

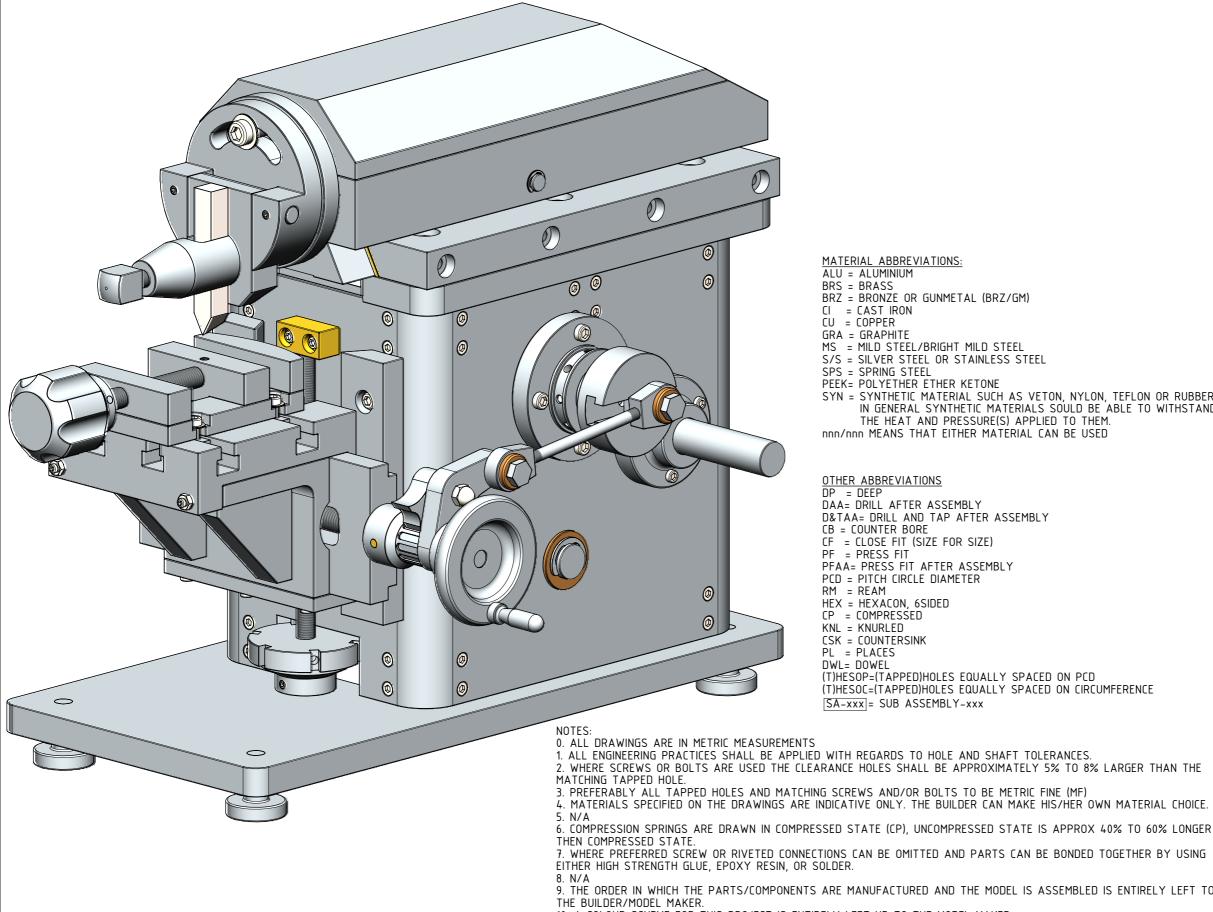
A SIMPLE SMALL METALWORKING SHAPER

GENERAL ARRANGEMENT

JDW DRAUGHTING SERVICES

J.A.M. DE WAAL. 12 BRIGHTWELL STREET PAPAKURA 2110.
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MAY 2018 SHEET: 01 OF 07 A3 No: 01-29-00-SHT01



BRZ = BRONZE OR GUNMETAL (BRZ/GM)

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

DAA= DRILL AFTER ASSEMBLY

D&TAA= DRILL AND TAP AFTER ASSEMBLY

CF = CLOSE FIT (SIZE FOR SIZE)

PFAA= PRESS FIT AFTER ASSEMBLY

PCD = PITCH CIRCLE DIAMETER

(T)HESOP=(TAPPED)HOLES EQUALLY SPACED ON PCD

(T)HESOC=(TAPPED)HOLES EQUALLY SPACED ON CIRCUMFERENCE

SA-xxx = SUB ASSEMBLY-xxx

- 2. WHERE SCREWS OR BOLTS ARE USED THE CLEARANCE HOLES SHALL BE APPROXIMATELY 5% TO 8% LARGER THAN THE

- 7. WHERE PREFERRED SCREW OR RIVETED CONNECTIONS CAN BE OMITTED AND PARTS CAN BE BONDED TOGETHER BY USING
- 9. THE ORDER IN WHICH THE PARTS/COMPONENTS ARE MANUFACTURED AND THE MODEL IS ASSEMBLED IS ENTIRELY LEFT TO

- 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 AND/OR SPRINGWASHER 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.

NOTES: FOUND THE ORIGINAL DRAWINGS ON THE INTERNET. THE ORIGINAL DESIGN IS BY BARRY MIDGRLEY OF AUSTRALIA AND DRAFTING WORK BY BRIAN RUPNO OF CANADA. MY DESIGN IS TWICE THE SIZE THAN THE ORIGINAL

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ADDITIONAL NOTES:

GREASE NIPPLES AND/OR OILS HOLES CAN BE ADDED AT

THE APPROPRIATE PLACES CHOSEN BY THE BUILDER

ISOMETRIC VIEW, NOTES, BILL OF MATERIALS

JDW DRAUGHTING SERVICES I.A.M. DE WAAL. 12 BRIGHTWELL STREET PAPAKURA 2110. NEW ZEALAND. PHONE: 0064 09 2988815. MOB: 0211791000

MODEL SCALE: 1:1 I*JDWDS* I DWG SCALE: 1:1 @A3 OR AS SHOWN MAY 2018 Copyright © J.A.M. DE WAAL PAPAKURA NZ SHEET: 02 OF 07 A3 No: 01-29-00-SHT02

PROJECT No 01-29-00

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2 SHAPER-M12 WASHER

1 SHAPER-1-01-BASE PLATE
4 SHAPER-1-02-BASE PLATE FOOT
1 SHAPER-1-03-COLUMN BODY

1 SHAPER-1-04-TOP MOUNTING PLATE
1 SHAPER-1-05-RAM GUIDE PLATE
1 SHAPER-1-05-RAM GUIDE PLATE
1 SHAPER-1-06-RAM GUIDE GIB STRIP

SHAPER-1-UB-RAM QUIDE GIB STRIP
SHAPER-1-06-RAM GUIDE GIB STRIP
SHAPER-1-07-WORKTABLE GUIDE PLATE
SHAPER-1-08-JACK SCREW TOP BEARING
SHAPER-1-09-OSCILLATING LEVER BEARING BUSH
SHAPER-1-10-MOTOR SHAFT BEARING BUSH
SHAPER-1-11-MOTOR SHAFT BALL BEARING HOUSING

1 SHAPER-2-02-MOVABLE DOVE TAIL MOUNTING PLATE
1 SHAPER-2-01-VERTICAL JACK SCREW
1 SHAPER-2-02-MOVABLE DOVE TAIL MOUNTING PLATE
1 SHAPER-2-03-SPACER BLOCK

SHAPER-3-02-OSCILLATING LEVER TOP SHAFT
SHAPER-3-03-CLAPPER BOX HOLDER

1 SHAPER-4-01-OSCILLATING LEVER LOWER SHAFT
1 SHAPER-4-02-OSCILLATING LEVER
1 SHAPER-4-03-DRIVE SHAFT

SHAPER-4-08-SPACER RING
SHAPER-4-09-IDLER SHAFT GEAR WHEEL
SHAPER-4-10-IDLER SHAFT GEAR WHEEL COVER
SHAPER-4-11-RAM LENGTH ADJUSTER BLOCK
SHAPER-4-12-ADJUSTER BLOCK SCREW

1 SHAPER-4-12-ADJUSTER BLUCK SCREW
1 SHAPER-4-13-ADJUSTER PIVOT AXLE NUT
1 SHAPER-4-14-0SCILLATING SLIDE BLOCK COVER
1 SHAPER-4-15-OSCILLATING SLIDE BLOCK
1 SHAPER-4-16-CROSS CUT ADJUSTER T-NUT
1 SHAPER-4-17-CROSS CUT ADJUSTER ROCKING PLATE
1 SHAPER-4-18-CROSS CUT ADJUSTER PAWL

SHAPER-4-04-DRIVE SHAFT GEAR WHEEL

1 SHAPER-4-05-IDLING SHAFT
1 SHAPER-4-06-LOCKING RING
1 SHAPER-4-07-CROSS CUT ADJUSTER DISC

SHAPER-4-19-ADJUSTER CON-ROD

1 SHAPER-M6x10 A-K GRUB SCREW

SHAPER-M6x16 A-K GRUB SCREW 4 SHAPER-M6x20 A-K C-SINK SCREW
8 SHAPER-M6x24 A-K CYL HEAD SCREW

SHAPER-M6x24 A-K GRUB SCREW 50 SHAPER-M6x26 A-K C-SINK SCREW

SHAPER-M6x30 A-K GRUB SCREW 3 SHAPER-M6x40 A-K GRUB SCREW 1 SHAPER-M6x54 A-K GRUB SCREW

1 SHAPER-M8 DOME NUT
4 SHAPER-M8 WASHER
2 SHAPER-M8×10 A-K CYL HEAD SCREW
4 SHAPER-M8×20 A-K CYL HEAD SCREW

8 SHAPER-M8x24 A-K CYL HEAD SCREW 10 SHAPER-M8x26 A-K CYL HEAD SCREW

8 SHAPER-M8x40 A-K GRUB SCREW
1 SHAPER-M10x20 A-K C-SINK SCREW
1 SHAPER-M10x30 A-K CYL HEAD SCREW

4 SHAPER-M10x40 A-K CYL HEAD SCREW 1 SHAPER-M10x46 A-K CYL HEAD SCREW

3 SHAPER-M12x44 A-K CYL HEAD SCREW

SHAPER-M10x56 A-K CYL HEAD SCREW SHAPER-M10x70 A-K CYL HEAD SCREW

SHAPER-M6 NUT

SHAPER-M4x30 A-K C-SINK SCREW
SHAPER-M5x12 A-K C-SINK SCREW
SHAPER-M5x16 A-K CYL HEAD SCREW
SHAPER-M5x16 A-K GRUB SCREW
SHAPER-M5x16 A-K GRUB SCREW

1 SHAPER-2-04-CROSS SLIDE GUIDE PLATE
1 SHAPER-2-05-CROSS SLIDE BLOCK
1 SHAPER-2-06-CROSS SLIDE SPINDLE
1 SHAPER-2-07-WORK PLATFORM SUPPORT
1 SHAPER-2-08-WORK PLATFORM PLATE

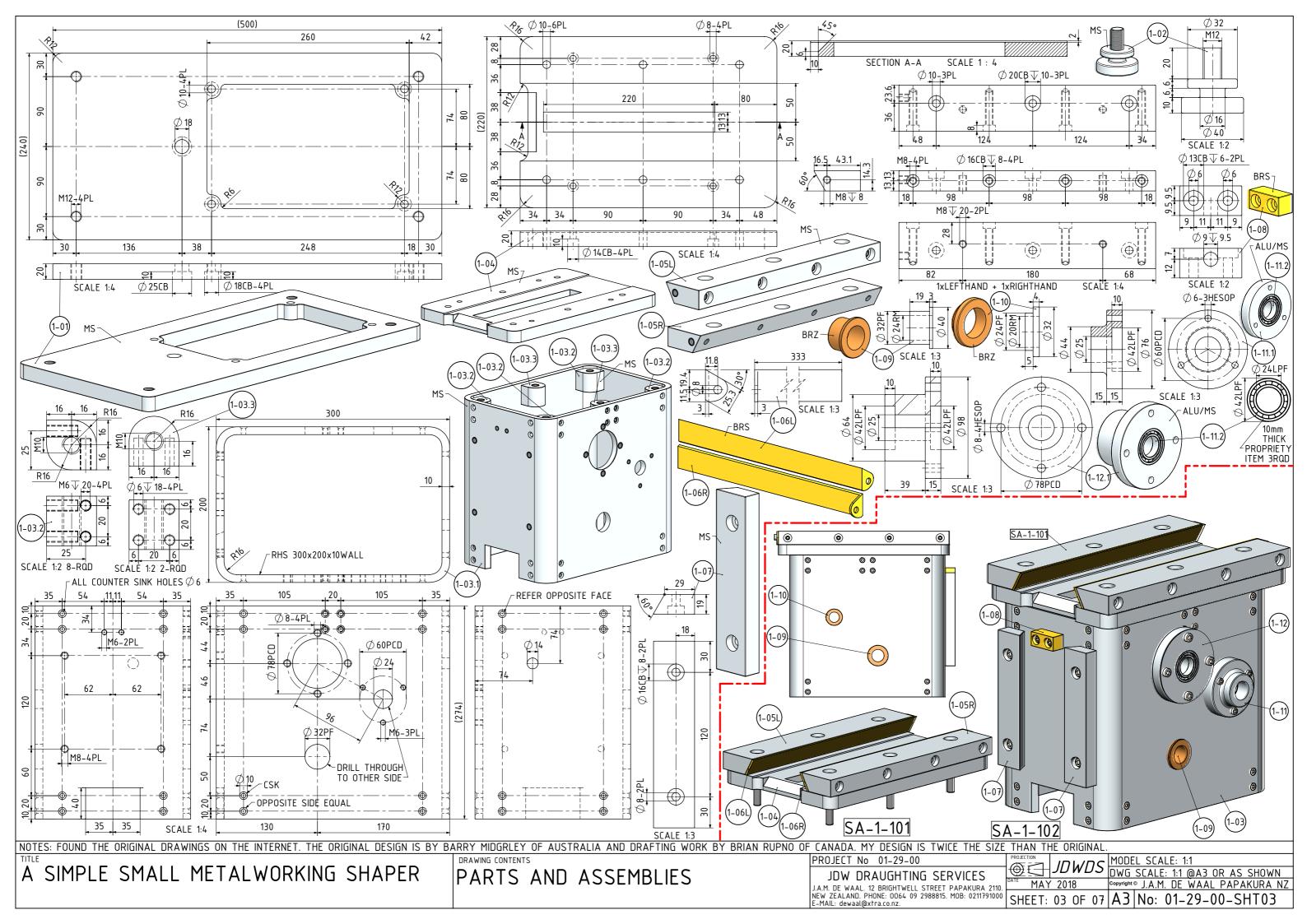
SHAPER-2-09-VICE BASE PLATE SHAPER-2-10-VICE MOVABLE JAW

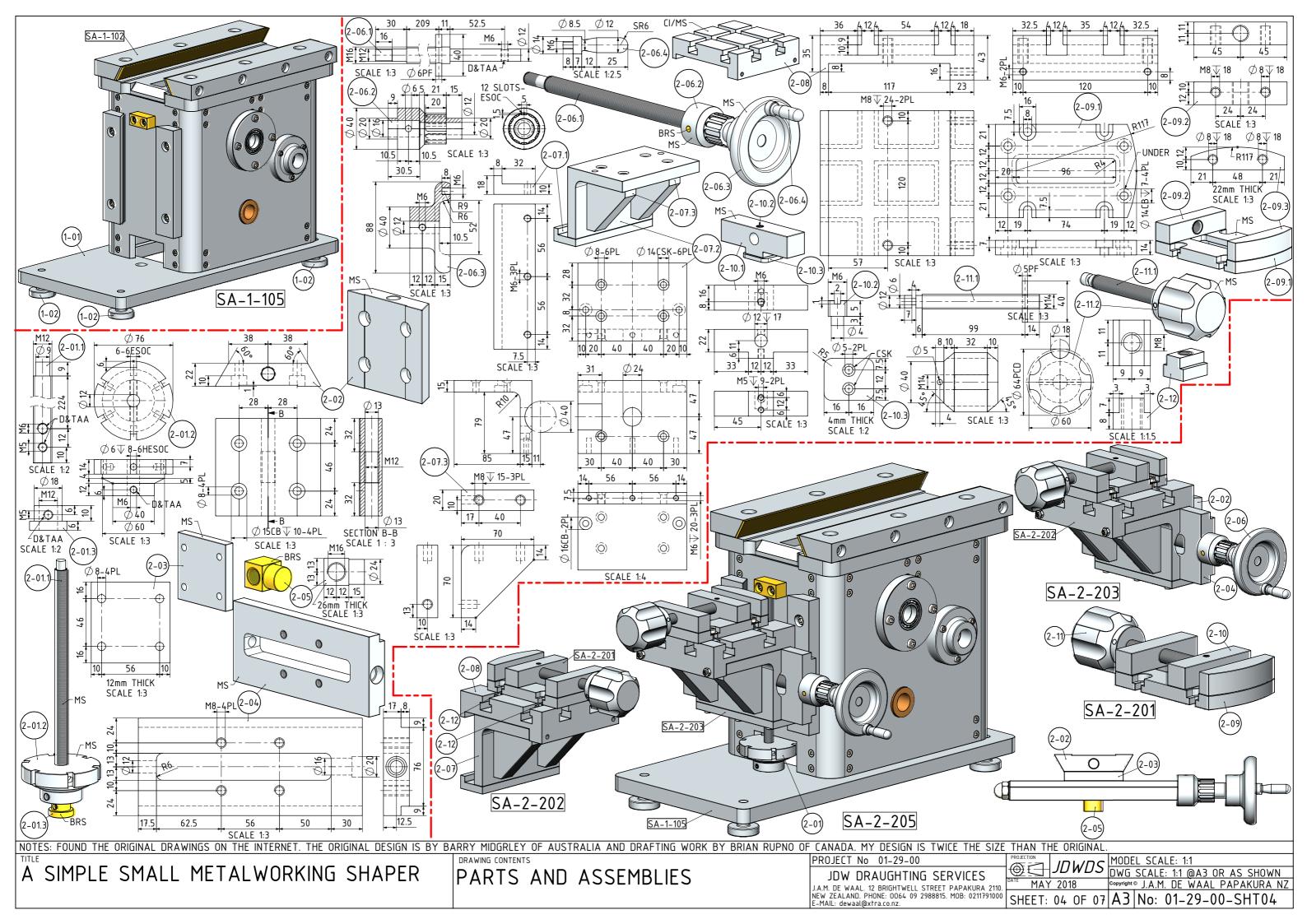
SHAPER-2-11-VICE SCREW SPINDLE

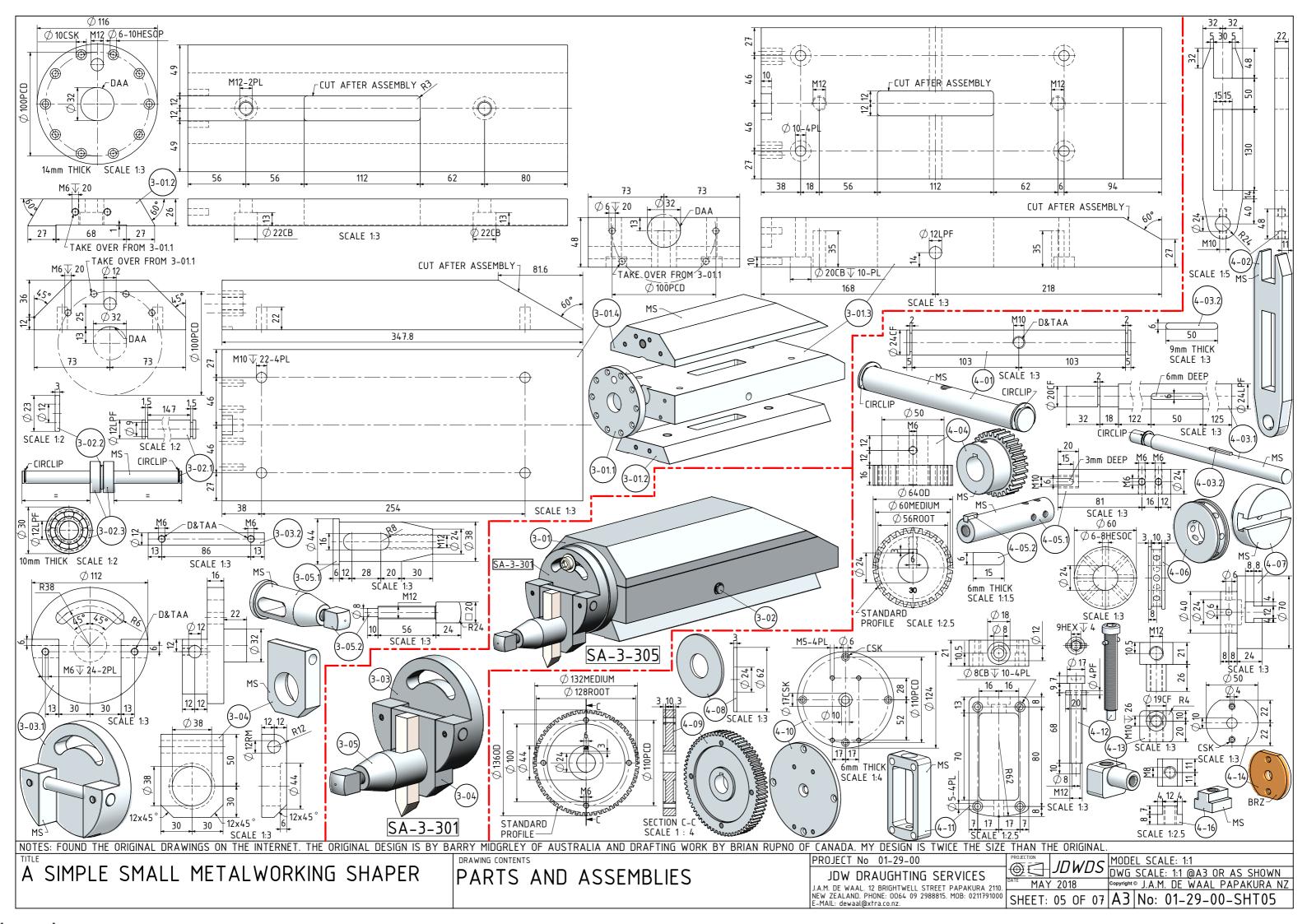
4 SHAPER-2-12-VICE T-NUT 1 SHAPER-3-01-RAM

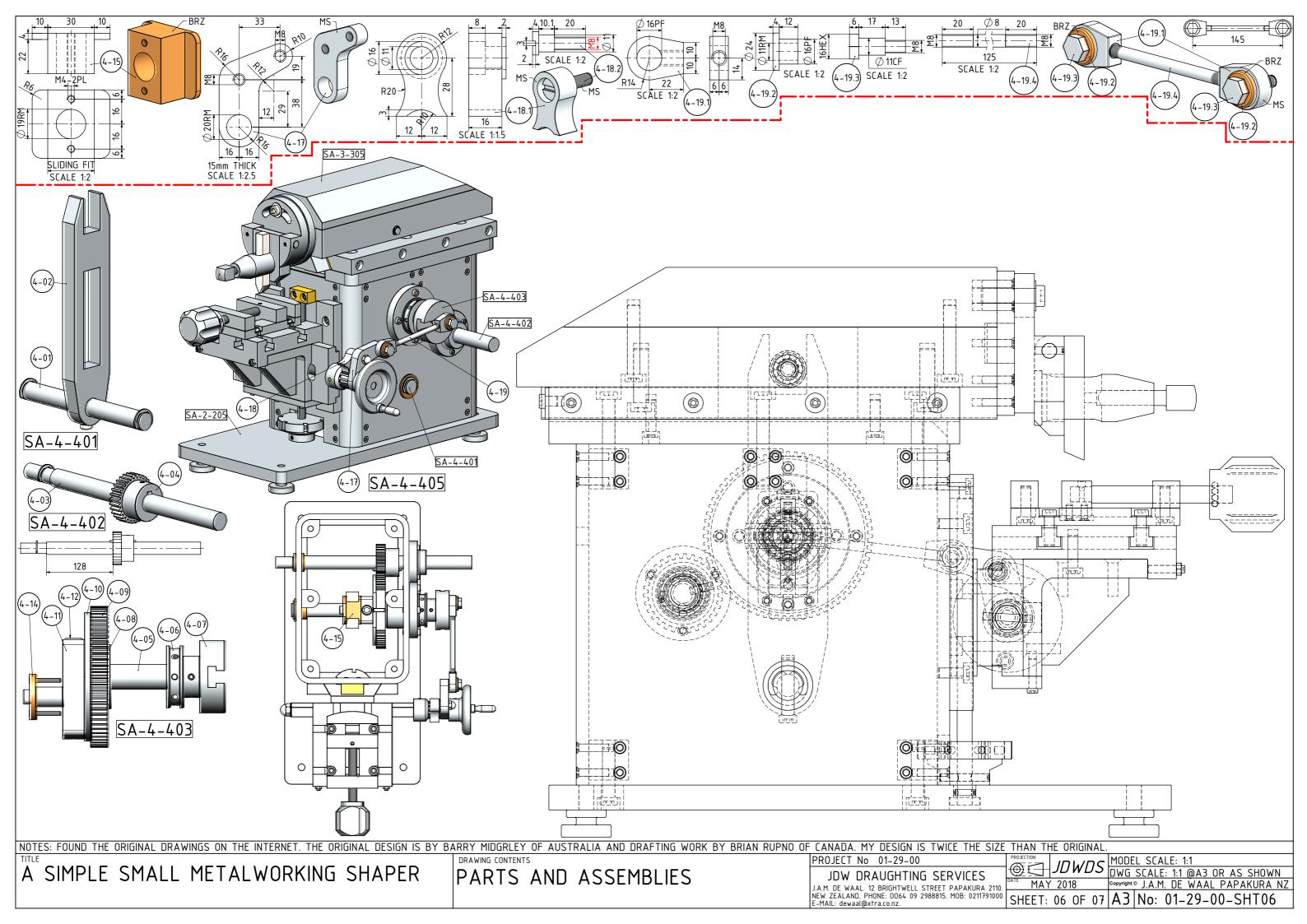
SHAPER-3-04-CLAPPERBOX

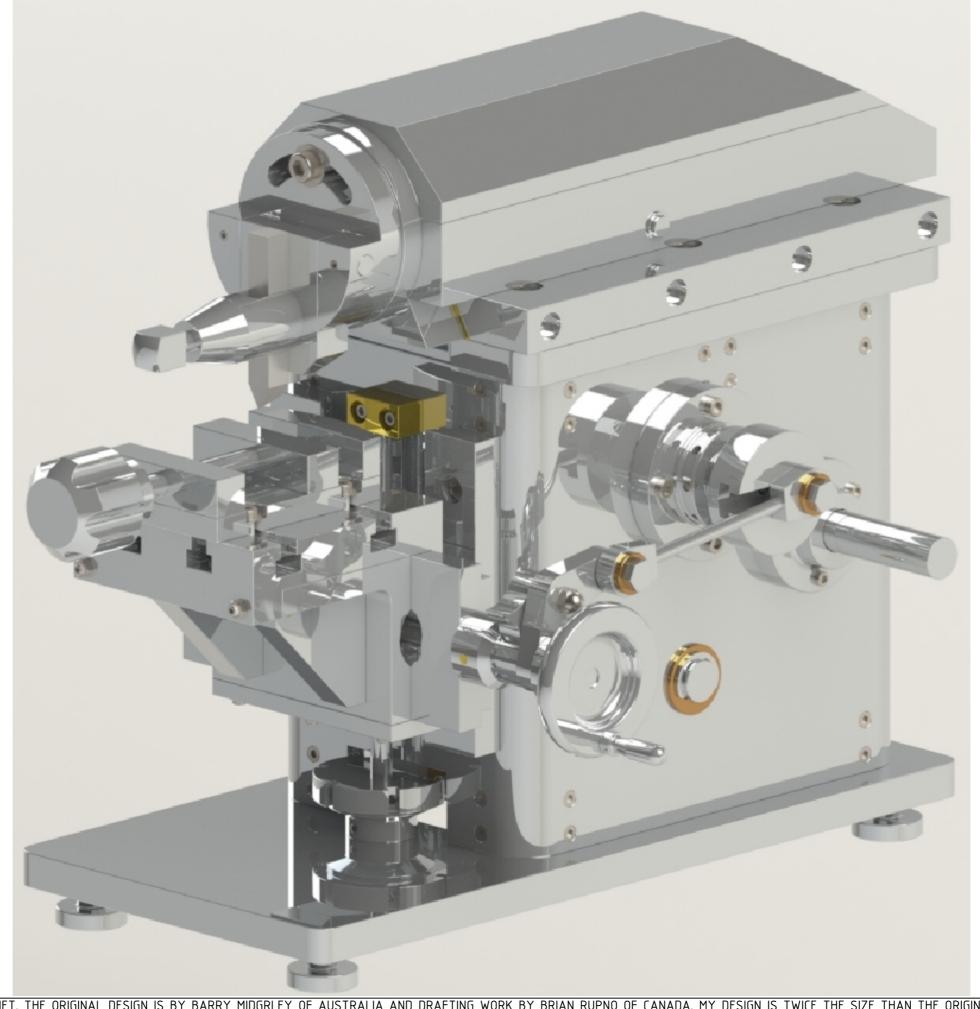
1 SHAPER-3-05-TOOL HOLDER 1 SHAPER-3-06-CUTTING TOOL











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| DRAWING CONTENTS | PROJECT No 01-29-00 | P

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RENDERED PICTURE

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SHEET: 07 OF 07 A3 No: 01–29–00–SHT07