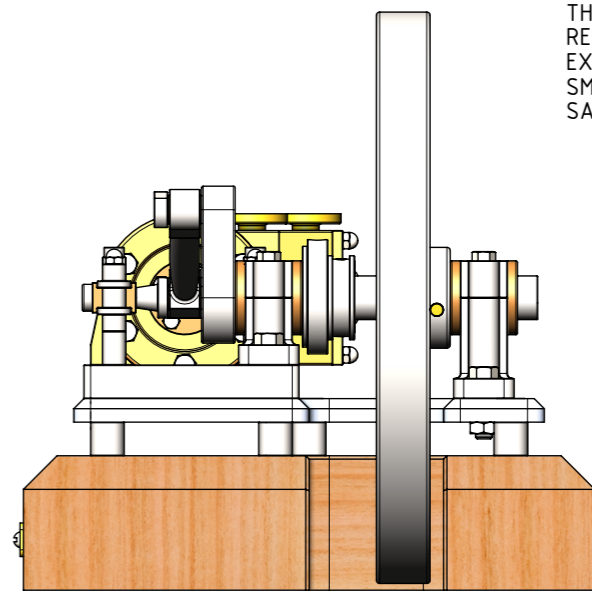
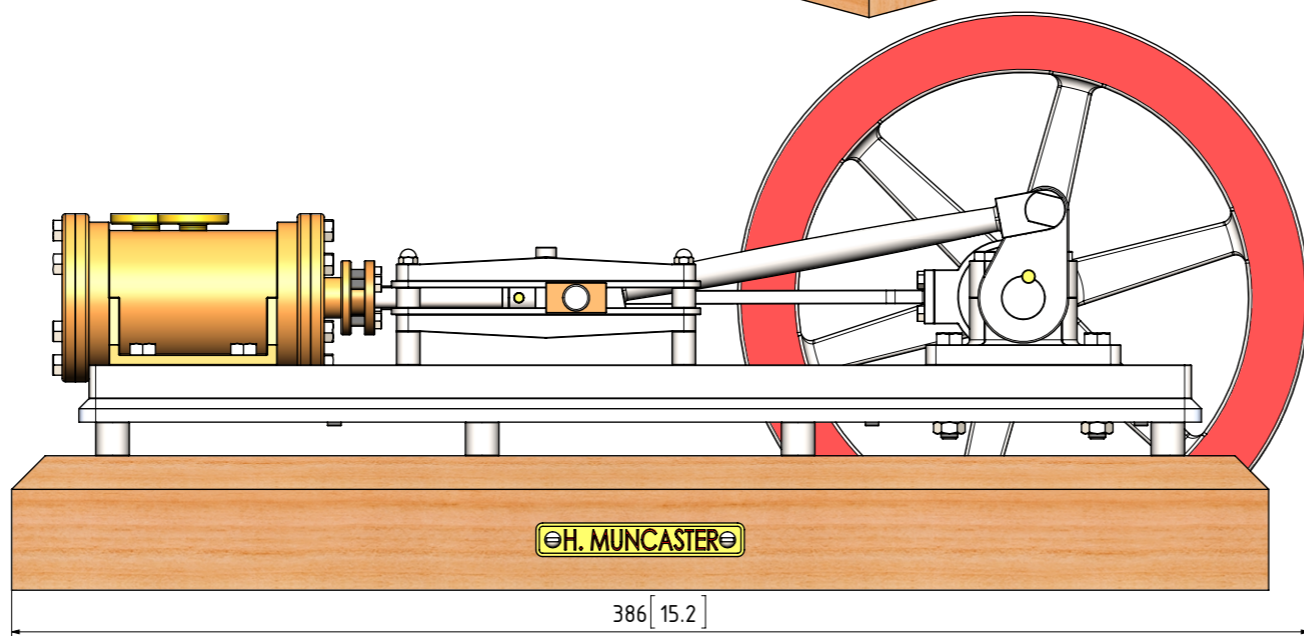
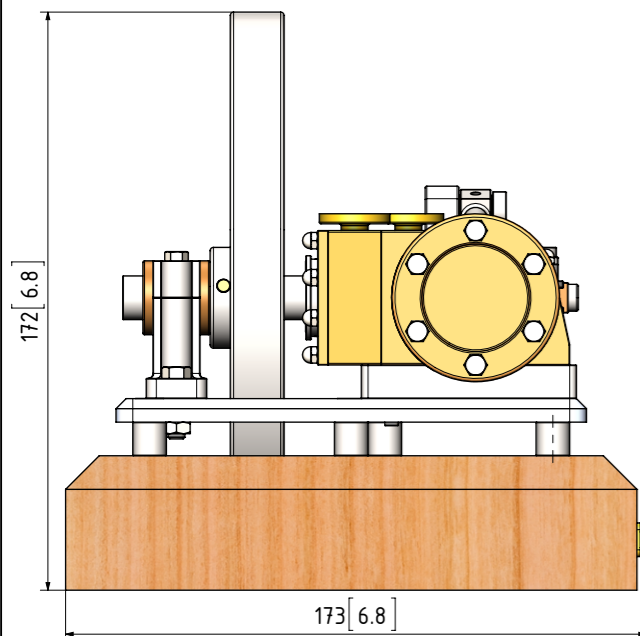


OTHER ABBREVIATIONS
 DP = DEEP
 DAA= DRILL AFTER ASSEMBLY
 D&TAA= DRILL AND TAP AFTER ASSEMBLY
 CF = CLOSE FIT (SIZE FOR SIZE)
 PF = PRESS FIT
 PFAA= PRESS FIT AFTER ASSEMBLY
 PCD = PITCH CIRCLE DIAMETER
 RM = REAM
 HEX = HEXACON, 6SIDED
 CP = COMPRESSED
 KNL = KNURLED
 CSK = COUNTERSINK
 PL = PLACES
 DWL= DOWEL
 (T)HESOP=(TAPPED)HOLES EQUALLY SPACED ON PCD
 (T)HESOC=(TAPPED)HOLES EQUALLY SPACED ON CIRCUMFERENCE
 [SA-xxx]= SUB ASSEMBLY-xxx

MATERIAL ABBREVIATIONS:
 ALU = ALUMINIUM
 BRS = BRASS
 BRZ = BRONZE OR GUNMETAL (BRZ/GM)
 PHBRZ= PHOSPHOR BRONZE
 CI = CAST IRON
 CU = COPPER
 GRA = GRAPHITE
 MS = MILD STEEL/BRIGHT MILD STEEL
 S/S = SILVER STEEL OR STAINLESS STEEL
 SPS = SPRING STEEL
 PEEK= POLYETHER ETHER KETONE
 SYN = SYNTHETIC MATERIAL SUCH AS VETON, NYLON, TEFLON OR RUBBER
 IN GENERAL SYNTHETIC MATERIALS SHOULD BE ABLE TO WITHSTAND THE HEAT AND PRESSURE(S) APPLIED TO THEM.
 nnn/nnn MEANS THAT EITHER MATERIAL CAN BE USED

QTY.	PART NUMBER
1	MUNCASTER3-1-01-WOODEN BASE
10	MUNCASTER3-1-02-BASE STAND PILLAR
1	MUNCASTER3-1-03-BASE STAND
1	MUNCASTER3-1-04-ENGINE BED PLATE
1	MUNCASTER3-1-05-OUTER LOWER BEARING BLOCK
1	MUNCASTER3-1-06-BEDPLATE LOWER BEARING BLOCK
2	MUNCASTER3-1-07-BEARING BLOCKS TOP
2	MUNCASTER3-1-08-BEARING BUSH
2	MUNCASTER3-1-09-CROSSHEAD GUIDE
2	MUNCASTER3-1-09-CROSSHEAD GUIDE
4	MUNCASTER3-1-10-CROSSHEAD LOWER PILLAR
4	MUNCASTER3-1-11-CROSSHEAD CENTER SPACER
1	MUNCASTER3-1-12-CYLINDER
1	MUNCASTER3-1-13-CYLINDER FRONT COVER
1	MUNCASTER3-1-14-CYLINDER REAR COVER
2	MUNCASTER3-1-15-STAM EXHAUST FLANGE
1	MUNCASTER3-1-16-VALVE CHEST
1	MUNCASTER3-1-17-VALVE CHEST COVER
1	MUNCASTER3-1-18-PISTON ROD GLAND
1	MUNCASTER3-1-19-VALVE ROD GLAND
1	MUNCASTER3-1-20-NAME PLATE
1	MUNCASTER3-2-01-CRANKSHAFT
1	MUNCASTER3-2-02-CRANK
1	MUNCASTER3-2-03-CRANK PIN
1	MUNCASTER3-2-04-FLYWHEEL
1	MUNCASTER3-2-05-ECCENTRIC SHEAVE
2	MUNCASTER3-2-06-CROSSHEAD SLIDE
1	MUNCASTER3-2-07-CROSSHEAD
1	MUNCASTER3-2-08-CROSSHEAD PIN
1	MUNCASTER3-2-09-PISTON+ROD
1	MUNCASTER3-2-10-CON-ROD
1	MUNCASTER3-2-11-SLIDE VALVE
1	MUNCASTER3-2-12-SLIDE VALVE NUT
1	MUNCASTER3-2-13-SLIDE VALVE SPINDLE YOKE
1	MUNCASTER3-2-14-SLIDE VALVE SPINDLE
1	MUNCASTER3-2-15-ECCENTRIC STRAP
1	MUNCASTER3-2-16-ECCETRIC STRAP ROD
1	MUNCASTER3-2-17-VALVE SPINDEL YOKE PIN
18	MUNCASTER3-M3 DOME NUT
2	MUNCASTER3-M3x5 GRUB SREW
6	MUNCASTER3-M3x10 HEX BOLT
2	MUNCASTER3-M3x10 ROUND HEAD WOOD SCREW
2	MUNCASTER3-M3x16 C-SINK SCREW
12	MUNCASTER3-M3x32 THREADED ROD
4	MUNCASTER3-M3x42 THREADED ROD
12	MUNCASTER3-M4x12 HEX BOLT
6	MUNCASTER3-M4x18 C-SINK SCREW
4	MUNCASTER3-M4x20 HEX BOLT
12	MUNCASTER3-M5 NUT
10	MUNCASTER3-M5 WASHER
4	MUNCASTER3-M5x12 HEX BOLT
2	MUNCASTER3-M5x16 HEX BOLT
2	MUNCASTER3-M5x18 HEX BOLT
10	MUNCASTER3-M5x40 C-SINK SCREW



THE OFF SET ANGLE OF THE ECCENTRIC IN RELATION TO THE CRANK AXIS TO BE EXPERIMENTALLY DETERMINED FOR THE SMOOTH RUNNING OF THE ENGINE AND SATISFACTION OF THE BUILDER

NOTES: THE ORIGINAL DRAWINGS WERE PUBLISHED IN THE "MODEL ENGINEER" MAGAZINE OF MARCH 1957 UNDER THE HEADING OF "THE MUNCASTER STEAM-ENGINE MODELS."

TITLE
A SIMPLE HORIZONTAL MILL STEAM ENGINE WITH SLIDE VALVE BY H.MUNCASTER.

DRAWING CONTENTS
GENERAL ARRANGEMENT, BILL OF MATERIALS, NOTES, ISOMETRIC VIEW

PROJECT No 11-03-00
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PROJECTION
JDWDS
 DATE MARCH-2016
 SHEET: 01 OF 03
 MODEL SCALE: 1:1
 DWG SCALE: 1:1 @A3 OR AS SHOWN
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A3 No: MUNCASTER3-01