



No.	Qty	Description	Material
1	1	Half Beam Base Plate	Steel
2	4	Base Plate Legs	Steel
3	1	Half Beam End Support	Steel
4	1	Beam Flywheel	Steel
5	1	Single Cylinder Crank	Steel
6	1	Con Rod Bearing Keep	Steel
7	1	Beam Connecting Rod	Stainless Steel
8	2	Con Rod Bearing Halves	Bronze
9	1	Half Beam Cylinder	Brass
10	1	Half Beam Shaft	Brass
11	1	Half Beam Piston Shaft Connector	Steel
12	1	Eccentric Wheel	Steel
13	1	Eccentric Wheel Plate	Steel
14	1	Eccentric Rod	Brass
15	1	Valve	Stainless Steel
16	1	Beam Valve Pin	Stainless Steel
17	1	Beam Chest	Brass
18	2	Inlet/Outlet Pipe	Brass
19	1	Elbow	Brass
20	1	Beam Outlet Pipe	Brass
21	1	Packing Nut	Brass
22	1	Cylinder Plate End	Brass
23	1	Piston	Brass
24	1	Half Beam Piston Shaft	Stainless Steel
25	2	Piston Ring	Teflon
26	1	Cylinder Plate Inner	Brass
27	3	Main Bearing Upper	Bronze
28	3	Main Bearing Lower	Bronze
29	6	Pivot Screw	Stainless Steel
30	1	Pulley Wheel (Optional)	Steel or Brass
31	2	Eccentric Lever Shaft	Stainless Steel
32	3	Eccentric Lever	Stainless Steel
33	4	Eccentric Lever Shaft Bearing	Steel
34	2	Eccentric Valve Link	Stainless Steel
35	2	Half Beam A Frame	Steel
36	1	Half Beam A Frame Base	Steel
37	2	Half Beam A Frame Lever	Steel
38	1	Half Beam A Frame Brace	Stainless Steel
39	4	Threaded Rod M3 x 55mm	Stainless Steel
40	14	Cap Screw M3 x various	Stainless Steel
41	20	M3 Nut	Stainless Steel
42	13	Cap Screw M2 x various	Stainless Steel
43	15	M2 Nut	Stainless Steel
44	2	Counter Sunk Screw M3	Stainless Steel
45	5	M3 Grub/Setscrew x various	Stainless Steel
46	4	Cap Screw M5 x 15mm	Stainless Steel

Drawn By: Simon Rowley	Checked By:	File Name: Single Cyl Half Beam Ass Drw	Date: Aug 2020	Scale: N/A
Copyright: Chiltern Model Steam		Part: Single Cylinder Grasshopper/Half Beam Engine Assembly Drawing		
Material: N/A		Rev: 1.0	Part: N/A	