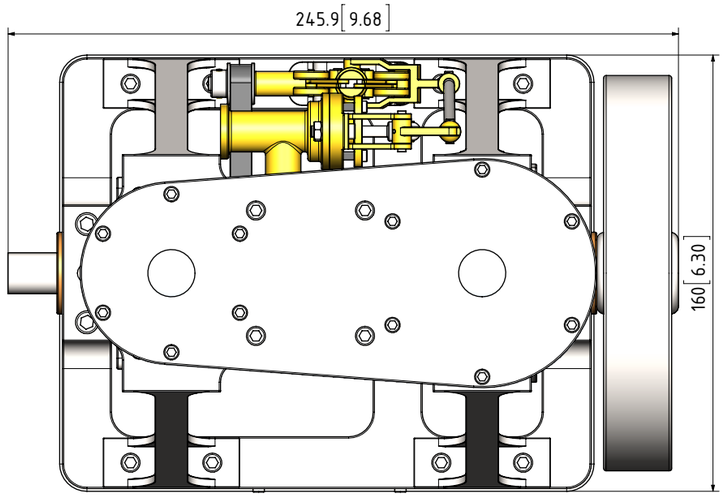
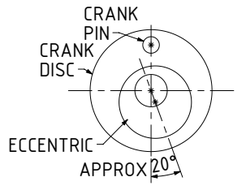


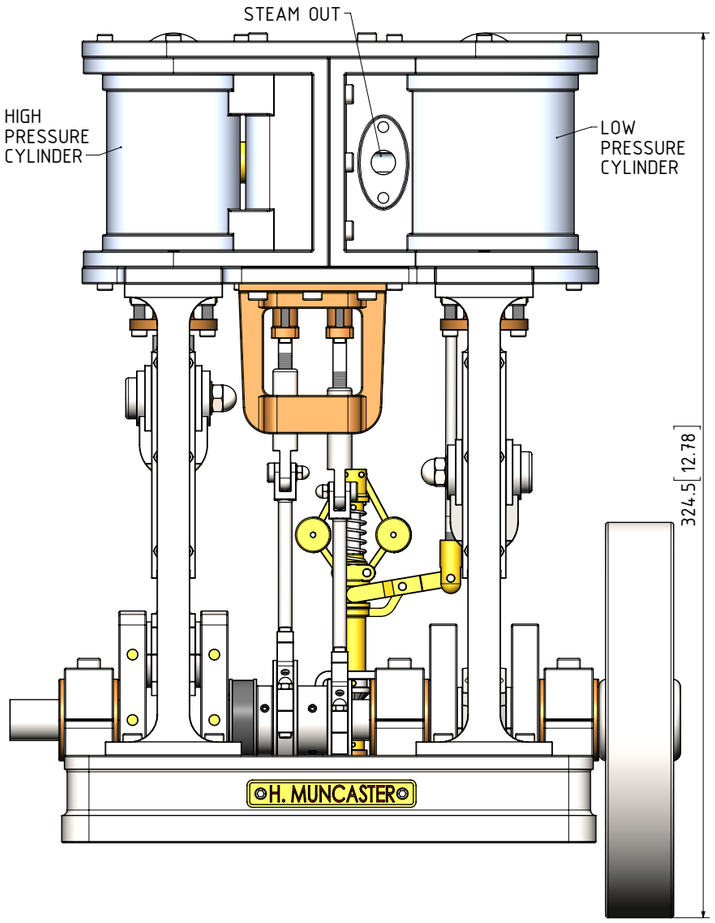
NOTES:
0. ALL DRAWINGS ARE IN METRIC MEASUREMENTS
1. ALL ENGINEERING PRACTICES SHALL BE APPLIED WITH REGARDS TO HOLE AND SHAFT TOLERANCES.
2. WHERE SCREWS OR BOLTS ARE USED THE CLEARANCE HOLES SHALL BE APPROXIMATELY 5% TO 8% LARGER THAN THE MATCHING TAPPED HOLE.
3. PREFERABLY ALL TAPPED HOLES AND MATCHING SCREWS AND/OR BOLTS TO BE METRIC FINE (MF)
4. MATERIALS SPECIFIED ON THE DRAWINGS ARE INDICATIVE ONLY. THE BUILDER CAN MAKE HIS/HER OWN MATERIAL CHOICE.
5. ALL CONNECTIONS/JOINTS WHICH HAVE STEAM PRESSURE APPLIED TO IT SHALL BE SILVER/HARD SOLDERED.
6. COMPRESSION SPRINGS ARE DRAWN IN COMPRESSED STATE (CP), UNCOMPRESSED STATE IS APPROX 40% TO 60% LONGER THEN COMPRESSED STATE.
7. WHERE PREFERRED SCREW OR RIVETED CONNECTIONS CAN BE OMITTED AND PARTS CAN BE BONDED TOGETHER BY USING EITHER HIGH STRENGTH GLUE, EPOXY RESIN, OR SOLDER.
8. PARTS WHICH ARE DIRECTLY EXPOSED TO STEAM AND/OR WATER SHOULD BE CONSTRUCTED USING NON-FERROUS OR NON CORROSIVE MATERIAL SUCH AS BRASS, BRONZE, GUNMETAL, STAINLESS STEEL, COPPER OR MONEL.
9. THE ORDER IN WHICH THE PARTS/COMPONENTS ARE MANUFACTURED AND THE MODEL IS ASSEMBLED IS ENTIRELY LEFT TO THE BUILDER/MODEL MAKER.
10. A COLOUR SCHEME FOR THIS PROJECT IS ENTIRELY LEFT UP TO THE MODEL MAKER.
11. THE MANNER IN WHICH THE PARTS/COMPONENTS ARE MANUFACTURED IS ENTIRELY LEFT UP TO THE BUILDER.
12. USE LOCTITE, ON SCREW OR PRESS FIT CONNECTIONS OR SURFACES, WERE DEEMED NECESSARY TO PREVENT PARTS FROM LOOSENING.
13. WASHER SHALL BE USED WHERE DEEMED NECESSARY.
XX. ERRORS AND/OR OMISSIONS MAY OCCUR IN THE DRAWINGS, DO NOT HESITATE TO CONTACT ME SO THAT THE ERRORS/OMISSIONS CAN BE RECTIFIED.

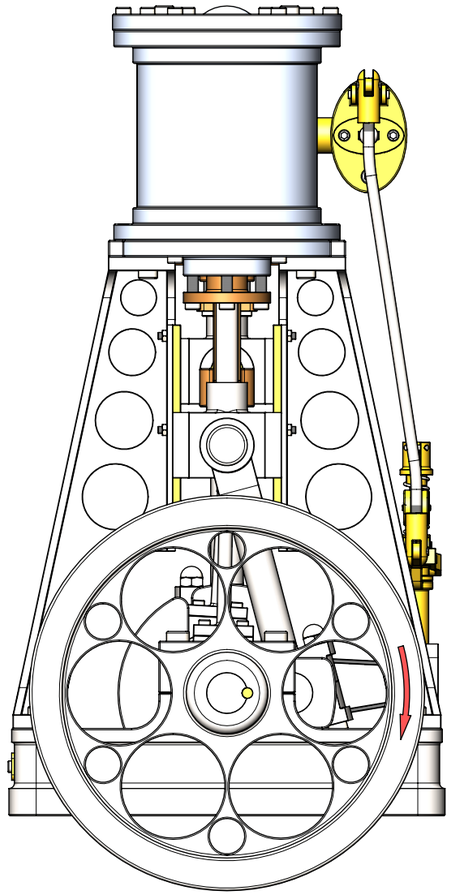
MATERIAL ABBREVIATIONS:
ALU = ALUMINIUM/HARD ALUMINIUM
BRS = BRASS
BRZ = BRONZE OR GUNMETAL (BRZ/GM)
CI = CAST IRON
CU = COPPER
GRA = GRAPHITE
MS = MILD STEEL/BRIGHT MILD STEEL
S/S = SILVER STEEL OR STAINLESS STEEL
SPS = SPRING STEEL
PEEK= POLYETHER ETHER KETONE
SYN = SYNTHETIC MATERIAL SUCH AS VETON,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

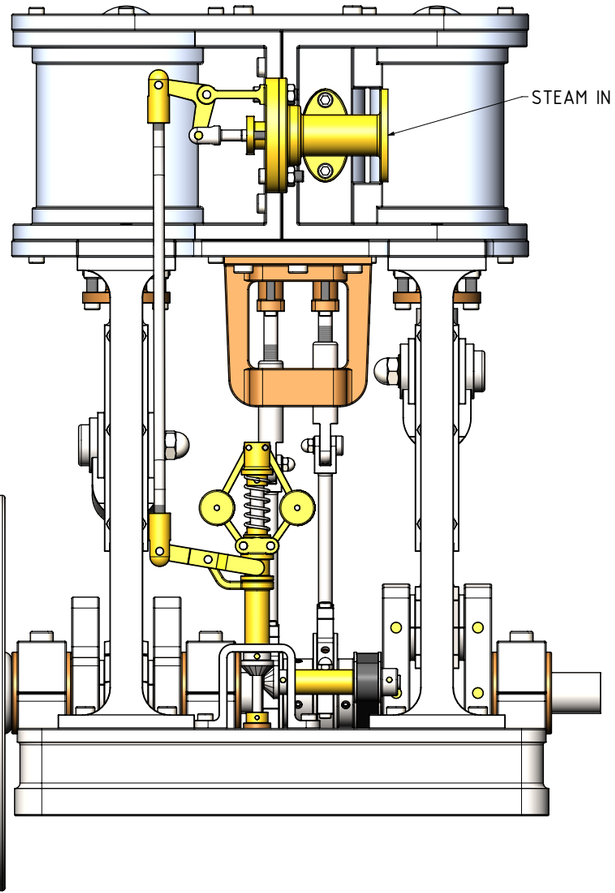
OTHER ABBREVIATIONS
DP = DEEP
DAA= DRILL AFTER ASSEMBLY
D&TAA= DRILL AND TAP AFTER ASSEMBLY
CF = CLOSE FIT (SIZE FOR SIZE)
PF = PRESS FIT
PFAA= PRESS FIT AFTER ASSEMBLY
PCD = PITCH CIRCLE DIAMETER
RM = REAM
HEX = HEXACON, 6SIDED
CP = COMPRESSED
KNL = KNURLED
CSK = COUNTERSINK
PL = PLACES
DWL= DOWEL
(T)HESOP=(TAPPED)HOLES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



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







QTY.	PART NUMBER
1	MUNCASTER6.2-1-01-BASE BED PLATE
3	MUNCASTER6.2-1-02-BEARING CAP
3	MUNCASTER6.2-1-03-MAIN BEARING
4	MUNCASTER6.2-1-04-SUPPORT COLUMN
1	MUNCASTER6.2-1-05-CYLINDER BOTTOM PLATFORM
2	MUNCASTER6.2-1-06-PISTON ROD SLIDE BEARING
2	MUNCASTER6.2-1-07-PISTON ROD SEAL
2	MUNCASTER6.2-1-08-PISTON ROD GLAND
1	MUNCASTER6.2-1-09-VALVE GUIDE BRACKET
2	MUNCASTER6.2-1-10-VALVE ROD SEAL
2	MUNCASTER6.2-1-11-VALVE ROD GLAND
1	MUNCASTER6.2-1-12-HIGH PRESSURE CYLINDER
1	MUNCASTER6.2-1-13-LOW PRESSURE CYLINDER
1	MUNCASTER6.2-1-14-CYLINDER TOP COVER
1	MUNCASTER6.2-1-15-GOVERNOR BASE MOUNTING BRACKET
1	MUNCASTER6.2-1-16-THROTTLE VALVE HOUSING
1	MUNCASTER6.2-1-17-THROTTLE VALVE HOUSING COVER
1	MUNCASTER6.2-1-18-NAME PLATE
1	MUNCASTER6.2-2-01A-CRANKSHAFT-PART-1
2	MUNCASTER6.2-2-01B-CRANKSHAFT-PART-2
1	MUNCASTER6.2-2-01C-CRANKSHAFT-PART-3
1	MUNCASTER6.2-2-01D-CRANKSHAFT-PART-4
4	MUNCASTER6.2-2-01E-CRANKSHAFT-PART-5
1	MUNCASTER6.2-2-02-FLYWHEEL
1	MUNCASTER6.2-2-03-ECCENTRIC SHEAVE
1	MUNCASTER6.2-2-04-HIGH PRESSURE PISTON+CROSSHEAD
2	MUNCASTER6.2-2-05-CON-ROD
1	MUNCASTER6.2-2-06-LOW PRESSURE PISTON+CROSSHEAD
1	MUNCASTER6.2-2-07-LOW PRESSURE SLIDE VALVE+SPINDLE
2	MUNCASTER6.2-2-08-ECCENTRIC STRAP
1	MUNCASTER6.2-2-09-HIGH PRESSURE SLIDE VALVE+SPINDLE
1	MUNCASTER6.2-2-10-THROTTLE VALVE
1	MUNCASTER6.2-2-11-THROTTLE VALVE CRANK
1	MUNCASTER6.2-2-12-CRANKSHAFT SPEED CONTROL PULLEY
1	MUNCASTER6.2-2-13-GOVERNOR DRIVE SPINDLE+PULLEY
1	MUNCASTER6.2-2-14-GOVERNOR DRIVEN SPINDLE
1	MUNCASTER6.2-2-15-GOVERNOR DRIVE BELT
1	MUNCASTER6.2-2-16-GOVERNOR SLIDING HOUSING
1	MUNCASTER6.2-2-17-GOVERNOR SPRING
2	MUNCASTER6.2-2-18-LOWER FLYWEIGHT ARM
2	MUNCASTER6.2-2-19-UPPER FLYWEIGHT ARM
2	MUNCASTER6.2-2-20-GOVERNOR FLY WEIGHT
1	MUNCASTER6.2-2-21-GOVERNOR YOKE AND CRANK
1	MUNCASTER6.2-2-22-GOVERNOR CONTROL ROD
2	MUNCASTER6.2-2-23-GOVERNOR CONTROL ROD END
24	MUNCASTER6.2-M2.5 NUT
24	MUNCASTER6.2-M2.5x8 A-K C-SINK SCREW
6	MUNCASTER6.2-M3 DOME NUT
2	MUNCASTER6.2-M3 WASHER
6	MUNCASTER6.2-M3x5 A-K GRUB SCREW
2	MUNCASTER6.2-M3x6 A-K CYL HEAD SCREW
6	MUNCASTER6.2-M3x10 A-K CYL HEAD SCREW
8	MUNCASTER6.2-M3x20 A-K CYL HEAD SCREW
2	MUNCASTER6.2-M4 NUT
4	MUNCASTER6.2-M4x12 A-K C-SINK SCREW
24	MUNCASTER6.2-M4x12 A-K CYL HEAD SCREW
2	MUNCASTER6.2-M4x14 A-K CYL HEAD SCREW
8	MUNCASTER6.2-M4x20 A-K CYL HEAD SCREW
4	MUNCASTER6.2-M5 DOME NUT
8	MUNCASTER6.2-M5x10 A-K CYL HEAD SCREW
10	MUNCASTER6.2-M5x12 A-K CYL HEAD SCREW
14	MUNCASTER6.2-M5x15 A-K CYL HEAD SCREW
4	MUNCASTER6.2-M5x35 A-K CYL HEAD SCREW
2	MUNCASTER6.2-M6 DOME NUT
2	MUNCASTER6.2-M6 WASHER
6	MUNCASTER6.2-M6x30 A-K CYL HEAD SCREW

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

TITLE
2 CYLINDER VERTICAL COMPOUND STM ENG. WITH SPEED CONTROL BY H.MUNCASTER.

DRAWING CONTENTS
GENERAL ARRANGEMENT, B.O.M., NOTES, ISOMETRIC VIEW

PROJECT No 11-06-02

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PROJECTION JDWDS
DATE JUNE-2017
SHEET: 01 OF 05

MODEL SCALE: 1:1
DWG SCALE: 1:1 @A3 OR AS SHOWN

A3 No:MUNCASTER6.2-01