WorldSkills 2015 São Paulo
Skill: 05 - Mechanical Engineering Design - CAD

Title: robot_leg Detail Drawing
Project: 6-legged robot

Drawn: LE, BING LUN
Workspace: ISO 5456-2
Date: 2015/5/26

Notes For Machining And Casting
1. System of limits and fits as ISO 286-1
2. Unspecified chamfers = 0.5x45°
3. Unspecified fillets and radius = R2
4. Tolerance for cast surfaces J14 / J14
5. Taper angle for mold extraction = 2°
6. General standards used are ISO 128
7. Surface texture as ISO 1302
8. Geometric tolerance as ISO 1101
9. General Tolerance
   a. Machining ISO 2786-mk
   b. Casting ISO 8062-CT10

Edges of undefined shape as ISO 13715

Material: Aluminum 6061
Density: 2.700 g/cm^3
Mass: 0.056 kg
Volume: 20575.042 mm^3
Area: 8130.510 mm^2

Physical Properties
Ra 25

2xØ 8,1 THRU
Notes For Sheet Metal
1. Unspecified chamfers = 0.5x45°
2. Unspecified fillets and radius = R2
3. General standards used are ISO 128
4. Surface texture as ISO 13025
5. General Tolerance - Machining ISO 2768-mk

TABLE

<table>
<thead>
<tr>
<th>BEND ID</th>
<th>BEND DIRECTION</th>
<th>BEND ANGLE</th>
<th>BEND RADIUS</th>
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<tbody>
<tr>
<td>3</td>
<td>DOWN</td>
<td>61,977</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>DOWN</td>
<td>120,114</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>DOWN</td>
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<td>1</td>
</tr>
<tr>
<td>1</td>
<td>DOWN</td>
<td>120,114</td>
<td>1</td>
</tr>
</tbody>
</table>

The mark "WorldSkills" engrave 0.5mm

Flat Pattern
Thickness = 1mm

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Cover Details
Artwork

Part Number: WSS2015_T05
Sheet: 2/S
Size: A3
Scale: 1:2

ISO 9456-2

Edges of undefined shape as ISO 13715