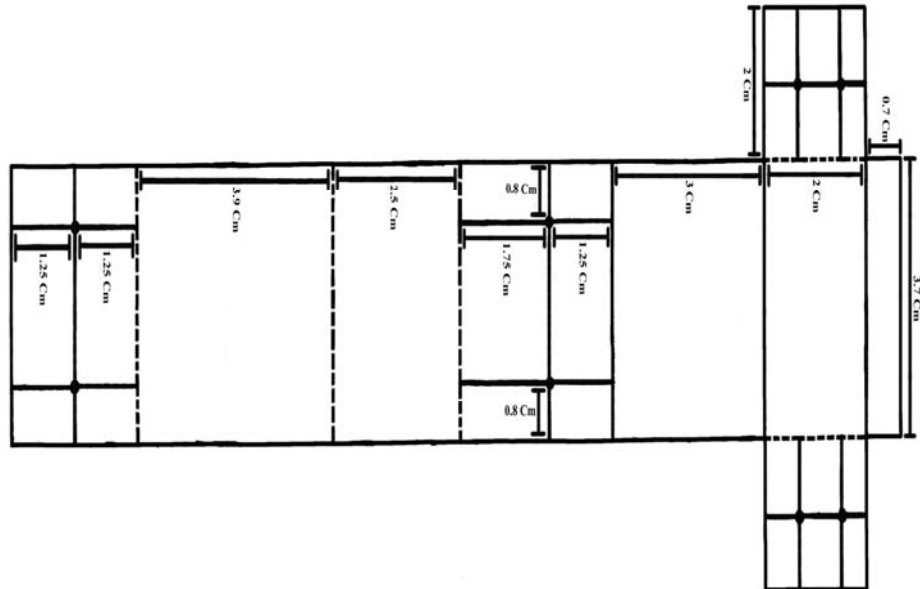


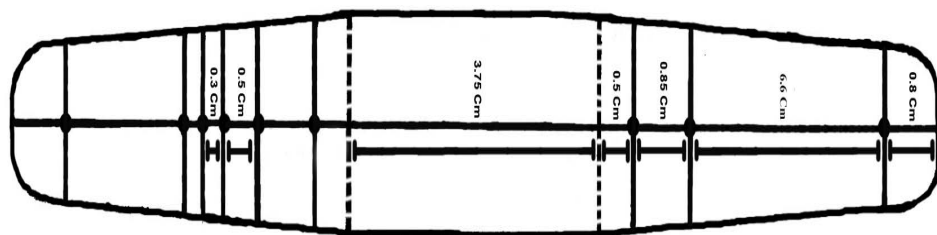
LAMPIRAN A
PROGRAM PLC

LAMPIRAN B
GAMBAR KERANGKA
TANGAN
ROBOT

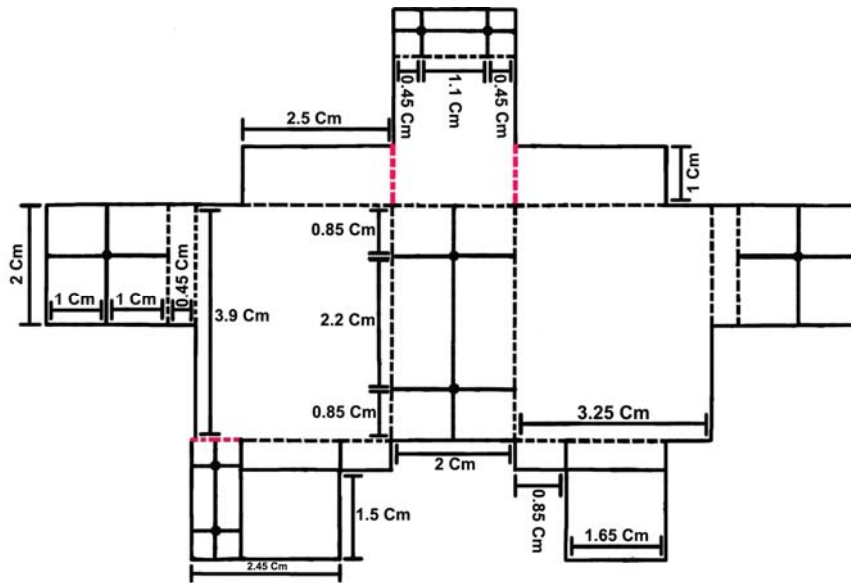
Bagian-Bagian Kerangka Tangan Robot :



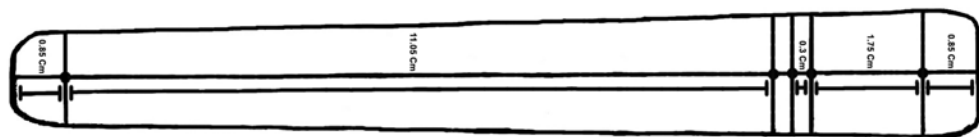
Bagian Kepalan Tangan



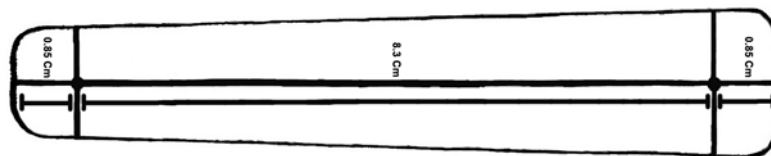
Bagian Penyangga Kepalan Tangan



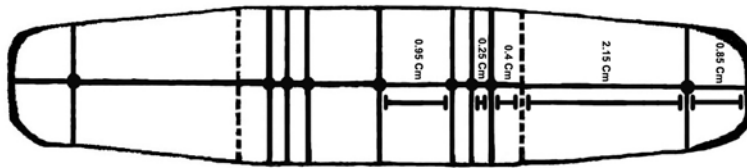
Bagian *Body* Servo



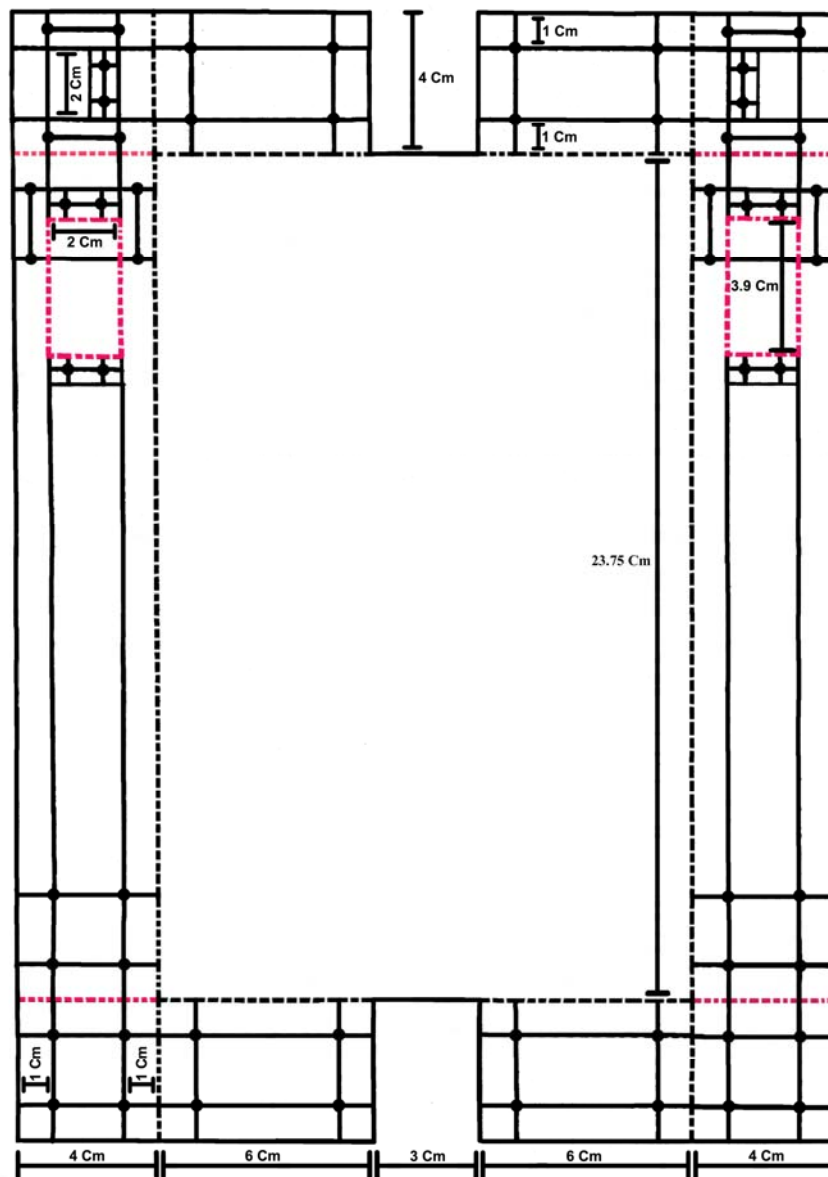
Bagian Ruas Bawah Tangan Robot



Bagian Ruas Atas Tangan Robot



Bagian Penghubung pada Bahu Robot



Bagian *Body* Robot

LAMPIRAN C
PROGRAM MIKROKONTROLER ATmega8

```

.INCLUDE "f:\Driver Servo\m8535def.inc"
.def aa=r20
.def bb=r21
.def cc=r22
.def dd=r23
.def s1=r24
.def s2=r25

.org 0x0000
rjmp main

main:
ldi r16,low(ramend)
out spl,r16
ldi r16,high(ramend)
out sph,r16

ldi r16,0xff
out ddrb,r16
ldi r16,0x00
out ddrc,r16
ldi r16,0x00
out ddrd,r16

ldi r16,0b00000010
out TCCR1B,r16
ldi r16,0b10100011
out TCCR1A,r16

loop:
in aa,pind
andi aa,0b01111111

servo1:
ldi s1,37
add s1,aa
out OCR1AL,s1
ldi r16,0
out OCR1AH,r16
ldi s1,0
ldi aa,0

in bb,pinc
andi bb,0b00111111
in cc,pind
andi cc,0b10000000

```

```
cpi cc,0x80  
breq label
```

```
servo2:  
ldi s2,37  
add s2,bb  
out OCR1BL,s2  
ldi r16,0  
out OCR1BH,r16  
ldi s2,0  
ldi bb,0  
rjmp loop
```

```
label:  
ldi dd,64  
add bb,dd  
rjmp servo2
```