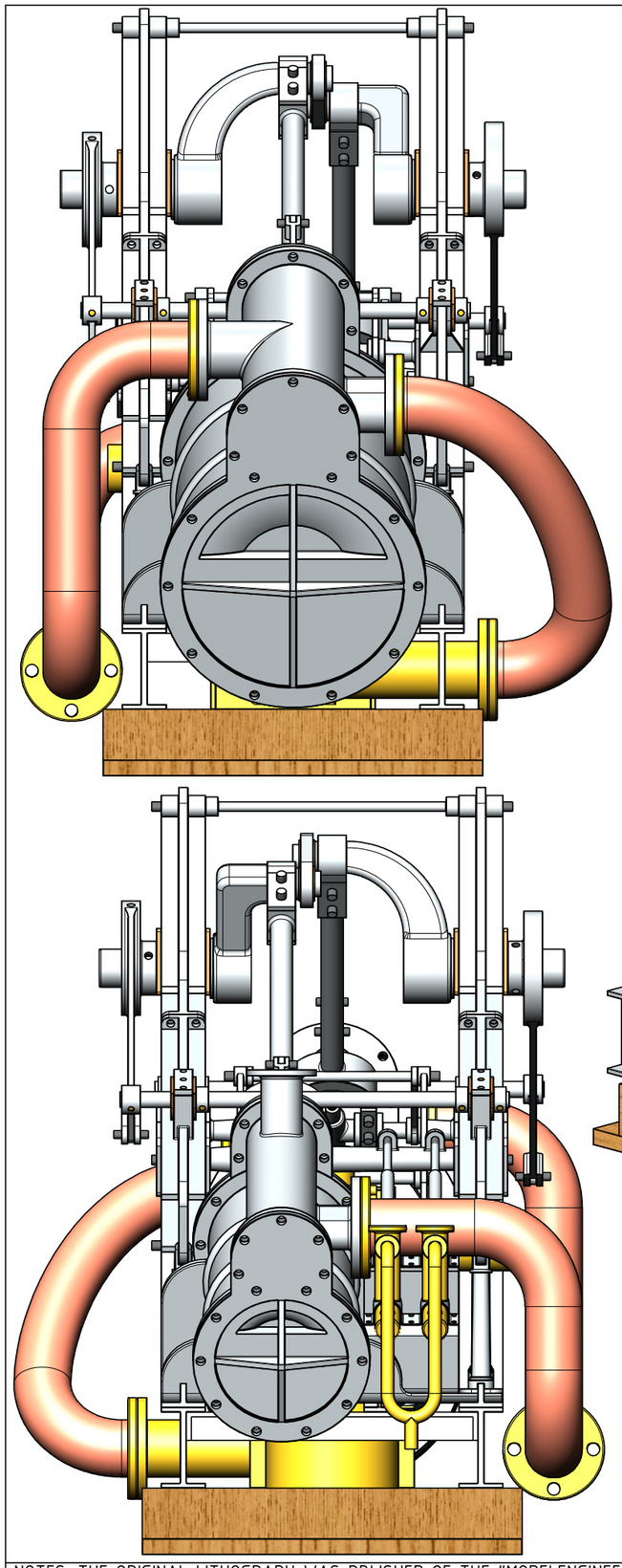
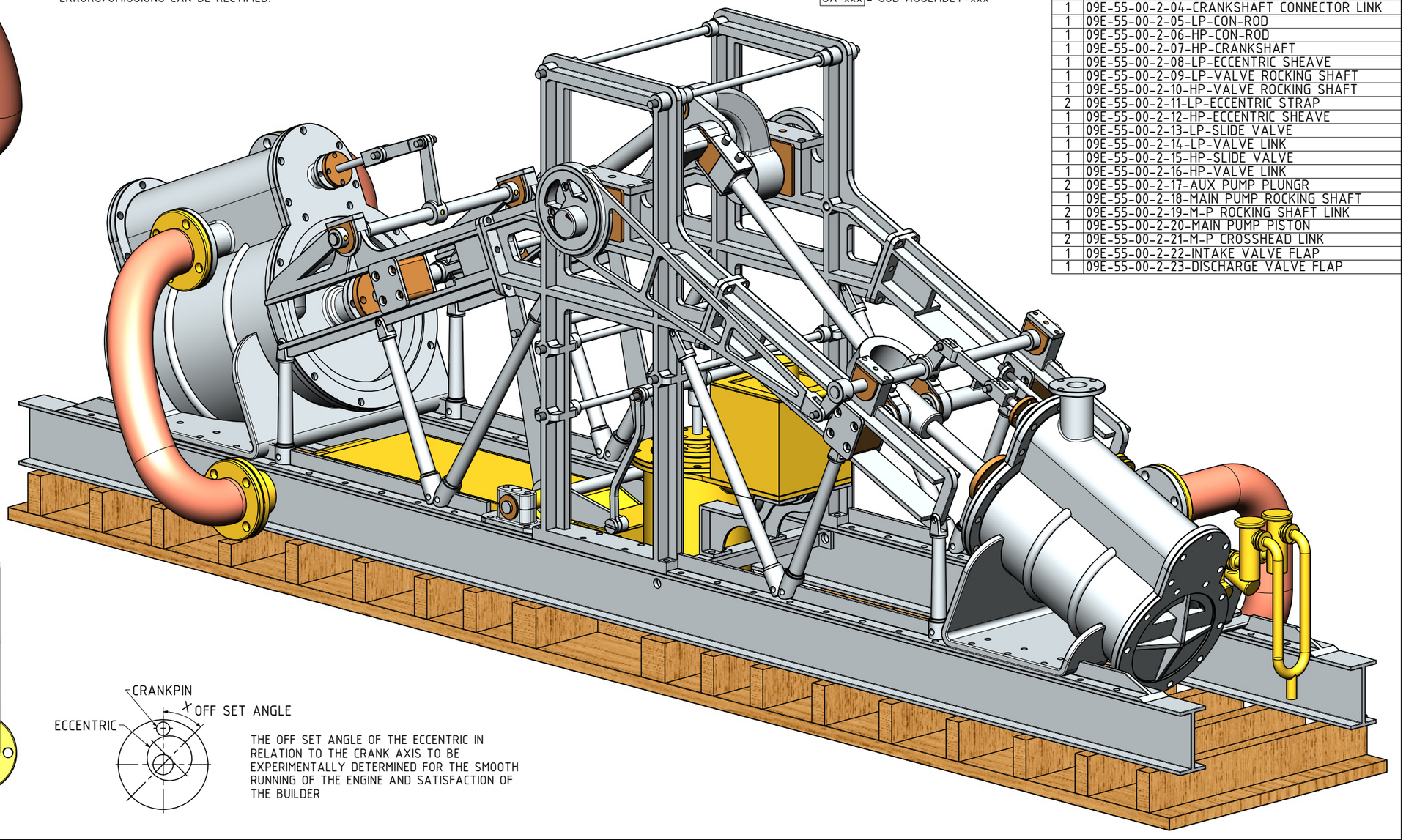


NOTES:
0. ALL DRAWINGS ARE IN METRIC MEASUREMENTS
1. ALL ENGINEERING PRACTICES SHALL BE APPLIED WITH REGARDS TO HOLE AND SHAFT TOLERANCES.
2. WHERE SCREWS OR BOLTS ARE USED THE CLEARANCE HOLES SHALL BE APPROXIMATELY 5% TO 8% LARGER THAN THE MATCHING TAPPED HOLE.
3. PREFERABLY ALL TAPPED HOLES AND MATCHING 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. WASHERS AND/OR SPRING WASHERS SHALL BE USED WHERE DEEMED NECESSARY.
14. INQUIRE AT THE APPROPRIATE AUTHORITIES WHETHER OR NOT THIS BOILER REQUIRE A PRESSURE TEST CERTIFICATE.
XX. ERRORS AND/OR OMISSIONS MAY OCCUR IN THE DRAWINGS, DO NOT HESITATE TO CONTACT ME SO THAT THE ERRORS/OMISSIONS CAN BE RECTIFIED.

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
MAX/MIN = CRITICAL DIMENSION
SA-xxx = SUB ASSEMBLY-xxx

QTY.	PART NUMBER
1	09E-55-00-1-01-BASE FRAME
4	09E-55-00-1-02-SUPPORT COLUMN TYPE-1
4	09E-55-00-1-03-SUPPORT COLUMN TYPE-2
4	09E-55-00-1-04-SUPPORT COLUMN TYPE-3
5	09E-55-00-1-05-STAY
1	09E-55-00-1-06-LP-CYLINDER
1	09E-55-00-1-07-LP-CYLINDER CRADLE
1	09E-55-00-1-08-LP-CYLINDER FRONT COVER
1	09E-55-00-1-09-LP-CYLINDER REAR COVER
1	09E-55-00-1-10-HP-CYLINDER
1	09E-55-00-1-11-HP-CYLINDER CRADLE
1	09E-55-00-1-12-HP-CYLINDER FRONT COVER
1	09E-55-00-1-13-HP-CYLINDER REAR COVER
1	09E-55-00-1-14-MAIN PUMP
1	09E-55-00-1-15-CONDENSER RECIEVER
2	09E-55-00-1-16-MAIN PUMP BEARING
2	09E-55-00-1-17-WATER TANK SUPPORT BRACKET
1	09E-55-00-1-18-LP-EXHAUST PIPE
1	09E-55-00-1-19-HP-EXHAUST PIPE
1	09E-55-00-1-20-LP-INLET PIPE
1	09E-55-00-1-21-INTERMIDIATE STEAM PIPE
1	09E-55-00-1-22-DUMMY AUX PUMPSTAND+PUMPS
1	09E-55-00-2-01-LP-PISTON
1	09E-55-00-2-02-HP-PISTON
1	09E-55-00-2-03-LP-CRANKSHAFT
1	09E-55-00-2-04-CRANKSHAFT CONNECTOR LINK
1	09E-55-00-2-05-LP-CON-ROD
1	09E-55-00-2-06-HP-CON-ROD
1	09E-55-00-2-07-HP-CRANKSHAFT
1	09E-55-00-2-08-LP-ECCENTRIC SHEAVE
1	09E-55-00-2-09-LP-VALVE ROCKING SHAFT
1	09E-55-00-2-10-HP-VALVE ROCKING SHAFT
2	09E-55-00-2-11-LP-ECCENTRIC STRAP
1	09E-55-00-2-12-HP-ECCENTRIC SHEAVE
1	09E-55-00-2-13-LP-SLIDE VALVE
1	09E-55-00-2-14-LP-VALVE LINK
1	09E-55-00-2-15-HP-SLIDE VALVE
1	09E-55-00-2-16-HP-VALVE LINK
2	09E-55-00-2-17-AUX PUMP PLUNGR
1	09E-55-00-2-18-MAIN PUMP ROCKING SHAFT
2	09E-55-00-2-19-M-P ROCKING SHAFT LINK
1	09E-55-00-2-20-MAIN PUMP PISTON
2	09E-55-00-2-21-M-P CROSSHEAD LINK
1	09E-55-00-2-22-INTAKE VALVE FLAP
1	09E-55-00-2-23-DISCHARGE VALVE FLAP



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 LITHOGRAPH WAS PBLISHED OF THE "MODELENGINEERINGWEBSITE" WEBSITE. THIS ENGINE HAS BEEN DRAWN AS NON REVERSABLE. SOME OF THE COMPONENTS SHOWN ON THE LITHOGRAPH ARE NOT SHOWN ON THESE DRAWINGS.

TITLE
2 CYL. COMPOUND STEAM ENGINE OF THE RHINE STEAMER "KRONPRINZ VON PREUSZEN

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

PROJECT No 09E-55-00
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PROJECTION
JDWDS
DATE AUGUST 2021
MODEL SCALE: 1:1
DWG SCALE: 1:1 @A3 OR AS SHOWN
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SHEET: 02 OF 08 A3 No: 09E-55-00-SHT02

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