

KEY → ELEMENT + DESCRIPTION = MANUFACTURING METHOD =

CUT (WITH COLD SAW TO LENGTH),
FINISHED (FOR END POINT)

→ 20x5mm M/S FLAT BAR
@ 100mm (CUT AT 10° BOTH ENDS)

FORGING (HEATED WITH OXY-ACETYLENE TORCH, BENT TO 90° ANGLE), CUT (WITH COLD SAW TO SPLIT INTO 2 MAIN BODIES), QUENCHING
 \ (TO HARDEN IN FINAL SHAPE

20 x 5mm M/S FLAT BAR @
1500mm (SHARED BETWEEN 2
PEOPLE)

30 x 5mm / S FLAT BAR @
120mm (CUT AT 10° BOTH ENDS)
(INSIDE HANDLE) 

CUT (WITH COLD SAW TO LENGTH),
FINISHED (FOR END POINT)

3D PRINTED ERGONOMICALLY
DESIGNED HANDLE

ADDITIVE MANUFACTURING
(3D PRINTING)

A yellow 3D printed handle with a rectangular slot in the center. The handle has a textured surface and is shown from a slightly elevated perspective.

M8 WINGNUT

M8 THREADED ROD @
50mm

CUT (WITH COLD SAW TO 50mm), SHAPE (WITH HACKSAW TO FLATTEN SECTION), DRILLING AND TAPPING (CENTRE PUNCH, DRILL 3.5mm HOLE, TAPPED M4 THREAD)

HACKSAW BLADE (SUPPLIED)

2 QTY M4 x 15mm PAN
HEAD SCREWS

Ø8mm M/S ROUND BAR @ 50mm
CUT (WITH COLD SAW TO LENGTH), SHAPE (WITH HACKSAW TO FLATTEN SECTION), DRILLING & TAPPING (CENTRE PUNCH, DRILL 3.5mm HOLE, TAPPED M4 THREAD)

Ø15mm M/S ROUND BAR @ 25mm

CUT (COLD SAW TO 25mm), TURNING (LATHE FACING TO 20mm LENGTH), DRILLING (8mm THROUGH HOLE, DRILLED IN THE CENTRE)

HACKSAW INFOGRAPHIC POSTER

KIERA WALKERDEN TECH206

A1: METAL DESIGN PROJECT