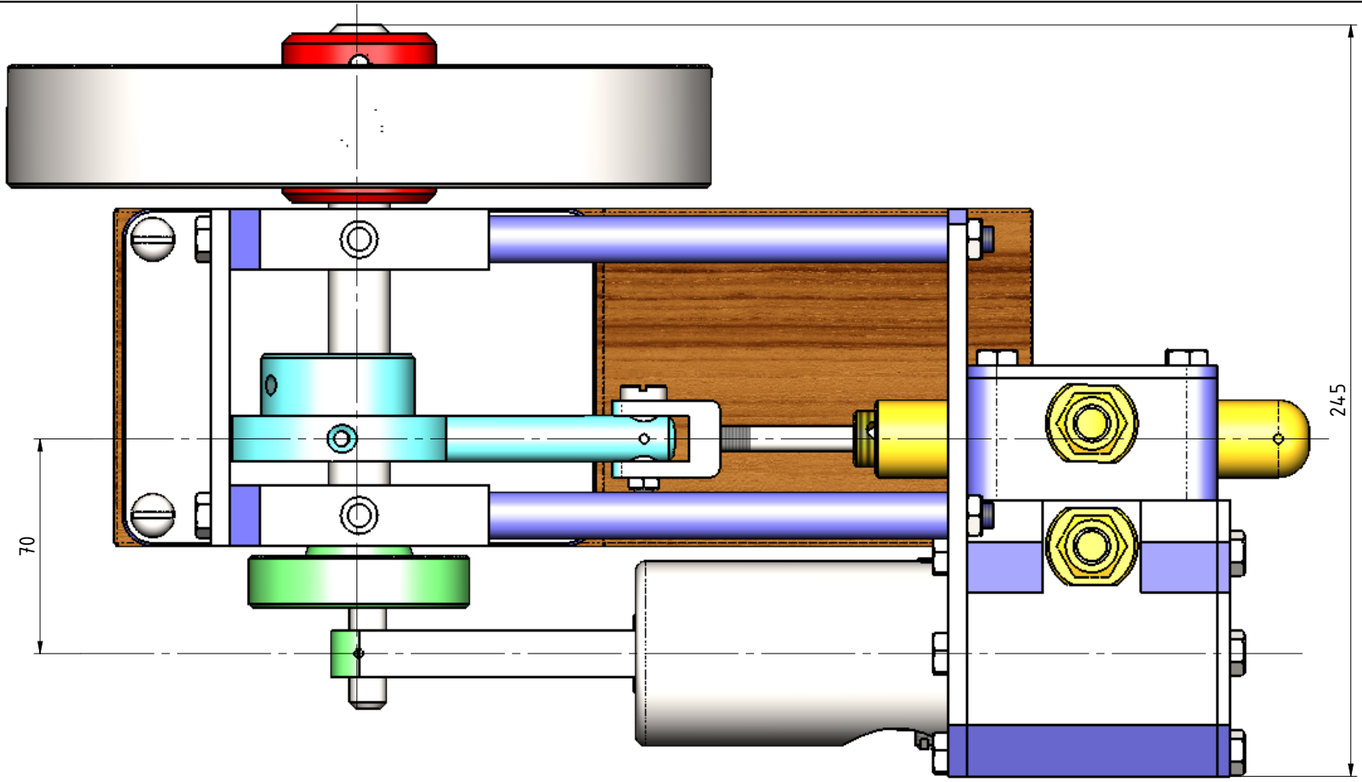
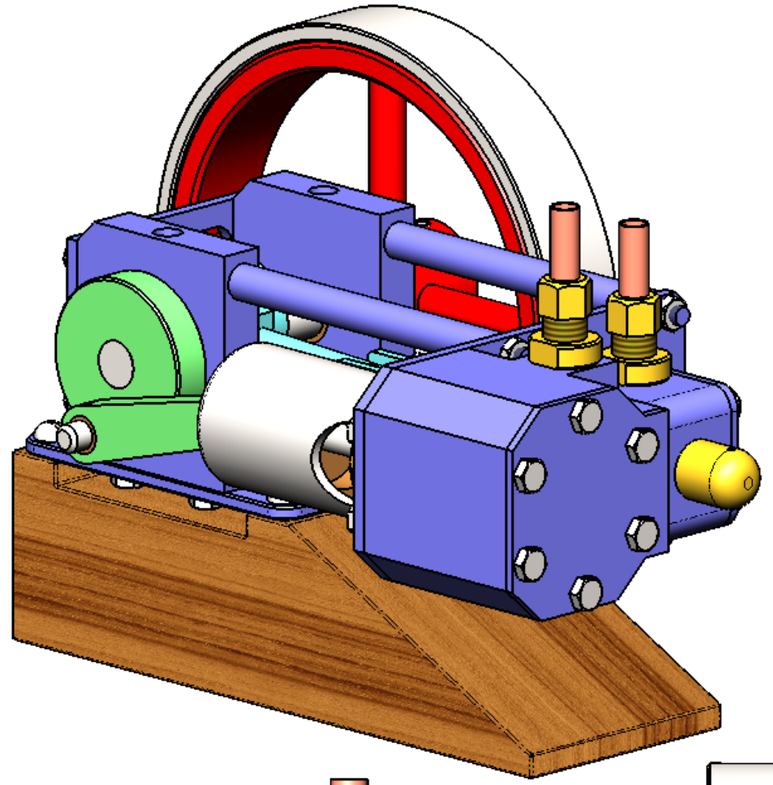
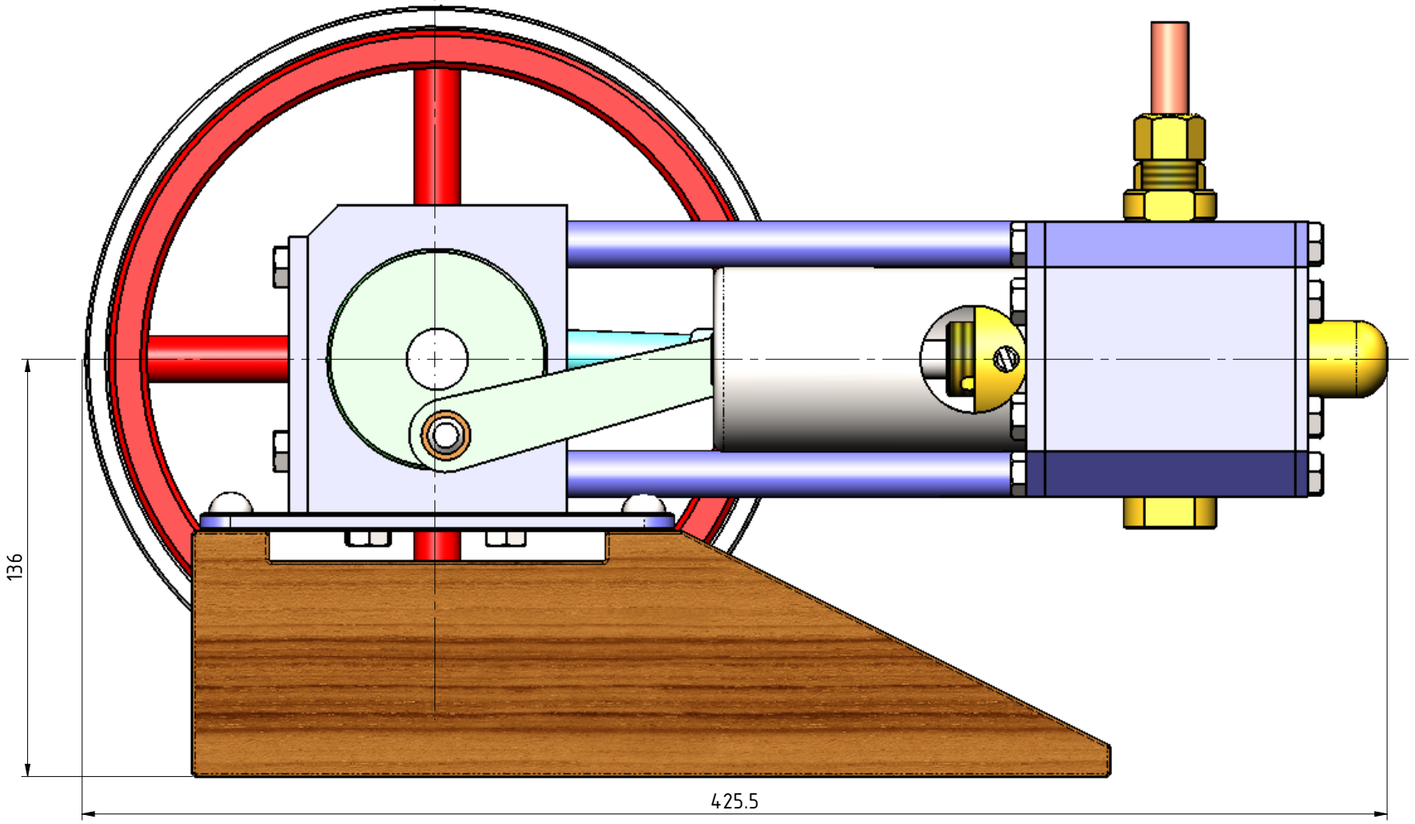
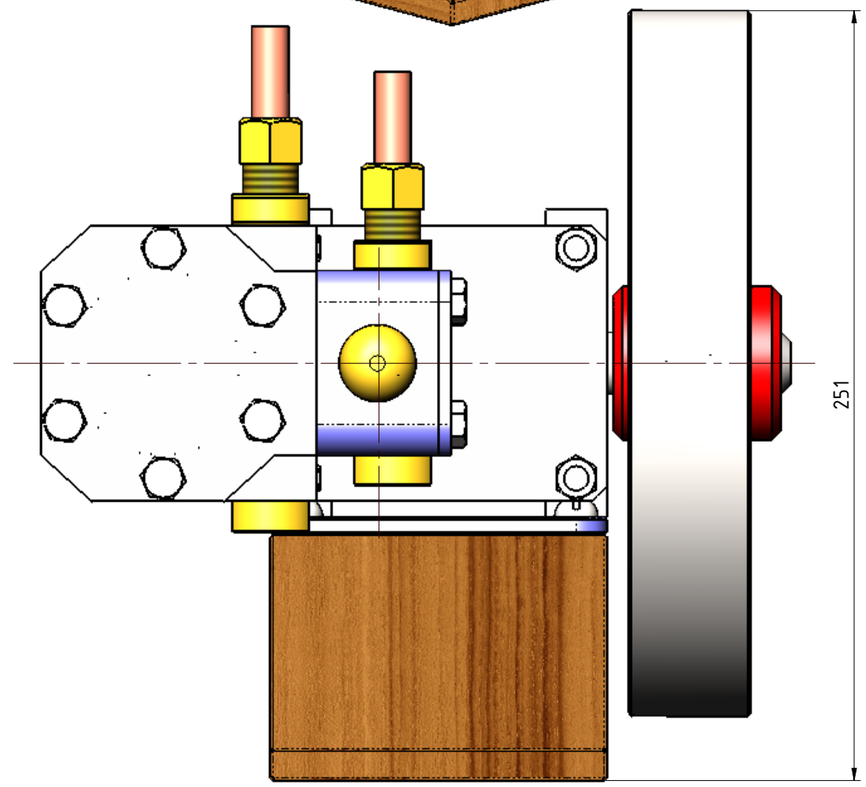
THIS DRAWING REMAINS THE PROPERTY OF JDW DRAUGHTING SERVICES J.A.M.DE WAAL,12 BRIGHTWELL STREET PAPAKURA 2110 NEW ZEALAND (09)2988815

IF IN DOUBT ASK









ENGINE IS BASED ON A BASIC DESIGN OF A STEAM ENGINE BY MR. G QUAYLE, AUCKLAND NEW ZEALAND

MACHIENTJE IS GEBASEERD OP EEN EENVOUDIG ONTWERP VAN EEN STOOM MACHINE DOOR MR. G. QUAYLE, AUCKLAN NIEUW ZEELAND

TITLE

SINGLE CYLINDER HORIZONTAL STEAM ENGINE WITH CIRCULAR SLIDE VALVE

A3

REV	DESCRIPTION	DATE
B	REDRAWN DECEMBER-2009	DEC-2009
A	ISSUED FOR CONSTRUCTION	APR-2006

JDW DRAUGHTING SERVICES
12 BRIGHTWELL STREET
PAPAKURA NEW ZEALAND
TEL/FAX 0064-09-2988815
E-MAIL:dewaal@xtra.co.nz

DRAWN BY: J.A.M. DE WAAL

PROJECTION

DRAWING NUMBER: SCHSE

PJCT No: 34

DATE: DEC-2009

SCALE: 1:1 or AS SHOWN

SHT OF SHT: 01 of 05

REV: B

IF NOT STATED ALL CHAMFERS AND FILLETS 0.25mm

DO NOT SCALE OF DRAWING

REMOVE ALL BURS AND SHARP EDGES

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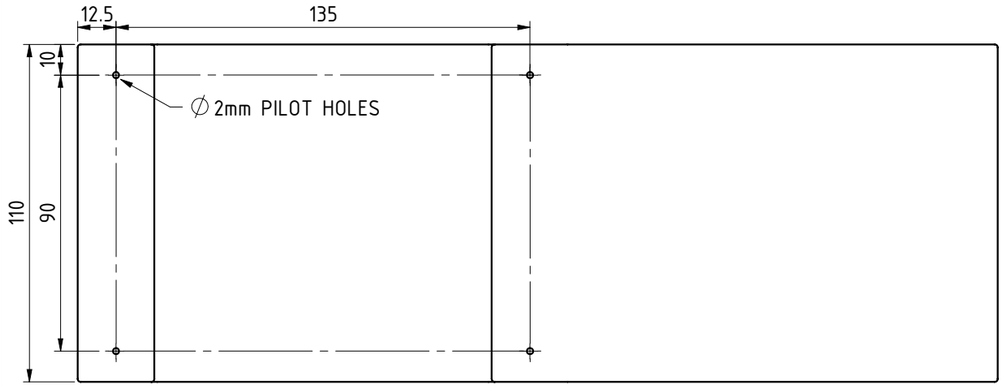
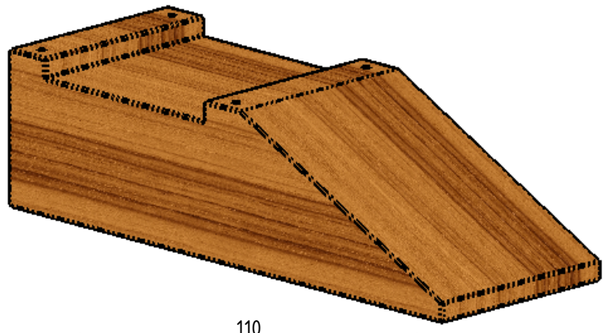
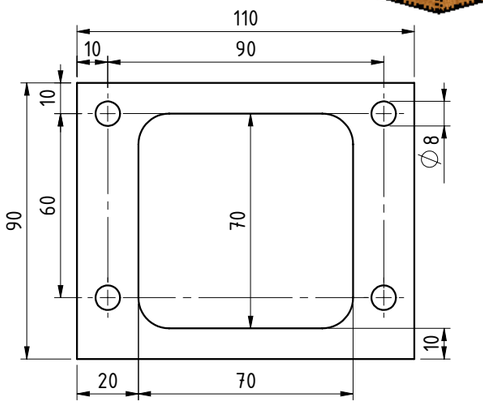
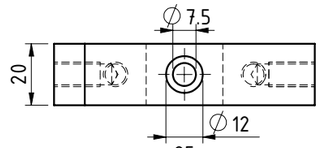


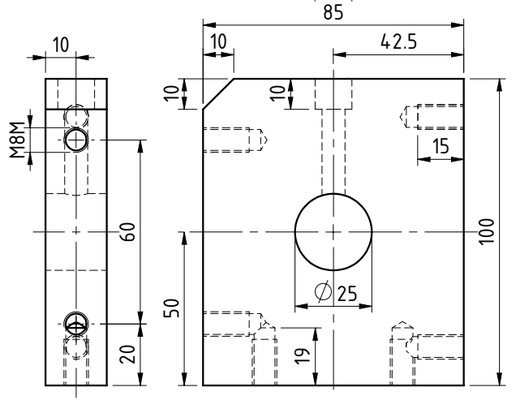
01-BASE MAT: TIMBER SCALE 1:2

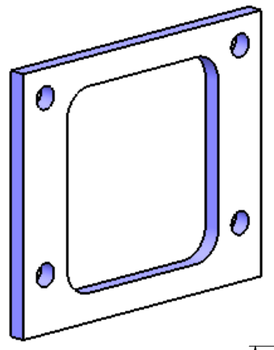


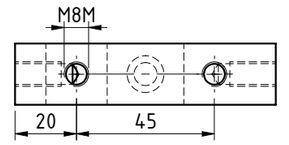


04-CROSS BRACE MAT: PAINTED STEEL 6mm THICK SCALE 1:2

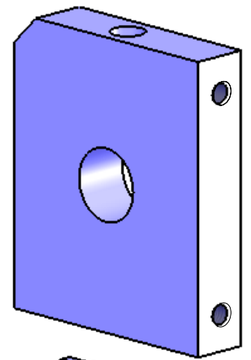


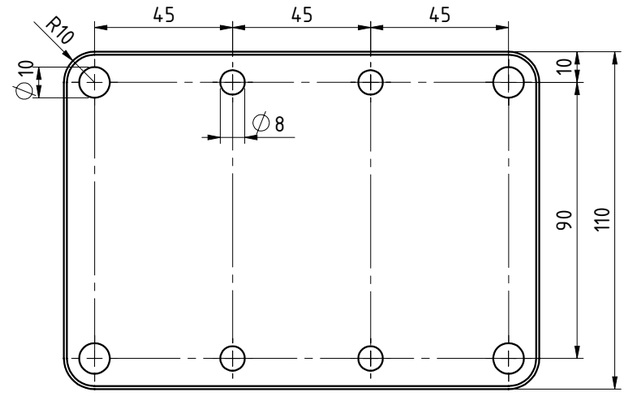


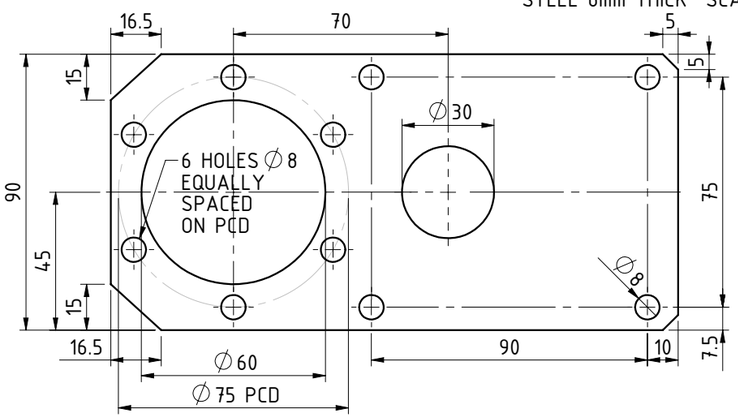




03-MAIN BEARING HOLDER MAT: PAINTED STEEL SCALE 1:2
2 REQUIRED

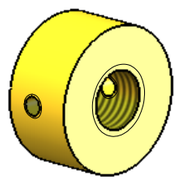


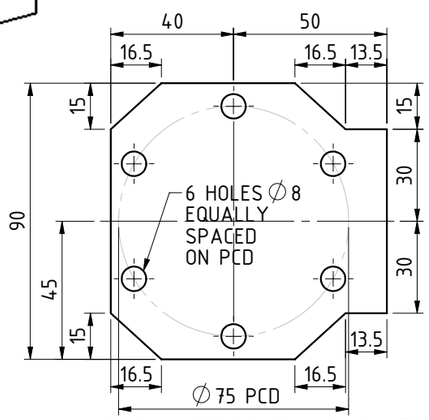




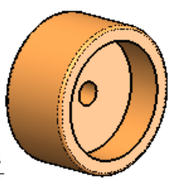
07-MOUNTING PLATE MAT: PAINTED STEEL 6mm THICK SCALE 1:2

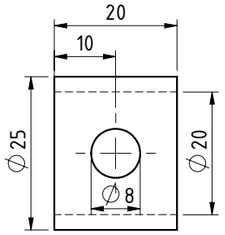
02-BASE PLATE MAT: PAINTED STEEL SCALE 1:2



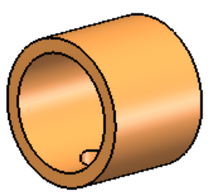


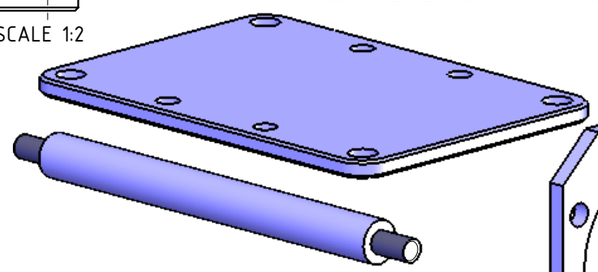
09-CYLINDER COVER MAT: PAINTED STEEL
4mm THICK SCALE 1:2

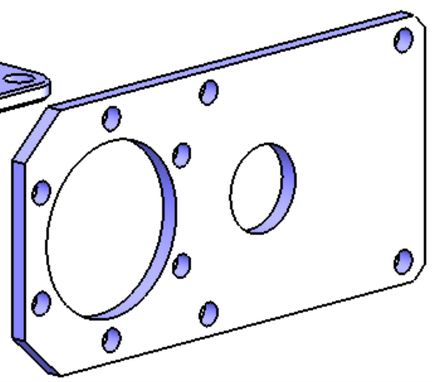


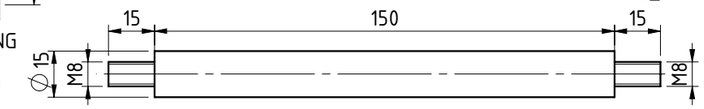


05-MAIN BEARING
MAT: BRONZE
PRESS FIT INTO
ITEM 03
2 REQUIRED

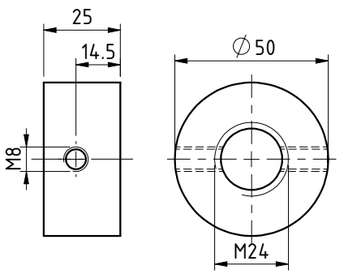




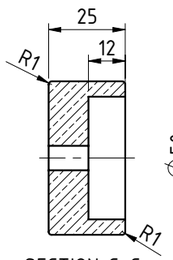




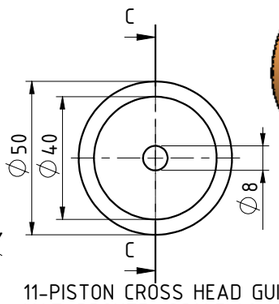
06-MOUNTING ROD MAT: PAINTED STEEL SCALE 1:2 4 REQUIRED



12-CYLINDER PLUG MAT: BRASS
SCALE 1:2



SECTION C-C
SCALE 1 : 2



11-PISTON CROSS HEAD GUIDE
MAT: BRONZE SCALE 1:2

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TEL/FAX 0064-09-2988815
E-MAIL:dewaal@xtra.co.nz

DRAWN BY: J.A.M. DE WAAL
PROJECTION:
DRAWING NUMBER: SCHSE
PJCT No: 34
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SHT OF SHT: 02 of 05
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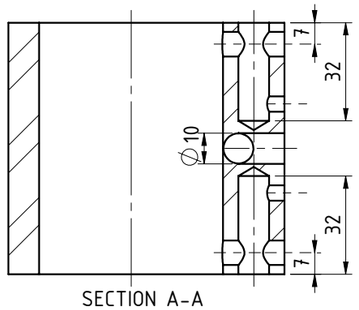
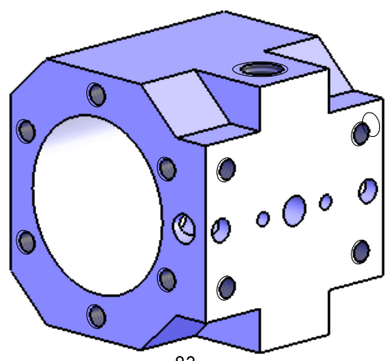
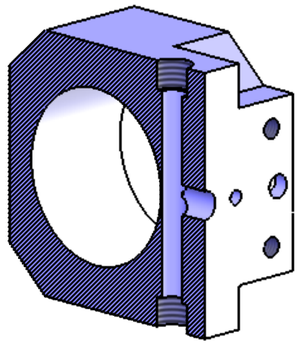
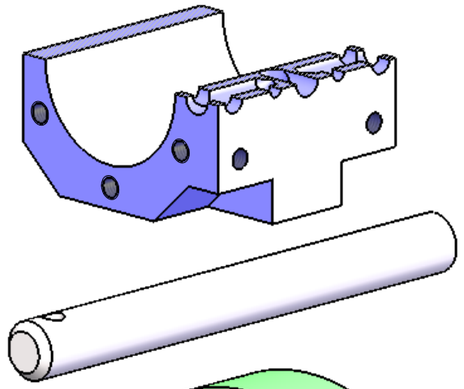
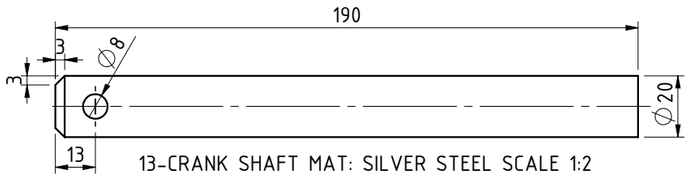


SECTION A-A
SCALE 1 : 2

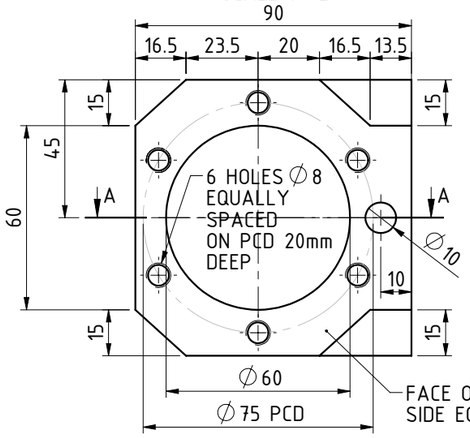


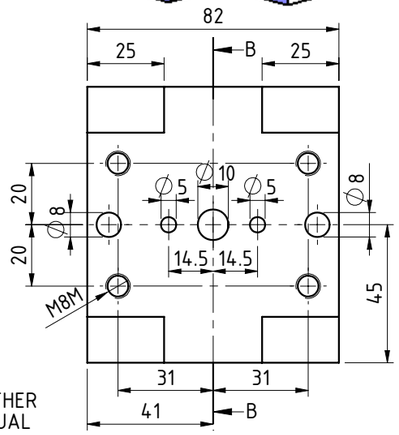


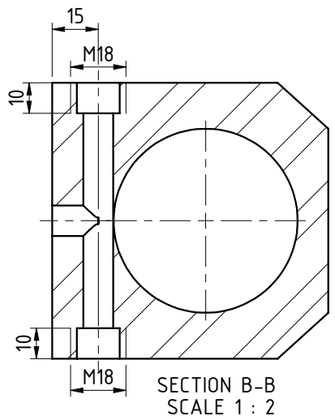




13-CRANK SHAFT MAT: SILVER STEEL SCALE 1:2

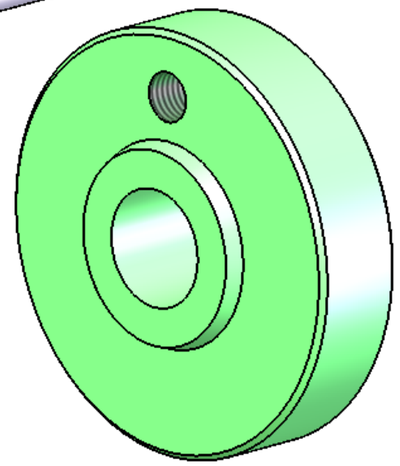


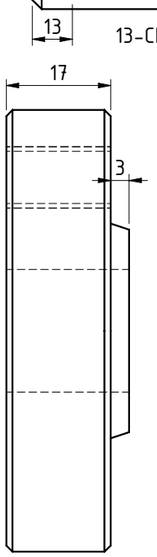


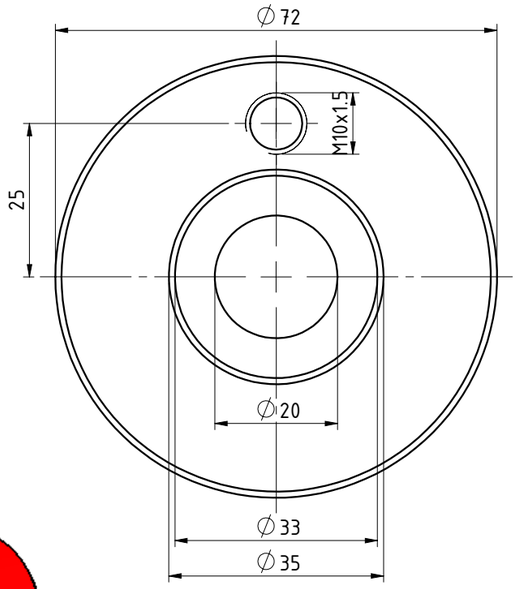


SECTION B-B
SCALE 1 : 2

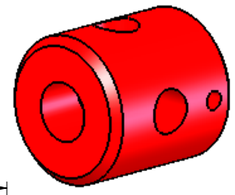
08-CYLINDER BLOCK MAT: PAINTED STEEL SCALE 1:2

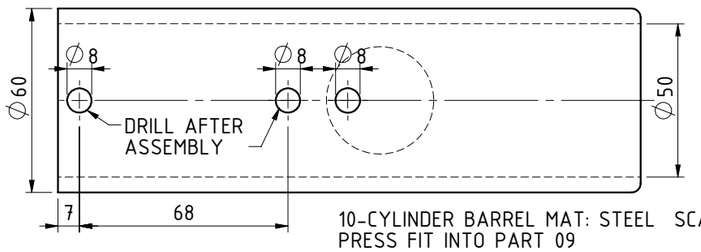




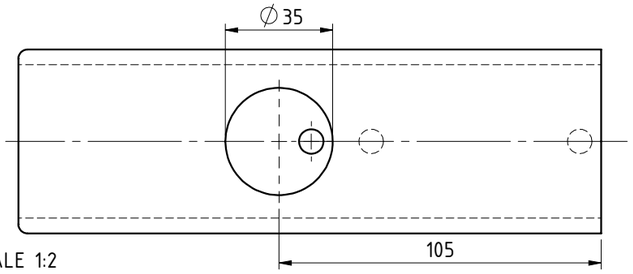


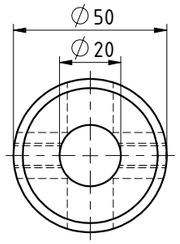
14-CRANK PLATE MAT: PAINTED STEEL
PRESS FIT ONTO PART 13

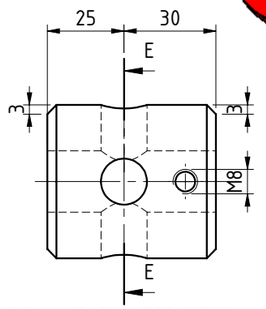


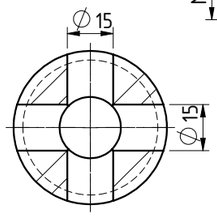


10-CYLINDER BARREL MAT: STEEL SCALE 1:2
PRESS FIT INTO PART 09

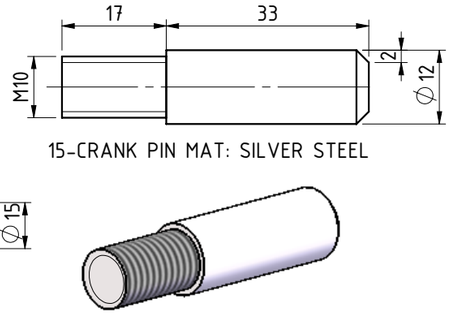






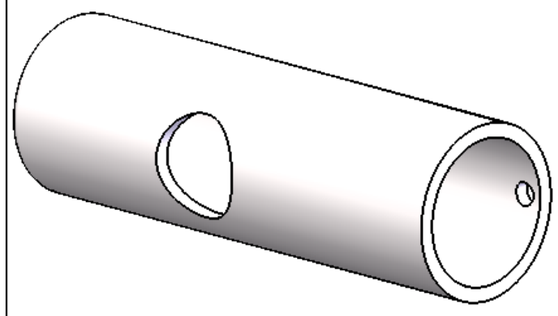


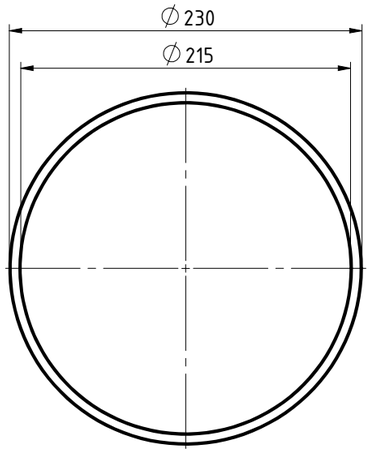
SECTION E-E
SCALE 1 : 2

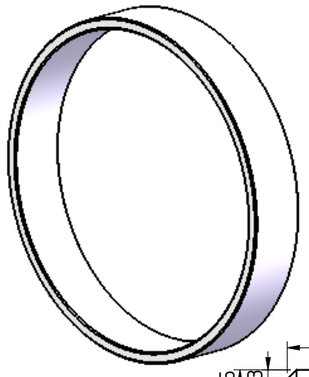


15-CRANK PIN MAT: SILVER STEEL

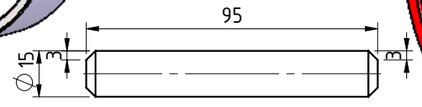
16-FLYWHEEL HUB MAT: PAINTED STEEL
SCALE 1:2 EASY FIT ONTO PART 13



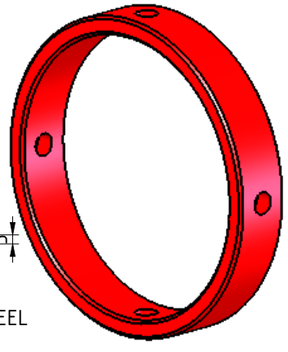


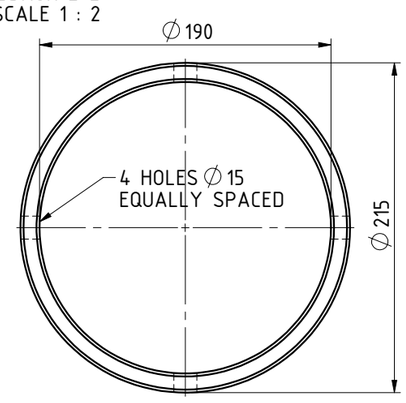


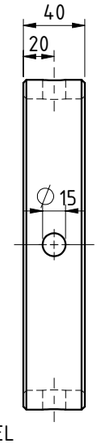
17-FLYWHEEL OUTER RIM MAT: STEEL 40mm THICK
SCALE 1:4 PRESS FIT ONTO PART 18



19-FLYWHEEL SPOKE MAT: PAINTED STEEL
SCALE 1:2 TIGHT FIT INTO PART 15







18-FLYWHEEL INNER RIM MAT: PAINTED STEEL
SCALE 1:4

ENGINE IS BASED ON A BASIC DESIGN OF A STEAM ENGINE BY MR. G QUAYLE, AUCKLAND NEW ZEALAND | MACHIENTJE IS GEBASEERD OP EEN EENVOUDIG ONTWERP VAN EEN STOOM MACHINE DOOR MR. G. QUAYLE, AUCKLAN NIEUW ZEELAND

TITLE

SINGLE CYLINDER HORIZONTAL STEAM ENGINE WITH CIRCULAR SLIDE VALVE

A3

REV	DESCRIPTION	DATE
B	REDRAWN DECEMBER-2009	DEC-2009
A	ISSUED FOR CONSTRUCTION	APR-2006

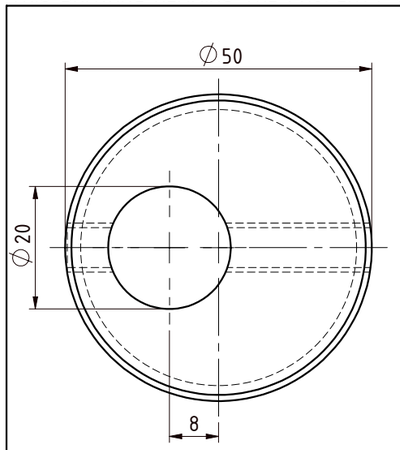
JDW DRAUGHTING SERVICES
12 BRIGHTWELL STREET
PAPAKURA NEW ZEALAND
TEL/FAX 0064-09-2988815
E-MAIL:dewaal@xtra.co.nz

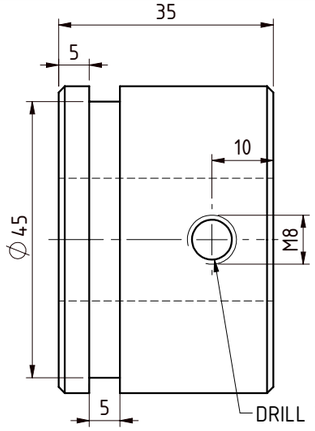
DRAWN BY	PROJECTION	DRAWING NUMBER	PJCT No
J.A.M. DE WAAL		SCHSE	34
DATE	SCALE	SHT OF SHT	REV
DEC-2009	1:1 or AS SHOWN	03 of 04	B

IF NOT STATED ALL CHAMFERS AND FILLETS 0.25mm | DO NOT SCALE OF DRAWING | REMOVE ALL BURS AND SHARP EDGES

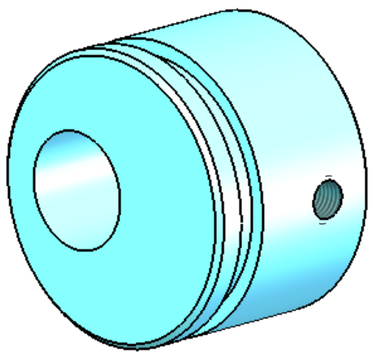
THIS DRAWING REMAINS THE PROPERTY OF JDW DRAUGHTING SERVICES J.A.M.DE WAAL,12 BRIGHTWELL STREET PAPAKURA 2110 NEW ZEALAND (09)2988815

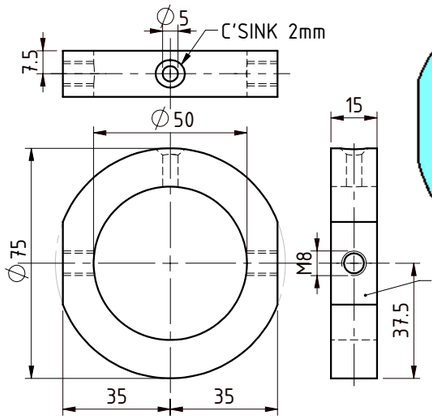
IF IN DOUBT ASK



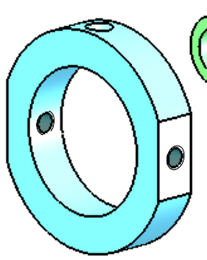


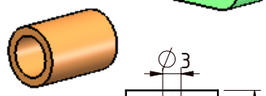
20-ECCENTRIC MAT: STEEL EASY FIT ONTO PART 13



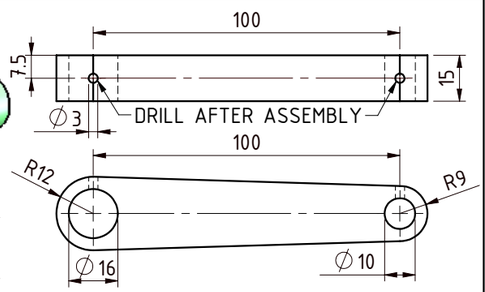


21-ECCENTRIC HOUSING MAT: STEEL SCALE 1:2
SLIDING FIT ONTO PART 13

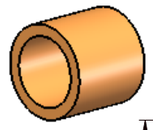


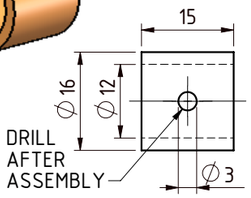


23A-CONNECTING ROD TOP
BEARING MAT: BRONZE
PRESS FIT INTO PART 22

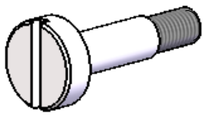


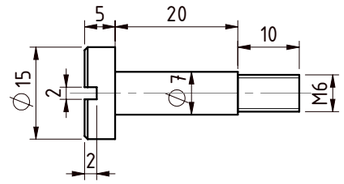
22-CONNECTING ROD MAT: STEEL SCALE 1:2



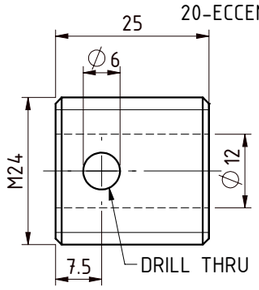


23-CONNECTING ROD BOTTOM
BEARING MAT: BRONZE
PRESS FIT INTO PART 22

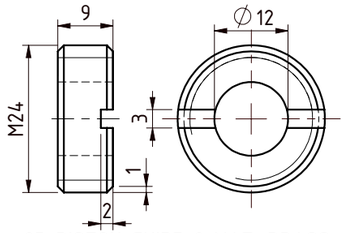




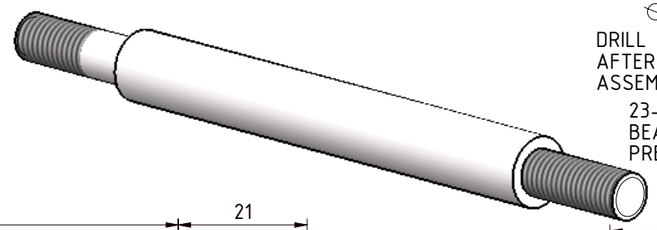
28-PISTON YOKE SCREW MAT: STEEL
2 REQUIRED

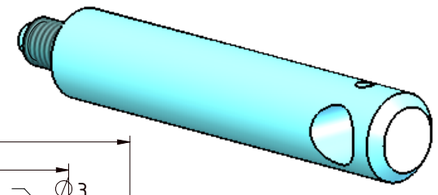


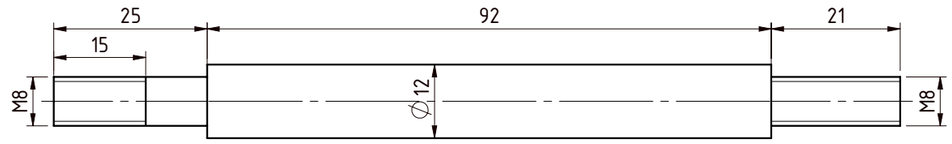
24-PISTON GUIDE-1 MAT: BRASS



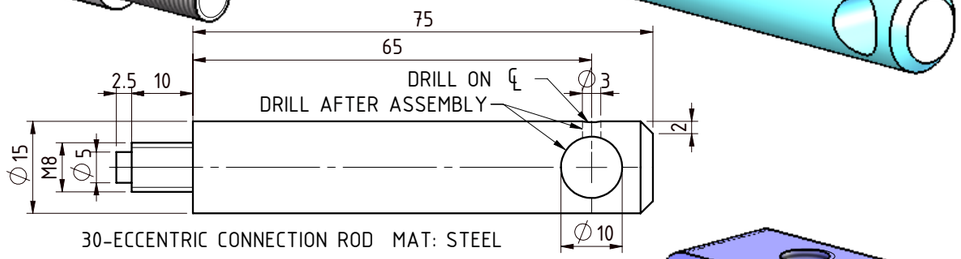
25-PISTON GUIDE-2 MAT: BRASS



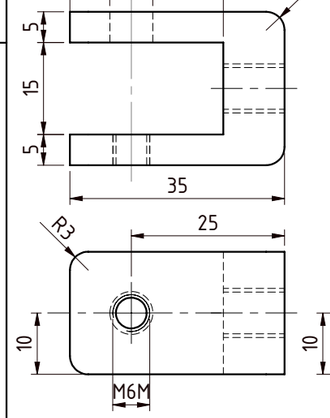


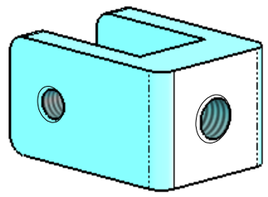


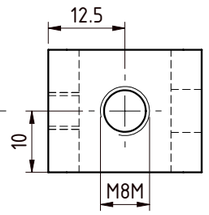
27-PISTON ROD MAT: SILVER STEEL
SLIDING FIT INTO PARST 24 & 25



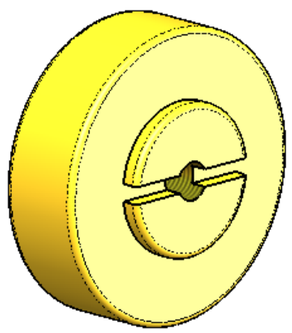
30-ECCENTRIC CONNECTION ROD MAT: STEEL

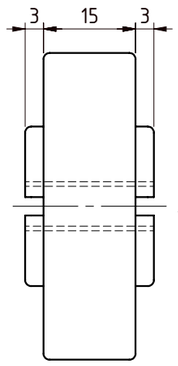


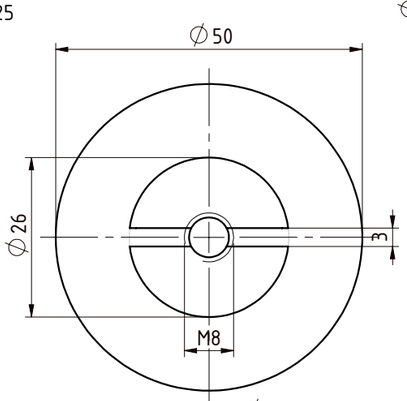




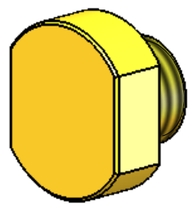
26-PISTON YOKE MAT: PAINTED STEEL
2 REQUIRED

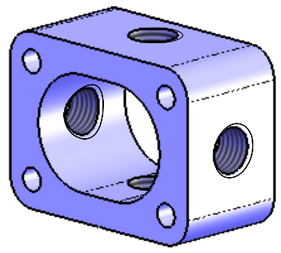


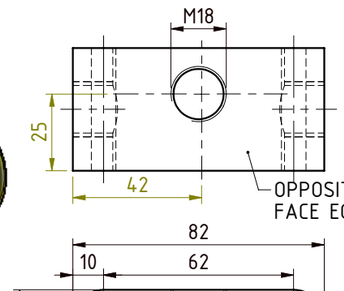


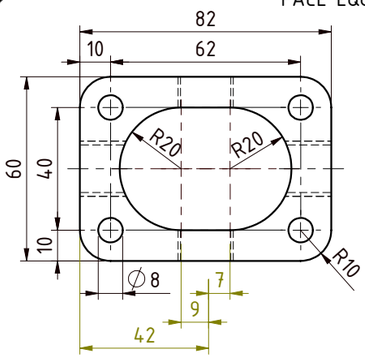


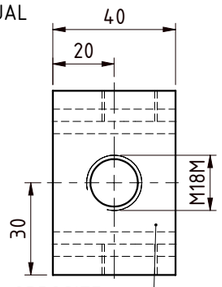
29-PISTON MAT: BRASS
SLIDING FIT INTO PART 10

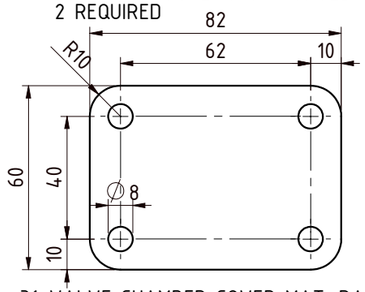


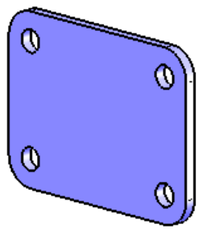




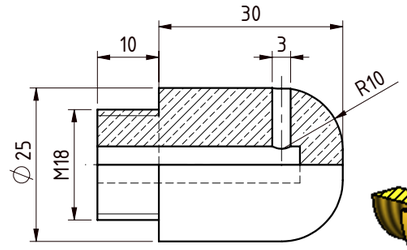




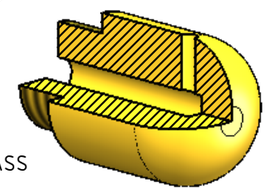


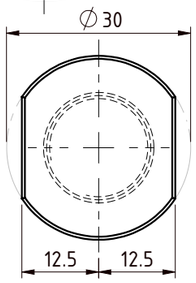


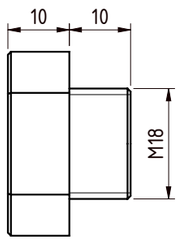
31-VALVE CHAMBER COVER MAT: PAINTED STEEL
4mm THICK SCALE 1:2



32-VALVE CHAMBER DOME MAT: BRASS







33-VALVE CHAMBER PLUG MAT: BRASS
2 REQUIRED

34-VALVE CHAMBER MAT: PAINTED STEEL
SCALE 1:2

ENGINE IS BASED ON A BASIC DESIGN OF A STEAM ENGINE BY MR. G QUAYLE, AUCKLAND NEW ZEALAND | MACHIENTJE IS GEBASEERD OP EEN EENVOUDIG ONTWERP VAN EEN STOOM MACHINE DOOR MR. G. QUAYLE, AUCKLAN NIEUW ZEELAND

TITLE

SINGLE CYLINDER HORIZONTAL STEAM ENGINE WITH CIRCULAR SLIDE VALVE

A3

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PAPAKURA NEW ZEALAND
TEL/FAX 0064-09-2988815
E-MAIL:dewaal@xtra.co.nz

DRAWN BY	J.A.M. DE WAAL
PROJECTION	
DRAWING NUMBER	SCHSE
PJCT No	34
DATE	DEC-2009
SCALE	1:1 or AS SHOWN
SHT OF SHT	04 of 05
REV	B

IF NOT STATED ALL CHAMFERS AND FILLETS 0.25mm

DO NOT SCALE OF DRAWING

REMOVE ALL BURS AND SHARP EDGES

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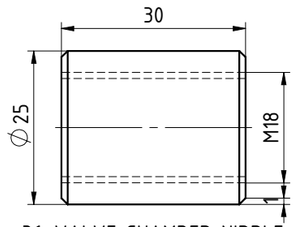
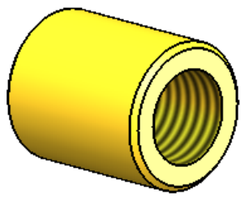
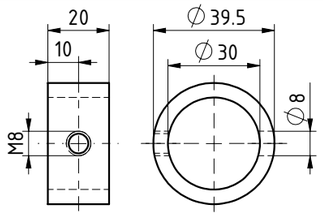
IF IN DOUBT ASK

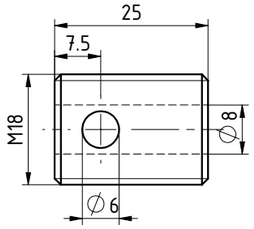


36-VALVE CHAMBER NIPPLE
MAT: BRASS

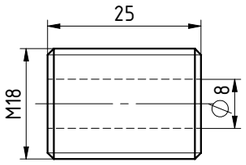




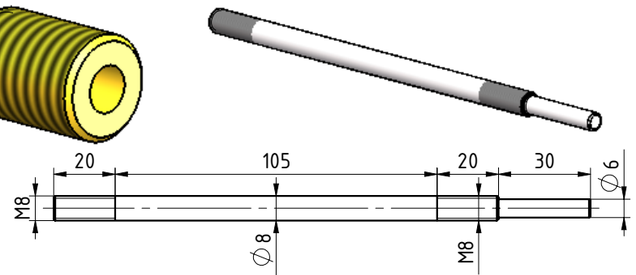
37-VALVE RING MAT: BRASS
SCALE 1:2



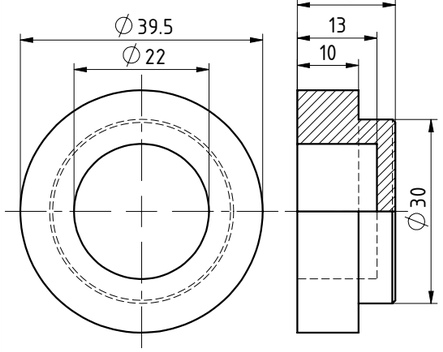
38-VALVE ROD GUIDE-1
MAT: BRASS



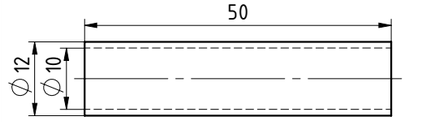
39-VALVE ROD GUIDE-2
MAT: BRASS



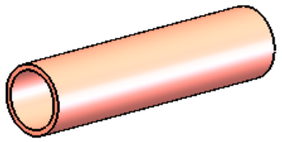
40-VALVE ROD MAT: SILVER STEEL SCALE 1:2
SLIDING FIT INTO PARTS 32, 37 & 38

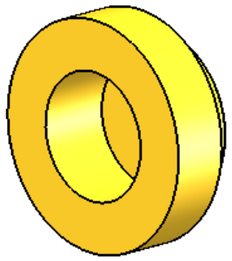


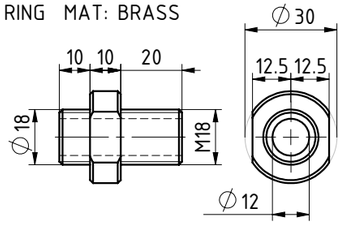
41-VALVE MAT: BRASS



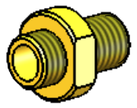
42-IN-OUTLET PIPE MAT: COPPER TUBE

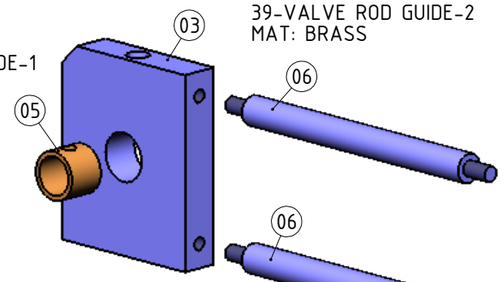




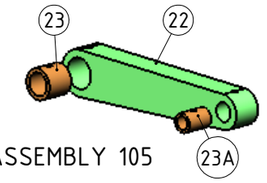


43-IN-OUTLET NIPPLE MAT: BRASS
SCALE 1:2





ASSEMBLY 101



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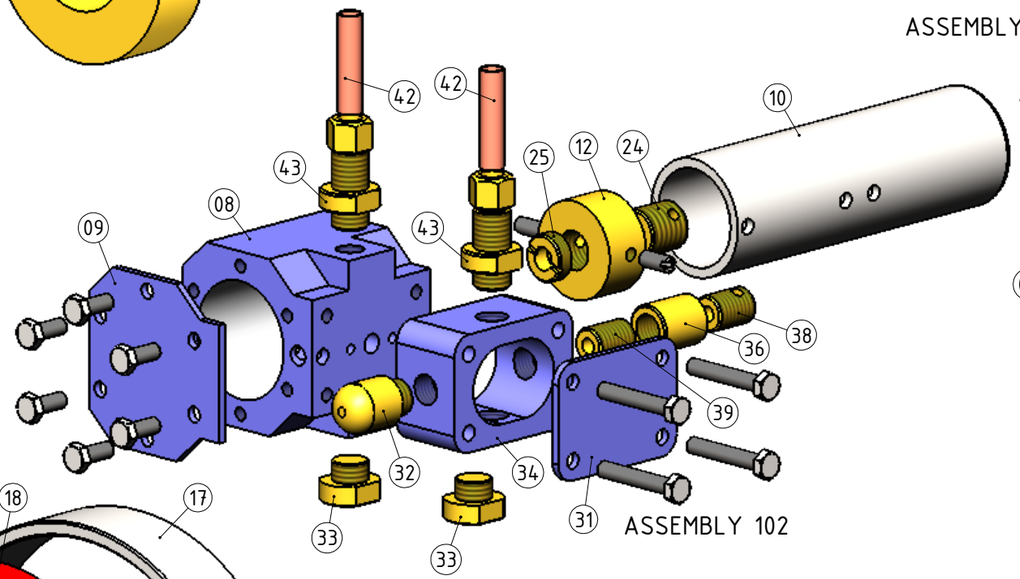

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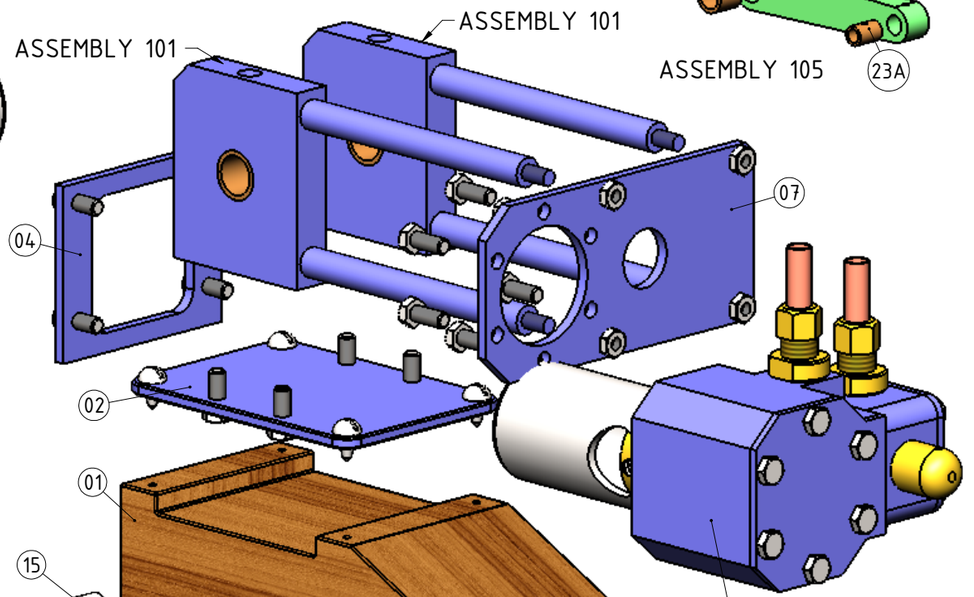

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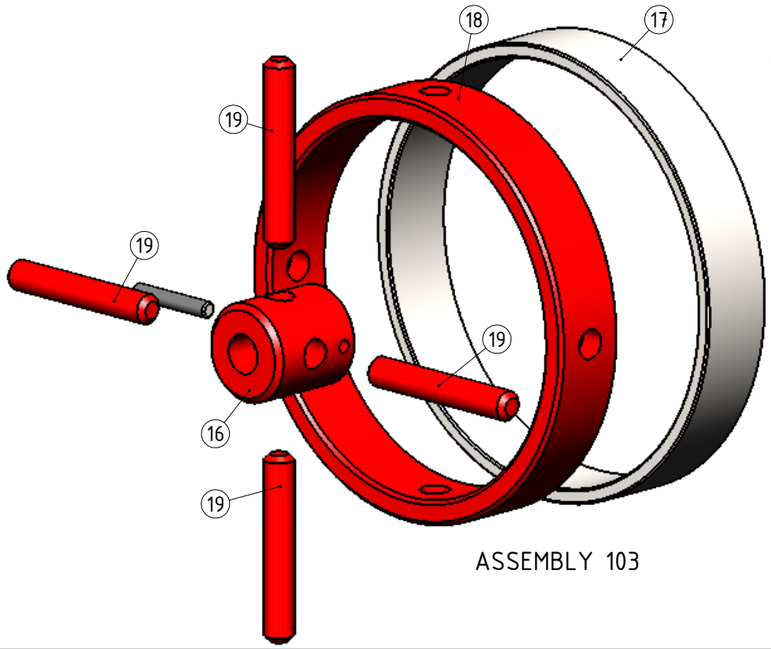

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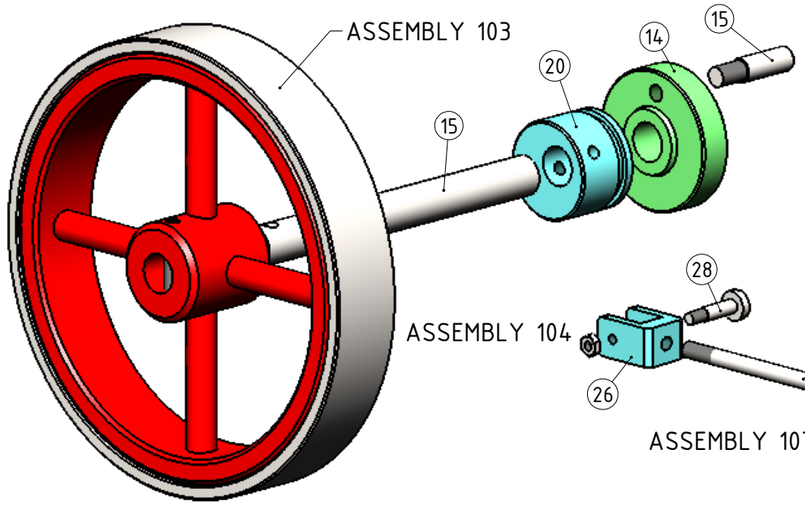
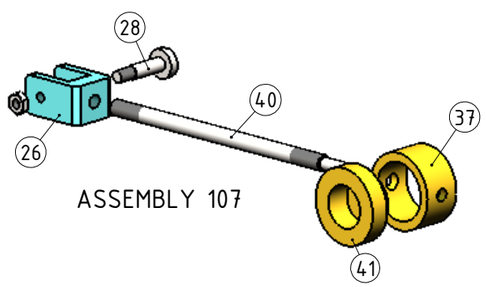


ASSEMBLY 104



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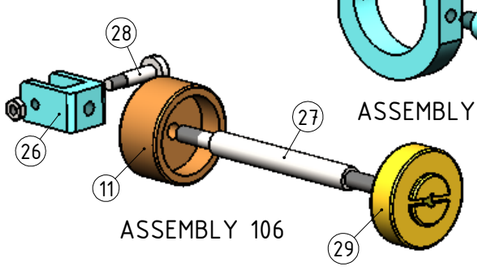

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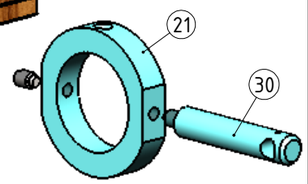

ASSEMBLY 108

ENGINE IS BASED ON A BASIC DESIGN OF A STEAM ENGINE BY MR. G QUAYLE, AUCKLAND NEW ZEALAND

MACHIENTJE IS GEBASEERD OP EEN EENVOUDIG ONTWERP VAN EEN STOOM MACHINE DOOR MR. G. QUAYLE, AUCKLAN NIEUW ZEELAND

A3

TITLE

SINGLE CYLINDER HORIZONTAL STEAM ENGINE WITH CIRCULAR SLIDE VALVE

REV	DESCRIPTION	DATE
B	REDRAWN DECEMBER-2009	DEC-2009
A	ISSUED FOR CONSTRUCTION	APR-2006

JDW DRAUGHTING SERVICES
12 BRIGHTWELL STREET
PAPAKURA NEW ZEALAND
TEL/FAX 0064-09-2988815
E-MAIL:dewaal@xtra.co.nz

DRAWN BY	PROJECTION	DRAWING NUMBER	PJCT No
J.A.M. DE WAAL		SCHSE	34
DATE	SCALE	SHT OF SHT	REV
DEC-2009	1:1 or AS SHOWN	05 of 05	B

IF NOT STATED ALL CHAMFERS AND FILLETS 0.25mm

DO NOT SCALE OF DRAWING

REMOVE ALL BURS AND SHARP EDGES