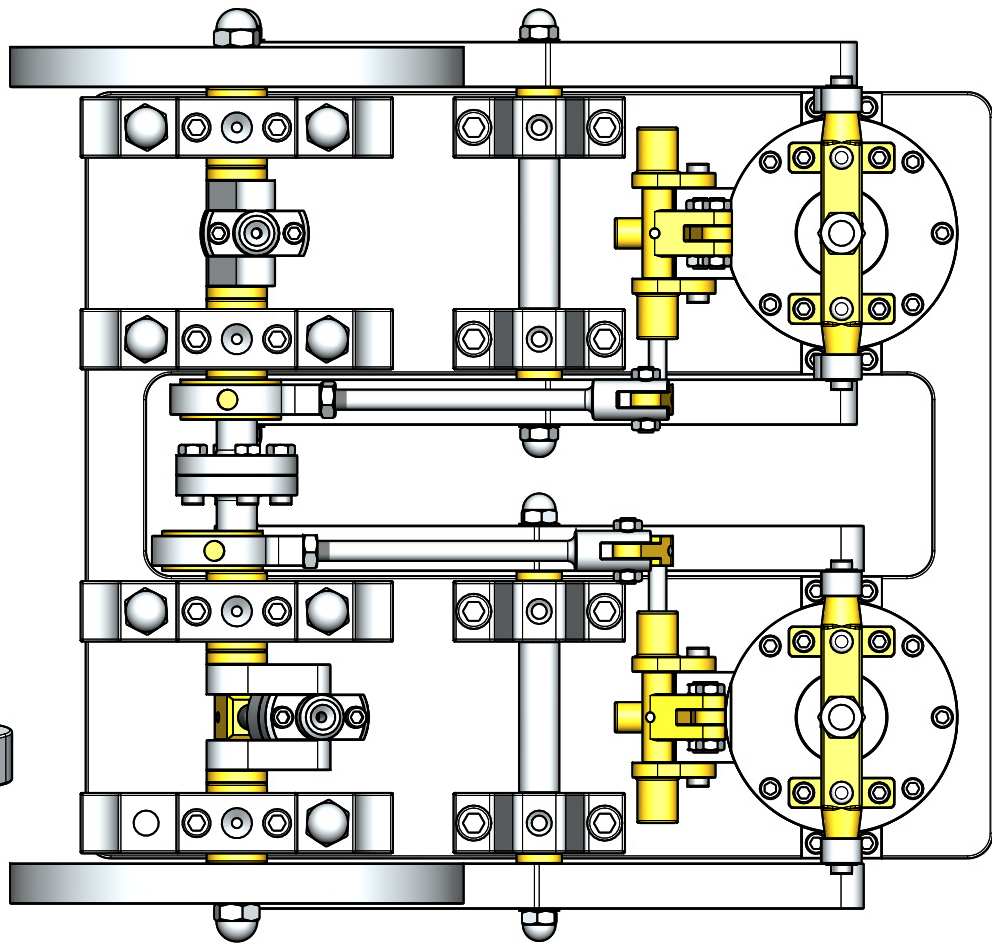
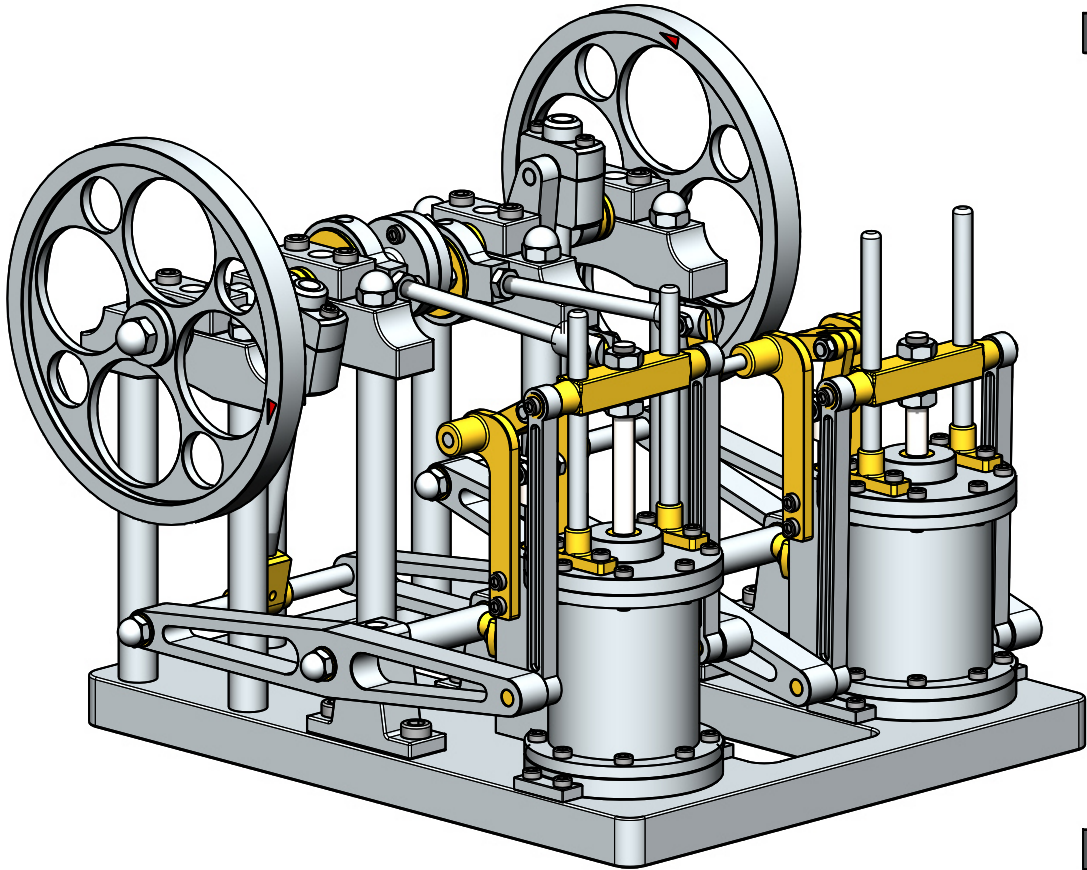
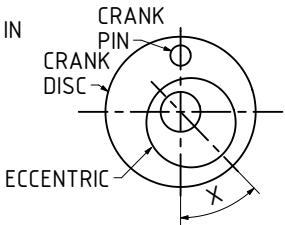


THE OFF SET ANGLE OF THE ECCENTRIC IN RELATION TO THE CRANK AXIS TO BE EXPERIMENTALLY DETERMINED FOR THE SMOOTH RUNNING OF THE ENGINE AND SATISFACTION OF THE BUILDER



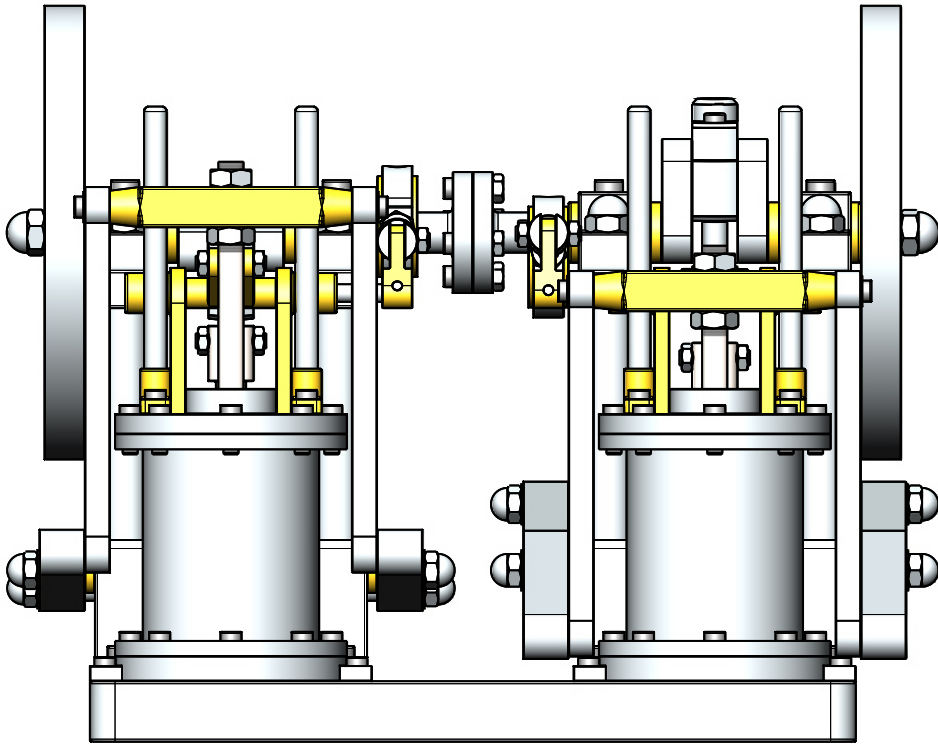
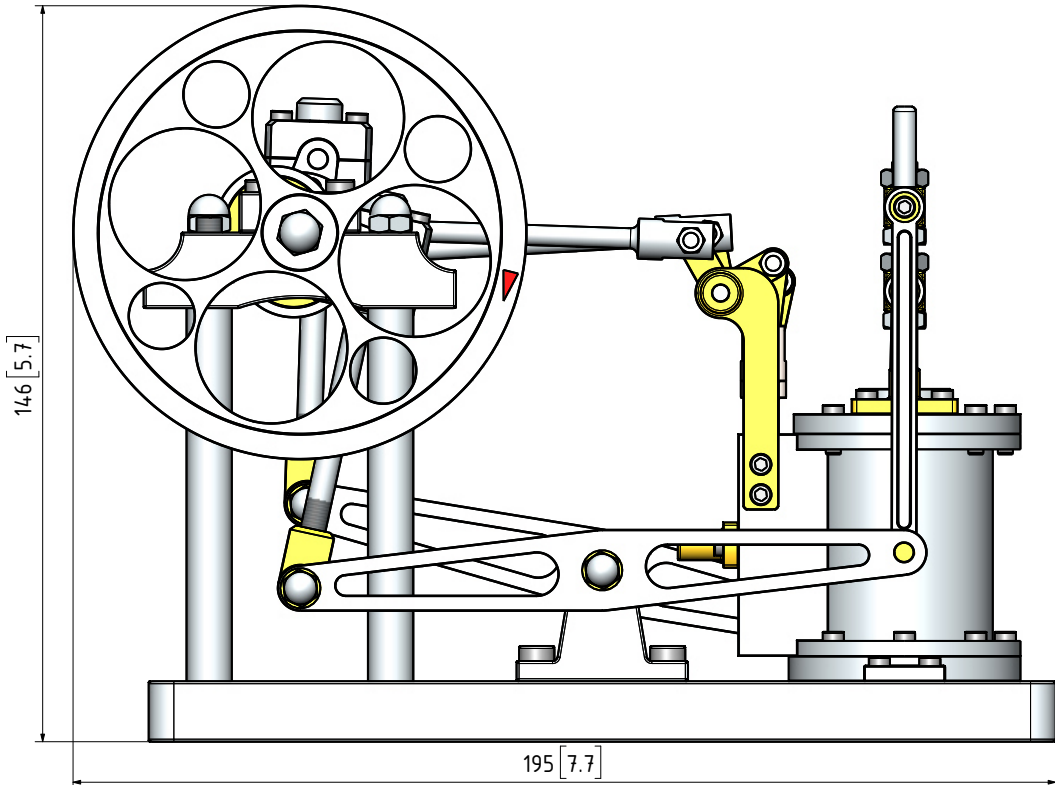
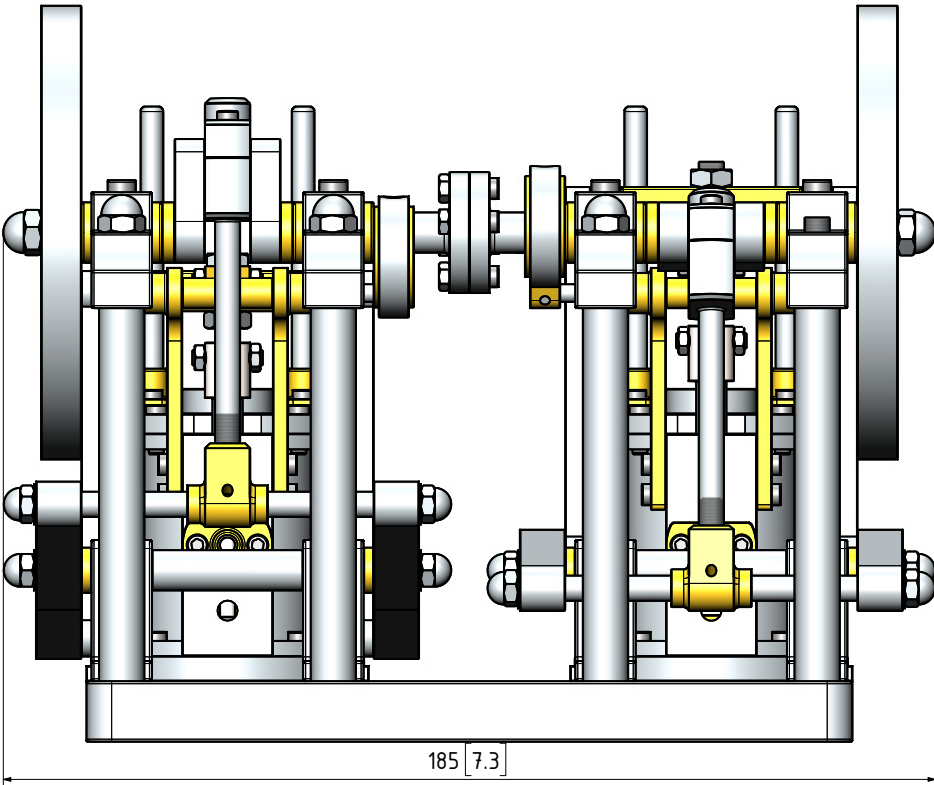
OTHER ABBREVIATIONS

AS = AS SHOWN
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
SPF= SPOTFACE
(T)HESOP=(TAPPED)HOLES EQUALLY SPACED ON PCD
(T)HESOC=(TAPPED)HOLES EQUALLY SPACED ON CIRCUMFERENCE
OD = OUTSIDE DIAMETER
ID = INSIDE DIAMETER
[SA-xxx] = SUB ASSEMBLY-xxx

MATERIAL ABBREVIATIONS:

ALU = ALUMINIUM
HALU= HARD ALUMINIUM
BRS = BRASS
BRZ = BRONZE OR GUNMETAL (BRZ/GM)
CI = CAST IRON
CU = COPPER
GRA = GRAPHITE
MS = MILD STEEL/BRIGHT MILD STEEL
SS = 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
2	09E-44-00-1-02-CYLINDER + VALVE PORT BLOCK
2	09E-44-00-1-03-CYLINDER BOTTOM COVER
2	09E-44-00-1-04-CYLINDER TOP COVER
1	09E-44-00-1-05-DOUBLE BASE PLATE
2	09E-44-00-2-01-CRANK SHAFT
2	09E-44-00-2-02-SIDE BEAM
2	09E-44-00-2-03-CON-ROD-1
2	09E-44-00-2-04-PISTON+CROSSHEAD
4	09E-44-00-2-05-CON-ROD-2
2	09E-44-00-2-06-SPOOL VALVE
1	09E-44-00-2-07-VALVE OPERATING LEVER
1	09E-44-00-2-07-VALVE OPERATING LEVER
2	09E-44-00-2-08-SPOOL ALVE LINK
2	09E-44-00-2-09-ECCENTRIC SHEAVE
2	09E-44-00-2-10-ECCENTRIC STRAP
16	09E-44-00-M3 NUT
4	09E-44-00-M3 WASHER
12	09E-44-00-M3x10 A-K CYL HEAD SCREW
4	09E-44-00-M3x14 A-K CYL HEAD SCREW
16	09E-44-00-M3x6 A-K CYL HEAD SCREW
36	09E-44-00-M3x8 A-K CYL HEAD SCREW
8	09E-44-00-M4 DOME NUT
2	09E-44-00-M4 NUT
8	09E-44-00-M4 WASHER
2	09E-44-00-M4x10 A-K GRUB SCREW
8	09E-44-00-M4x16 A-K CYL HEAD SCREW
9	09E-44-00-M5 DOME NUT
4	09E-44-00-M5 NUT
8	09E-44-00-M5x10 A-K CYL HEAD SCREW



NOTES: THE ORIGINAL DRAWINGS WERE GIVEN TO ME. THE AUTHOR OF THE ORIGINAL DESIGN IS UNKNOW. NO DATE ON THE DRAWINGS. ALL NOTES WERE IN FRENCH. THE DESIGN ON THESE DRAWINGS IS 1.5 TIMES LARGER THAN THE ORIGINAL

TITLE
A SINGLE AND TWIN CYLINDER SIDE BEAM
STEAM ENGINE (BORE=30mm STROKE=30mm)

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

PROJECT No 09E-44-00
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PROJECTION
DATE JULY 2020
SHEET: 02 OF 05
JDWDS
MODEL SCALE: 1:1
DWG SCALE: 1:1 @A3 OR AS SHOWN
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A3 No: 09E-44-00-SHT02

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