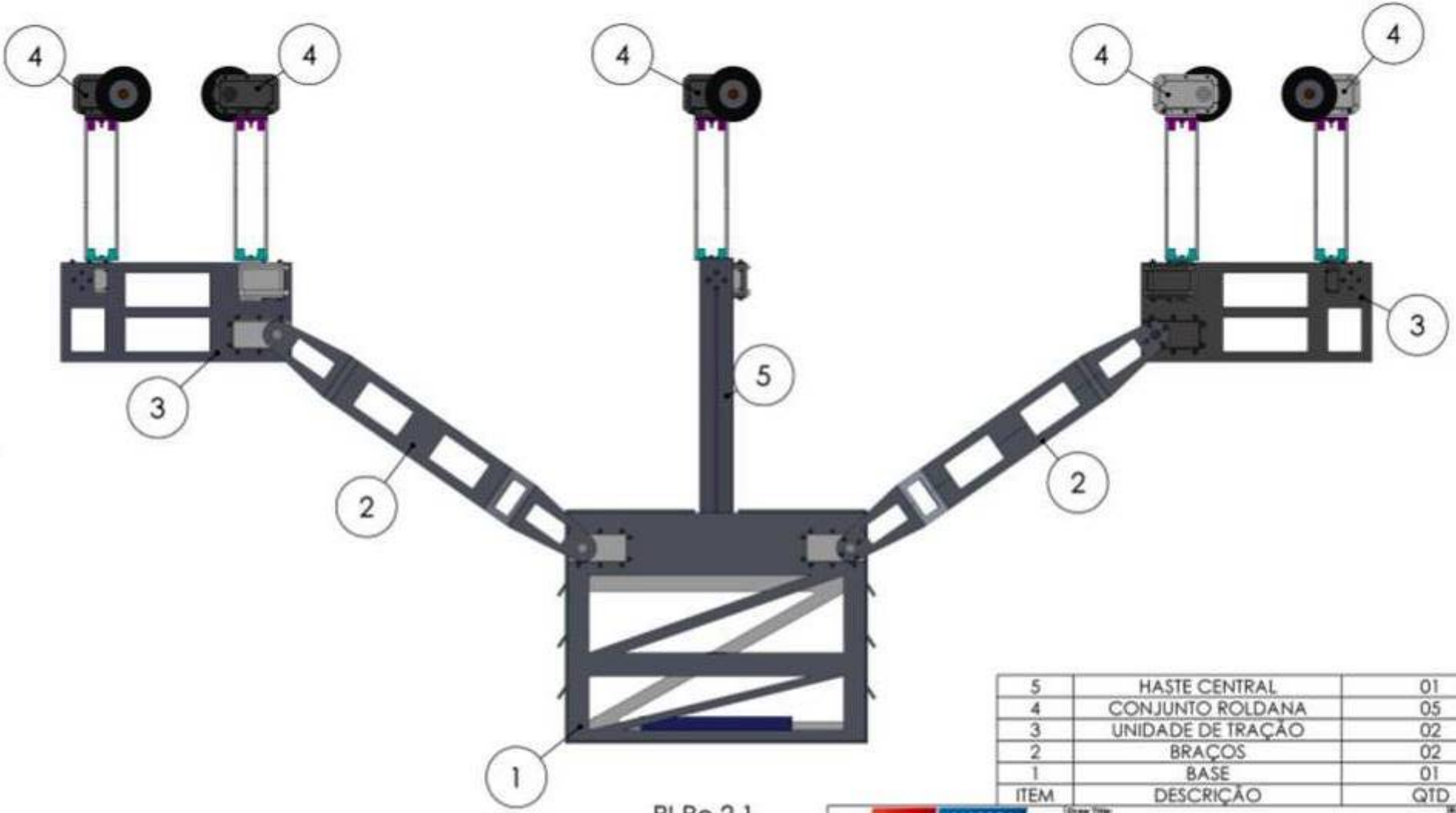
REV	DESCRIPTION	DRAW	DATE
0	Drawing elaboration	Juliana Sartori	07/09/2017



PI-Ro 2.1
VISTA FRONTAL

ITEM	DESCRIÇÃO	QTD
5	HASTE CENTRAL	01
4	CONJUNTO ROLDANA	05
3	UNIDADE DE TRAÇÃO	02
2	BRAÇOS	02
1	BASE	01

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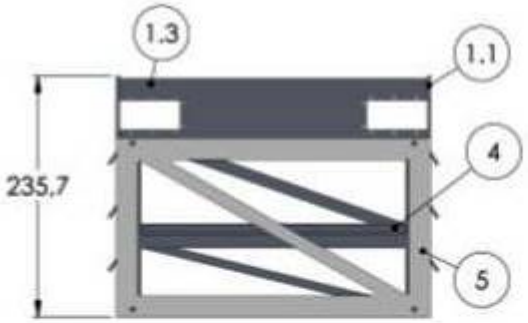
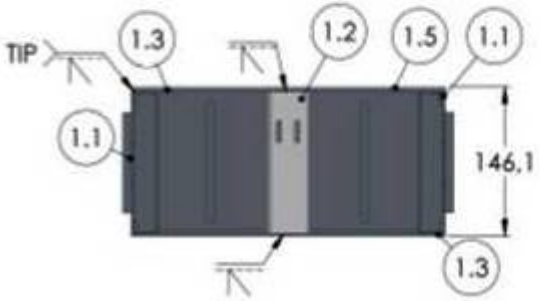
BR Brazilian Institute of Robotics

Draw Title: PI-Ro 2.1			Escala: 1:4
			Quantity: 01
Project: PI-Ro 2.1			Size: A3
Notes: 1. All measurement in mm unless otherwise specified 2. Remove cutting edge 3. Default finishing	Tolerances: xx ±0.001 xx ±0.01 x ±0.1 ∠ ±0.5	Drawn: Juliana Sartori	Material: Alumínio
		Approv: Marco Reis	Thermal?: N/A
Revision: 0		Date: 07/09/2017	Finishing:
			Page: 1 of 13

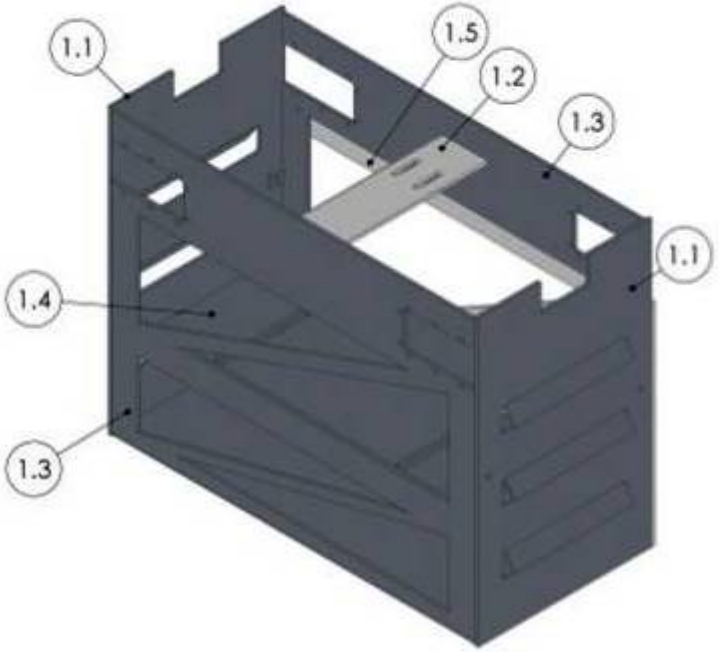
REV	DESCRIPTION	DRAW	DATE
0	Drawing elaboration	Juliana Sartori	07/09/2017



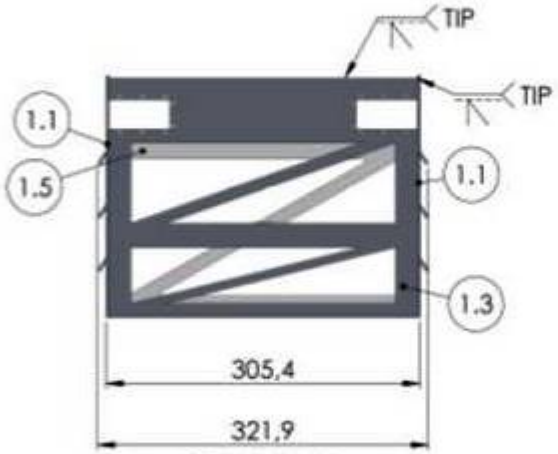
VISTA TRASEIRA



VISTA SUPERIOR



VISTA ISOMÉTRICA



VISTA FRONTAL

ITEM	DESCRIÇÃO	QTD
1.5	CHAPA 05: 305,4 x 175 x 2,7mm	01
1.4	CHAPA 04: 148 x 254 x 2,7mm	01
1.3	CHAPA 03: 608,8 x 300 x 2,7mm	01
1.2	CHAPA 01 : 138 x 47 x 2,7 mm	01
1.1	CHAPA 01 : 143,4 x 235,4 x 2,7 mm	02

SENAI FIEB

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Draw Title: BASE - ITEM 01

Project: PI-Ro 2.1

Scale: 1:2

Quantity: X

Size: A3

Notes:
1. All measurement in mm unless otherwise specified
2. Remove cutting edge
3. Default finishing

Tolerances: xxx ±0.001, xx ±0.01, x ±0.1, ∠ ±0.2

Draw: Juliana Sartori

Material: Alumínio

Finishing:

Agree: Marco Reis

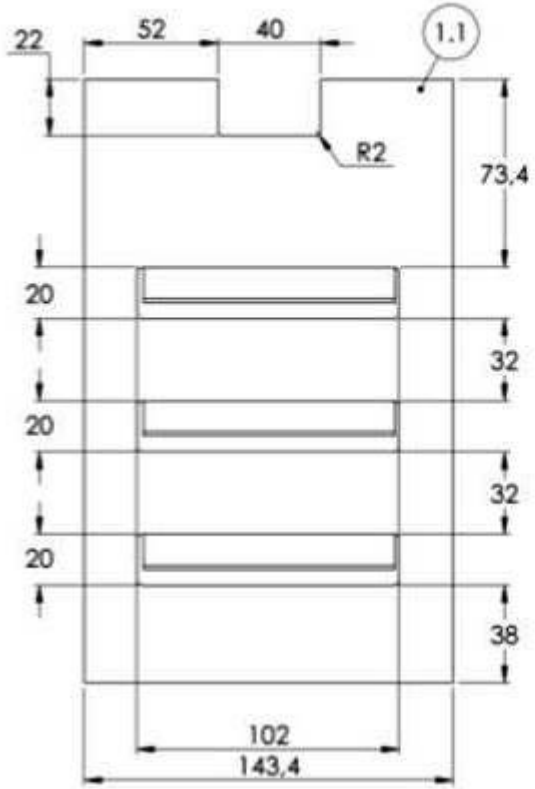
Thermal/T: N/A

Page: 2/13

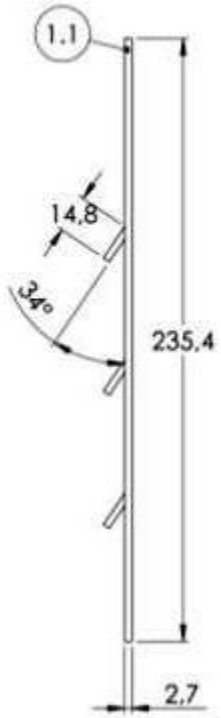
Revisão: 0

Date: 07/09/2017

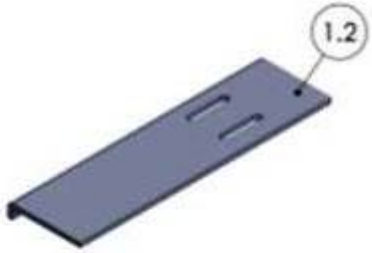
REV	DESCRIPTION	DRAW	DATE
0	Drawing elaboration	Juliana Sartori	07/09/2017

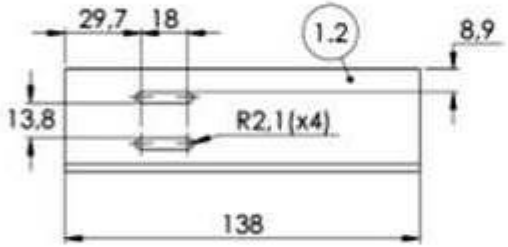


VISTA FRONTAL

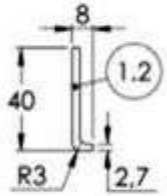


VISTA LATERAL





VISTA SUPERIOR



VISTA LATERAL

ITEM	DESCRIÇÃO	MATERIAL
1.2	CHAPA 02 : 138 x 47 x 2,7 mm	Alumínio
1.1	CHAPA 01 : 143,4 x 235,4 x 2,7 mm	Alumínio

SENAI FIEB

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Draw Title: BASE - ITENS 1.1 E 1.2 E ITEM 1.2

Project: PI-Ro 2.1

Drawn: Juliana Sartori

Approv: Marco Reis

Material: Alumínio

Thermal Tr: N/A

Date: 07/09/2017

Escale: 1:2

Quantity: X

Size: A3

Finishing:

Page: 3/13

Revisão: 0

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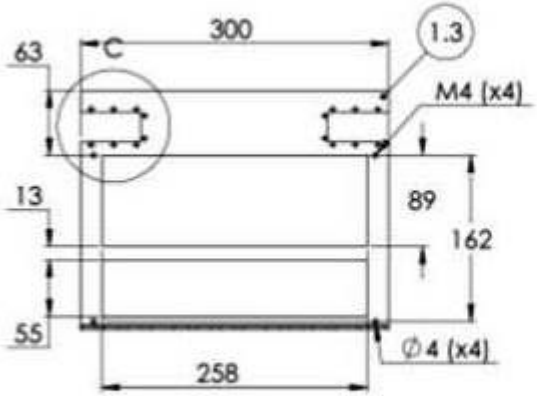
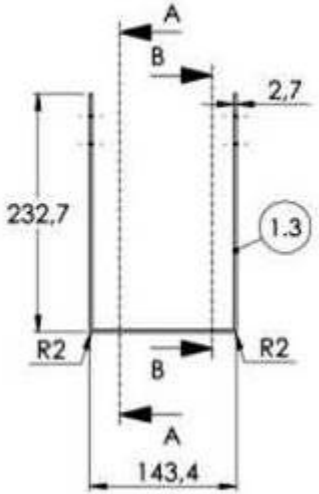
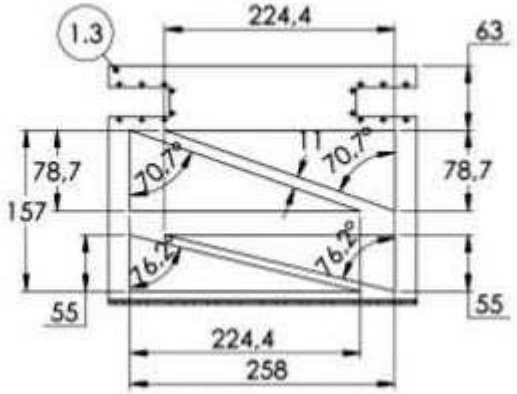
NOTA 01: CONSIDERAR QUE FILETES NÃO ESPECIFICADOS TÊM RAIO IGUAL A 2,0mm.

REV	DESCRIPTION	DRAW	DATE
0	Drawing elaboration	Juliana Sartori	07/09/2017

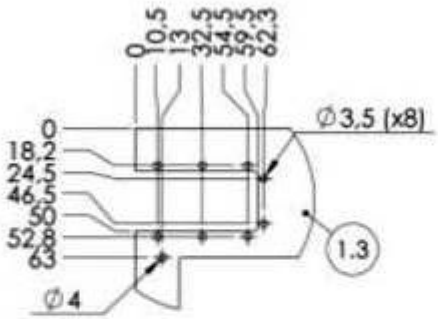


SECTION A-A

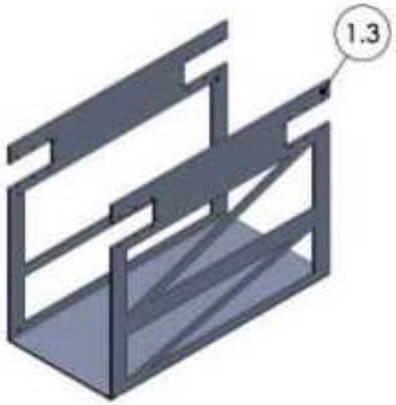




SECTION B-B



DETALHE C
ESCALA 2 : 5
FURAÇÃO TÍPICA PARA ENCAIXE
DO MOTOR MX-106T



ITEM	DESCRIÇÃO	MATERIAL
1.3	Chapa 608,8 x 300 x 2,7mm	Alumínio

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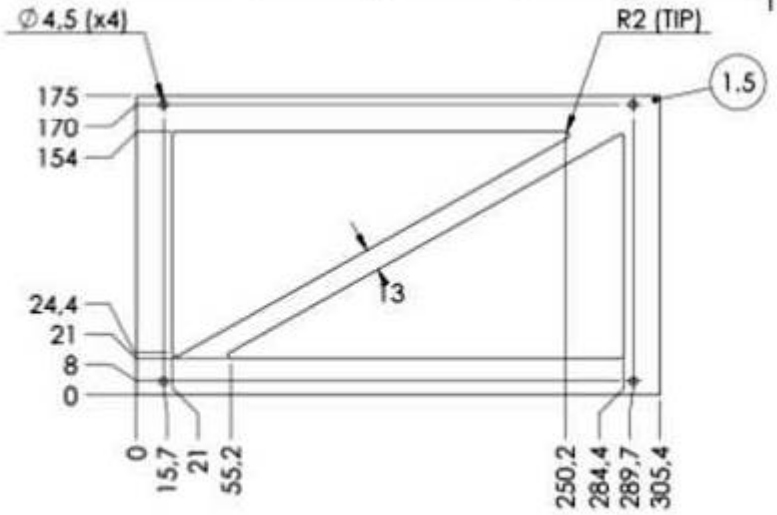
BR Brazilian Institute of Robotics

Notes: 1. All measurement in mm unless otherwise specified 2. Remove cutting edge 3. Default finishing	Tolerances:	Draw: Juliana Sartori	Material: Alumínio
		Aprov: Marco Reis	Thermal T°: N/A
Revision: 0		Date: 07/09/2017	

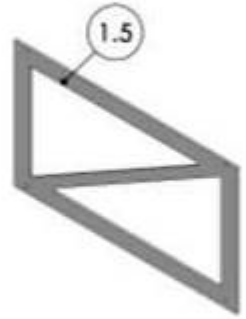
Drawn Title: BASE - ITEM 1.3
Scale: 1:5
Quantity: 01
Project: PI-Ro 2.1
Size: A3
Finishing:
Page: 4/13

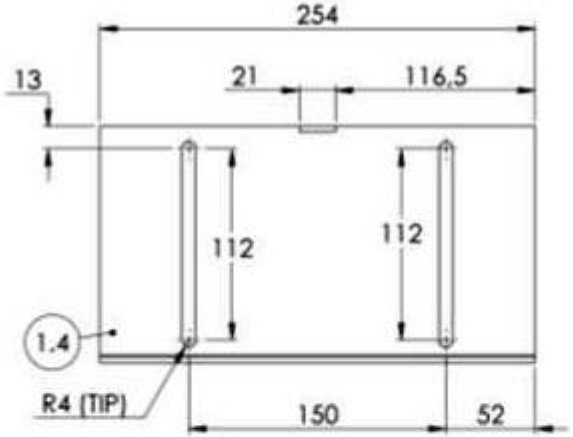
REV	DESCRIPTION	DRAW	DATE
0	Drawing elaboration	Juliana Sartori	07/09/2017



VISTA FRONTAL

VISTA LATERAL





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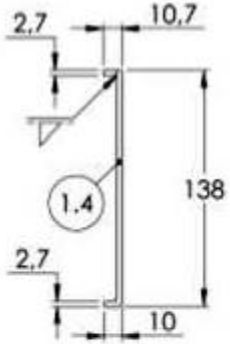

VISTA LATERAL

5	Chapa 305,4 x 145 x 2,7mm	Alumínio
ITEM	DESCRIÇÃO	MATERIAL

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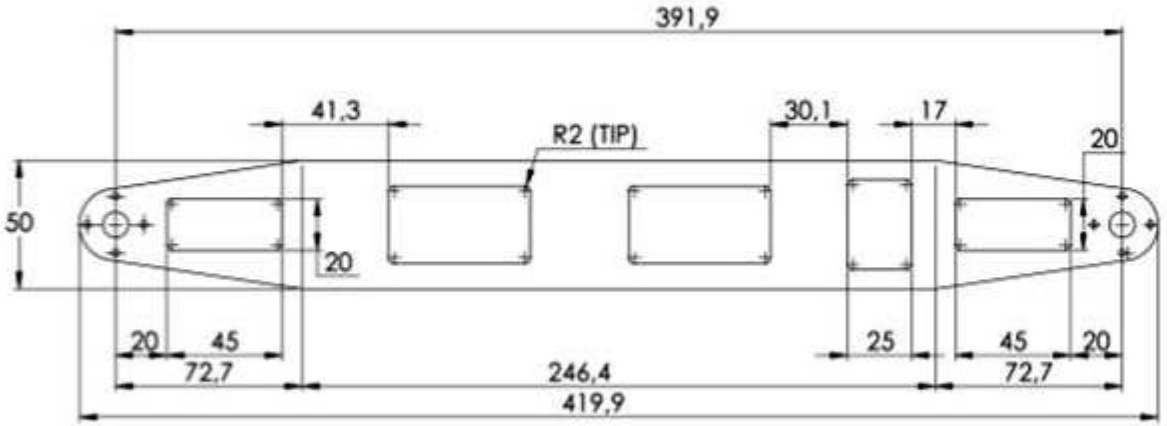
BR Brazilian Institute of Robotics

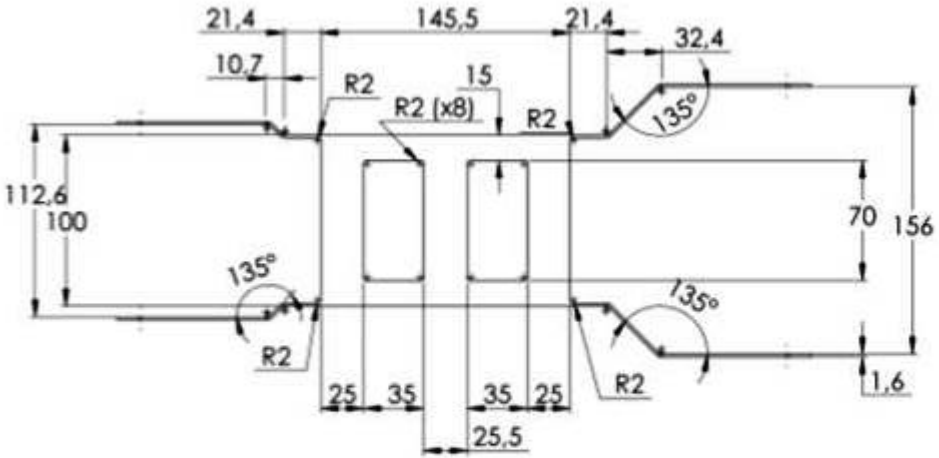
Draw Title: BASE - ITENS 1.4 E 1.5		Rev: 1.2
Project: PI-Ro 2.1		Quantity: --
		Size: A3
Notes: 1. All measurement in mm unless otherwise specified. 2. Remove cutting edge 3. Default finishing	Tolerances: xxx ±0.001 xx ±0.01 x ±0.1 ∠ ±0.2	Drawn: Juliana Sartori
		Material: Alumínio
		Finishing:
		Approv: Marco Reis
		Thermal T°: N/A
		Page: 5/13
Revisão: 0		Date: 07/09/2017

REV	DESCRIPTION	DRAW	DATE
0	Drawing elaboration	Juliana Sartori	07/11/2016
A	Modificação de dimensões	Juliana Sartori	07/09/2017

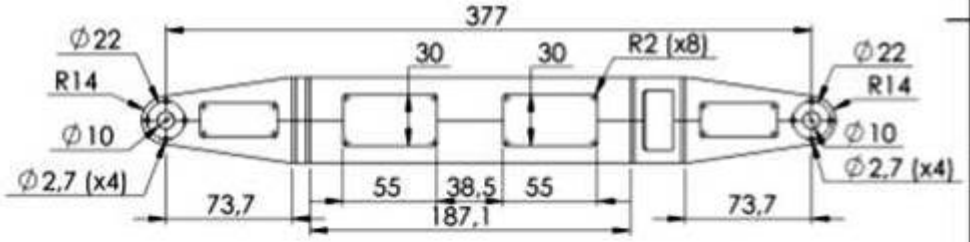


VISTA SUPERIOR PLANIFICADA

VISTA ISOMÉTRICA



VISTA FRONTAL



VISTA SUPERIOR

NOTA 01: CONSIDERAR QUE FILETES NÃO ESPECIFICADOS TÊM RAIO IGUAL A 3.0mm.
NOTA 02: AS DIMENSÕES DE ABERTURA (156mm e 112,6mm) DEVEM SER MANTIDAS APÓS A REALIZAÇÃO DAS DOBRAS DO PERFIL.

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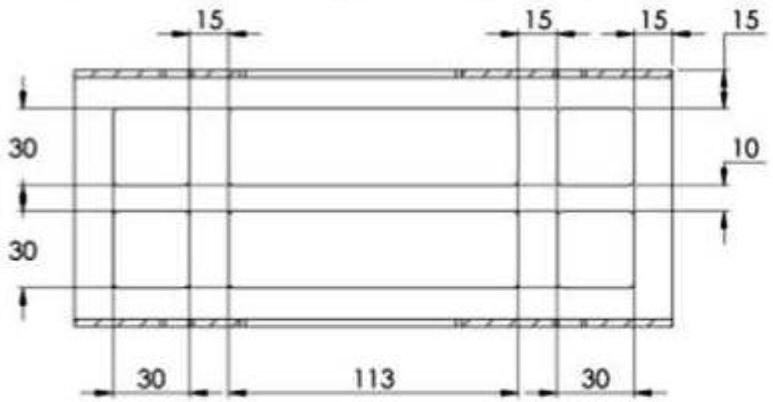
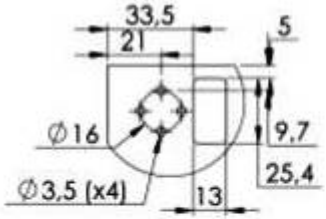
BIR Brazilian Institute of Robotics

Draw Title: BRAÇO- ITEM 02			Escala: 1:2
			Quantity: 02
Project: PI-Ro 2.1			Size: A3
Notes: 1. All measurements in mm unless otherwise specified 2. Remove cutting edge 3. Default finishing	Tolerances: xxx ±0.001 xx ±0.01 x ±0.1 ∠ ±0.5	Draw: Juliana Sartori	Material: Alumínio
		Approv: Marco Reis	Thermal Tr: N/A
Revisão: 0		Date: 07/09/2017	Finishing:
			Page: 6/13

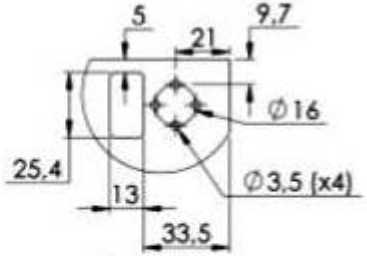
REV	DESCRIPTION	DRAW	DATE
0	Drawing elaboration	Juliana Sartori	07/11/2016
A	Modificação de dimensões	Juliana Sartori	18/11/2016



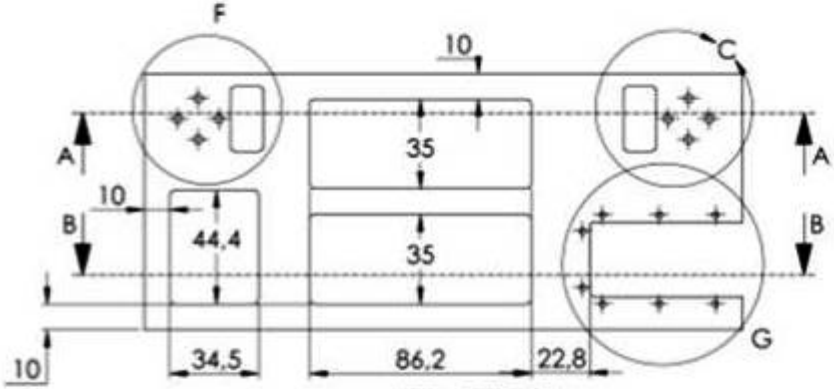
SECTION A-A



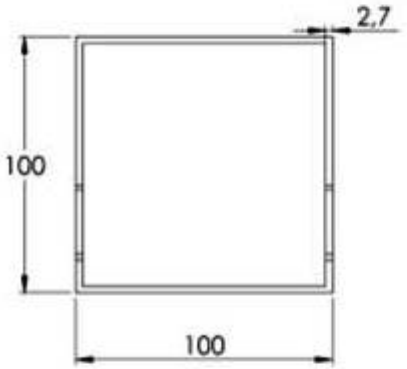
DETAIL F
SCALE 1 : 2



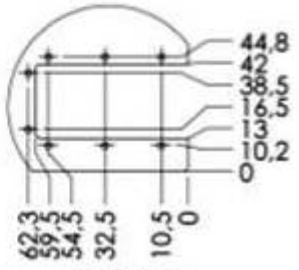
DETAIL C
SCALE 1 : 2



VISTA FRONTAL

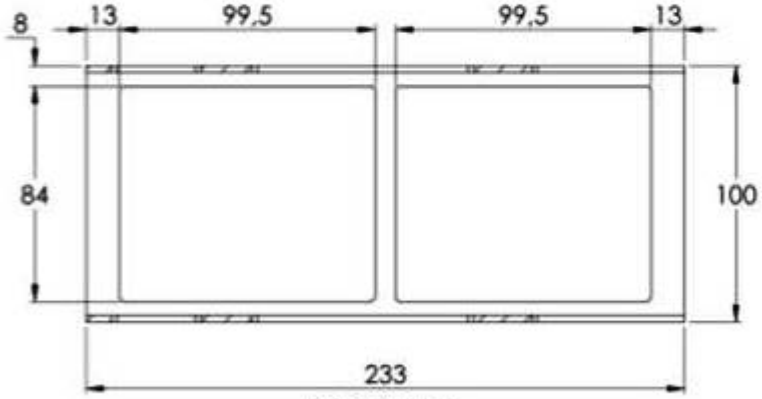


VISTA DIREITA



DETAIL G
SCALE 1 : 2

VISTA ISOMÉTRICA



SECTION B-B

NOTA 01: CONSIDERAR QUE FILETES NÃO ESPECIFICADOS TÊM RAIO IGUAL A 2mm.

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Draw Title: UNIDADE DE TRAÇÃO - ITEM 03
Escale: 1:2
Quantity: 02
Project: PI-Ro 2.1
Size: A3
Notes: 1. All measurement in mm unless otherwise specified 2. Remove cutting edge 3. Default finishing
Tolerances: xxx ±0.001 xx ±0.01 x ±0.1 ∠ ±0.2
Drawn: Juliana Sartori
Material: Alumínio
Finishing:
Agree: Marco Reis
Thermal/T: N/A
Page: 7/13
Revision: 0
Date: 07/09/2017
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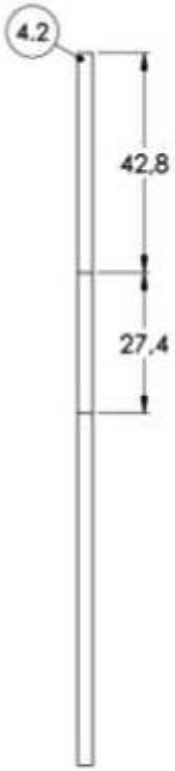
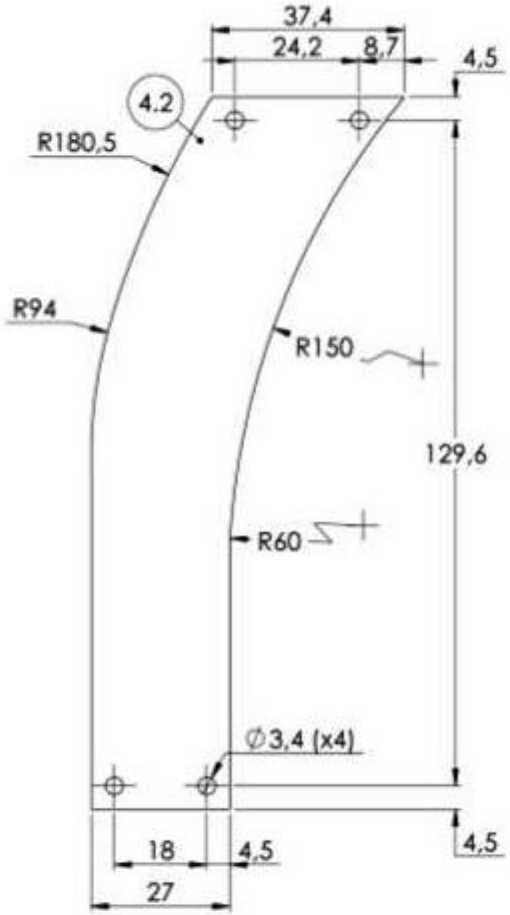
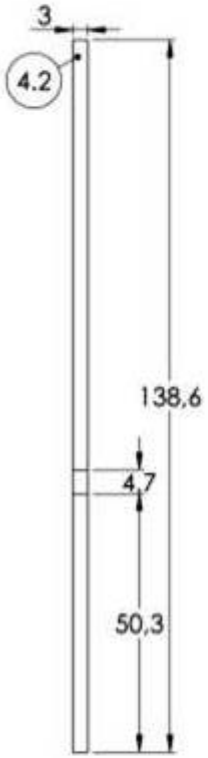
REV	DESCRIPTION	DRAW	DATE
0	Drawing elaboration	Juliana Sartori	07/09/2017



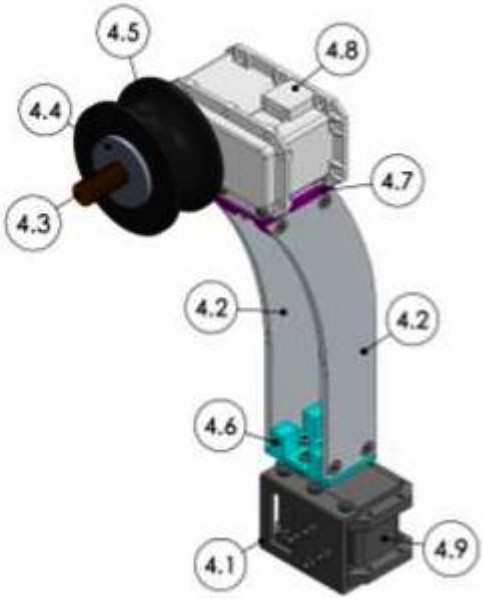
VISTA ESQUERDA



VISTA FRONTAL



VISTA DIREITA



VISTA ISOMÉTRICA

ITEM	DESCRIÇÃO	QTD	MATERIAL
4.9	Motor MX-28	05	--
4.8	Motor MX-106T-31	05	--
4.7	Garra- Chapa IV	05	Alumínio
4.6	Garra- Chapa III	05	Alumínio
4.5	Roldana externa	05	Borracha
4.4	Roldana interna	05	Alumínio
4.3	Eixo Roldana	05	Alumínio
4.2	Garra- Chapa I	10	Alumínio
4.1	Suporte garra	05	Alumínio

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BR Brazilian Institute of Robotics

Draw Title: CONJUNTO ROLDANA - ITEM 04 E ITEM 4.2

Scale: 1:2

Quantity: X

Project: PI-Ro 2.1

Size: A3

Notes:
1. All measurements in mm unless otherwise specified
2. Remove cutting edge
3. Default finishing

Tolerances: Axx±0.001, xx±0.01, x±0.1, ∠ ±0.2

Drew: Juliana Sartori

Material: Alumínio

Finishing:

Aprov: Marco Reis

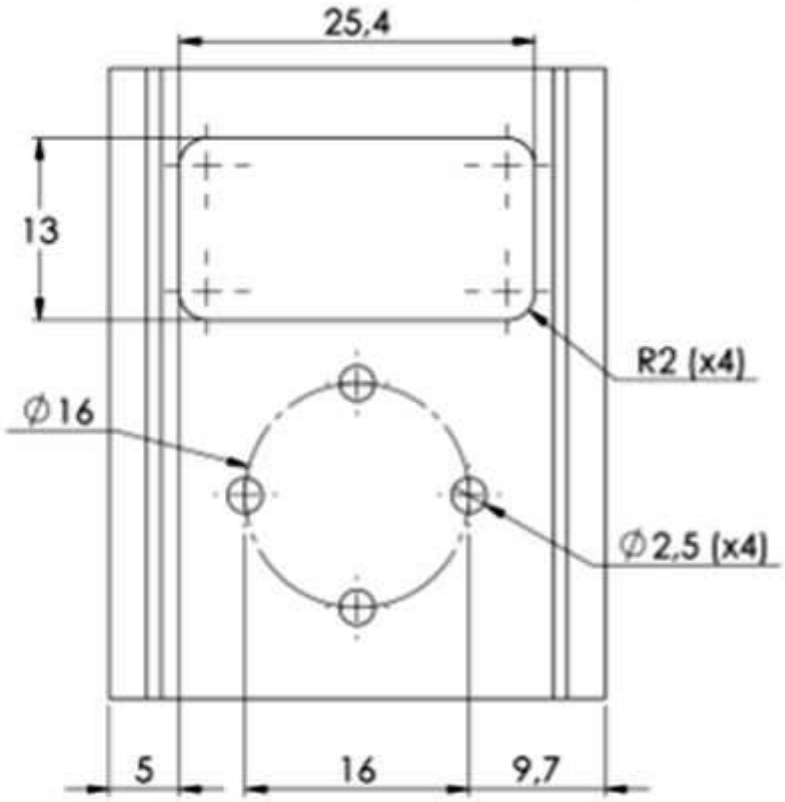
Thermal/T: N/A

Page: 8/13

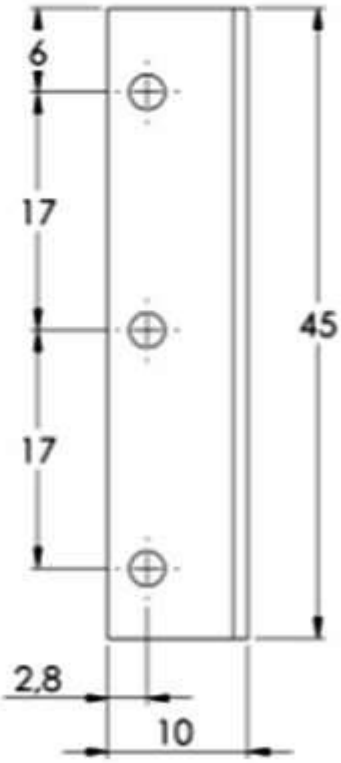
Revisão: 0

Date: 07/09/2017

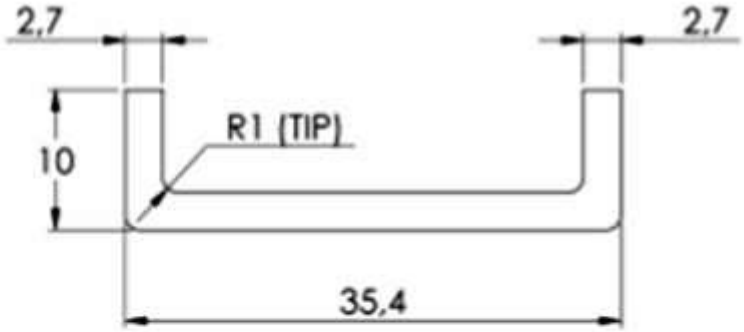
REV	DESCRIPTION	DRAW	DATE
0	Drawing elaboration	Juliana Sartori	07/09/2017



VISTA FRONTAL



VISTA DIREITA



VISTA INFERIOR

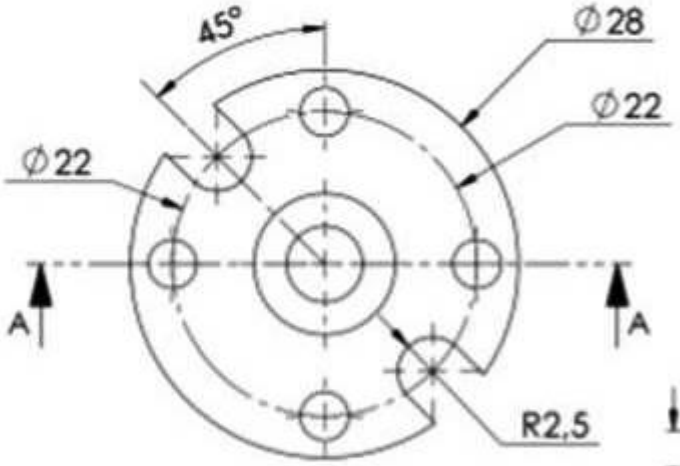
VISTA ISOMÉTRICA

SENAI FIEB — Federação das Indústrias do Estado da Bahia

BIR Brazilian Institute of Robotics

Draw Title: CONJUNTO ROLDANA ITEM 4.1			Escala: 2:1
			Quantity: 05
Project: PI-Ro 2.1			Size: A4
Notes: 1. All measurement in mm unless otherwise specified 2. Remove cutting edge 3. Default finishing	Tolerances: xxx ±0.001 xx ±0.01 x ±0.1 ∠ ±0.2	Draw: Juliana Sartori	Material: Alumínio
		Aprov: Marco Reis	Thermal T: N/A
Revisão: 0		Date: 07/09/2017	Page: 9/13

REV	DESCRIPTION	DRAW	DATE
0	Drawing elaboration	Juliana Sartori	07/09/2017



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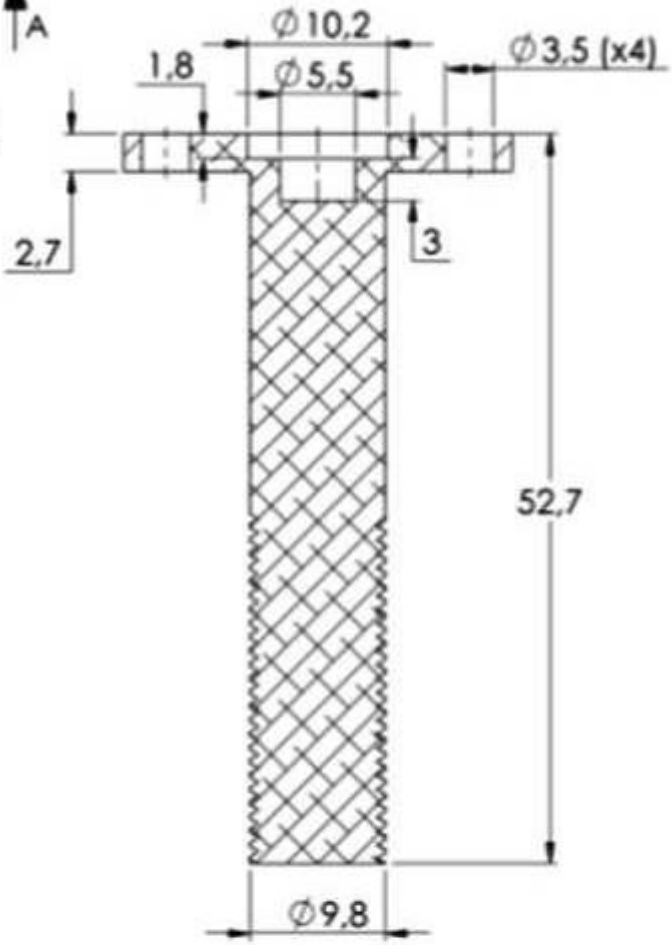


SECTION A-A

VISTA ISOMÉTRICA

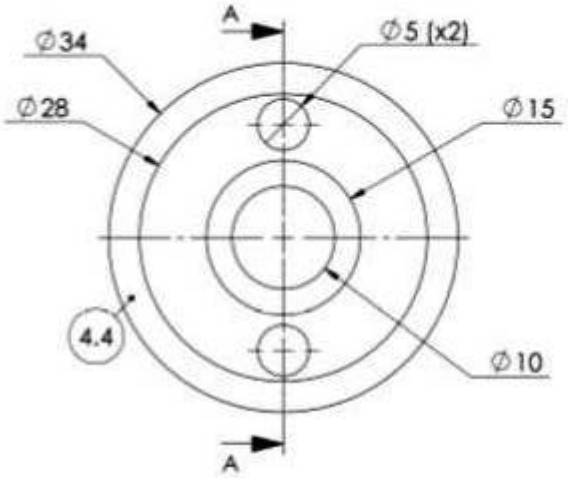
SENAI FIEB

Brazilian Institute of Robotics

Draw Title: CONJUNTO ROLDANA ITEM 4.3			Escala: 2:1
Project: PI-Ro 2.1			Quantity: 05
			Size: A4
Notes: 1. All measurement in mm unless otherwise specified. 2. Remove cutting edge 3. Default finishing	Tolerances: xxx ±0.001 xx ±0.01 x ±0.1 ∠ ±0.2	Draw: Juliana Sartori	Material: Alumínio
		Aprov: Marco Reis	Thermal T: N/A
Revisão: 0		Date: 07/09/2017	Page: 10/13

REV	DESCRIPTION	DRAW	DATE
0	Drawing elaboration	Juliana Sartori	07/09/2017

4.4



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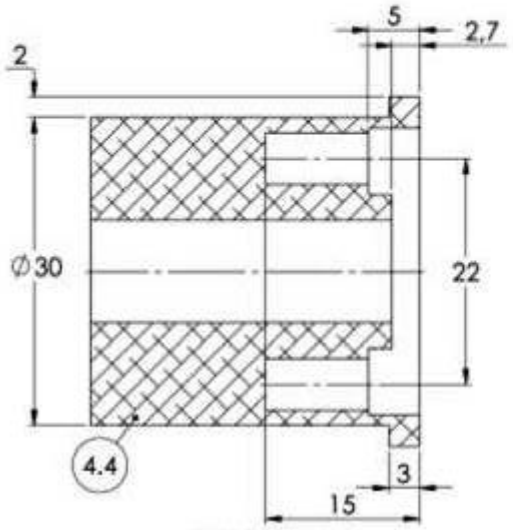
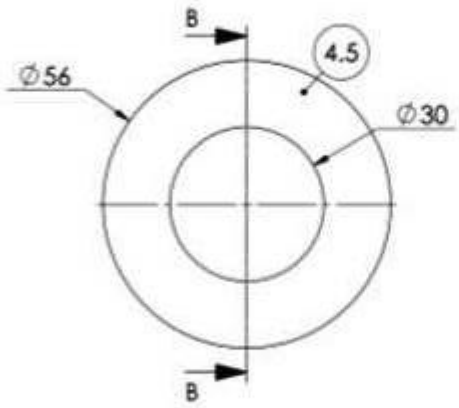
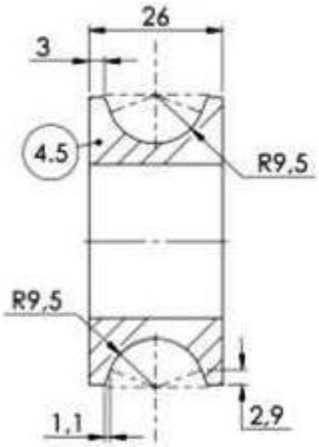


SECTION A-A

VISTA ISOMÉTRICA



VISTA
FRONTAL
ESCALA 1:1



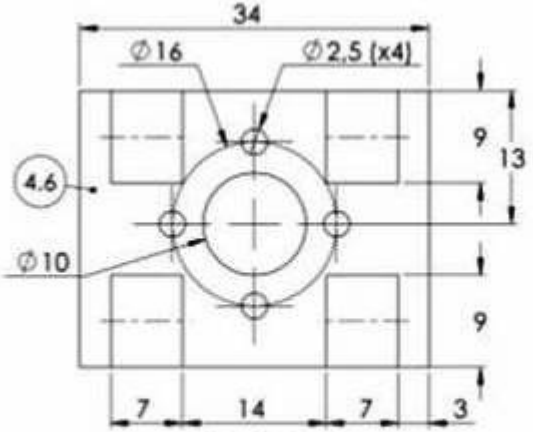
SECTION B-B
ESCALA 1:1

VISTA ISOMÉTRICA

SENAI FIEB
Federação das Indústrias do Estado da Bahia
BR Brazilian Institute of Robotics

Draw Title: CONJUNTO ROLDANA ITEM 4.4 E 4.5			Escala: 2:1
Project: PI-Ro 2.1			Quantity: 05
			Size: A3
Notes: 1. All measurements in mm unless otherwise specified. 2. Remove cutting edge 3. Default finishing	Tolerances: xx ±0.001 xx ±0.01 x ±0.1 ∠ ±0.2	Drawn: Juliana Sartori	Material: Alumínio
		Approv.: Marco Reis	Thermal T.: N/A
Revision: N/A		Date: 07/09/2017	Finishing:
			Page: 11/13

REV	DESCRIPTION	DRAW	DATE
0	Drawing elaboration	Juliana Sartori	07/11/2016
A	Modificação de dimensões	Juliana Sartori	18/11/2016



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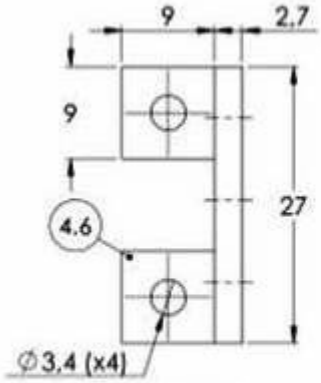
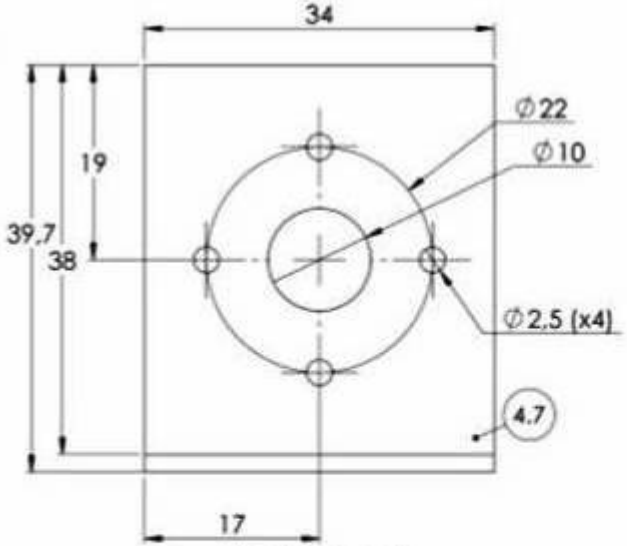


VISTA DIREITA

VISTA ISOMÉTRICA



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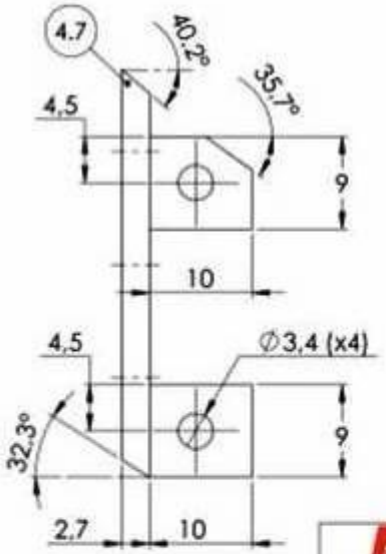


VISTA DIREITA

VISTA ISOMÉTRICA

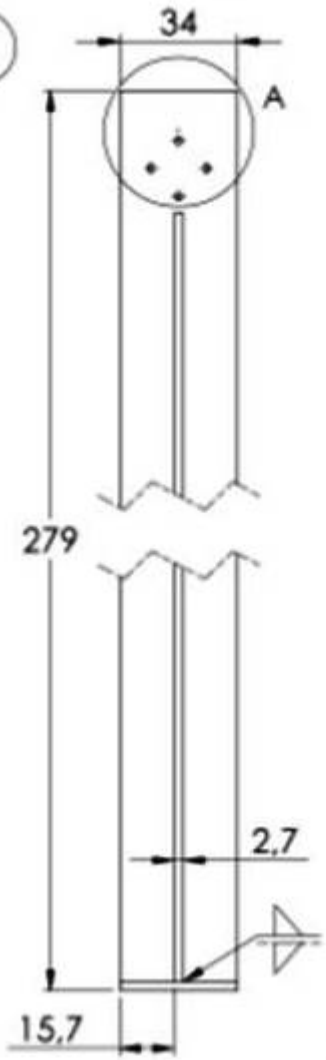
SENAI FIEB — Federação das Indústrias do Estado da Bahia

BIR Brazilian Institute of Robotics

Draw Title:	CONJUNTO ROLDANA - ITENS 4.6 E 4.7
Escala:	1:2
Quantity:	02
Project:	PI-Ro 2.1
Size:	A3
Notes: 1. All measurement in mm unless otherwise specified. 2. Remove cutting edge 3. Default finishing	Tolerances: xxx ±0.001 xx ±0.01 x ±0.1 ∠ ±0.2
Draw:	Juliana Sartori
Material:	Alumínio
Finishing:	
Aprov:	Marco Reis
Thermal Tr:	N/A
Page:	12/13
Revisão:	0
Date:	07/09/2017

REV	DESCRIPTION	DRAW	DATE
0	Drawing elaboration	Juliana Sartori	07/09/2017

5



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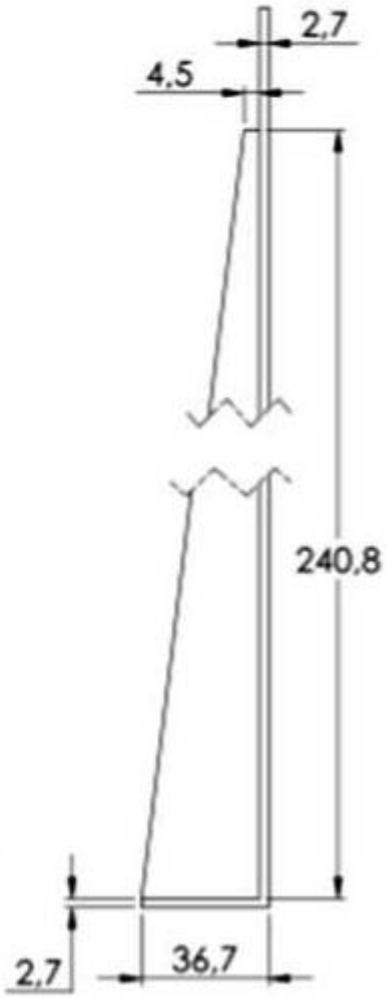

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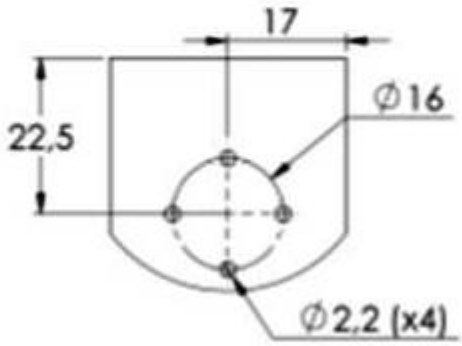
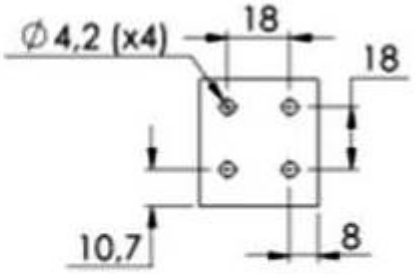


DETAIL A
SCALE 1 : 1

VISTA ISOMÉTRICA



VISTA INFERIOR

SENAI FIEB — Federação das Indústrias do Estado da Bahia
BR Brazilian Institute of Robotics

Draw Title: HASTE CENTRAL - ITEM 5			Escala: 1:2
			Quantity: 01
Project: PI-Ro 2.1			Size: A4
Notes: 1. All measurement in mm unless otherwise specified. 2. Remove cutting edge 3. Default finishing	Tolerances: xxx ±0.001 xx ±0.01 x ±0.1 ∠ ±0.2	Draw: Juliana Sartori	Material: Alumínio
		Finishing:	
		Agree: Marco Reis	Thermal T: N/A
		Page: 13/13	
Revisão: 0		Date: 07/09/2017	THE INFORMATION IN THIS DOCUMENT CANNOT BE COPIED, GIVEN AWAY OR USED FOR OTHERS MEANS EXCEPT THOSE CONTAINED IN THE CONTRACT TERMS.