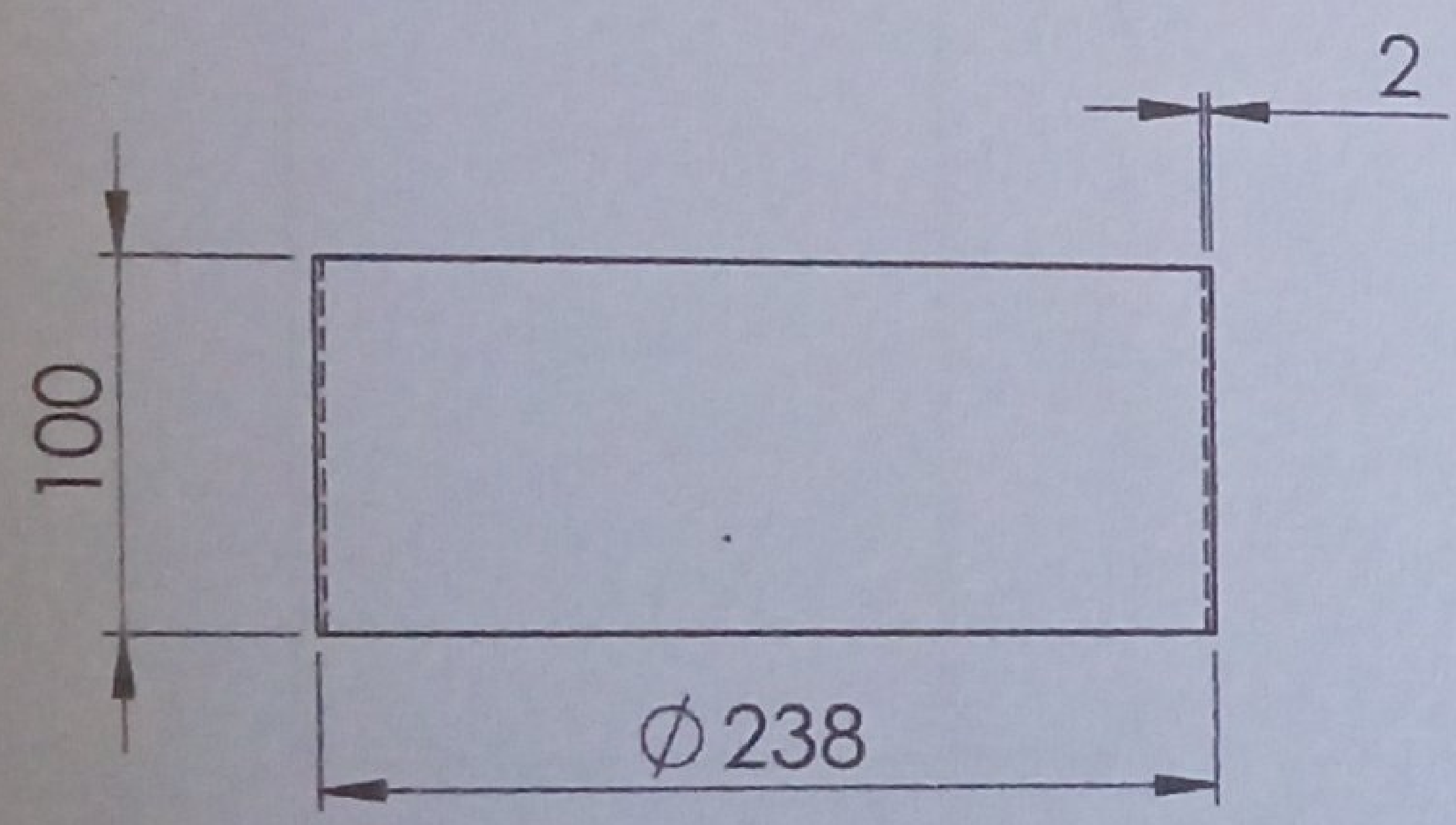
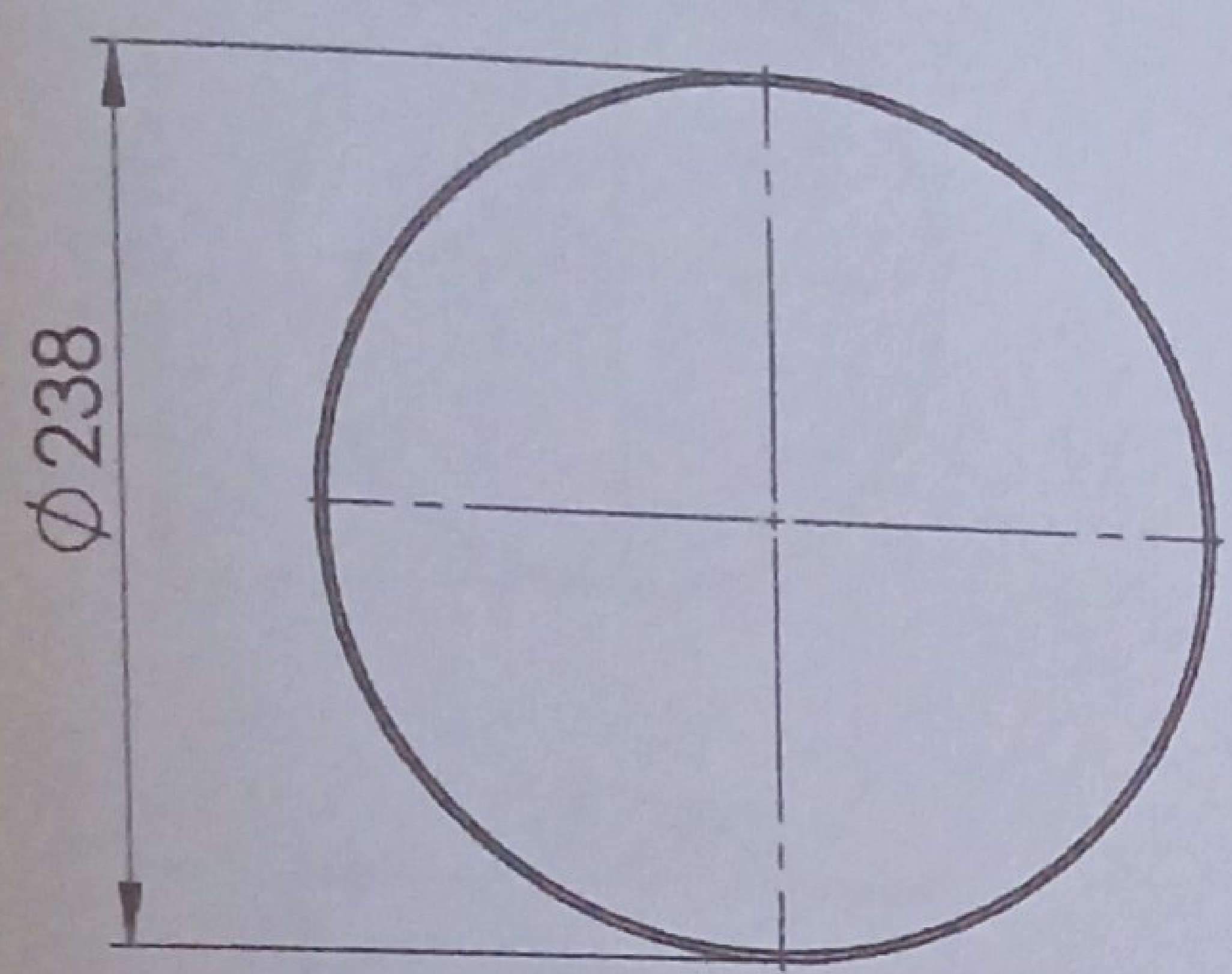
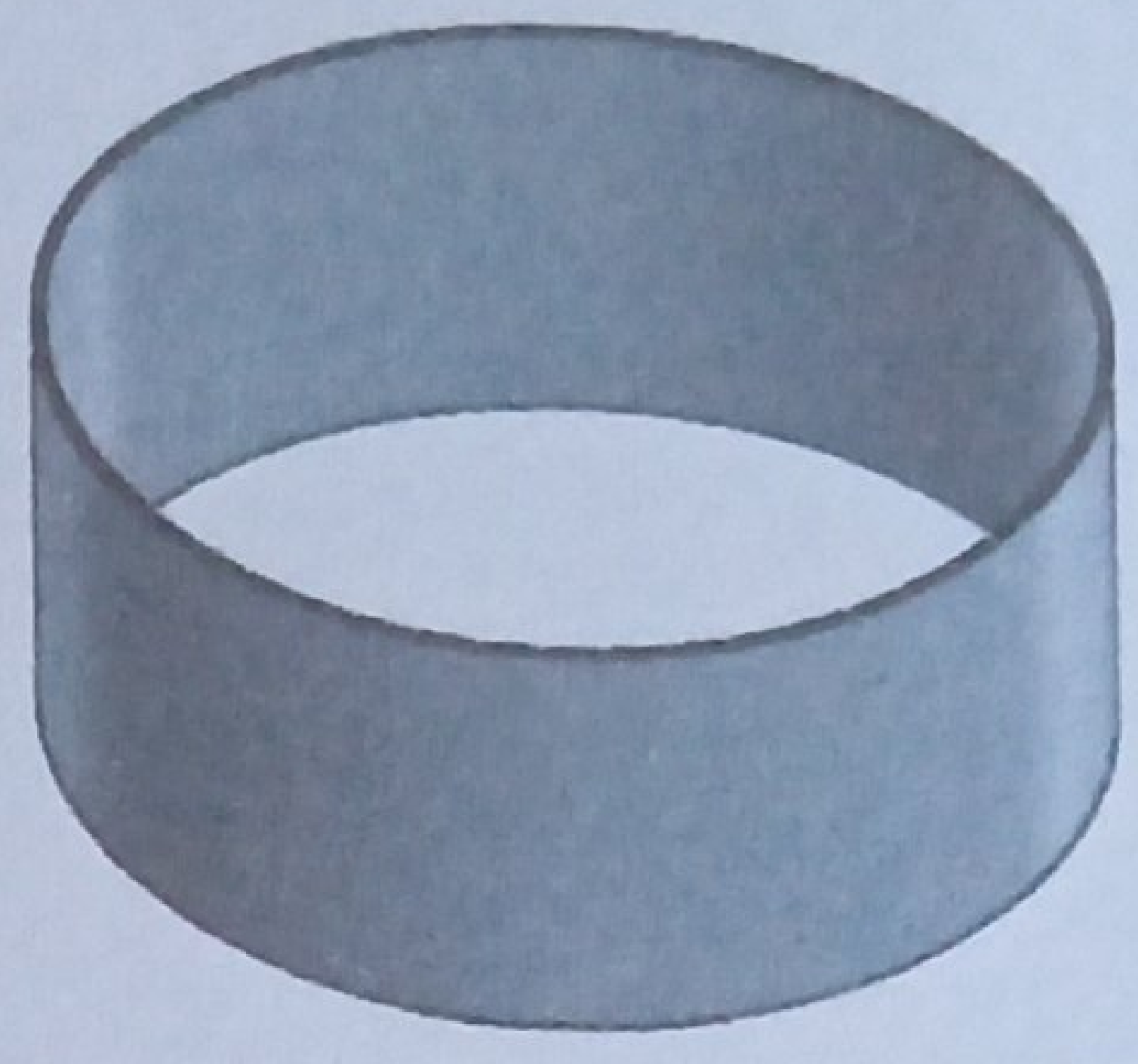


| | | | | | | | | |
|--------------------------------------------------------------|----------------|------|-------|--------------|--------------|-----------|---------------|------------|
| 2 | RANGKA DUDUKAN | - | GLV | LIHAT DETAIL | - | D2 | - | |
| JML | NAMA BAGIAN | POS | BAHAN | UKURAN JADI | UKURAN KASAR | NO. ID | F | |
| > | 0 | 6 | 30 | 120 | 400 | 1000 | UKURAN LANJUT | |
| < | 6 | 30 | 120 | 400 | 1000 | 2000 | | |
| TOL | ±0.1 | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 | | |
| NAMA | | | | | SKALA | DIGAMBAR | REZA | 25/07/2024 |
| RANGKA DUDUKAN | | | | | 1:2 | DIPERIKSA | AKHLIS | |
| | | | | | | DISAHKAN | RADHI | |
| | | | | | | FORMAT | | |
| NO. ASSY. : | | | | | A4 | | | |
| POLITEKNIK NEGERI CILACAP, JURUSAN TEKNIK MESIN | | | | | | | | |
| JL. dr SOETOMO, NO. 01, SIDAKAYA, CILACAP, 53212 | | | | | | | | |
| TELP : 0282 - 533329, E-mail : tmpnc@politeknikcilacap.ac.id | | | | | | | | |

| | | | | | | | |
|----|-----------|---------|------|----|-----------|---------|------|
| 5 | 4 | 3 | 2 | 1 | | | |
| NO | PERUBAHAN | TANGGAL | NAMA | NO | PERUBAHAN | TANGGAL | NAMA |
| | | | | △ | | | |

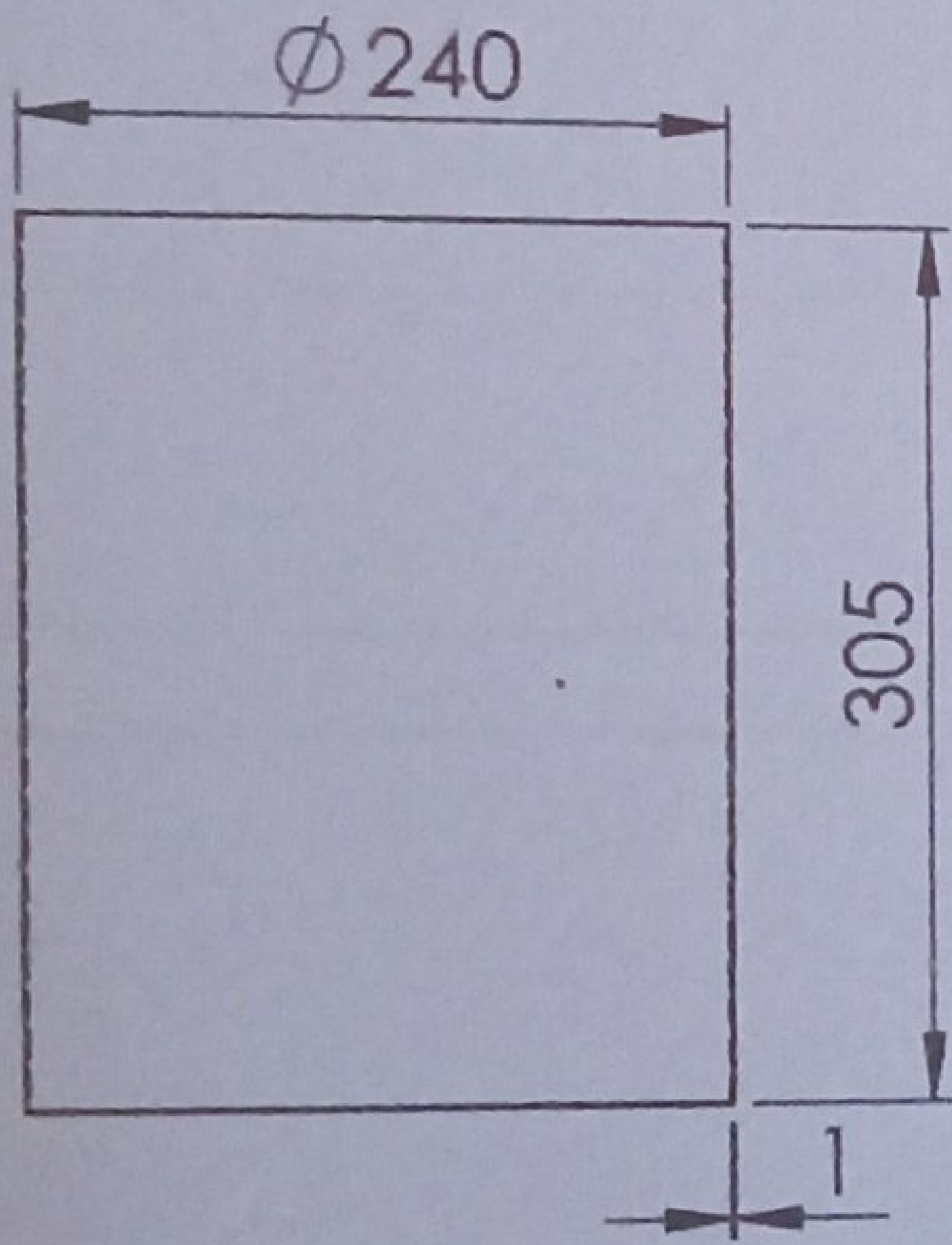
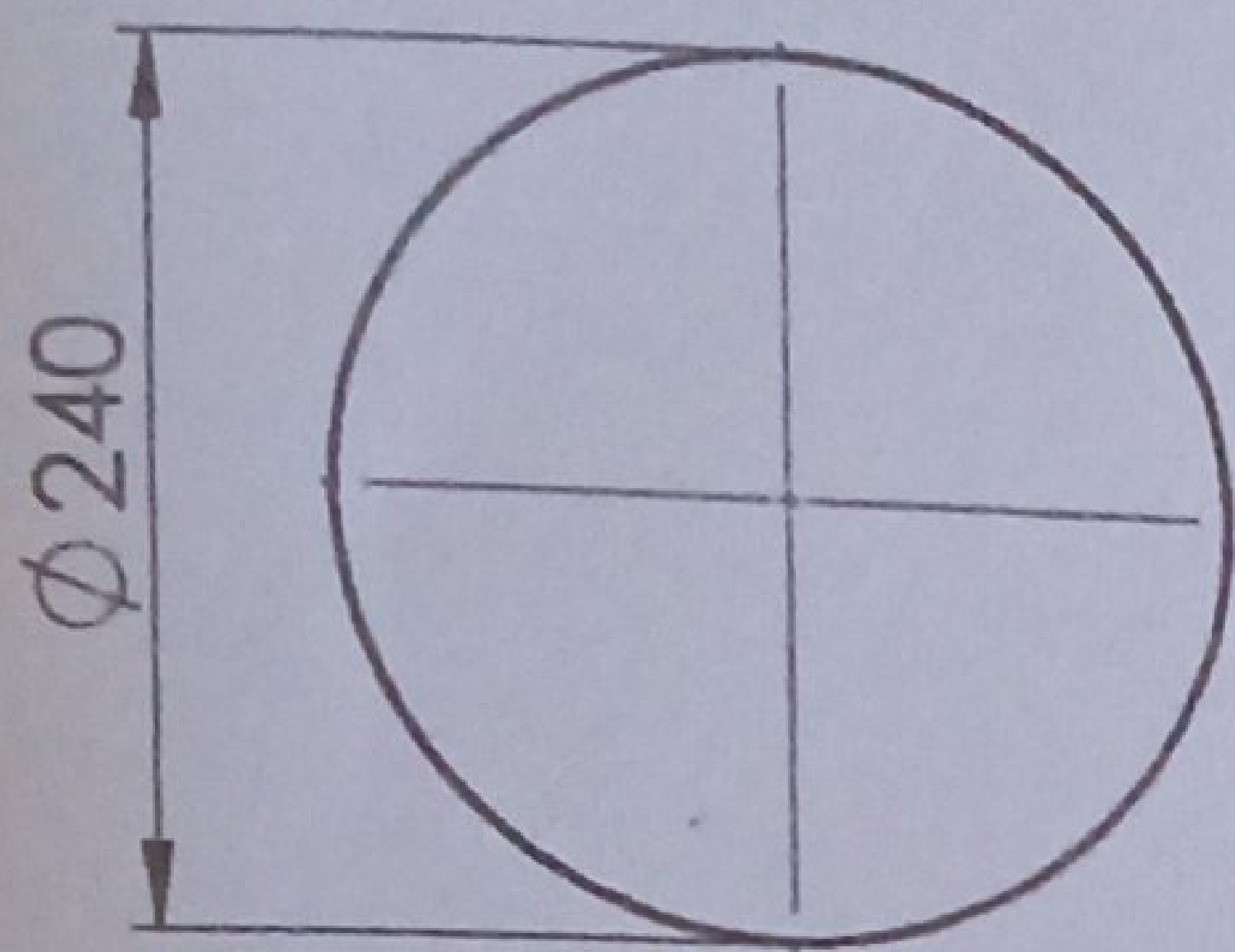
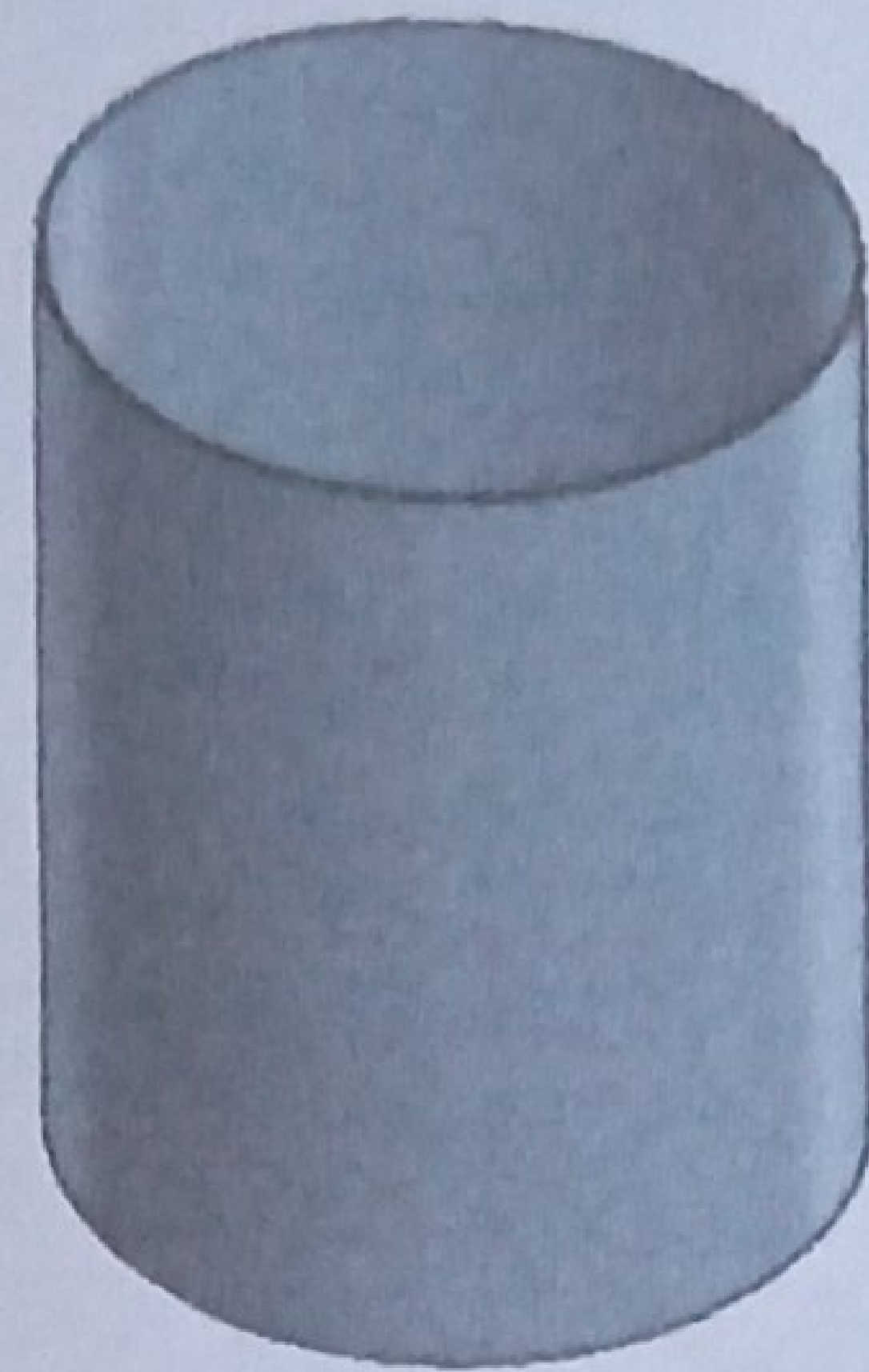


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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------|-------|--------------|--------------|-------------|---------------|------------|
| 2 | RANGKA DUDUKAN | - | GLV | LIHAT DETAIL | - | D3 | - | |
| JML | NAMA BAGIAN | POS | BAHAN | UKURAN JADI | UKURAN KASAR | NO. ID | F | |
| > | 0 | 6 | 30 | 120 | 400 | 1000 | UKURAN LANJUT | |
| < | 6 | 30 | 120 | 400 | 1000 | 2000 | | |
| TOL | ±0.1 | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 | | |
| NAMA : | | | | | SKALA | DIGAMBAR | REZA | 25/07/2024 |
| RANGKA DUDUKAN | | | | | 1:2 | DIPERIKSA | AKHLIS | |
| | | | | | | DISAHKAN | RADHI | |
| | | | | | | NO. ASSY. : | | |
| POLITEKNIK NEGERI CILACAP, JURUSAN TEKNIK MESIN JL. dr. SOETOMO, NO. 01, SIDAKAYA, CILACAP, 53212 TELP 0282 - 533329, E-mail :tmpno@politeknikcilacap.ac.id | | | | | FORMAT | MPT/12 | | |
| | | | | | A4 | | | |



| | | | | | | | | | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------|------|------|------|------|---------------|-------|-------------|--------------|--------|------------|
| 1 | BAK PENAMPUNG | | | | | | - | - | - | - | BAK | - |
| JML | NAMA BAGIAN | | | | | | POS | BAHAN | UKURAN JADI | UKURAN KASAR | NO. ID | F |
| > | 0 | 6 | 30 | 120 | 400 | 1000 | UKURAN LANJUT | | NO. ORDER | PROYEKSI | | |
| < | 6 | 30 | 120 | 400 | 1000 | 2000 | | | | | | |
| TOL | ±0.1 | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 | | | | | | |
| NAMA | | | | | | | | | SKALA | DIGAMBAR | REZA | 25/07/2024 |
| BAK PENAMPUNG | | | | | | | | | 1:5 | DIPERIKSA | AKHLIS | |
| | | | | | | | | | | DISAHKAN | RADHI | |
| | | | | | | | | | | | | |
| NO. ASSY. : | | | | | | | | | FORMAT | MPT/13 | | |
| POLITEKNIK NEGERI CILACAP, JURUSAN TEKNIK MESIN JL. dr. SOETOMO, NO. 01, SIDAKAYA, CILACAP, 53212 TELP : 0262 - 533329, E-mail : tmpnc@politeknikcilacap.ac.id | | | | | | | | | A4 | | | |

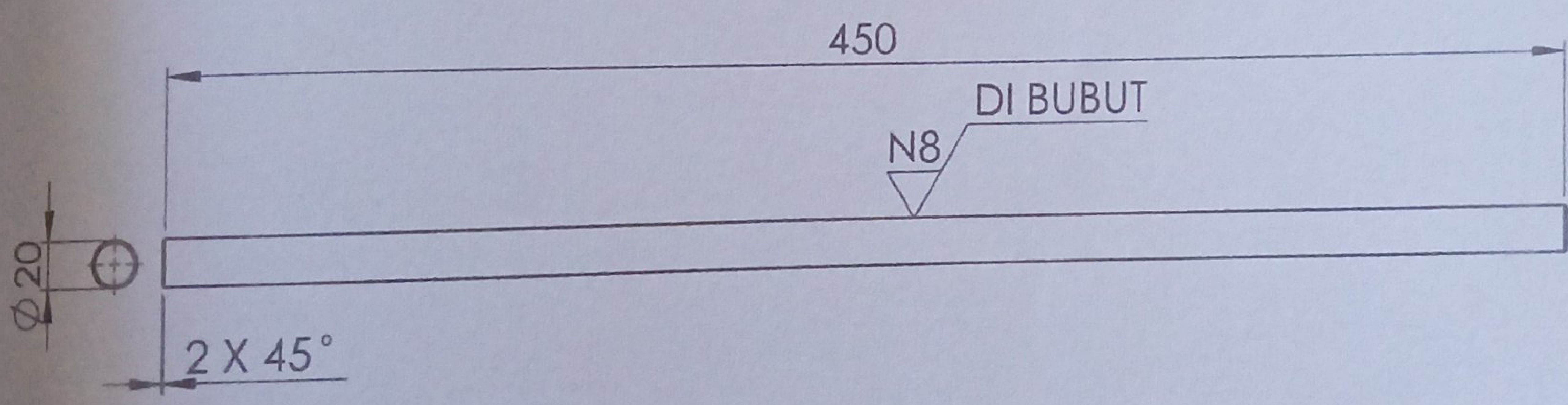
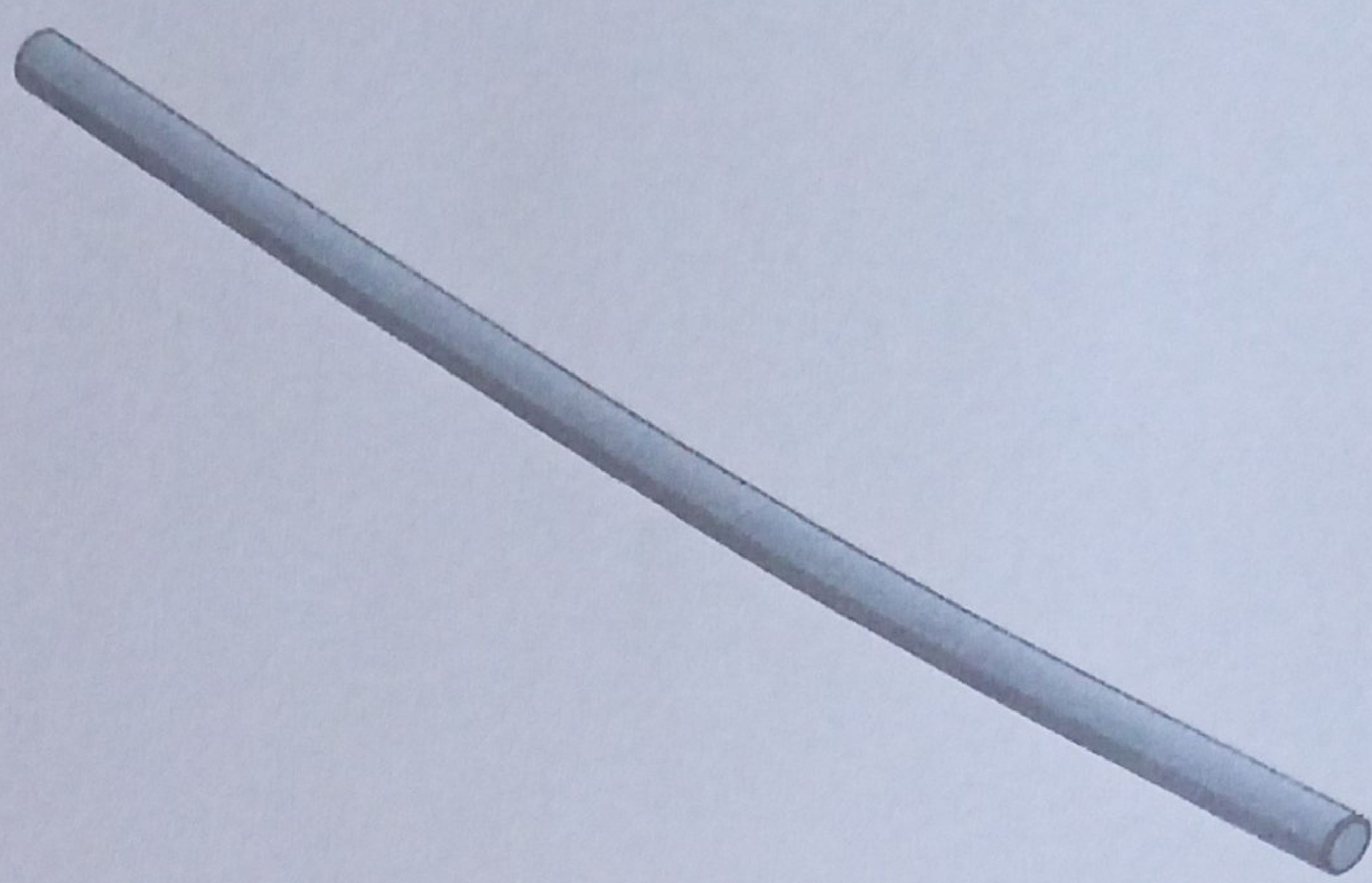
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|----|---------|------|----|-----------|---------|------|
| NO | TANGGAL | NAMA | NO | PERUBAHAN | TANGGAL | NAMA |
| | | | △ | | | |



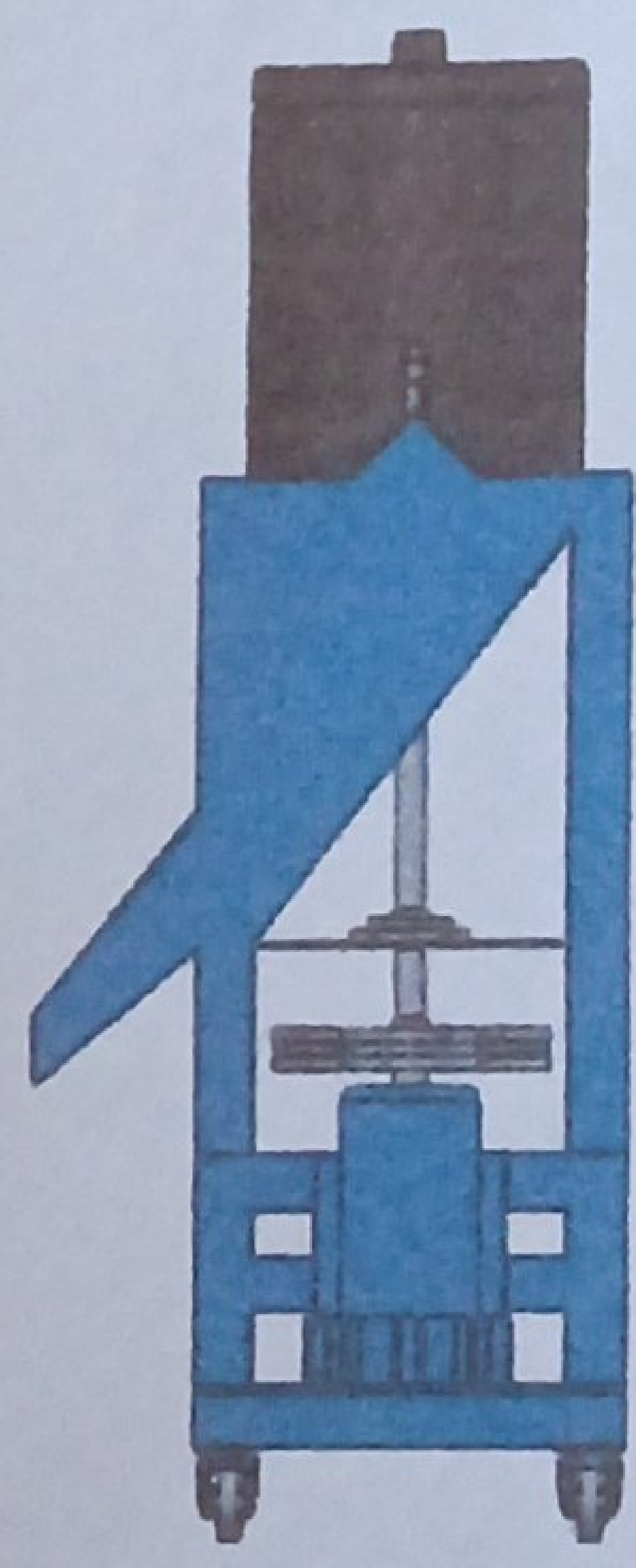
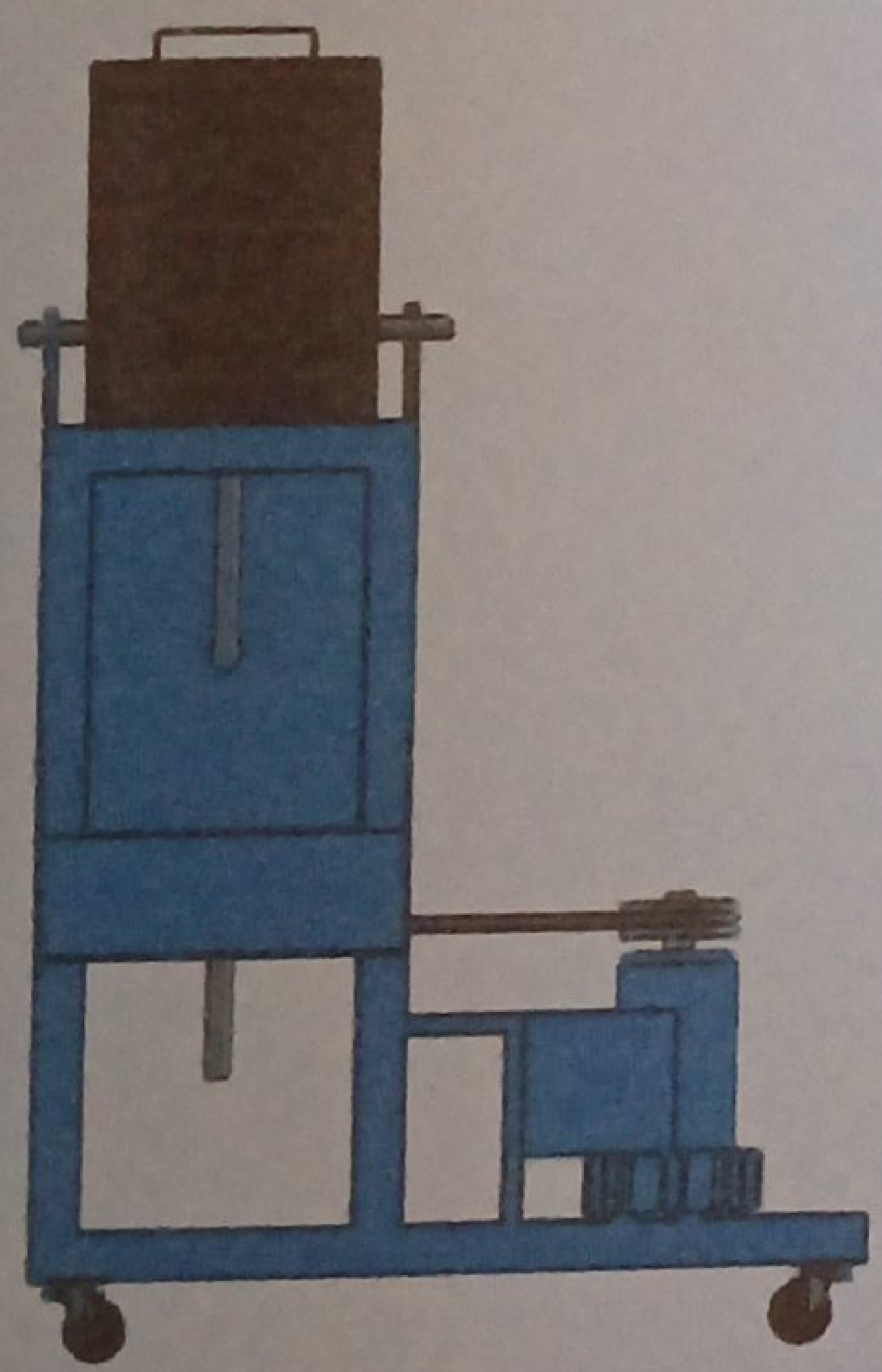
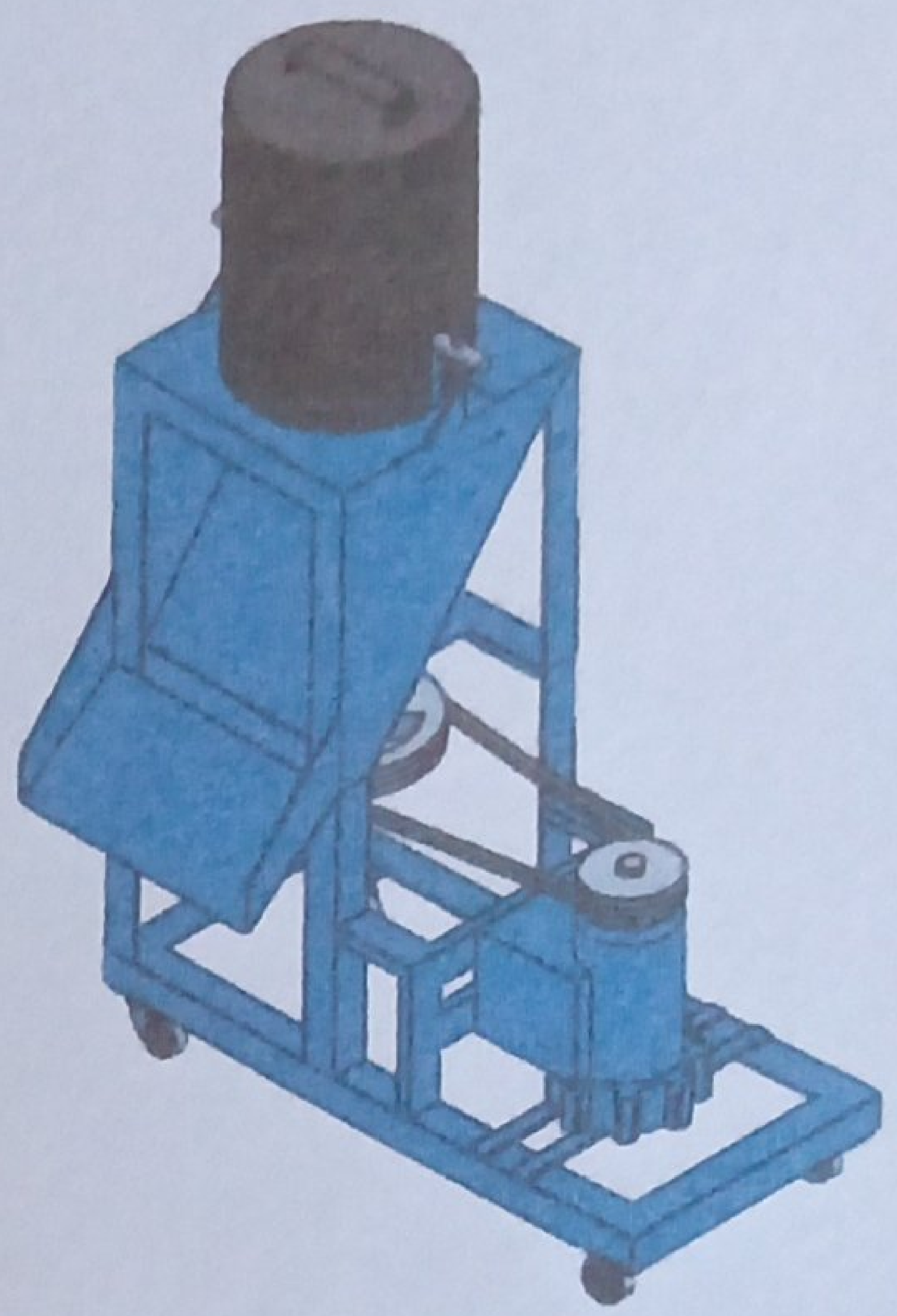
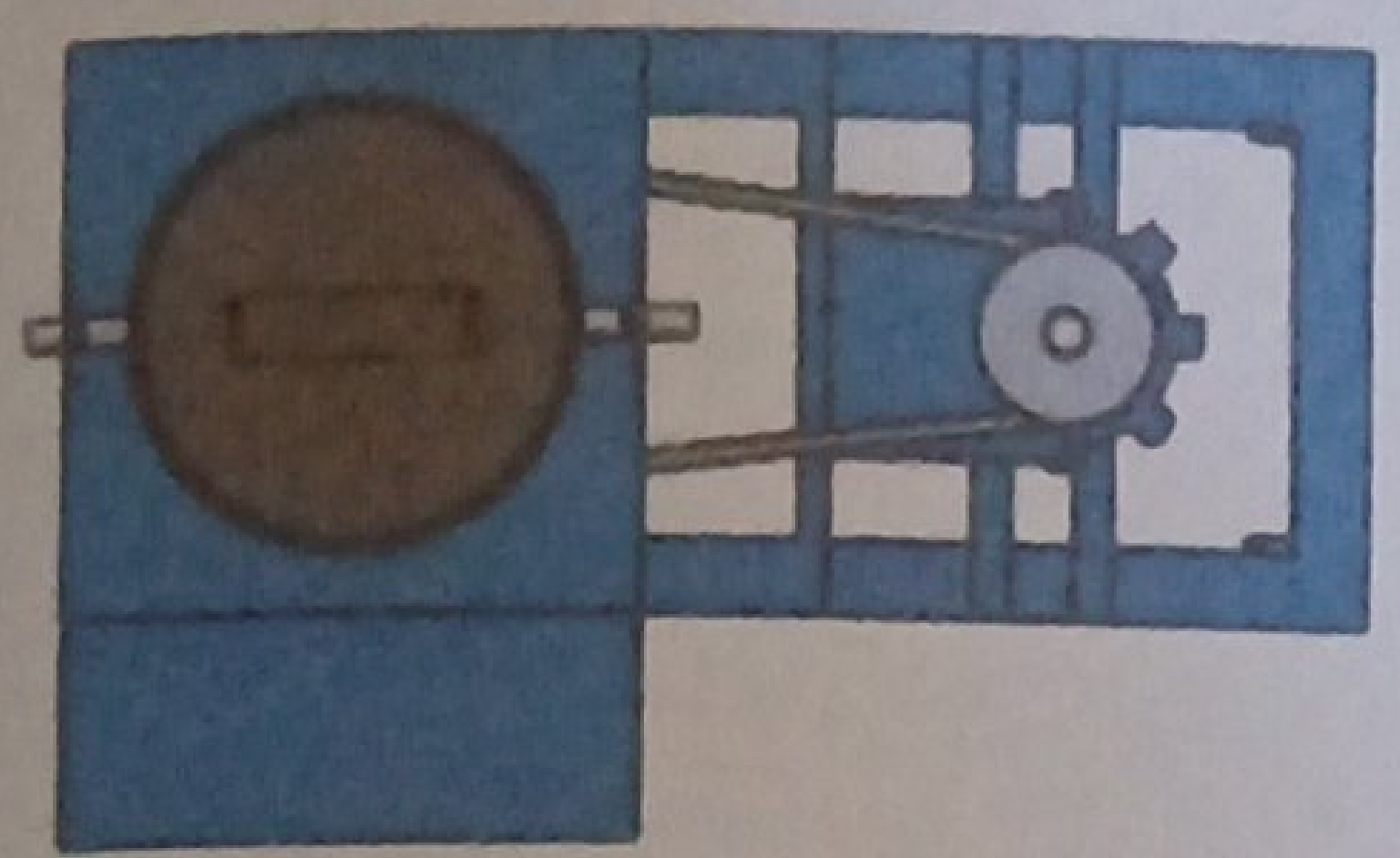
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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------|------|------|------|------|---------------|-------|-------------|--------------|----------|------------|
| 1 | HOPPER | | | | | | - | - | - | - | - | - |
| JML | NAMA BAGIAN | | | | | | POS | BAHAN | UKURAN JADI | UKURAN KASAR | NO. ID | F |
| > | 0 | 6 | 30 | 120 | 400 | 1000 | UKURAN LANJUT | | | NO. ORDER | PROYEKSI | |
| < | 6 | 30 | 120 | 400 | 1000 | 2000 | | | | | | |
| TOL | ±0.1 | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 | | | | | | |
| NAMA : HOPPER | | | | | | | | | SKALA | DIGAMBAR | REZA | 25/07/2024 |
| | | | | | | | | | 1:5 | DIPERIKSA | AKHLIS | |
| | | | | | | | | | | DISAHKAN | RADHI | |
| | | | | | | | | | | | | |
| NO. ASSY : | | | | | | | | | FORMAT | MPT/14 | | |
| POLITEKNIK NEGERI CILACAP, JURUSAN TEKNIK MESIN Jl. dr. SOETOMO, NO. 01, SIDAKAYA, CILACAP, 53212 TELP : 0282 - 533329, E-mail : tmpnc@politeknikcilacap.ac.id | | | | | | | | | A4 | | | |

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E
A

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|----|-----------|---------|------|----|-----------|---------|------|
| NO | PERUBAHAN | TANGGAL | NAMA | NO | PERUBAHAN | TANGGAL | NAMA |
| | | | | 3 | | | |
| | | | | 2 | | | |
| | | | | 1 | | | |



| | | | | | | | | | | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------|------|------|------|------|---------------|-------|------------------|------------------|-----------|--------|------------|--|
| 1 | POROS | | | | | | - | S45C | Ø 20 MM X 450 MM | Ø 22 MM X 600 MM | - | - | | |
| ML | NAMA BAGIAN | | | | | | POS | BAHAN | UKURAN JADI | UKURAN KASAR | NO. ID | F | | |
| > | 0 | 6 | 30 | 120 | 400 | 1000 | UKURAN LANJUT | | | NO. ORDER | | | | |
| < | 6 | 30 | 120 | 400 | 1000 | 2000 | | | | PROYEKSI | | | | |
| DL | ±0.1 | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 | | | | | | | | |
| NAMA : POROS | | | | | | | | | | SKALA | DIGAMBAR | REZA | 25/07/2024 | |
| | | | | | | | | | | 1:5 | DIPERIKSA | AKHLIS | | |
| | | | | | | | | | | | DISAHKAN | RADHI | | |
| | | | | | | | | | | | | | | |
| NO. ASSY. : | | | | | | | | | | FORMAT | MPT/15 | | | |
| POLITEKNIK NEGERI CILACAP, JURUSAN TEKNIK MESIN JL. dr. SOETOMO, NO. 01, SIDAKAYA, CILACAP, 53212 TEL. 0282 - 533329 E-mail : tmpnc@politeknikcilacap.ac.id | | | | | | | | | | A4 | | | | |



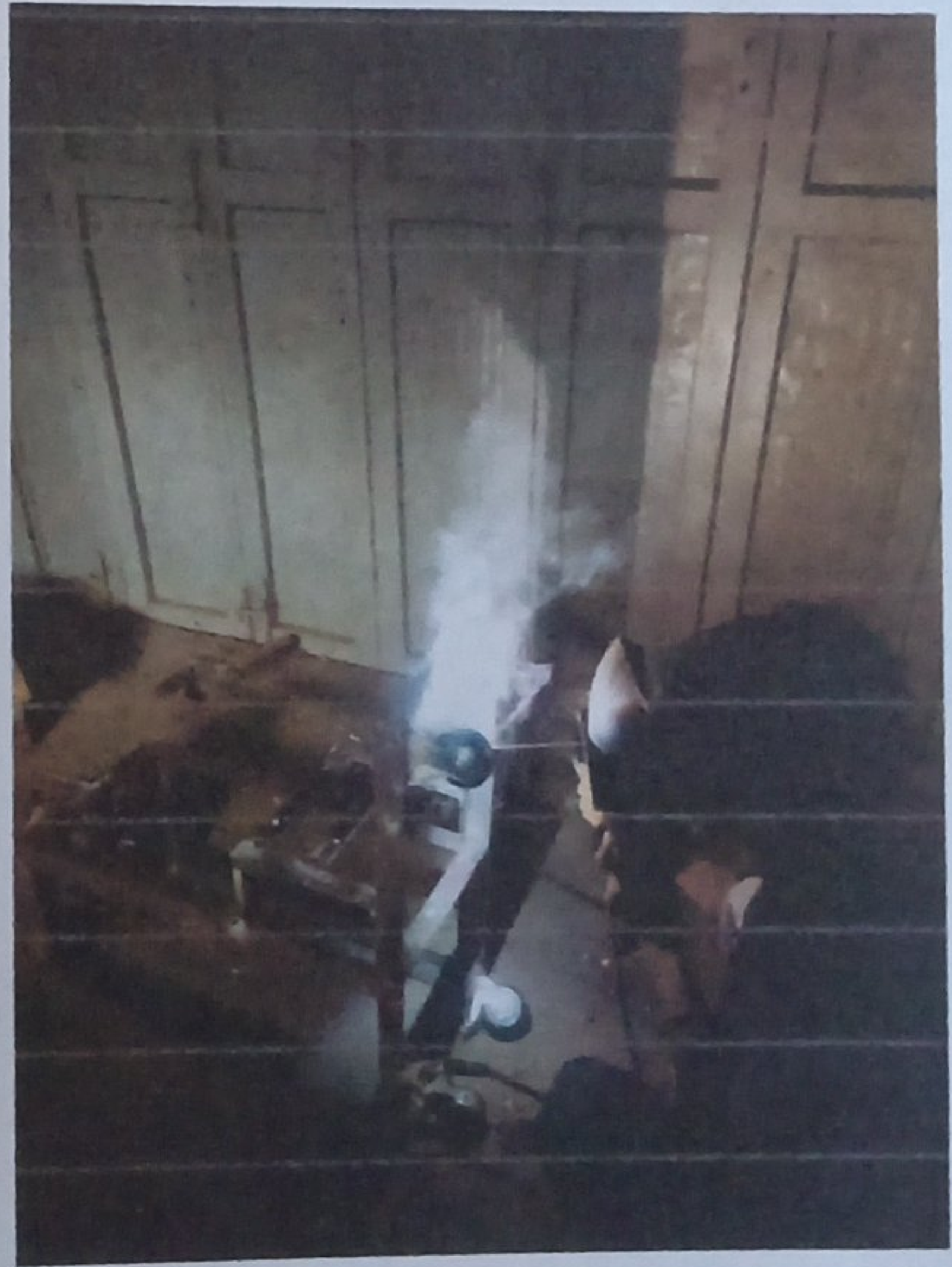
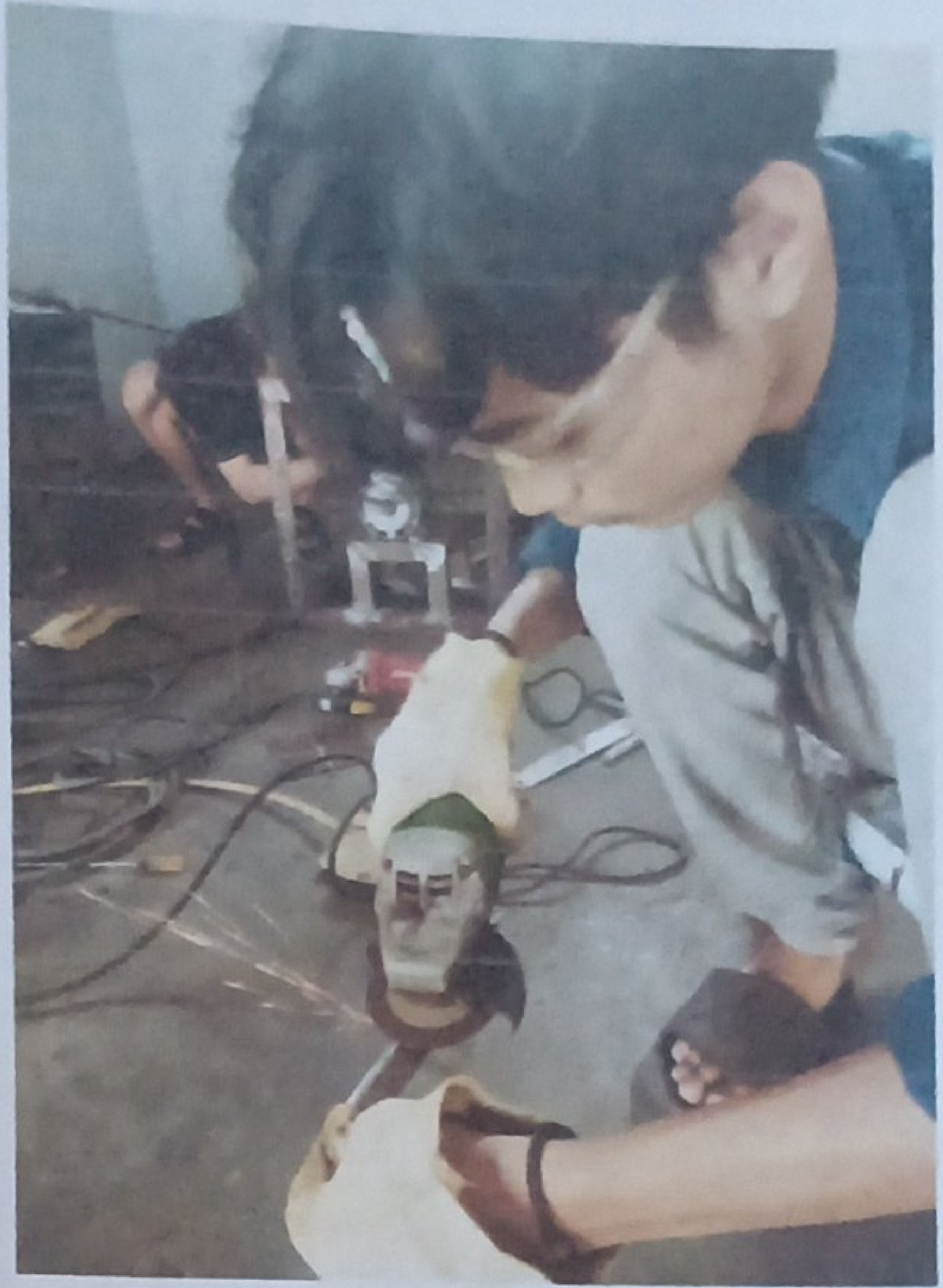
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|-----|-------------------------------|---------------|-------|-------------|--------------|----------|---|
| > 0 | 6 30 120 400 1000 | UKURAN LANJUT | | | NO. ORDER | PROYEKSI | |
| < 6 | 30 120 400 1000 2000 | | | | | | |
| TOL | ±0.1 ±0.2 ±0.3 ±0.5 ±0.8 ±1.2 | | | | | | |

MESIN PRODUKSI PELET PAKAN TERNAK BEBEK

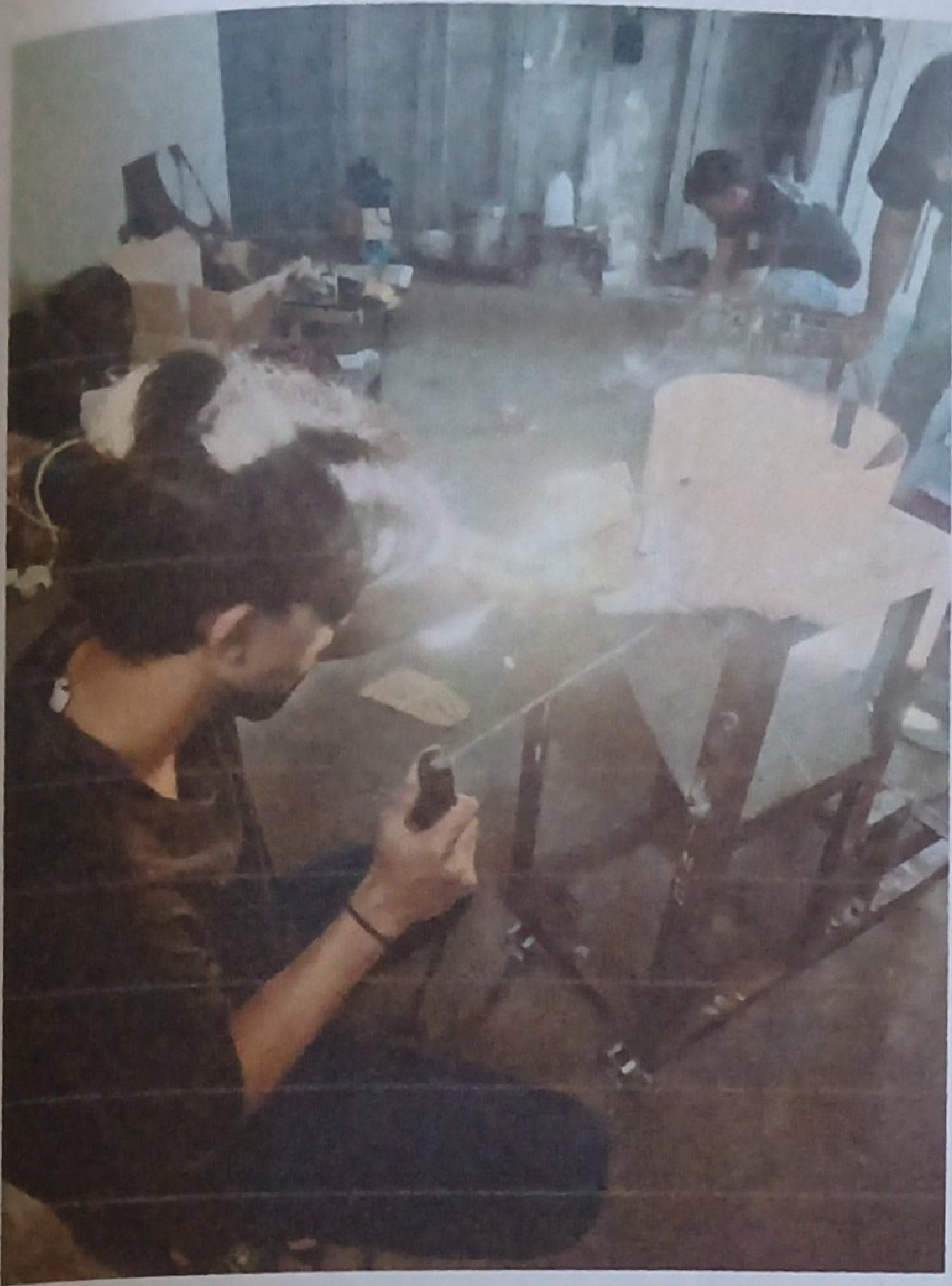
SKALA 1:10
 DIGAMBAR 14/7/2024
 DIPERIKSA
 DISAHKAN

REZA
 AKHLIS
 RADHI

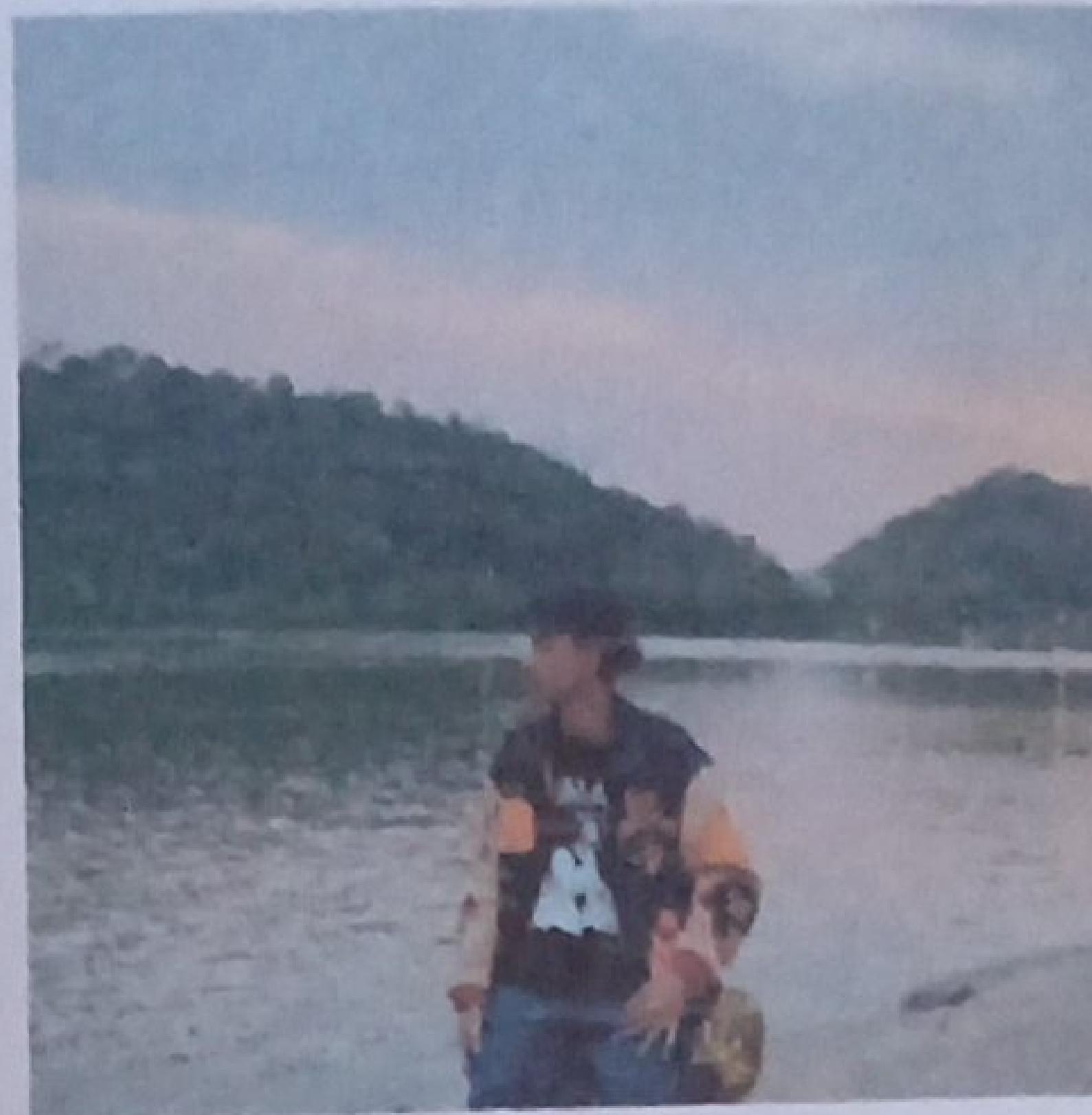








BIODATA PENULIS



Nama : Reza Dwi Sugandhi
Tempat, tanggal lahir : Cilacap, 10 Oktober 2001
NIM : 210303021
Program Studi : Diploma III Teknik Mesin
Jurusan : Rekayasa Mesin dan Industri Pertanian
E-mail : rezadwisugandhi@gmail.com
Alamat : Jl Juanda Gg Savita RT.02 RW.20 No.13, Kelurahan Donan,
Kecamatan Cilacap Tengah, Kabupaten Cilacap, Jawa Tengah
Telpon/HP : 087832797559
Motto Hidup : Bread is roti, shadow is bayang
Before you mati, better you sembayang.

Riwayat Pendidikan :

1. SD Negeri 9 Cilacap (2008-2014)
2. SMP Negeri 6 Cilacap (2014-2017)
3. SMK Negeri 2 Cilacap (2017-2020)
4. Politeknik Negeri Cilacap (2021-2024)