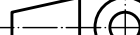



Break Sharp Edges: 0,1 mm

| | | | | | | |
|------------------------|------|-------------|-----------|------------|----------------------|---|
| | | | | | | |
| Revision | Date | Description | | | | |
| Engineered by: | | | Name: | Date: | Scale: 2/1 |  |
| C. Woodson | | Designer: | Galba, J. | 18/12/2010 | SheetSize: A2 | |
| | | Approved: | Galba, J. | 18/12/2010 | | |
| Project: P0003 | | | | | Material: Cast Iron | |
| Miniature Steam Engine | | | | | | |
| | | | | | Total Mass: 0,256 kg | |

| | | |
|---|--------|---|
| | Title: | Vertical Steam Engine with Reverse Gear (anno 1830) |
| 1 | | Cylinder |
| 2 | | 000.007 |
| 3 | | |

| | | |
|---|--|--|
|  | Drawingnumber: P0003 - 000.007 | Sheet: 0001 |
| | Design State: Released | Drawing made with Autodesk Inventor Revisions only permitted by CAD |

| | | | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|-----|------|-----|-----|-----|-----|-----|-----|
| Corresponding symbols | | | | | | | | | | | ▽ | ▼ | ▽▽ | ▼▼ | ▽▽▽ | ▼▼▼ | |
| Roughness (Classes (NBN 88-02)) (ISO 1302) | | | | | | | | | | N11 | N10 | N9 | N8 | N7 | N6 | N5 | N4 |
| Roughness Value "Ra" in µm (NBN 88-02) (ISO 1302) | | | | | | | | | | 25 | 12,5 | 6,3 | 3,2 | 1,6 | 0,8 | 0,4 | 0,2 |

Allowable deviations for dimensions without tolerance indication (machined surfaces)

| For measurements (deviations in mm) | | | | | | | | | | Fillets and chamfers | | | | | Angles (in ° and ') | | | | |
|---------------------------------------|------------------|----------|----------|-----------|------------|------------|-------------|-------------|------------------|----------------------|----------|-----------|------------|----------------------------|-----------------------|-----------|------------|------------|--|
| Accuracy class (ISO 2768:1) | Dimensions in mm | | | | | | | | Dimensions in mm | | | | | Length of the shortest leg | | | | | |
| | 0,5 to | >3 to | >6 to | >30 to | >120 to | >400 to | >1000 to | >2000 to | 0,5 to | >3 to | >6 to | >30 to | >120 to | to 10 | >10 to | >50 to | >120 to | >400 to | |
| | ±0,05 | ±0,1 | ±0,15 | ±0,2 | ±0,3 | ±0,5 | ±0,8 | ±1,2 | ±0,2 | ±0,5 | ±1 | ±2 | ±4 | ±1° | ±30' | ±20' | ±10' | ±4' | |
| f Fine | ±0,05 | ±0,1 | ±0,15 | ±0,2 | ±0,3 | ±0,5 | ±0,8 | ±1,2 | ±0,2 | ±0,5 | ±1 | ±2 | ±4 | ±1° | ±30' | ±20' | ±10' | ±4' | |
| m Medium | ±0,1 | ±0,1 | ±0,2 | ±0,3 | ±0,5 | ±0,8 | ±1,2 | ±2 | ±0,2 | ±0,5 | ±1 | ±2 | ±4 | ±1° | ±30' | ±20' | ±10' | ±4' | |
| c Rough | ±0,2 | ±0,3 | ±0,5 | ±0,8 | ±1,2 | ±2 | ±3 | ±4 | ±0,4 | ±1 | ±2 | ±4 | ±8 | ±1°30' | ±1° | ±30' | ±15' | ±4' | |
| v Very Rough | ±0,5 | ±1 | ±1,5 | ±2,5 | ±4 | ±6 | ±8 | ±12 | ±0,4 | ±1 | ±2 | ±4 | ±8 | ±1°30' | ±1° | ±30' | ±15' | ±4' | |

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