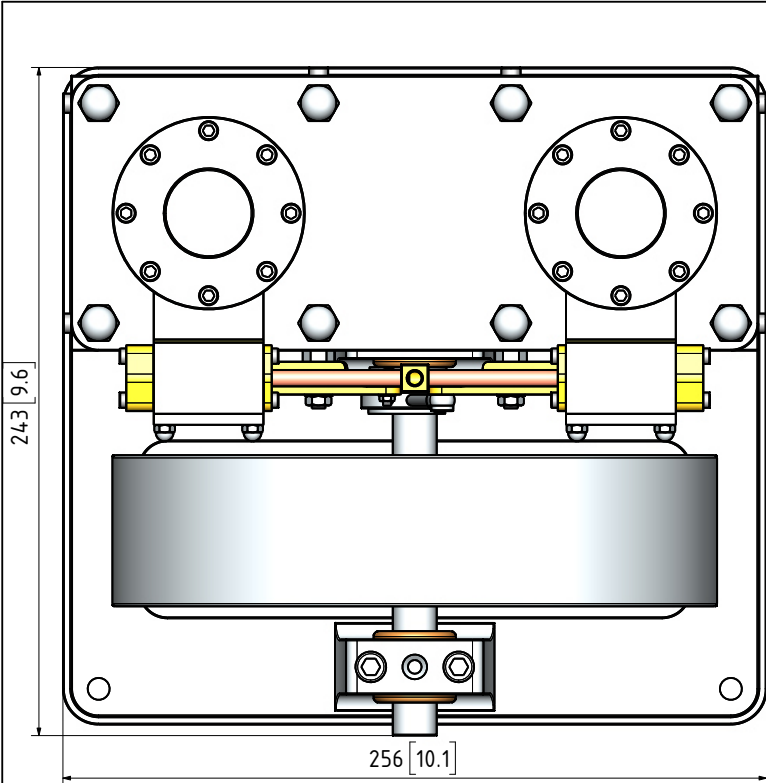
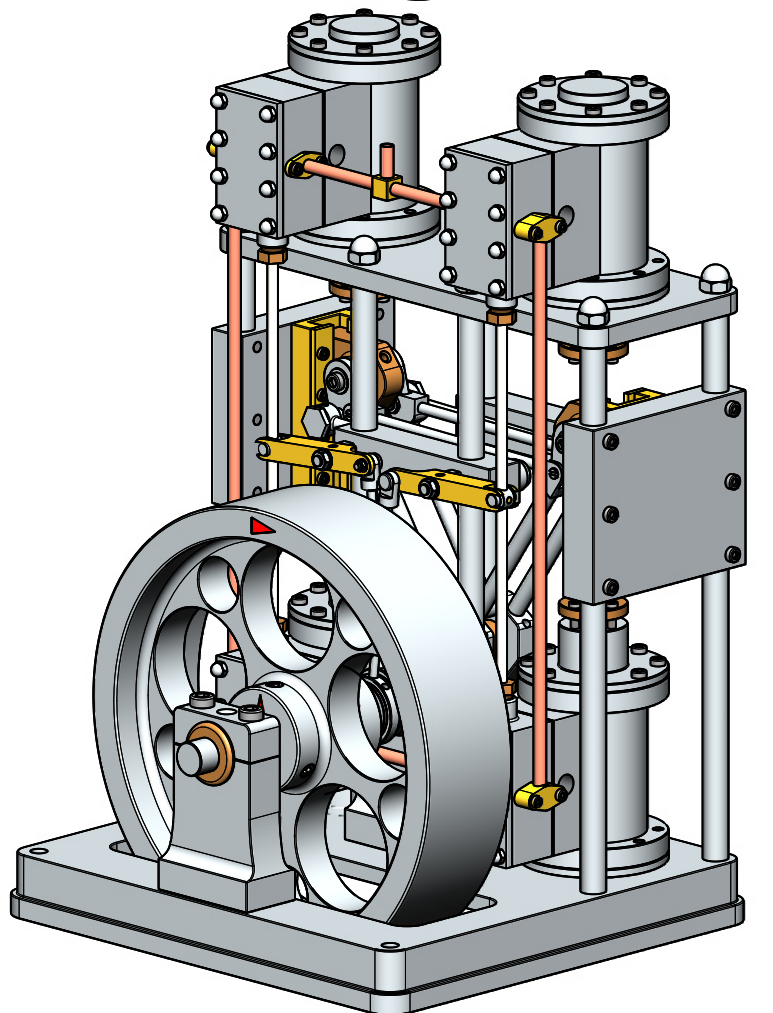
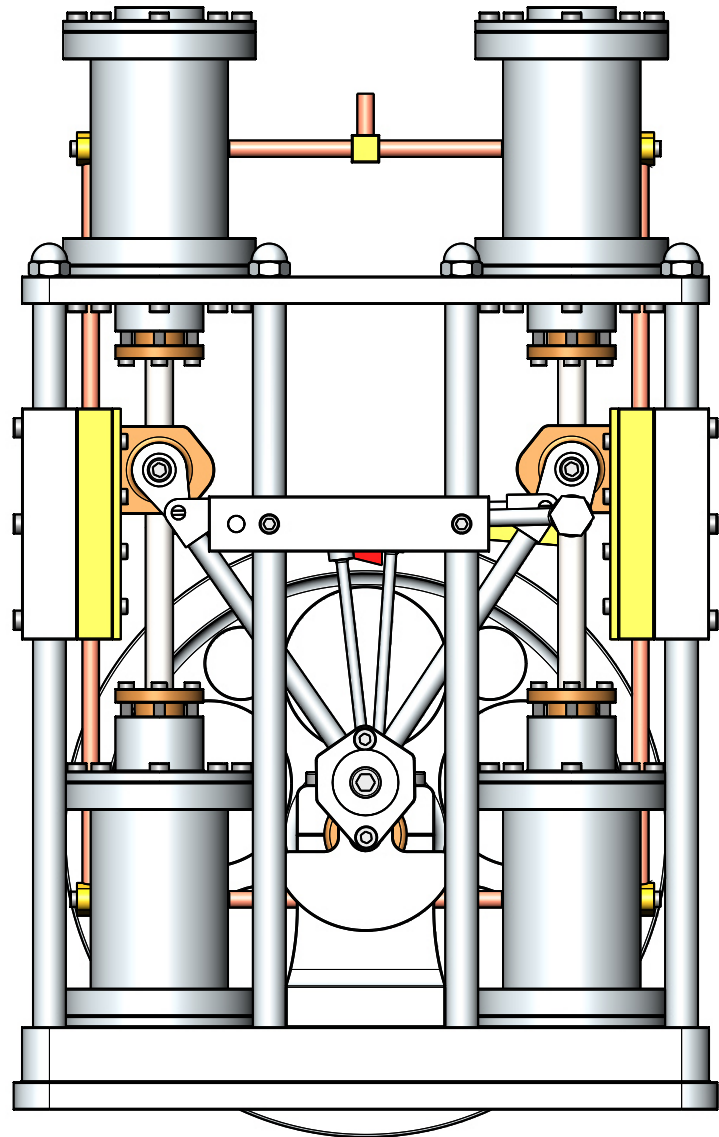
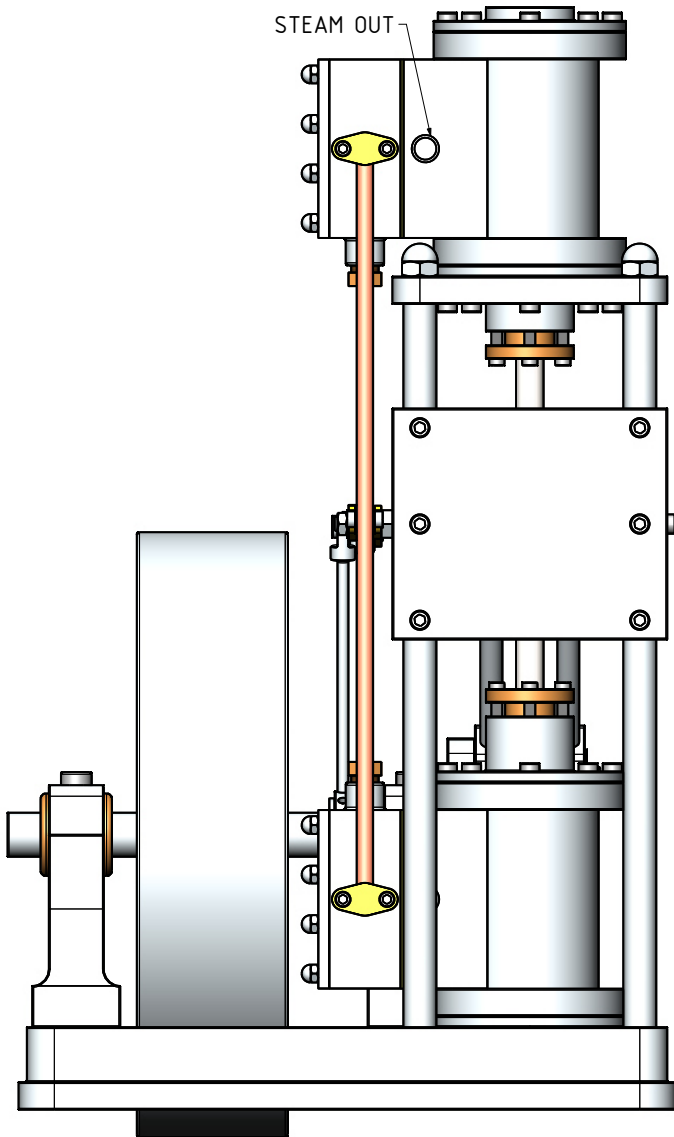
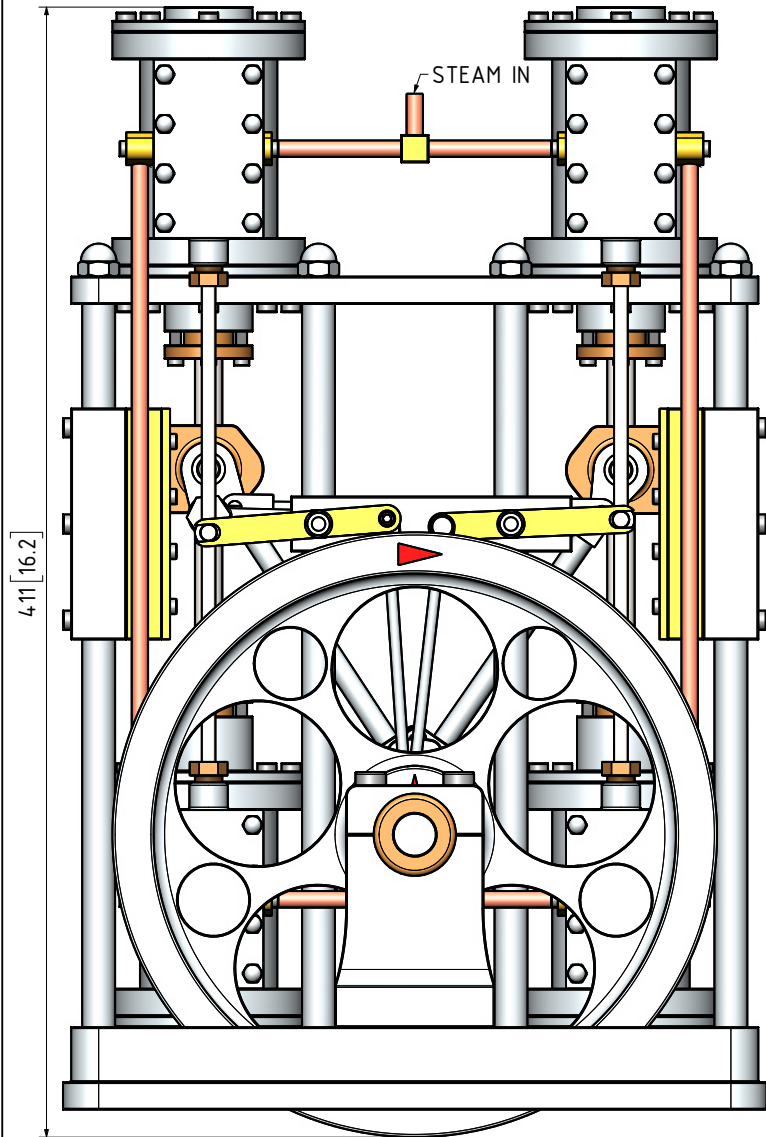
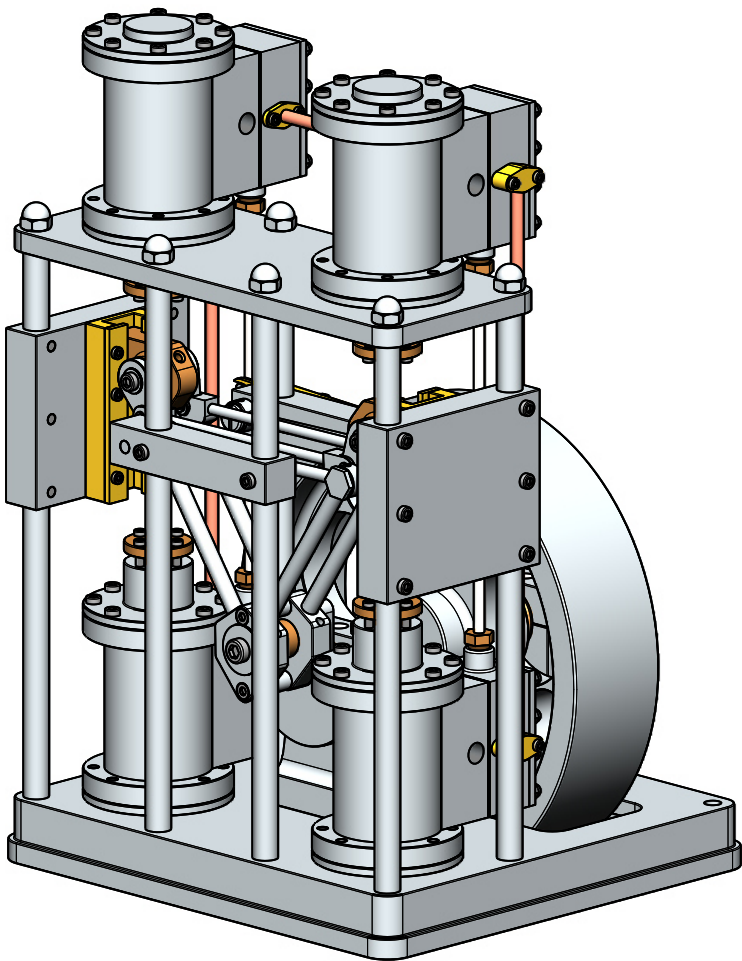




QTY.	PART NUMBER
1	09D-20-00-1-01-BASE
4	09D-20-00-1-02-PLATFORM PILLAR
4	09D-20-00-1-02-PLATFORM PILLAR
4	09D-20-00-1-03-CYLINDER COVER-1
4	09D-20-00-1-04-CYLINDER COVER-2
4	09D-20-00-1-05-CYLINDER
1	09D-20-00-1-06-UPPER CYLINDER PLATFORM
2	09D-20-00-1-07-CROSSHEAD GUIDE
2	09D-20-00-1-08-CRSANKSHAFT BEARING
1	09D-20-00-1-09-RESTRAINING SHAFT
1	09D-20-00-1-09-RESTRAINING SHAFT
1	09D-20-00-1-10-STEAM SUPPLY PIPE-1
1	09D-20-00-1-11-STEAM SUPPLY PIPE-2
2	09D-20-00-1-12-STEAM SUPPLY PIPE-3
2	09D-20-00-2-01-PISTON+ROD+CROSSHEAD
1	09D-20-00-2-02-CRANKSHAFT+FLYWHEEL
1	09D-20-00-2-03-LINK SHAFT TYPE-1
1	09D-20-00-2-04-LINK SHAFT TYPE-2
1	09D-20-00-2-05-TRIANGULAR CON-ROD
2	09D-20-00-2-06-RETAINING ROD
1	09D-20-00-2-07-ECCENTRIC
1	09D-20-00-2-07-ECCENTRIC
2	09D-20-00-2-08-SLIDE VALVE
2	09D-20-00-2-09-VALVE ROCKER ARM
2	09D-20-00-2-10-ECCENTRIC STRAP

QTY.	PART NUMBER
2	09D-20-00-M3 NUT
2	09D-20-00-M3 WASHER
4	09D-20-00-M3x6 A-K C-SINK SCREW
2	09D-20-00-M3x7 A-K GRUB SCREW
32	09D-20-00-M4 DOME NUT
8	09D-20-00-M4x10 A-K CYL HEAD SCREW
40	09D-20-00-M4x18 A-K CYL HEAD SCREW
32	09D-20-00-M4x46 THREADED ROD
4	09D-20-00-M5 NUT-THIN
2	09D-20-00-M5 NUT
2	09D-20-00-M5 WASHER
32	09D-20-00-M5x14 A-K CYL HEAD SCREW
4	09D-20-00-M5x18 A-K C-SINK SCREW
14	09D-20-00-M5x20 A-K CYL HEAD SCREW
16	09D-20-00-M5x22 A-K CYL HEAD SCREW
16	09D-20-00-M5x24 A-K CYL HEAD SCREW
2	09D-20-00-M6 NUT
4	09D-20-00-M6 WASHER
4	09D-20-00-M6x14 A-K CYL HEAD SCREW
8	09D-20-00-M8 DOME NUT
8	09D-20-00-M8 NUT
1	09D-20-00-M8 WASHER SPECIAL
1	09D-20-00-M8x10 A-K CYL HEAD SCREW
3	09D-20-00-M8x16 A-K GRUB SCREW
8	09D-20-00-M8x32 A-K CYL HEAD SCREW



NOTES: THE ORIGINAL DESIGN/DRAWINGS OF A GAS ENGINE WERE PUBLISHED ON THE INTERNET. ("MODELENGINEERING WEBSITE" OWNED/OPERATED BY DAVID CARPENTER.) I HAVE CONVERTED THIS GAS ENGINE TO A STEAM ENGINE.

TITLE
AN EXPERIMENTAL 4 CYL. VERTICAL STEAM
ENGINE CONVERTED FROM A GAS ENGINE

DRAWING CONTENTS
GENERAL ARRANGEMENT, ISOMETRIC
VIEWS, BILL OF MATERIALS

PROJECT No 09D-20-00
JDW DRAUGHTING SERVICES
J.A.M. DE WAAL, 12 BRIGHTWELL STREET PAKAPURA
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0211791000 E-MAIL: dewaal@xtra.co.nz.

PROJECTION DATE JUNE 2020	JDWDS Copyright © J.A.M. DE WAAL PAKAPURA NZ	MODEL SCALE: APPROX 1:17.5 DWG SCALE: NTS @A3 OR AS SHOWN
SHEET: 01 OF 04	A3	No: 09D-20-00-SHT01

DRAWINGS ARE FOR PERSONAL USE ONLY NOT FOR COMMERCIAL PURPOSES