Plans for a Simple Oscillating Steam Engine

A steam engine designed as a first project for interested machinists. Plans are in metric and for step-by-step build instructions please visit:

www.steves-workshop.co.uk/steammodels/simpleoscil/simpleoscil.htm

Please submit your completed build to the online gallery.
http://www.steves-workshop.co.uk/steammodels/simpleoscil/others/othersengines.htm
Help and support available at www.steves-workshop.co.uk
TITLE : SIMPLE OSCILLATING STEAM ENGINE
COMPONENT : BASE
QUANTITY : 1
MATERIAL : STEEL
TITLE: SIMPLE OSCILLATING STEAM ENGINE

COMPONENT: AXLE

QUANTITY: 1

MATERIAL: SILVER STEEL
TITLE: SIMPLE OSCILLATING STEAM ENGINE

COMPONENT: ENGINE FRAME

QUANTITY: 1 OF EACH

MATERIAL: BRASS
TITLE: SIMPLE OSCILLATING STEAM ENGINE

COMPONENT: CYLINDER

QUANTITY: 1

MATERIAL: BRASS
<table>
<thead>
<tr>
<th>TITLE</th>
<th>SIMPLE OSCILLATING STEAM ENGINE</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPONENT</td>
<td>CYLINDER END CAP</td>
</tr>
<tr>
<td>QUANTITY</td>
<td>1</td>
</tr>
<tr>
<td>MATERIAL</td>
<td>BRASS</td>
</tr>
</tbody>
</table>

Dimensions:
- \( \phi 20.00 \)
- \( \phi 1.80 \)
- 2.00
- 1.00
- 12.00
TITLE: SIMPLE OSCILLATING STEAM ENGINE
COMPONENT: CRANK & CRANK PIN
QUANTITY: 1 OF EACH
MATERIAL: BMS CRANK & SILVER STEEL PIN
<table>
<thead>
<tr>
<th>TITLE</th>
<th>SIMPLE OSCILLATING STEAM ENGINE</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPONENT</td>
<td>MAIN BEARING</td>
</tr>
<tr>
<td>QUANTITY</td>
<td>1</td>
</tr>
<tr>
<td>MATERIAL</td>
<td>BRASS OR BRONZE</td>
</tr>
</tbody>
</table>
THREAD 5BA

THREAD TO MATCH NUT

THREAD TO MATCH PIVOT

2.00
10.00
27.00

4.00
6.00

φ 4.00
φ 13.00

TITLE: SIMPLE OSCILLATING STEAM ENGINE
COMPONENT: CYLINDER PIVOT AND NUT
QUANTITY: 1 OF EACH
MATERIAL: BMS PIVOT, BRASS NUT
TITLE: SIMPLE OSCILLATING STEAM ENGINE
COMPONENT: PISTON CON-ROD ASSEMBLY
QUANTITY: 1
MATERIAL: BRASS
TITLE: SIMPLE OSCILLATING STEAM ENGINE

COMPONENT: FLYWHEEL

QUANTITY: 1

MATERIAL: BRIGHT MILD STEEL