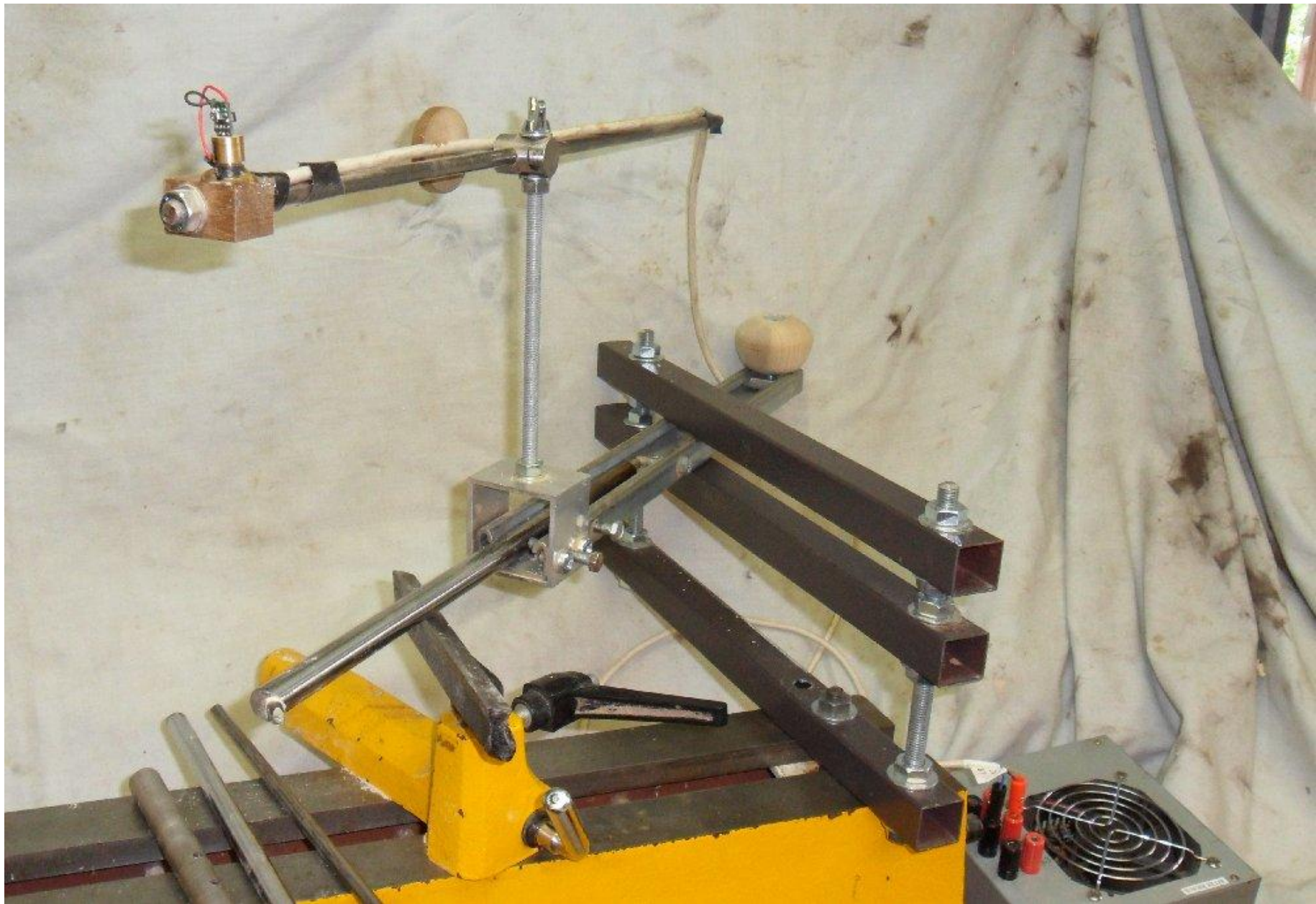


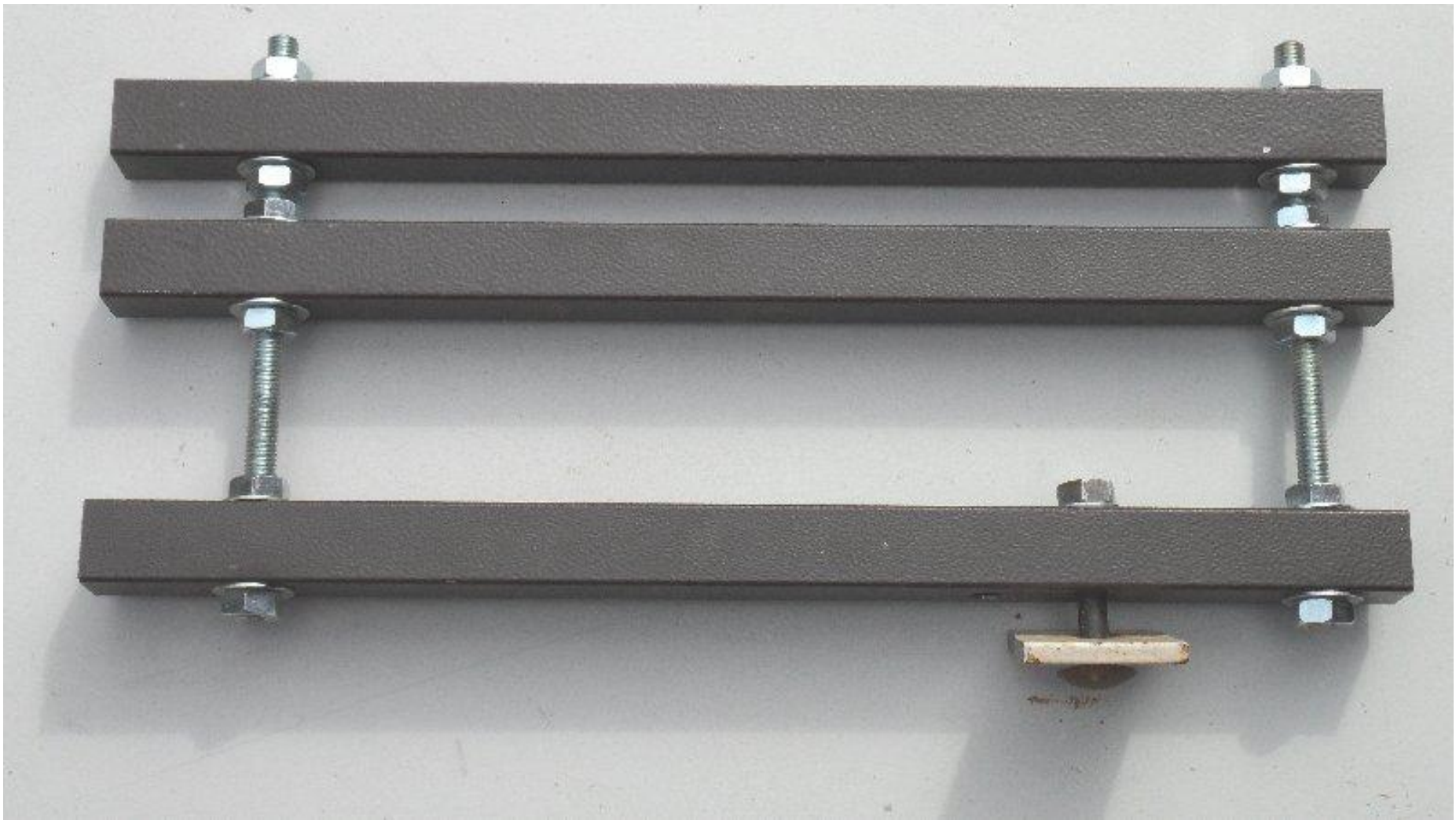
Hollowing Rig

- Home made captive tool and laser hollowing rig.

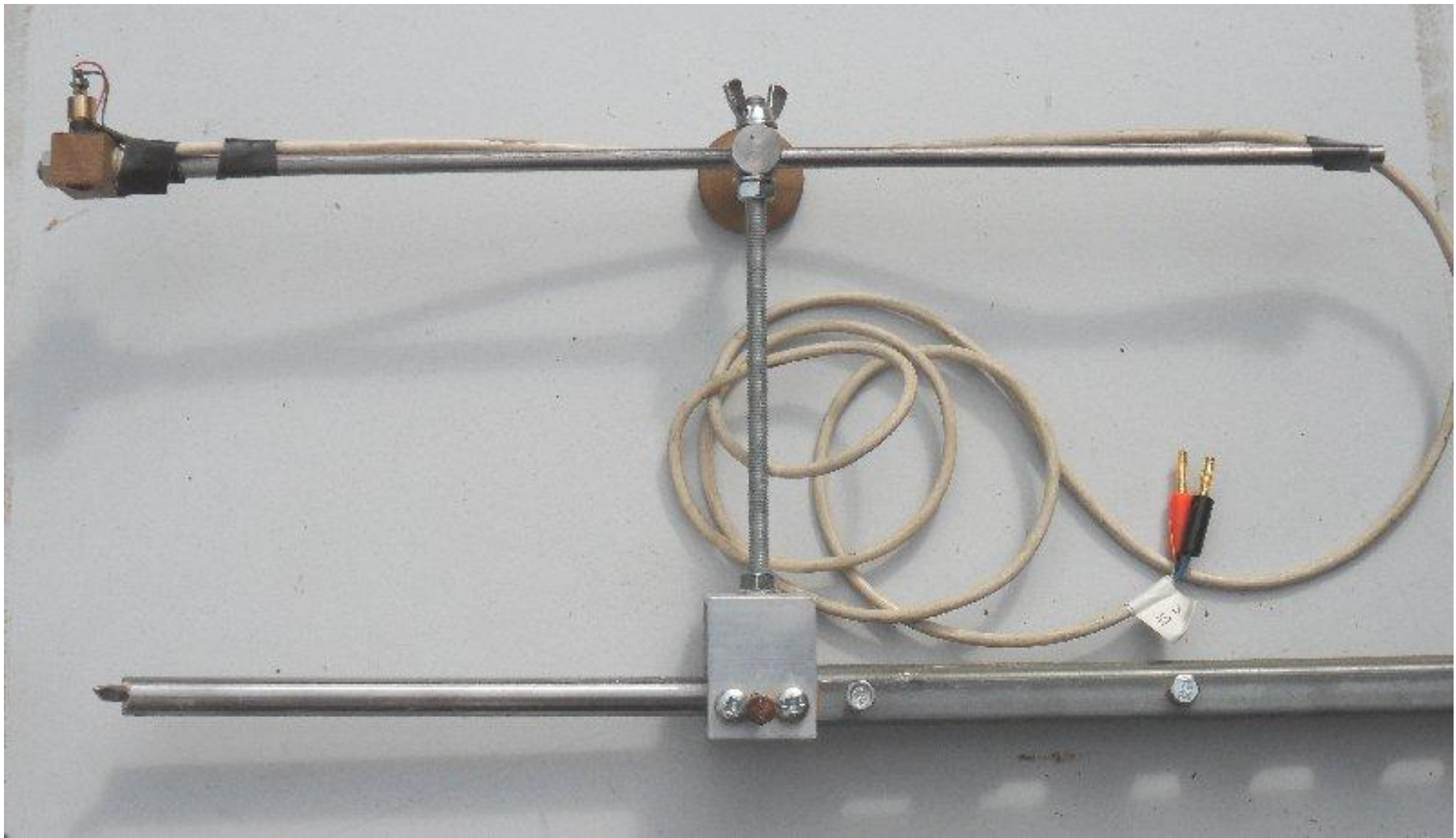
Bill Riley June 2011



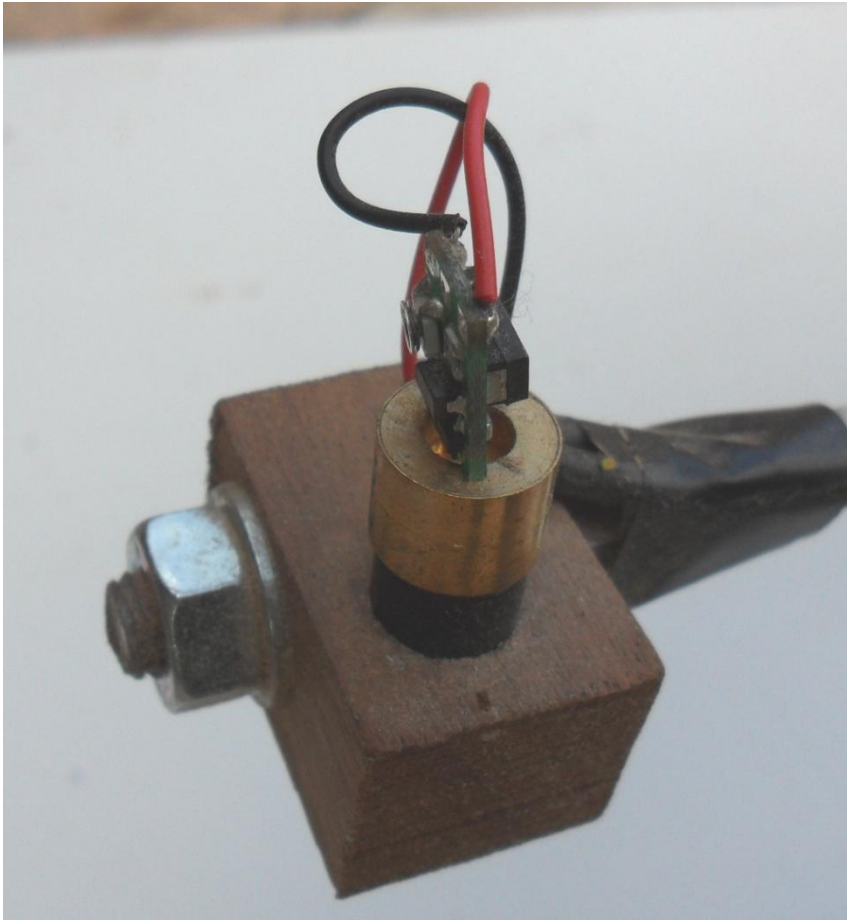
Rig in position on lathe



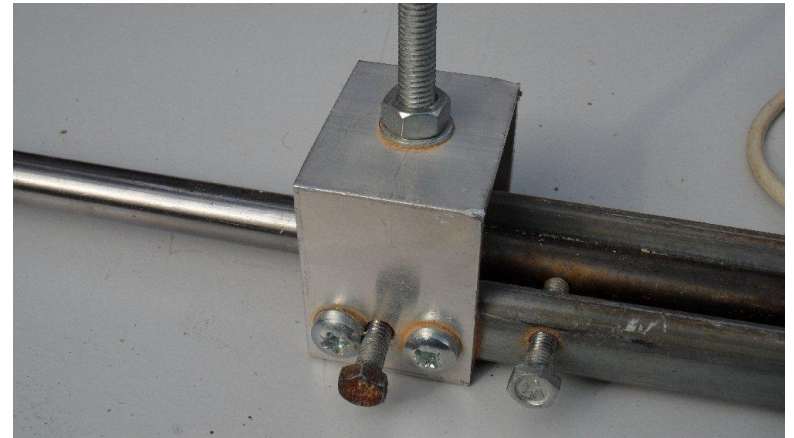
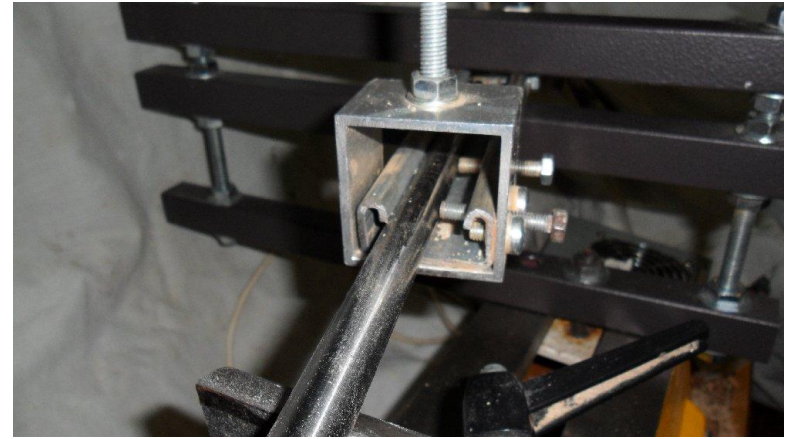
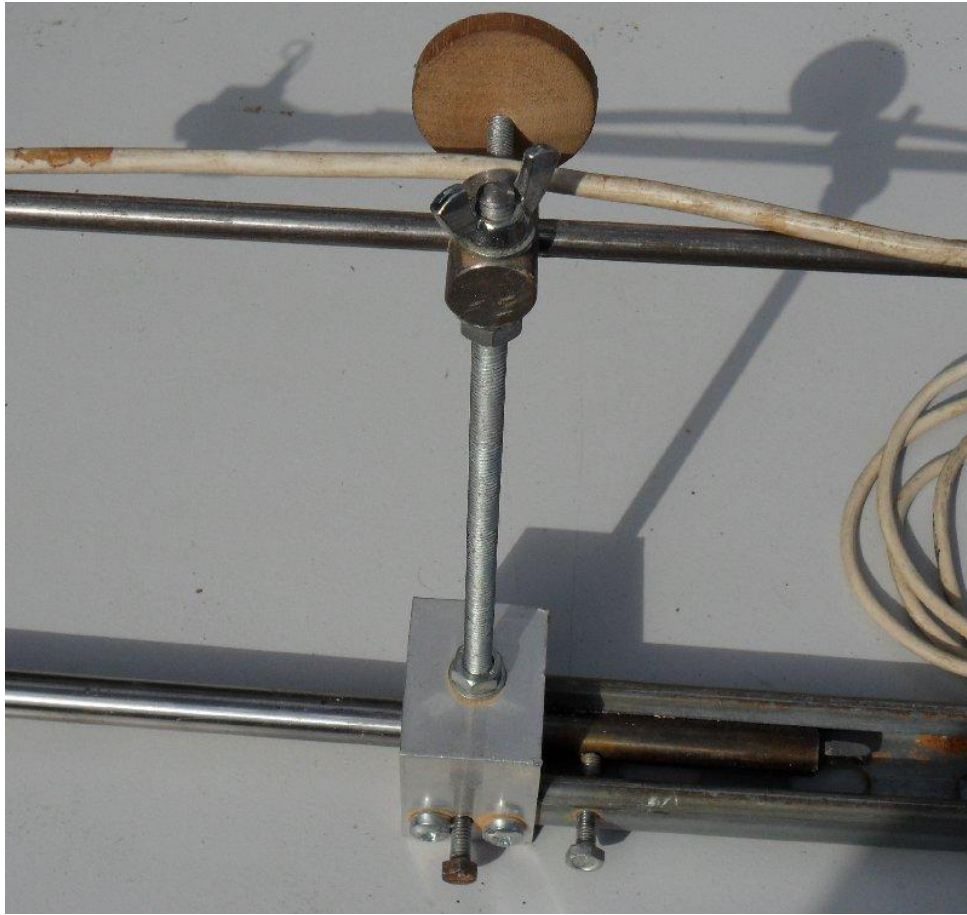
Gate assembly



Tool, slide and laser support



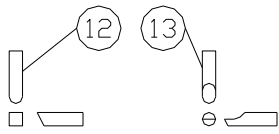
Laser head



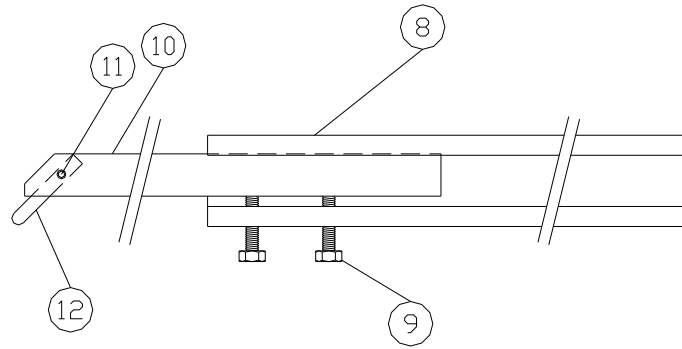
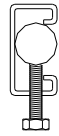
Laser arm support pillar



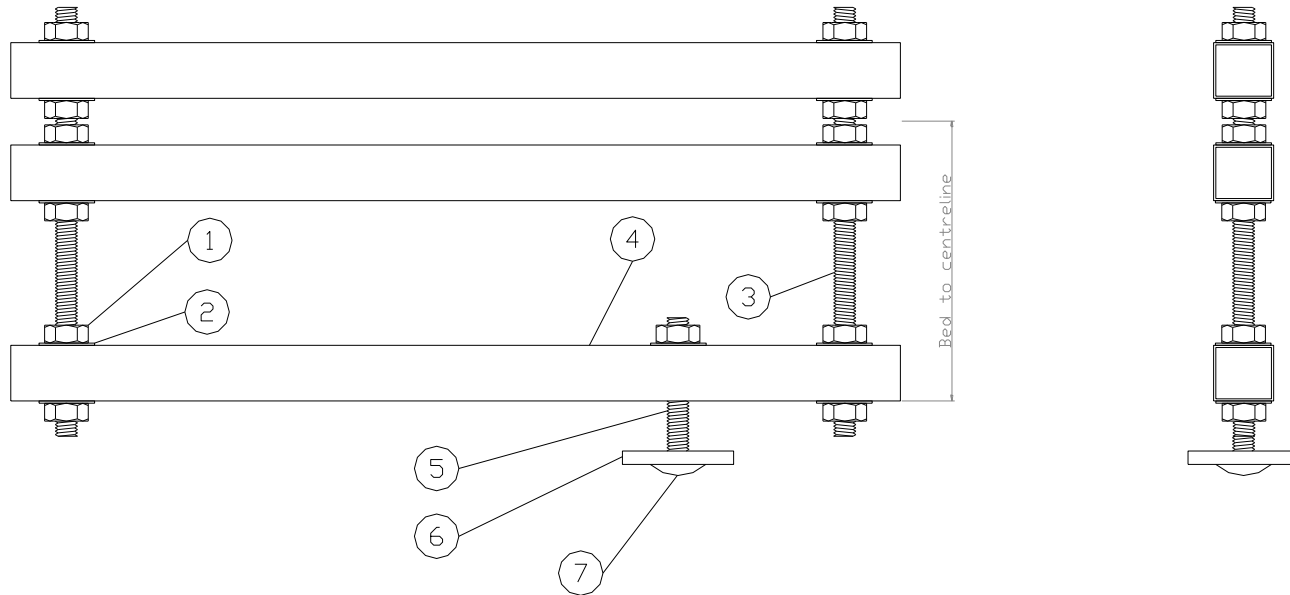
Tool tip detail



TOOL TIPS

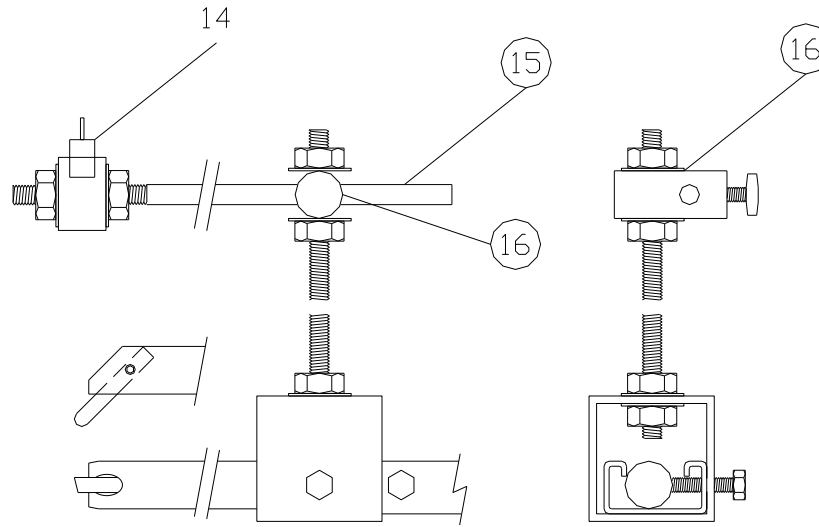


SLIDING BAR & TOOL

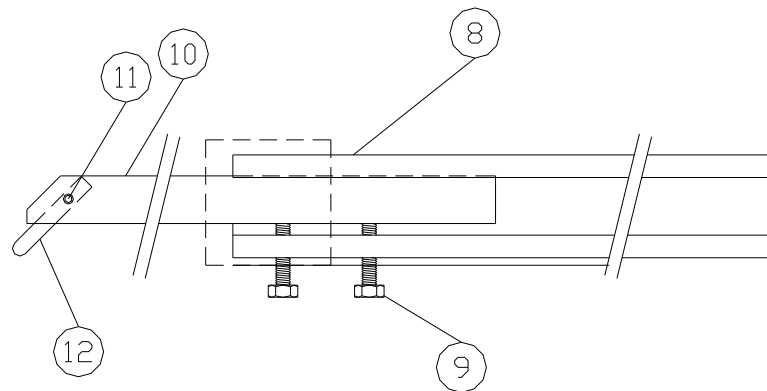


GATE ASSEMBLY

Rig Drawing



LASER SUPPORT ARM



SLIDING BAR & TOOL

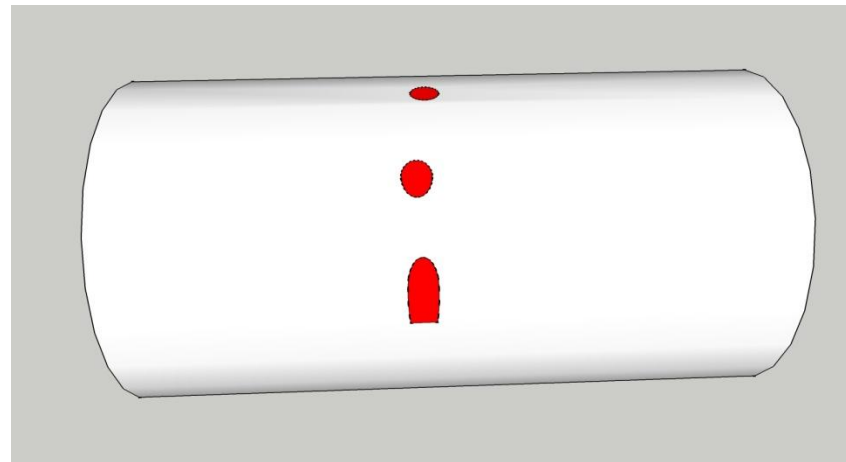
Laser Arm Drawing

1	Hex Nut 10mm	9	Set Screw M6x40mm
2	Washer 10mm	10	Steel Bar, 19mm
3	Studding 10mm	11	Grub Screw, m4Hex x 4mm
4	Box Section Steel Tubing 25mm sq.	12	Tool Tip, NiCr tool steel, 6mmx6mm
5	Coach Bolt 10mm	13	Tool Tip, NiCr tool steel, 6mm diam
6	Lathe Ways Locking Plate	14	Laser
7	Coach Bolt 10mm	15	Steel Rod, 8mm
8	Unistrut 21mmx41mm	16	Laser Adjustment Bracket

Key to Drawings



Lyle Jamieson Boring Bar System



Laser dot changing profile

Parts List

Qty	Description	Unit £	Part No	Supplier
1	Large Flat Washers BZP M10 (10)	£0.72	14327	Screwfix
1	Large Flat Washers BZP M8 (10)	£0.66	18383	Screwfix
1	Hex Nuts BZP M10 (100)	£3.59	19879	Screwfix
1	Hex Nuts BZP M8 (100)	£1.85	1NUT08	CMS
1	Steel Threaded Rods M10 x 300mm (5)	£4.58	22257	Screwfix
1	Set Screws BZP M6 x 50mm (100)	£4.66	19757	Screwfix
1	Laser Module 0.7-0.99 mW 5V	£12.99	LE07H	Maplins
1	Supply, 4.5V 400mA	£9.99	MG77J	Maplins
1	Steel Bar EN1A 330mm (10, 15 & 19mm Diam)	£11.83	951678	Axminster
1	Tool Steel, NiCr 3/16" Square x 3"	£1.80	900366	Axminster
1	Tool Steel, NiCr 1/4" Square x 3"	£2.99	900362	Axminster
1	Channel Support (Unistrut) 41x21mmx3m Slotted	£14.38	CMS306	CMS
1	Steel Threaded Rod, M8 xc 1000mm	£7.44	43386	Screwfix
1	Set Screws BZP m6 x 50mm (100)	£5.13	19757	Screwfix
1	Wing Nuts BZP M8 (10)	£1.85	18875	Screwfix
1	Grub Screw 4mmx4mm Hex 1.5mm Head (5)	£1.99		E-Bay

Suppliers

Axminster Power Tool Centre

Cressex Business Park,

High Wycombe

HP12 3FF

<http://www.axminster.co.uk>

CMS (Cable Management Supplies) Ltd

Unit 4 Hawley Lane Industrial Estate

Hawley Lane

Farnborough

Hants

GU14 8EH

<http://www.cableman.co.uk>

Maplin

Unit 8

Solartron Park

Solartron Road

Farnborough

GU14 7QJ

<http://www.maplin.co.uk/>

Screwfix Farnborough

42 Invinible RD

Farnborough

Hampshire

GU14 7QU

<http://www.screwfix.com>