Preferred Design for an F2A Pylon

The attached drawings are for the pylon which was made for the 2012 F2A World Championships in Bulgaria. This pylon was considered by the competitors to be the best one ever used at a Championship.

Page 2 shows the pylon and all the components and the nine pages thereafter show the separate components.
<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>QTY.</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Bearing_DIN_625_1 - 1989_6002_v9.00</td>
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<td>SPRING RETAINING RING - DIN 472 - 32 X 1.5</td>
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<td>5</td>
<td>SPRING RETAINING RING - DIN 471_14 X 1</td>
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<td>6</td>
<td>F2A PF-0001 bearing spacer</td>
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<td>Screw_DIN_912_M10x16_ver1</td>
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<td>F2A PF-0100 pylon forks</td>
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<td>9</td>
<td>F2A PF-0200 outer column assembly</td>
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<td>10</td>
<td>F2A PF-0300 inner column</td>
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</tbody>
</table>
outer tube inner collar

Tap M10 x 1.25

section d-d

dimensions above to

dimensions are in millimeters

debur and break sharp edges 0.2 max

do not scale drawing

general machining tolerances: ±0.025 ±0.05 ±0.15 ±0.3

surface finish: Ra 1.6 max

material:

dules below:

dimensions are in millimeters

debur and break sharp edges 0.2 max

do not scale drawing

general machining tolerances: ±0.025 ±0.05 ±0.15 ±0.3

surface finish: Ra 1.6 max

material:

unless otherwise specified:

dimensions are in millimeters

debur and break sharp edges 0.2 max

do not scale drawing

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surface finish: Ra 1.6 max

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surface finish: Ra 1.6 max

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general machining tolerances: ±0.025 ±0.05 ±0.15 ±0.3

surface finish: Ra 1.6 max

material:

unless otherwise specified:

dimensions are in millimeters

debur and break sharp edges 0.2 max

do not scale drawing

general machining tolerances: ±0.025 ±0.05 ±0.15 ±0.3

surface finish: Ra 1.6 max

material:
Outer tube

DIMENSIONS ARE IN MILLIMETERS

DEBUR AND BREAK SHARP EDGES 0.2 MAX
DO NOT SCALE DRAWING

SURFACE FINISH: Ra 1.6 max

MATERIAL:
MASS:

FINISH:
DIMENSIONS ABOVE TO:

TOLERANCES:

<table>
<thead>
<tr>
<th>DIMENSIONS</th>
<th>0</th>
<th>6</th>
<th>30</th>
<th>60</th>
<th>120</th>
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</tbody>
</table>

Ra 1.6 max
±0.025
±0.05
±0.15
±0.3

DRAWN P HALMAN
APPROVED
ISSUE

NOT SCALE DRAWING

SCALE: 1:4

ISSUE

1 2 3 4
Spacer tube

DIMENSIONS ABOVE TO:

- 0
- 6
- 30
- 60
- 120

TOLERANCES:

- ±0.025
- ±0.05
- ±0.15
- ±0.3

SURFACE FINISH:

- Ra 1.6 max

MATERIAL:

- DEBUR AND BREAK SHARP EDGES 0.2 MAX
- DO NOT SCALE DRAWING
- GENERAL MACHINING
- Ra 1.6 max

TOLERANCES:

- ±0.025
- ±0.05
- ±0.15
- ±0.3

DATE:

- P HALMAN

ISSUE:

- APPVD
- ISSUE
- ISSUE
- ISSUE

ISSUE:

- 60
- 120
Grind top fit bearings

Center pin

**Finish:**
- Ra 1.6 max

**Machining Tolerances:**
- ±0.025
- ±0.05
- ±0.15
- ±0.3

**Material:**
- Debur and break sharp edges 0.2 max

**Dimensions are in millimeters**

**Do not scale drawing**

**Section G-G**

**Title:** Center pin

**Drawing Number:** F2A Pylon PH

**Scale:** 1:2

**Issue:** SHEET 9 OF 9