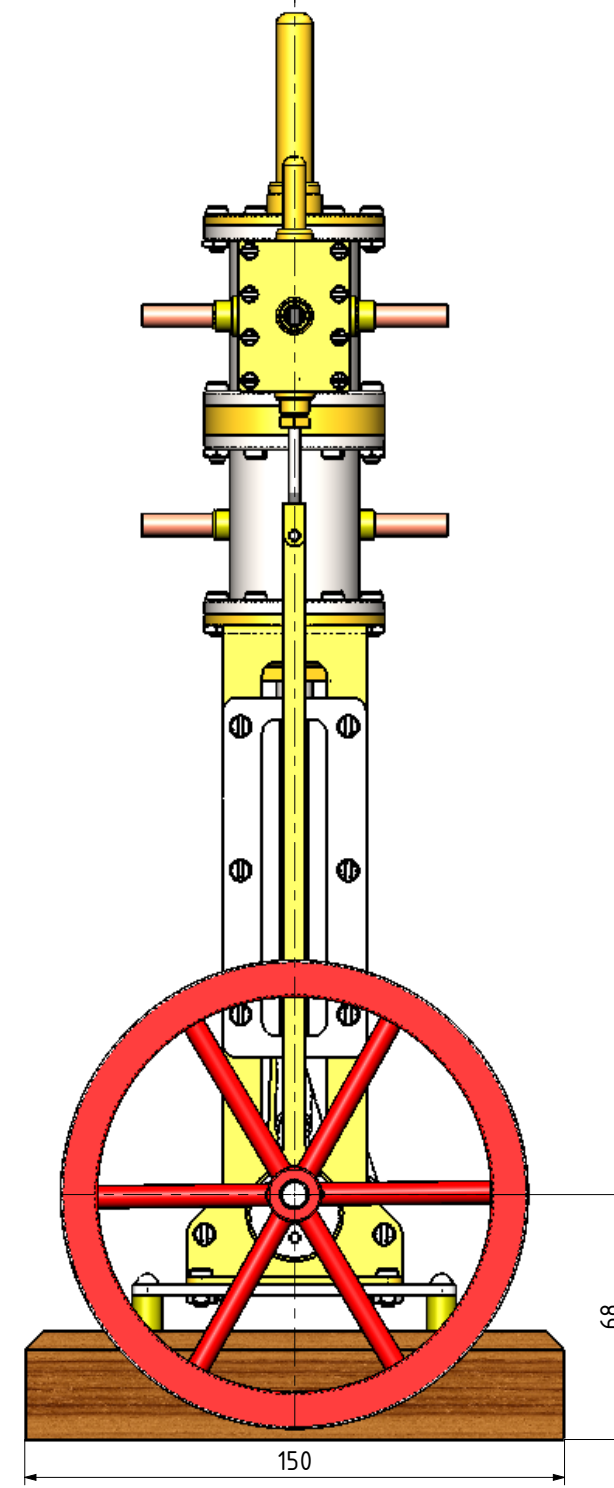
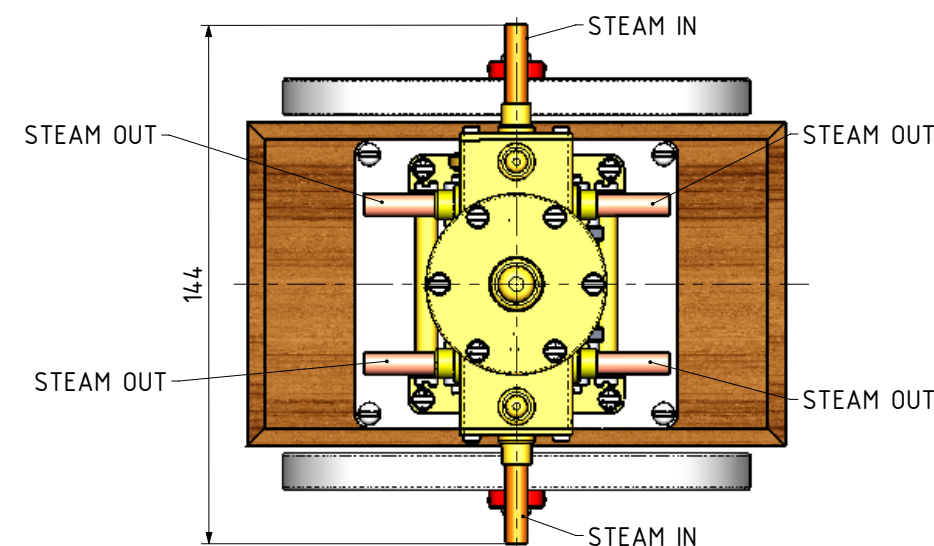
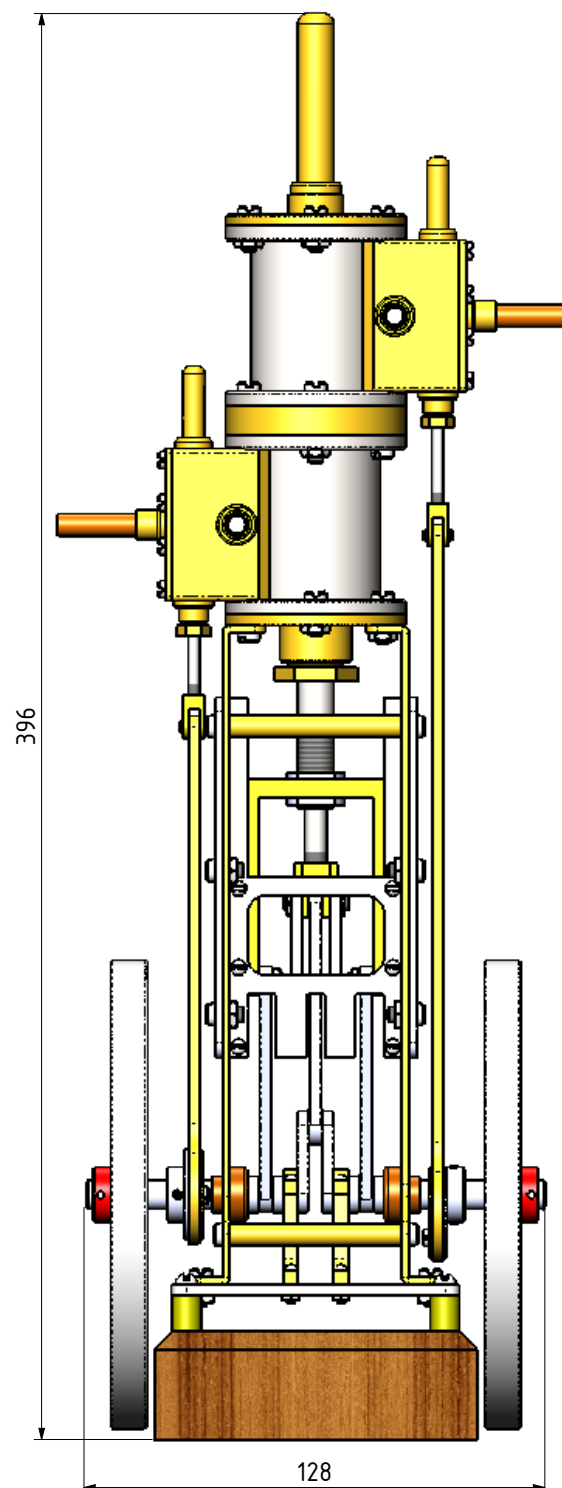
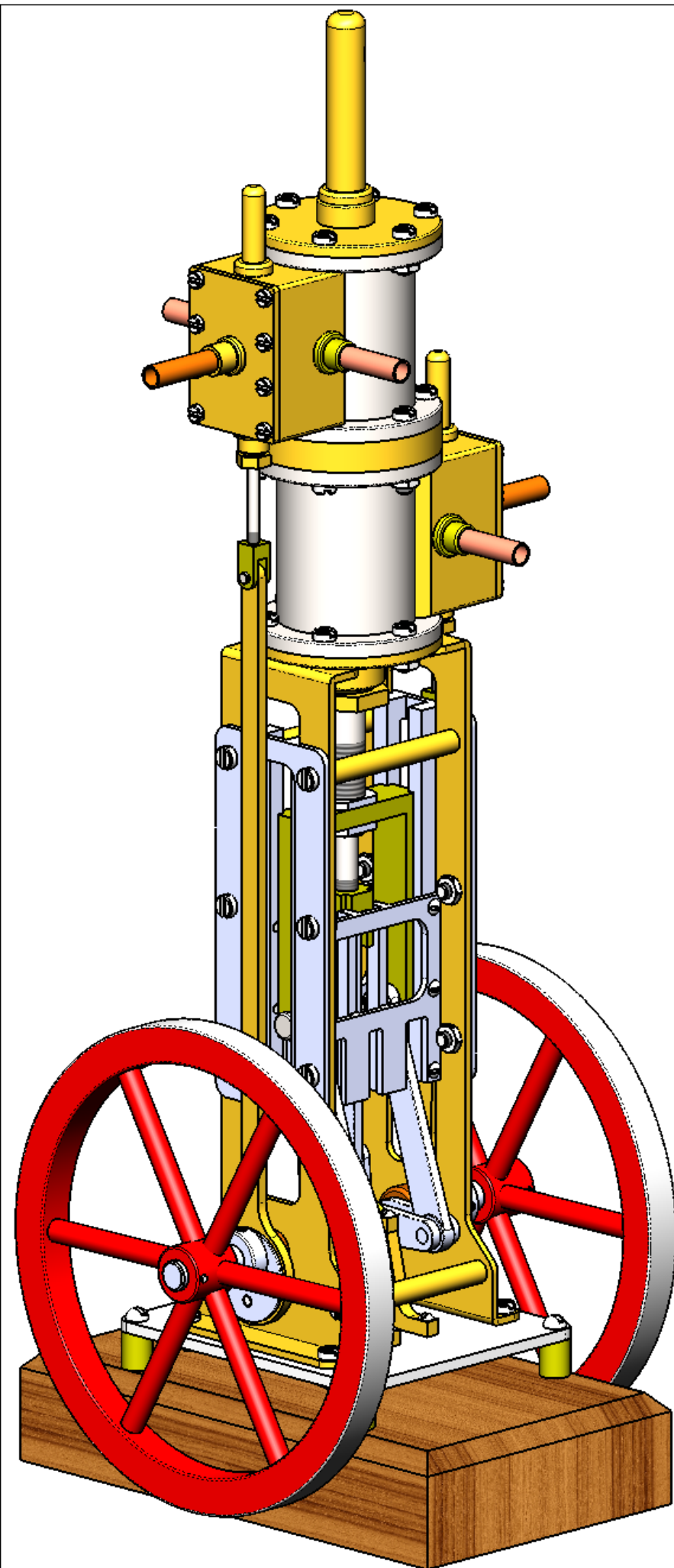




| QTY. | PART NUMBER                               |
|------|-------------------------------------------|
| 1    | EXSTSE-01-WOODEN BASE                     |
| 1    | EXSTSE-02-BASE PLATE                      |
| 2    | EXSTSE-03-CYLINDER SUPPORTS               |
| 2    | EXSTSE-04-CYLINDER                        |
| 1    | EXSTSE-05A-CYLINDER TOP COVER             |
| 1    | EXSTSE-05B-PISTON ROD STEEPLE             |
| 2    | EXSTSE-06-PORT BLOCK                      |
| 1    | EXSTSE-07-CYLINDER MIDDLE COVER           |
| 1    | EXSTSE-08-CYLINDER BOTTOM COVER           |
| 2    | EXSTSE-09-VALE ROD DOME                   |
| 2    | EXSTSE-10A-CRANK SHAFT PART-1             |
| 5    | EXSTSE-10B-CRANK SHAFT PART-2             |
| 6    | EXSTSE-10C-CRANK SHAFT PART-3             |
| 1    | EXSTSE-11-BOTTOM COVER PISTON SHAFT GLAND |
| 1    | EXSTSE-12-TOP PISTON ROD                  |
| 1    | EXSTSE-13-TOP PISTON                      |
| 2    | EXSTSE-14-TOP PISTON NUT                  |
| 3    | EXSTSE-15-CON ROD                         |
| 1    | EXSTSE-16-BOTTM PISTON ROD                |
| 1    | EXSTSE-17-BOTTOM PISTON                   |
| 4    | EXSTSE-18-BOTTOM PISTON NUT               |
| 2    | EXSTSE-19-BOTTOM PISTON CROSSHEAD GUIDE   |
| 4    | EXSTSE-20-CYLINDER SUPPORT SPACER         |
| 2    | EXSTSE-21-TOP PISTON CROSSHEAD GUIDE      |
| 2    | EXSTSE-22-CENTER BEARING                  |
| 2    | EXSTSE-23B-VALVE                          |
| 2    | EXSTSE-23A-VALVE ROD                      |
| 2    | EXSTSE-24-VALVE NUT                       |
| 2    | EXSTSE-25-VALVE ROD GLAND                 |
| 2    | EXSTSE-26-ECCENTRIC HOUSING               |
| 1    | EXSTSE-27-ECCENTRIC STRAP TOP VALVE       |
| 1    | EXSTSE-28-ECCENTRIC STRAP BOTTOM VALVE    |
| 2    | EXSTSE-29-VALVE CHEST COVER               |
| 2    | EXSTSE-30-FLYWHEEL                        |
| 4    | EXSTSE-31-EXHAUST PIPE                    |
| 4    | EXSTSE-4x20-WOOD SCREW                    |
| 4    | EXSTSE-M2.5 NUT                           |
| 4    | EXSTSE-M2.5x4 GRUB SCREW                  |
| 12   | EXSTSE-M2.5x7 R-HEAD SCREW                |
| 8    | EXSTSE-M2.5x9 R-HEAD SCREW                |
| 2    | EXSTSE-M3x5 CYLINDERHEAD SCREW            |
| 16   | EXSTSE-M3x8 CYLINDERHEAD SCREW            |
| 26   | EXSTSE-M4 NUT                             |
| 6    | EXSTSE-M4x10 CYLINDERHEAD SCREW           |
| 10   | EXSTSE-M4x12 CYLINDERHEAD SCREW           |
| 4    | EXSTSE-M4x15 CYLINDERHEAD SCREW           |
| 2    | EXSTSE-M4x20 CYLINDERHEAD SCREW           |
| 4    | EXSTSE-M4x25 CYLINDERHEAD SCREW           |
| 12   | EXSTSE-M4x8 CYLINDERHEAD SCREW            |

TITLE  
EXPERIMENTAL STEAM "STEEPLE" STEAM ENGINE

DRAWING CONTENTS  
GENERAL ARRANGEMENT, ISOMETRIC VIEW AND  
BILL OF MATERIALS

PROJECT No  
JDW DRAUGHTING SERVICES  
J.A.M. DE WAAL, 12 BRIGHTWELL STREET PAKAPURA 2110,  
NEW ZEALAND. PHONE: 0064 09 2988815. MOB: 0211791000  
E-MAIL: dewaal@xtra.co.nz.

PROJECTION  
MODEL SCALE: 1:1  
DWG SCALE: NTS @ A3 OR AS SHOWN  
SHEET: 01 OF 03  
DATE: AUGUST 2012  
A3 EXSTSE-01