

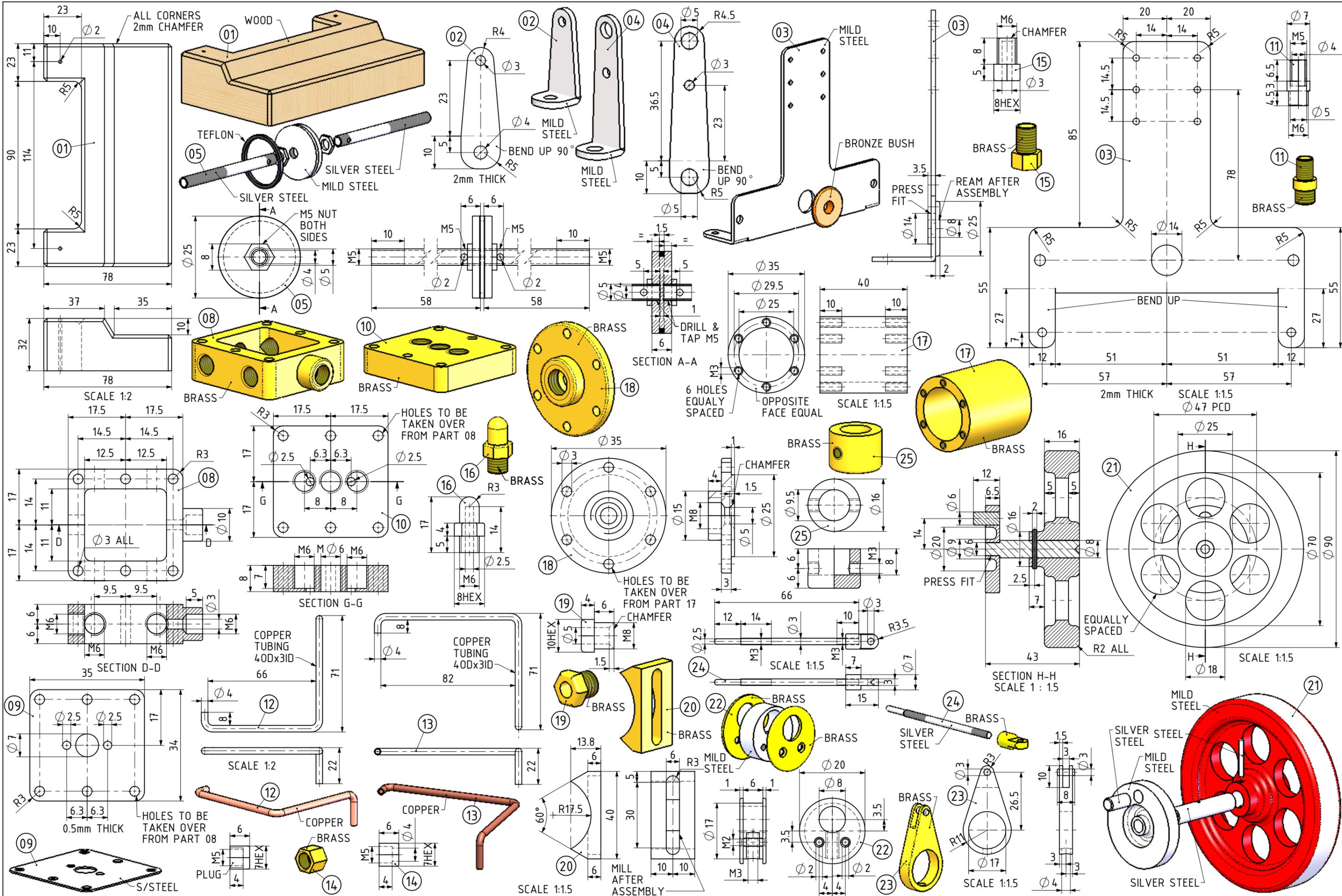
QTY.	PART NUMBER
1	HMCSE-01-WOODEN BASE
2	HMCSE-02-PISTON ROD STAND SUPPORT
1	HMCSE-03-BASE PLATE
2	HMCSE-04-PISTON ROD STAND
1	HMCSE-05-PISTON + PISTON ROD
1	HMCSE-08-VALVE CHEST
1	HMCSE-09-VALVE PORT SHIM
1	HMCSE-10-VALVE PORT BLOCK
7	HMCSE-11-VALVE PORT BLOCK NIPPLE
1	HMCSE-12-LH INLET STEAM PIPE
1	HMCSE-13-RH INLET STEAM PIPE
6	HMCSE-14-INLET-EXHAUST PIPE NUT
3	HMCSE-14-INLET-EXHAUST PIPE NUT
1	HMCSE-15-VALVE ROD GLAND
1	HMCSE-16-VALVE ROD TOP CONE
1	HMCSE-17-CYLINDER
2	HMCSE-18-CYLINDER COVER
2	HMCSE-19-CYLINDER GLAND
1	HMCSE-20-CON ROD
1	HMCSE-21-CRANKSHAFT AND FLYWHEEL
1	HMCSE-22-ECCENTRIC SHEAVE
1	HMCSE-23-ECCENTRIC STRAP
1	HMCSE-24-VALVE ROD
1	HMCSE-25-VALVE
4	HMCSE-3x12-WOOD SCREW
8	HMCSE-M3 NUT
12	HMCSE-M3x10
6	HMCSE-M3x25
1	HMCSE-M3x5 GRUB SREW
2	HMCSE-M3x6
6	HMCSE-M5 NUT
2	HMCSE-M5x10

TITLE
EXPERIMENTAL STEAM ENGINE WITH
HORIZONTAL MOVING CYLINDER

DRAWING CONTENTS
GENERAL ARRANGEMENT, ISOMETRIC VIEW AND
BILL OF MATERIALS

PROJECT No
JDW DRAUGHTING SERVICES
J.A.M. DE WAAL, 12 BRIGHTWELL STREET PAKAKURA 2110,
NEW ZEALAND. PHONE: 0064 09 2988815. MOB: 0211791000
E-MAIL: dewaal@xtra.co.nz.

PROJECTION
MODEL SCALE: 1:1
DWG SCALE: NTS @ A3 OR AS SHOWN
SHEET: 01 OF 03
DATE: JULY 2012
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A3/No: HMCSE-01

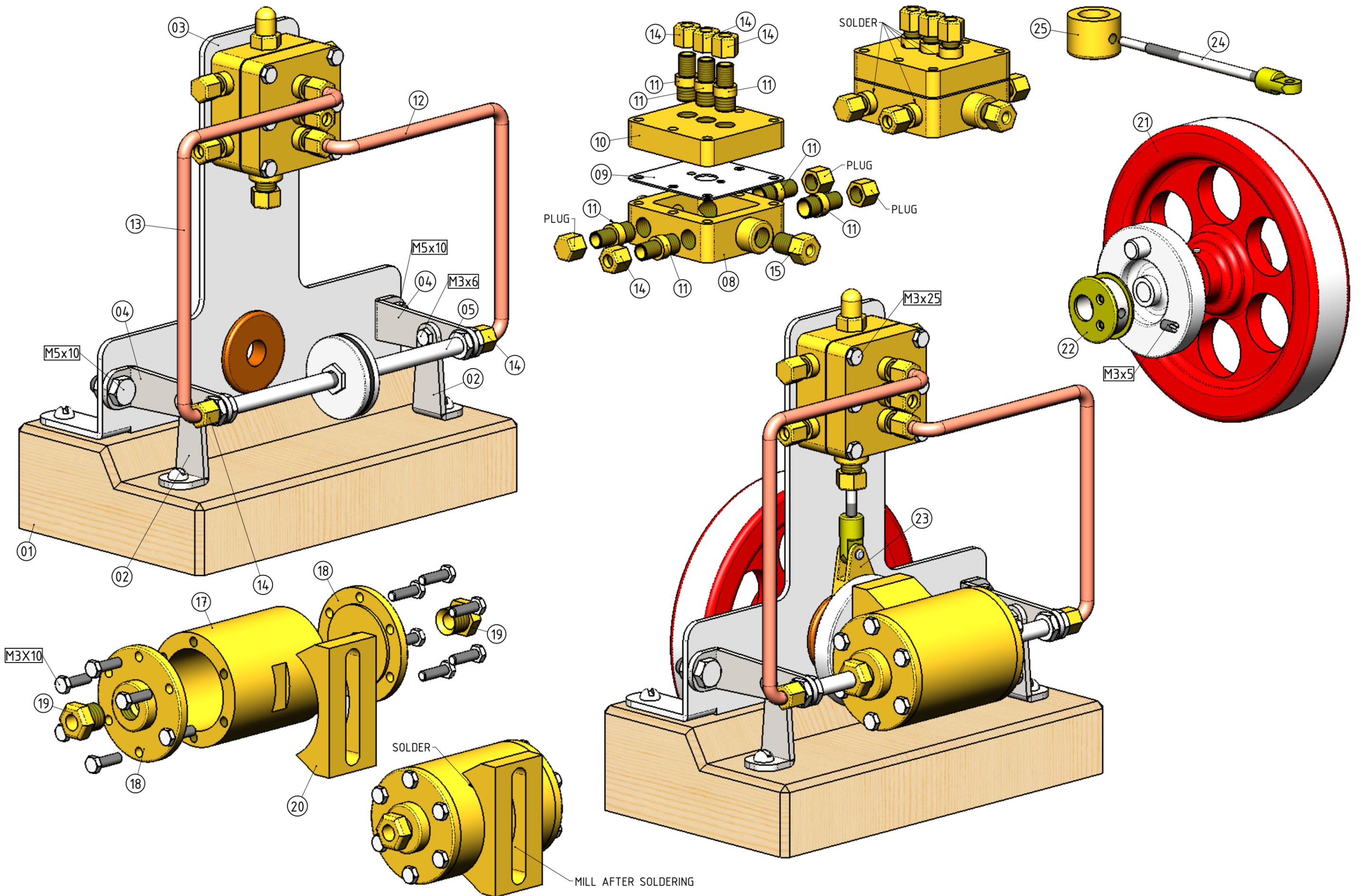


TITLE
**EXPERIMENTAL STEAM ENGINE WITH
 HORIZONTAL MOVING CYLINDER**

DRAWING CONTENTS
PARTS AND ASSEMBLIES

PROJECT No
JDW DRAUGHTING SERVICES
 J.A.M. DE WAAL, 12 BRIGHTWELL STREET PAPA KURA 2110,
 NEW ZEALAND. PHONE: 064 09 2988815. MOB: 0211791000
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PROJECTION
 MODEL SCALE: 1:1
 DWG SCALE: 1:1 @ A3 OR AS SHOWN
 SHEET: 02 OF 03 Copyright © J.A.M. DE WAAL PAPA KURA NZ
 DATE: JULY 2012 **A3/No: HMCSE-02**



TITLE
**EXPERIMENTAL STEAM ENGINE WITH
 HORIZONTAL MOVING CYLINDER**

DRAWING CONTENTS
PARTS AND ASSEMBLIES

PROJECT No
JDW DRAUGHTING SERVICES
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PROJECTION

 SHEET: 03 OF 03
 DATE: JULY 2012

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A3 No: HMCSE-03