

project
PTB - Pacer Turbine

part | assembly pacer

quantity (per unit)

materials

finish

notes

drawn by MH

19/04/2011

sheet 1 of 18

scale 1:5 @ A3

ALL DIMENSIONS ARE IN mm

drawing **001-PTB-PACER** CAD file

pacer

**Pacer Turbine** 

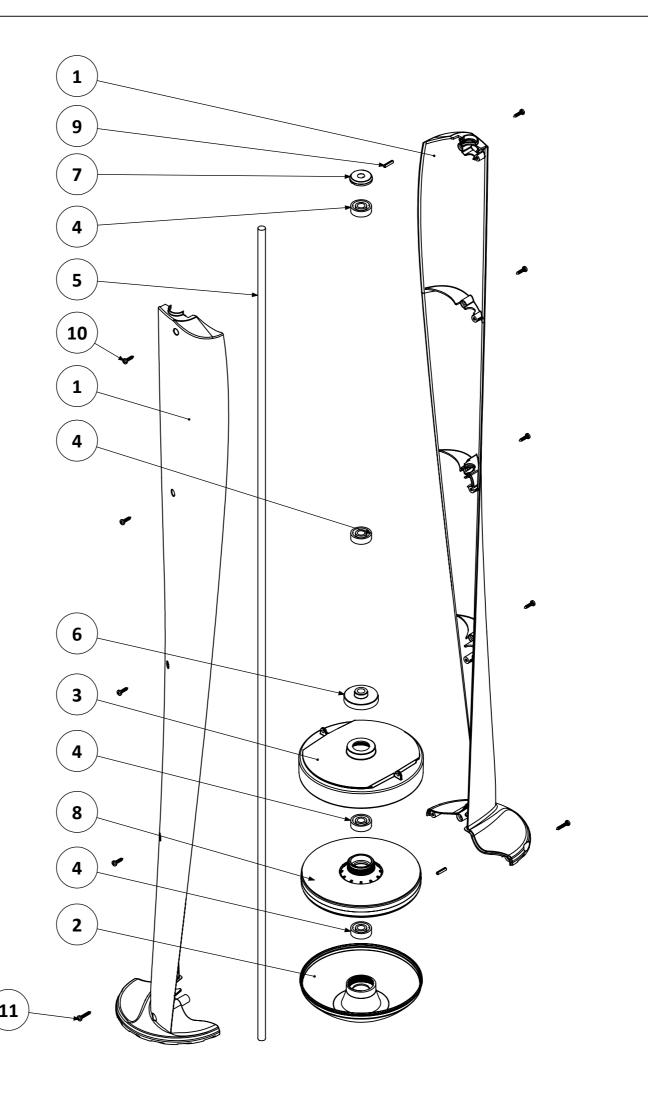
revision

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Contact: Pete Boyd-Wilson E-mail: pete.boyd-wilson@pacerturbines.com Phone: +64 21 642865 Address: Please contact us for deliveries.



#	Name	Drawing	QTY
1	Blade	002-PTB-PACER	2
2	Generator Bottom	003-PTB-PACER	1
3	Generator Top	004-PTB-PACER	1
4	Bearing	005-PTB-PACER	4
5	Shaft	006-PTB-PACER	1
6	Generator Bearing Seal	007-PTB-PACER	1
7	Top Bearing Seal	008-PTB-PACER	1
8	Generator	009-PTB-PACER	1
9	M3x13 Bissell Pin	N/A	2
10	ST2.9x12 Pan Self Tapper	N/A	8
11	ST2.9x16 Pan Self Tapper	N/A	4



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part | assembly pacer

quantity (per unit)

materials

finish

notes

drawn by MH

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sheet 2 of 18

1:4 @ A3

ALL DIMENSIONS ARE IN mm

drawing **001-PTB-PACER** CAD file

pacer

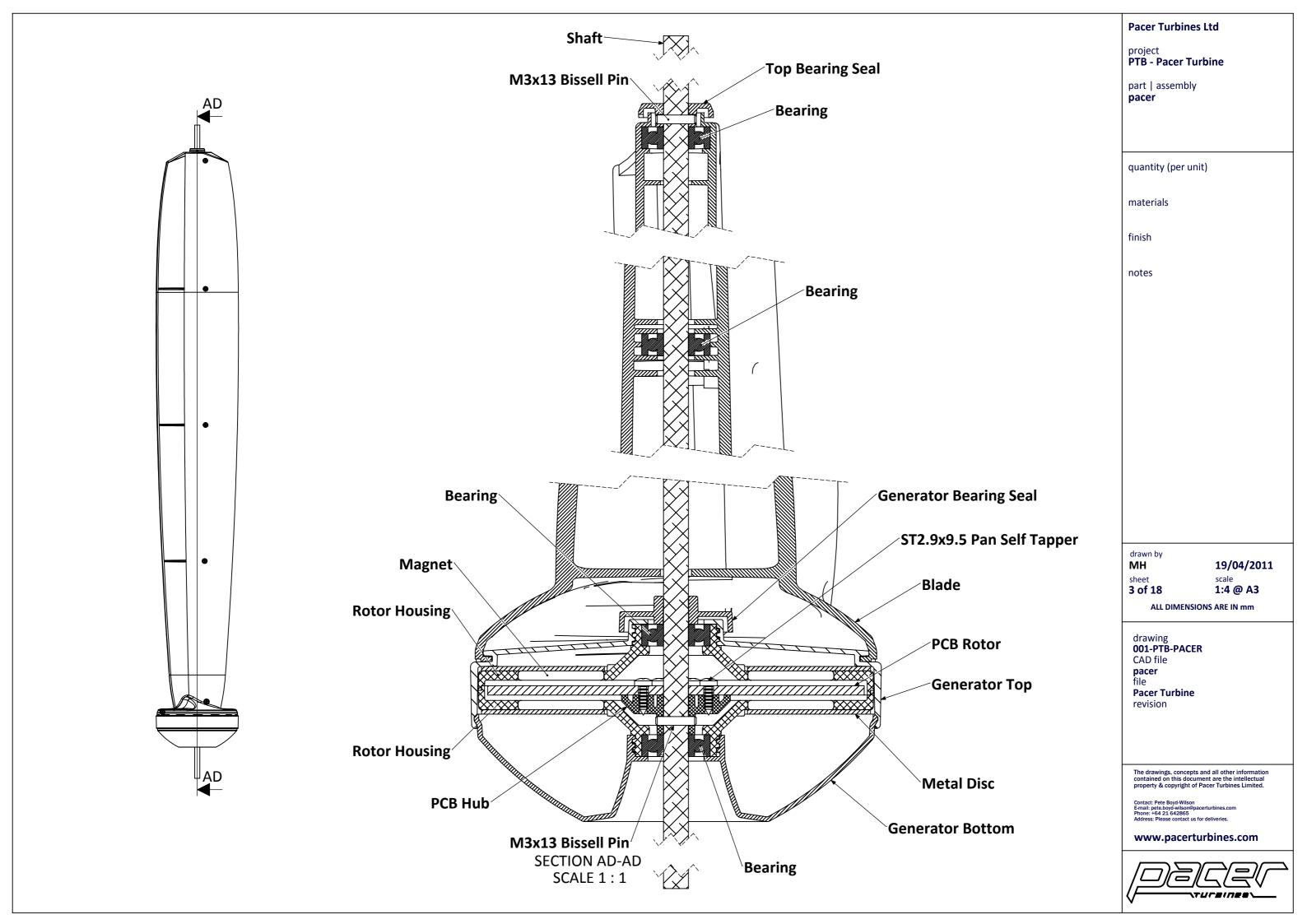
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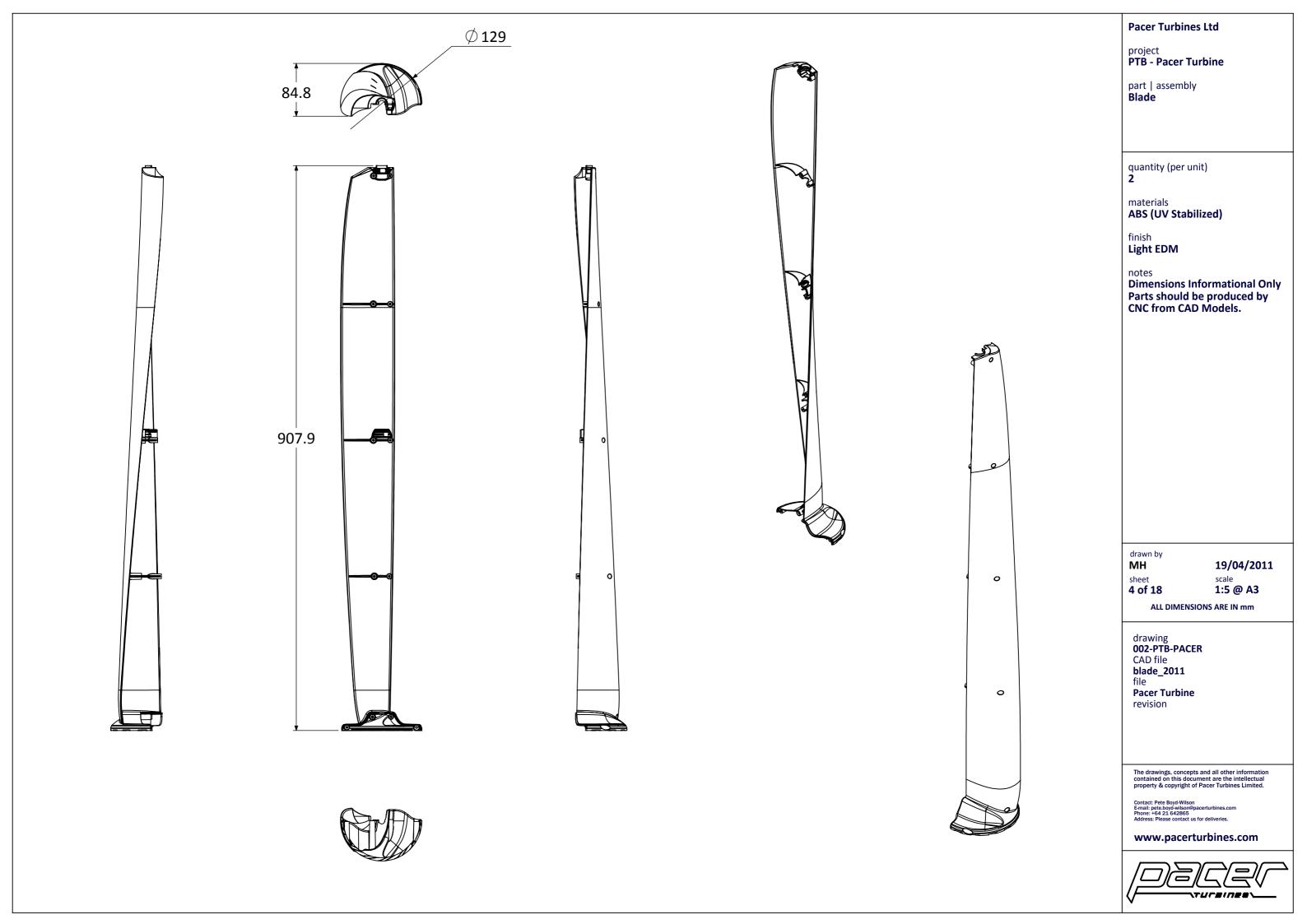
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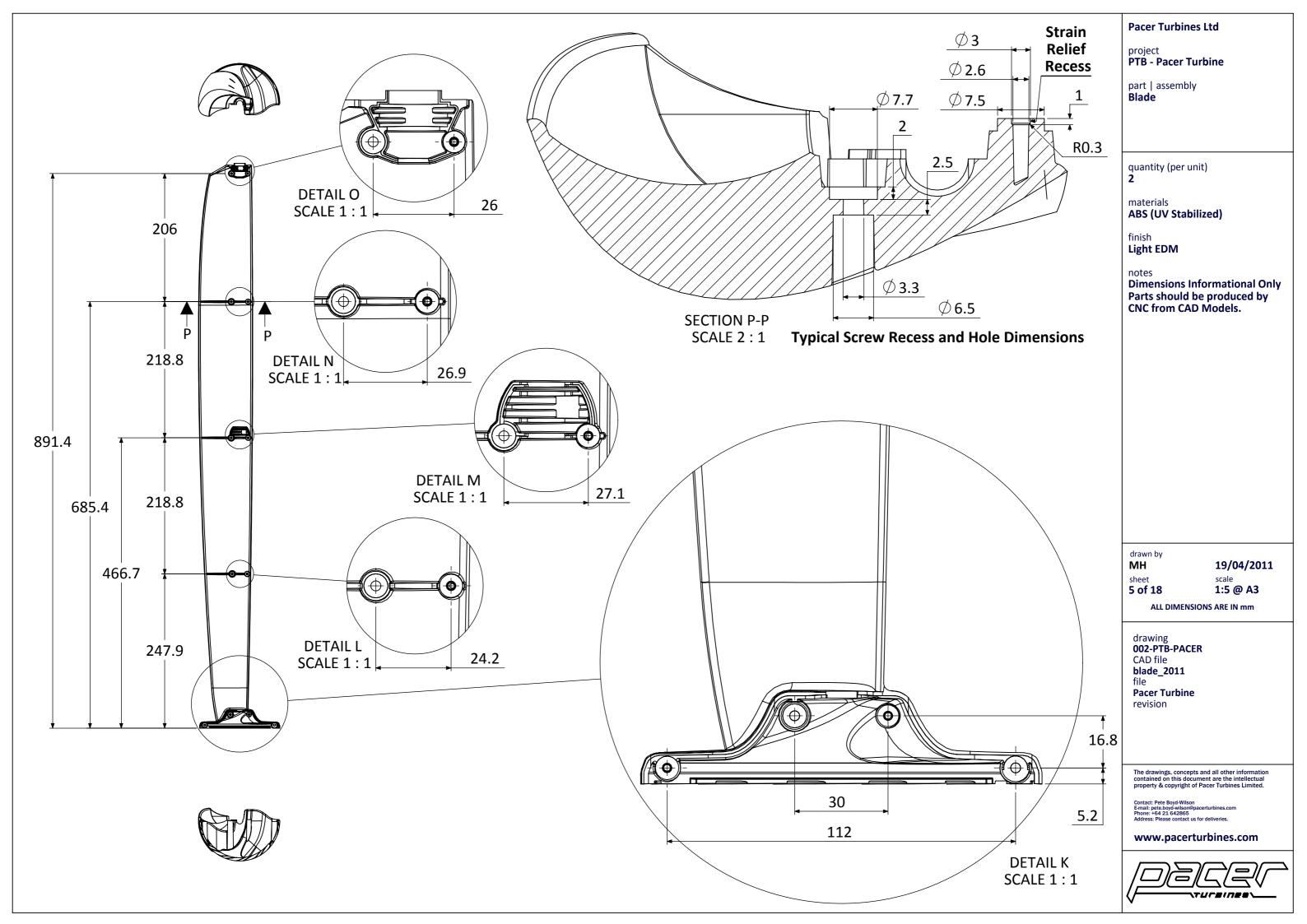
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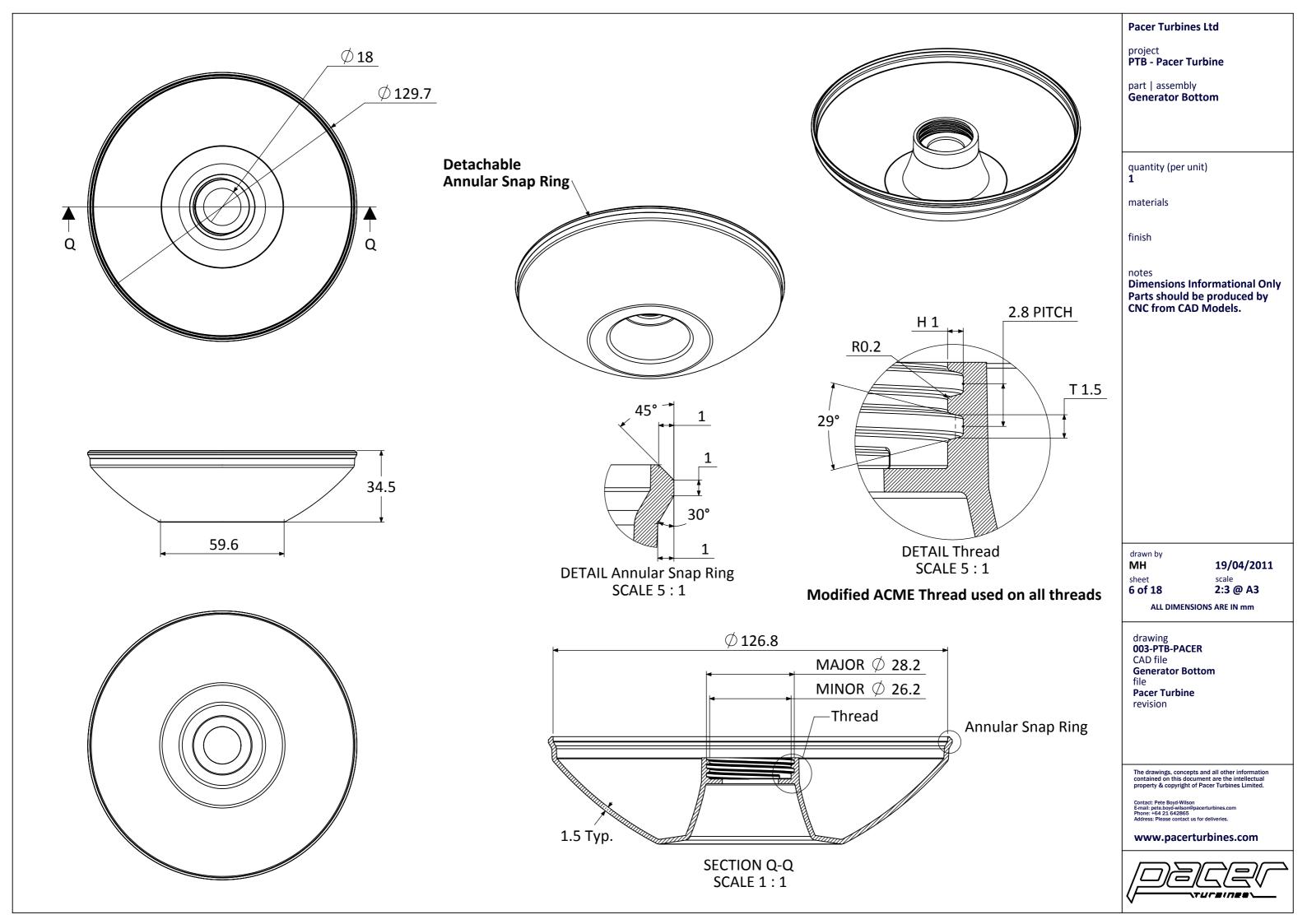
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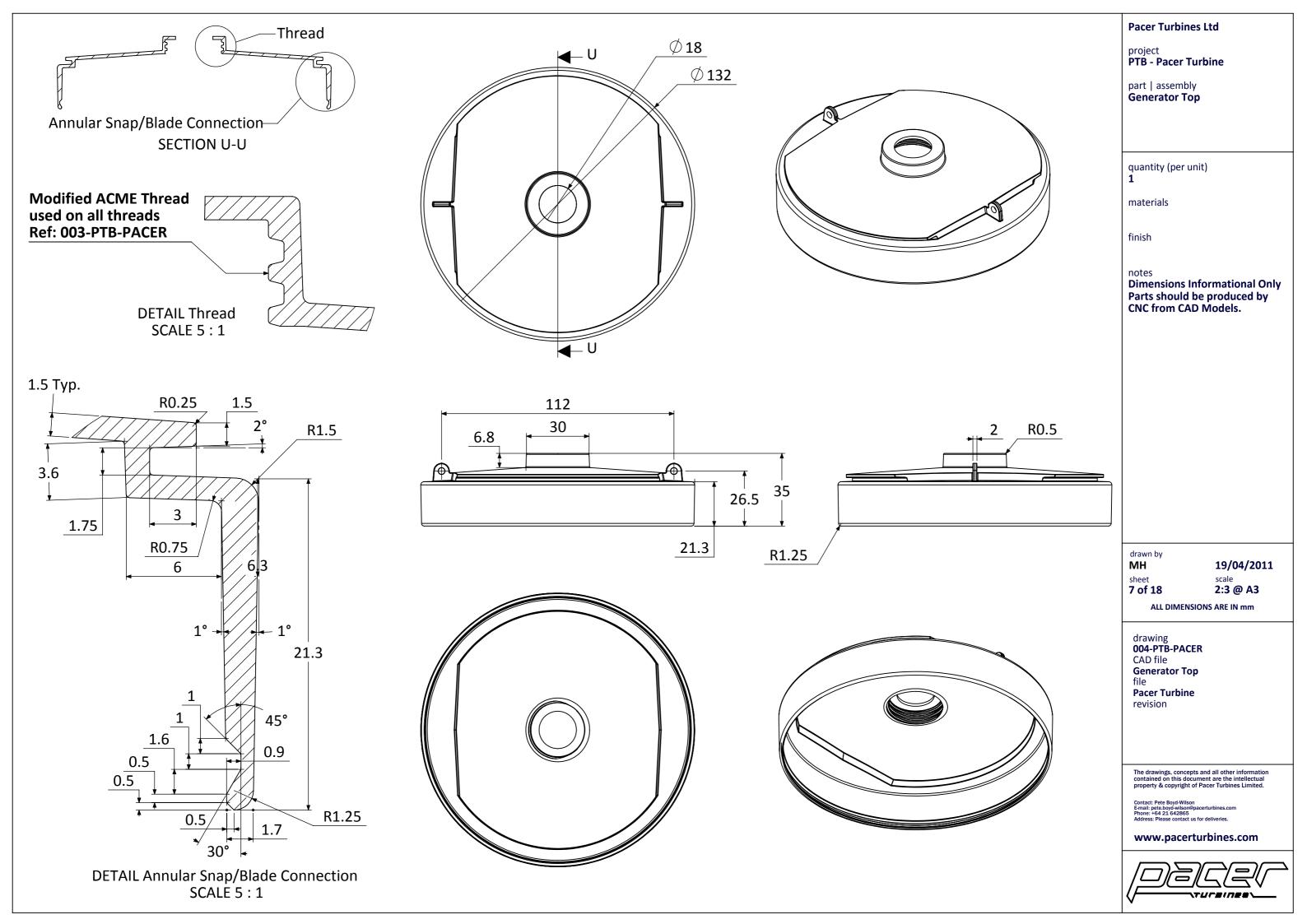


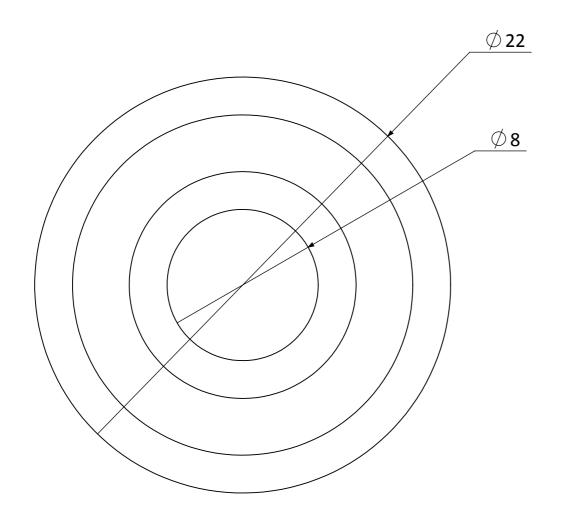


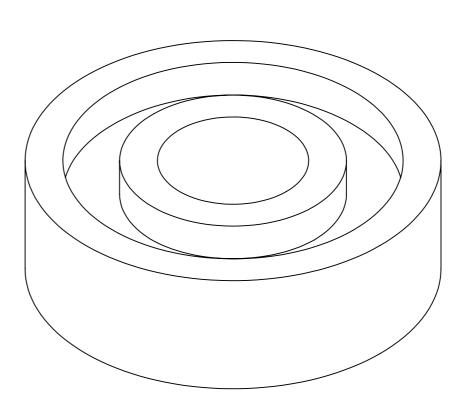












project
PTB - Pacer Turbine

part | assembly Bearing

quantity (per unit)
4

materials
Standard Skate Bearing

finish

notes

drawn by MH

19/04/2011

sheet 8 of 18

scale **5:1 @ A3** 

ALL DIMENSIONS ARE IN mm

drawing **005-PTB-PACER** CAD file

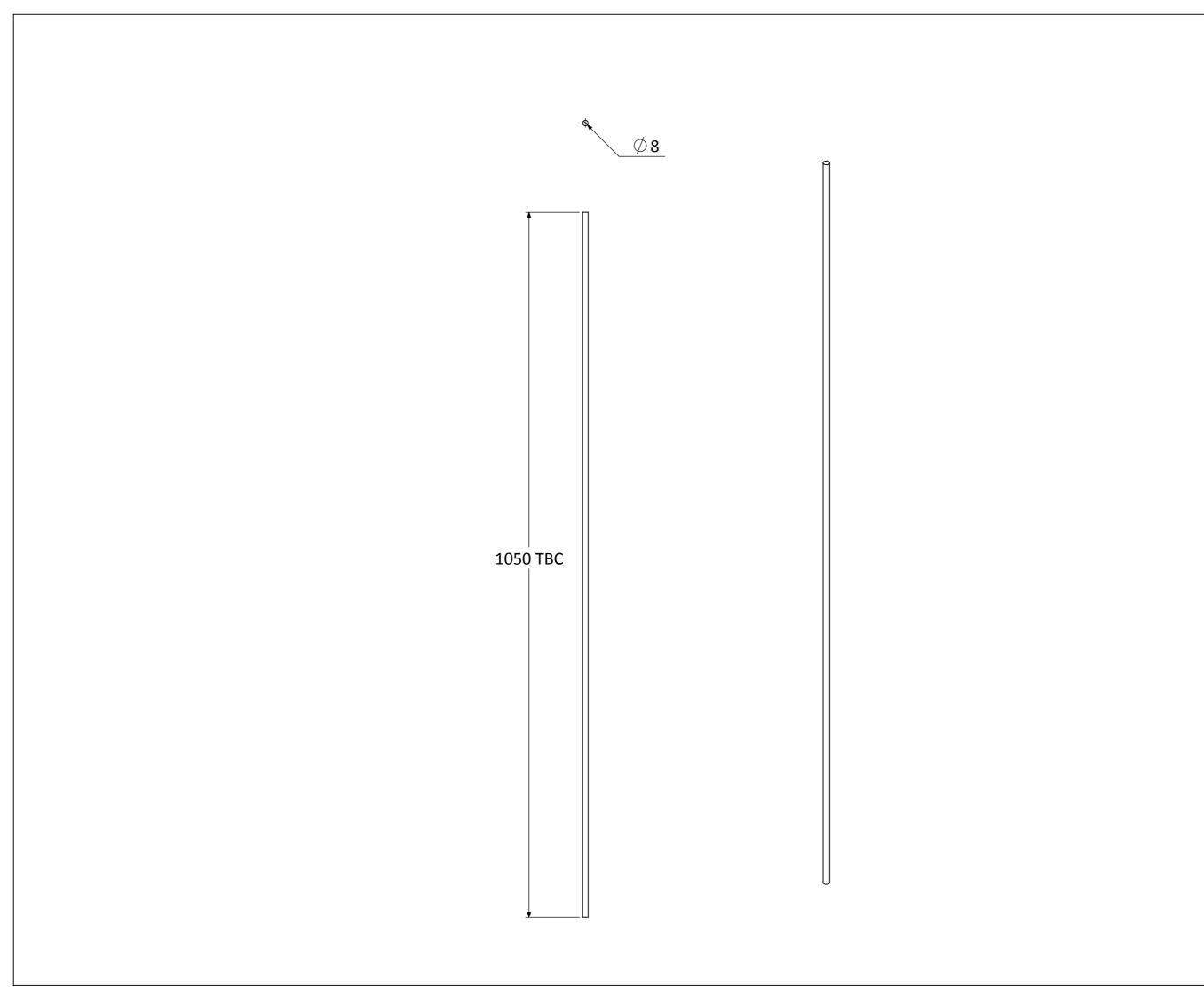
skate\_bearing

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project
PTB - Pacer Turbine

part | assembly **Shaft** 

quantity (per unit)

1

materials
Carbon Fibre/Fibreglass
Pulltrusion TBC

finish

notes

drawn by

19/04/2011 MH

sheet

9 of 18 1:5 @ A3

ALL DIMENSIONS ARE IN mm

drawing 006-PTB-PACER CAD file shaft

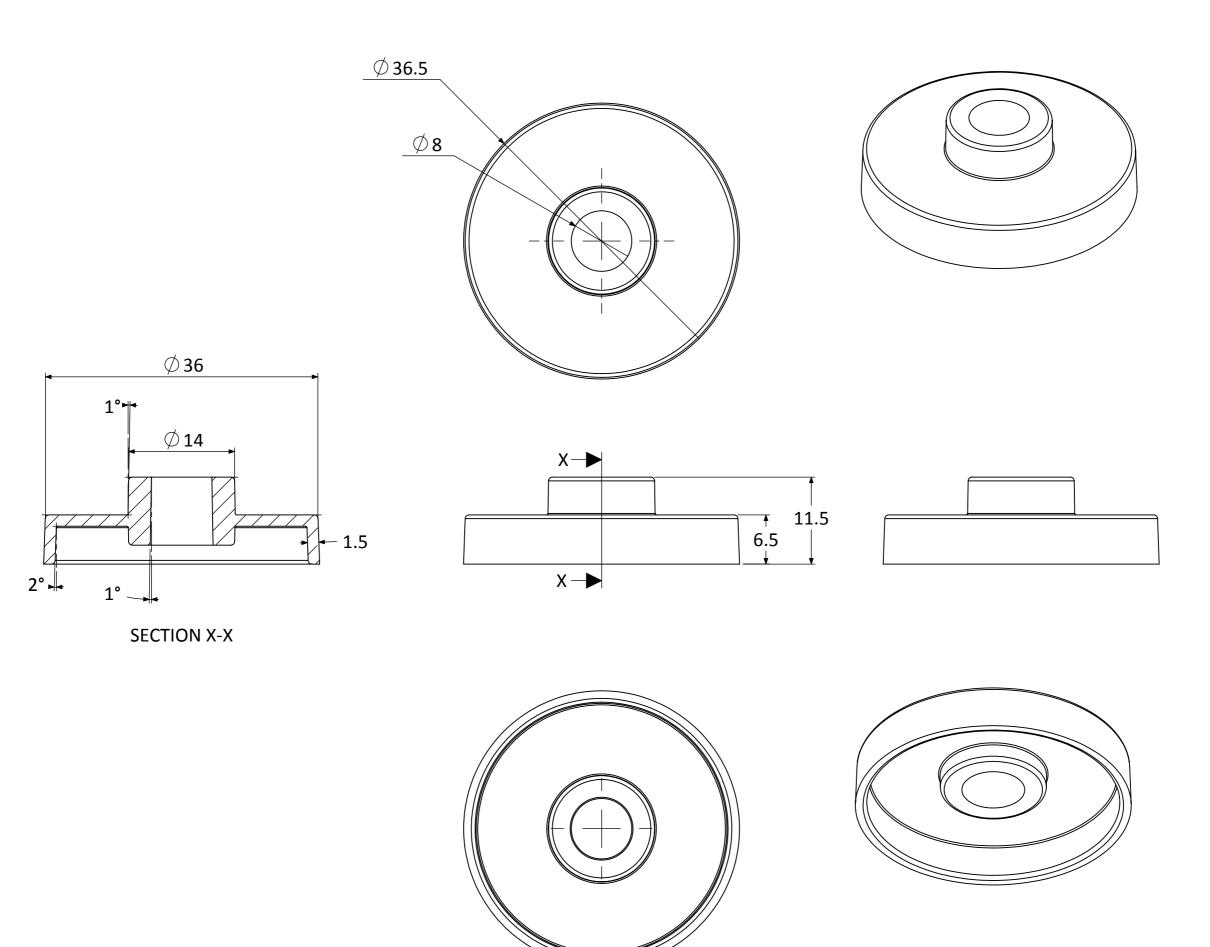
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project
PTB - Pacer Turbine

part | assembly Generator Bearing Seal

quantity (per unit)

1

materials

finish

notes
The connection to the Shaft has not been resolved yet.
Friction should be enough to hold this part in place depending on the shaft material.

Dimensions Informational Only Parts should be produced by CNC from CAD Models.

drawn by MH

19/04/2011

10 of 18

2:1 @ A3

ALL DIMENSIONS ARE IN mm

drawing **007-PTB-PACER** 

CAD file

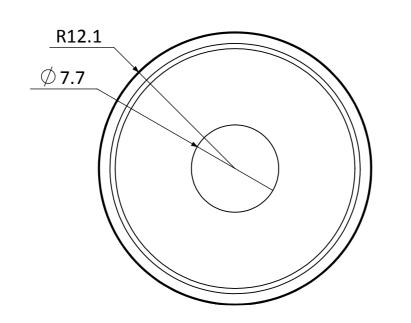
Top Seal

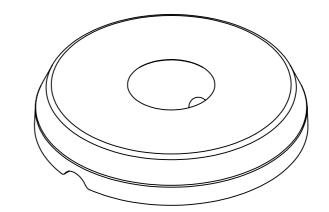
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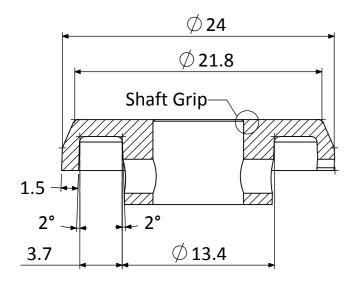
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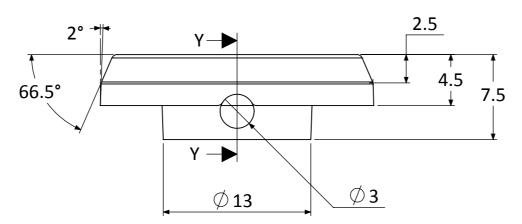
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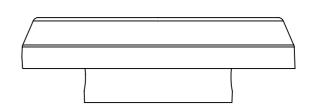




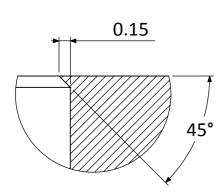




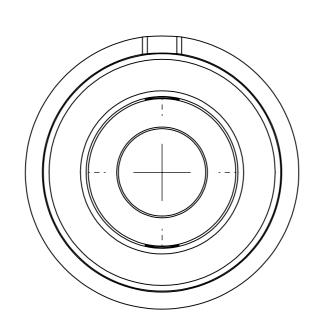


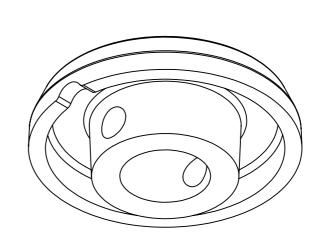


**SECTION Y-Y** 



DETAIL Shaft Grip SCALE 20 : 1





project **PTB - Pacer Turbine** 

part | assembly
Top Bearing Seal

quantity (per unit)

1

materials

finish

Dimensions Informational Only Parts should be produced by CNC from CAD Models.

drawn by

MH 19/04/2011

11 of 18

ALL DIMENSIONS ARE IN mm

3:1 @ A3

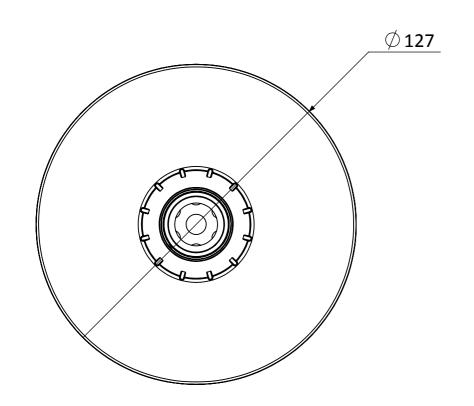
drawing
008-PTB-PACER
CAD file
bearing\_top\_bearing\_cover

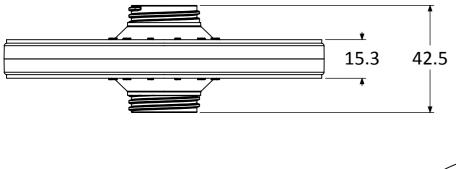
**Pacer Turbine** revision

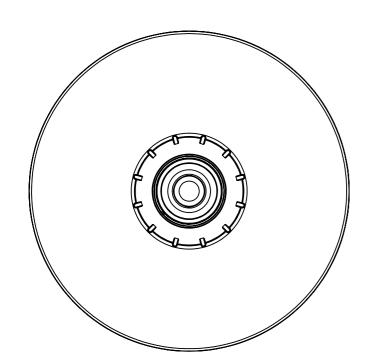
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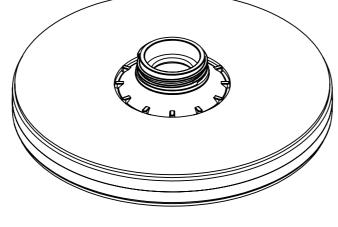
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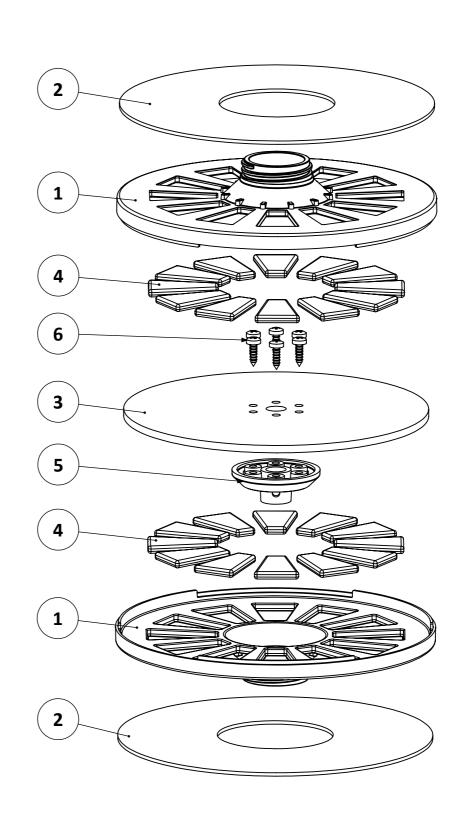








#	Name	Drawing	QTY
1	Rotor Housing	010-PTB-PACER	2
2	Metal Disc	011-PTB-PACER	2
3	PCB Rotor	012-PTB-PACER	1
4	Magnet	013-PTB-PACER	24
5	PCB Hub	014-PTB-PACER	1
6	ST2.9x9.5 Pan Self Tapper	N/A	6



project
PTB - Pacer Turbine

part | assembly Generator

quantity (per unit)

1

materials

finish

notes

drawn by

19/04/2011 MH

sheet 12 of 18

scale 2:3 @ A3 ALL DIMENSIONS ARE IN mm

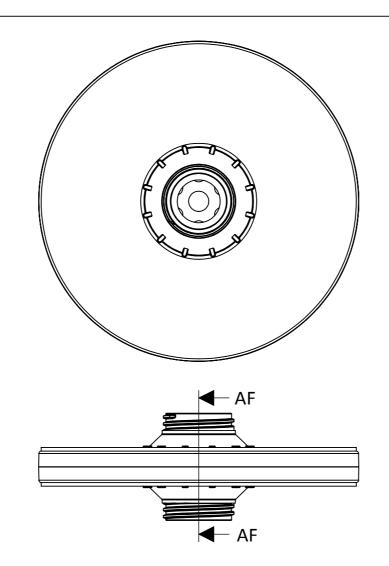
drawing
009-PTB-PACER
CAD file
Generator

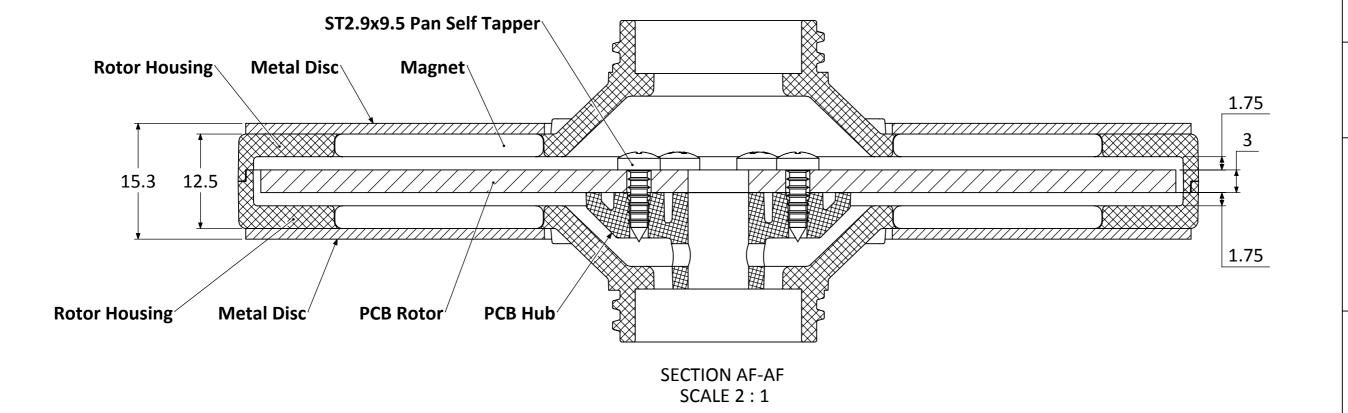
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project **PTB - Pacer Turbine** 

part | assembly Generator

quantity (per unit)

1

materials

finish

notes

drawn by

MH 19/04/2011

13 of 18

ALL DIMENSIONS ARE IN mm

2:3 @ A3

drawing
009-PTB-PACER
CAD file
Generator

**Pacer Turbine** 

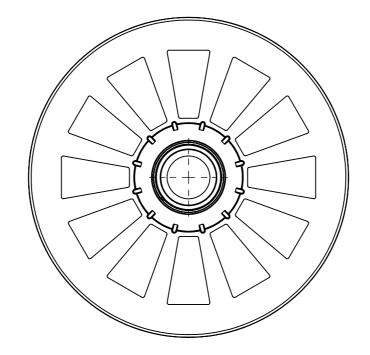
revision

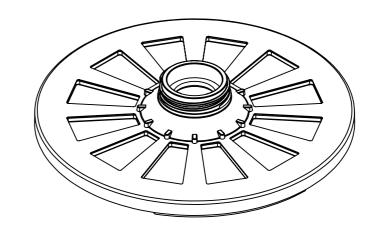
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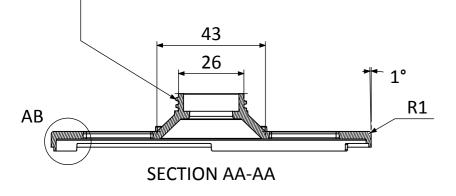


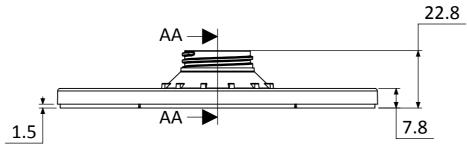


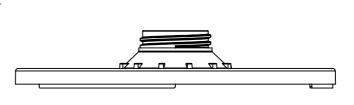


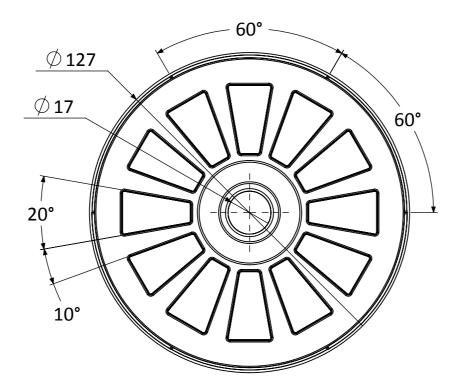


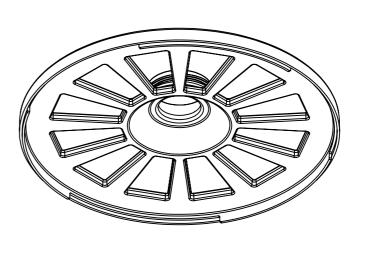
## **Modified ACME Thread used on all threads** Ref: 003-PTB-PACER











project

part | assembly Rotor Housing

quantity (per unit) **2** 

materials

finish

Dimensions Informational Only Parts should be produced by CNC from CAD Models.

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19/04/2011

14 of 18

2:3 @ A3

ALL DIMENSIONS ARE IN mm

drawing
010-PTB-PACER
CAD file
Rotor Housing

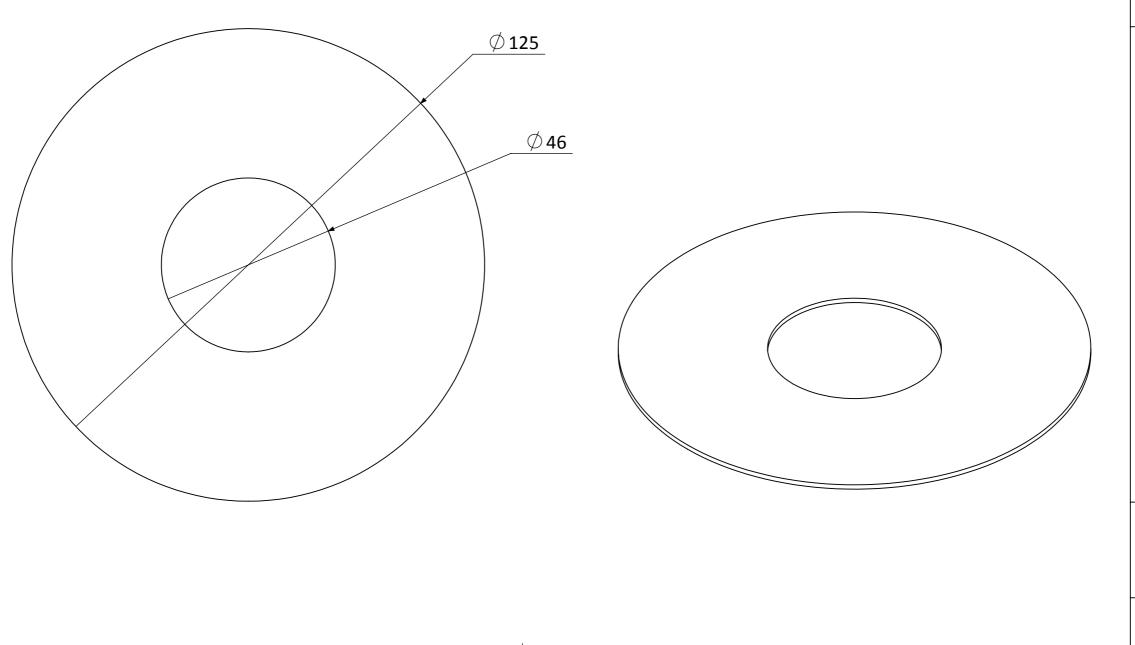
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1.4

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project
PTB - Pacer Turbine

part | assembly Metal Disc

quantity (per unit) **2** 

materials **MS** 

finish TBC

Dimensions Informational Only Parts should be produced by CNC from CAD Models.

drawn by MH

19/04/2011

sheet

scale 1:1 @ A3 15 of 18

ALL DIMENSIONS ARE IN mm

drawing
011-PTB-PACER
CAD file
Metal Disc

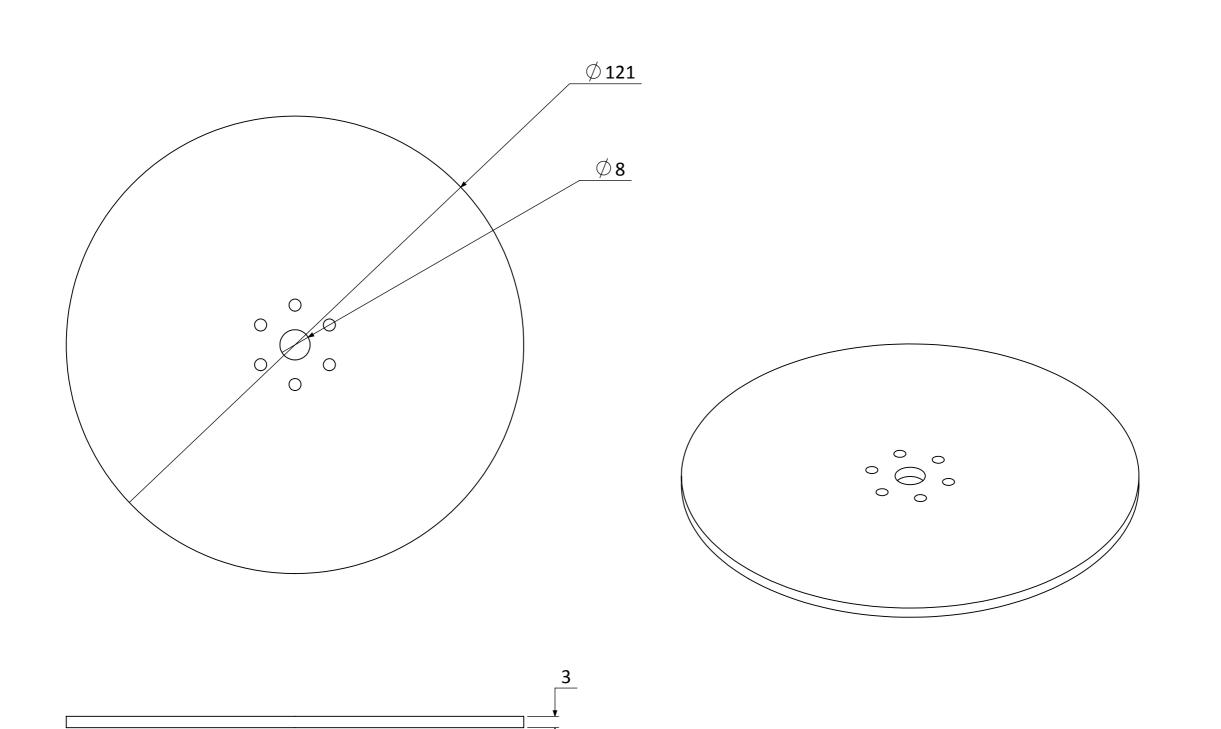
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project
PTB - Pacer Turbine

part | assembly PCB Rotor

quantity (per unit)

1

materials
12 Layer PCB

finish

notes
Dimensions Informational Only
Parts should be produced by
CNC from CAD Models.

drawn by MH

19/04/2011

sheet 16 of 18

scale 1:1 @ A3 ALL DIMENSIONS ARE IN mm

drawing
012-PTB-PACER
CAD file
PCB

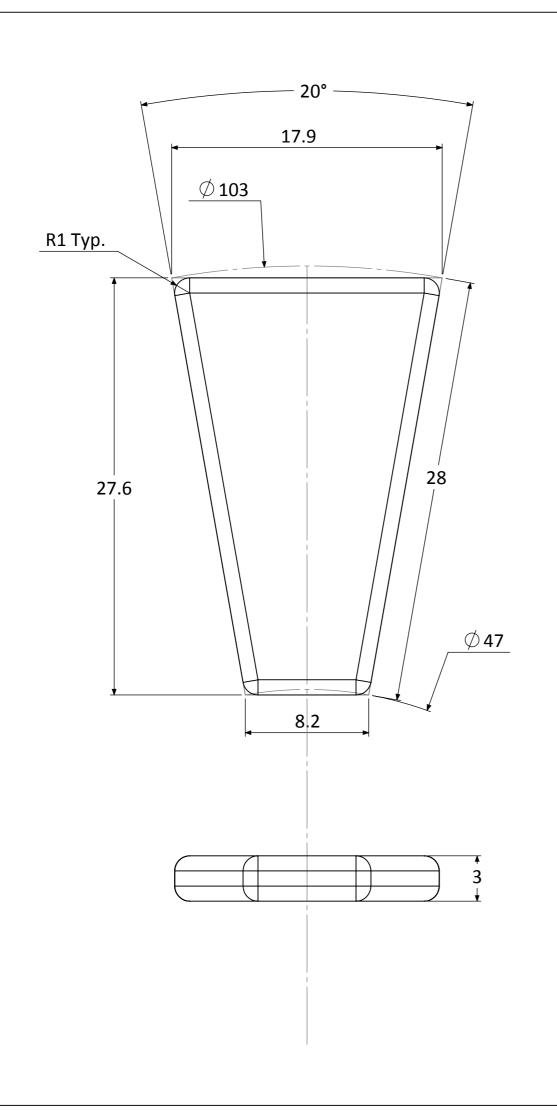
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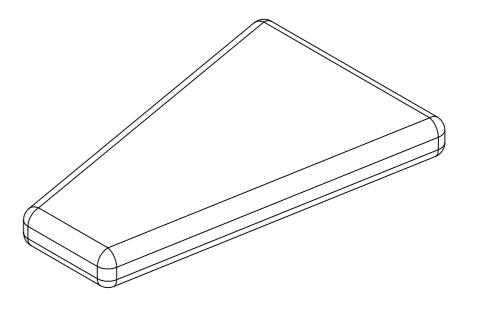
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project
PTB - Pacer Turbine

part | assembly Magnet

quantity (per unit) **24** 

materials
NdFeB-N42 NickelPlated

finish

Dimensions Informational Only Parts should be produced by CNC from CAD Models.

drawn by MH

19/04/2011

sheet 17 of 18

4:1 @ A3

ALL DIMENSIONS ARE IN mm

drawing
013-PTB-PACER
CAD file
Magnet\_NdFeB-N42NickelPlated

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