



		PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL	MASS
1	1	Crankcase		Aluminum-6061	0,533 kg
2	6	Cylinder		Aluminum-6061	0,191 kg
3	6	Cylinder Head Gasket		Rubber	0,001 kg
4	6	Cylinder Head		Aluminum-6061	0,038 kg
5	24	Cylinder Head Bolt		Stainless Steel	0,019 kg
6	6	Assembly Piston			0,046 kg
7	6	Connecting Rod		Aluminum-6061	0,008 kg
8	1	Assembly Crankshaft			0,415 kg
9	1	Connecting Rod Hub		Brass, Soft Yellow	0,075 kg
10	1	Crankcase Cover		Aluminum-6061	0,197 kg
11	1	Crankcase Gasket		Rubber	0,003 kg
12	1	Flywheel		Stainless Steel	1,863 kg
13	1	Valve		Brass, Soft Yellow	0,100 kg
14	1	Valve Housing		Aluminum-6061	0,226 kg
15	1	Stand		Wood (Oak)	4,734 kg
16	1	Bearing Holder		Aluminum-6061	0,426 kg
17	1	Bearing Stand		Aluminum-6061	0,666 kg
18	1	DIN 472 - 28x1,2	Retaining rings for bores	Steel, Mild	0,001 kg
19	3	DIN 625 SKF - SKF 6001	Single row ball bearings	Steel, Mild	0,021 kg
20	24	DIN 1587 - M6	Hexagon Domed Cap Nuts	Steel, Mild	0,005 kg
21	6	ISO 2338 - 5 h8 x 16	Parallel Pin	Stainless Steel, Austenitic	0,003 kg
22	6	ISO 4762 - M6 x 45	Hexagon Socket Head Cap Screw	Stainless Steel, 440C	0,013 kg
23	4	ISO 4762 - M10 x 25	Hexagon Socket Head Cap Screw	Stainless Steel, 440C	0,028 kg
24	6	ISO 7045 - M6 x 16 - 4.8 - H	Cross Recessed Pan Head Machine Screw	Stainless Steel, 440C	0,006 kg
25	1	Parker Hose Barb to Male Pipe 125HBL 125HBL-4-2	Hose Barb to Male Pipe	Brass, Soft Yellow	0,027 lbmass
26	1	ISO 4028 - M5 x 8	Hexagon socket set screws with dog point	Stainless Steel, 440C	0,001 kg
27	1	Silencer M8		Brass, Soft Yellow	0,020 kg

Revision	Date	Description

Engineered by: Galba, J.	Name: Galba, J.	Date: 26/03/2011	Scale: 1:2	
Approved: Galba, J.	Date: 26/03/2011	SheetSize: A2		

Project: Miniature Model Engine	Material: Total Mass: 11,850 kg
------------------------------------	------------------------------------

Title: 6 Cylinder - Radial Engine (Pneumatic) Assembly	
Drawingnumber:	Sheet: 0001
Design State: Released	Drawing made with Autodesk Inventor Revisions only permitted by CAD

Corresponding symbols		▽	▽	▽▽	▽▽	▽▽▽	▽▽▽											
Roughness Classes (NBN 88-02) (ISO 1302)		N11	N10	N9	N8	N7	N6	N5	N4									
Roughness Value "Ra" in µm (NBN 88-02) (ISO 1302)		25	12,5	6,3	3,2	1,6	0,8	0,4	0,2									
Allowable deviations for dimensions without tolerance indication (machined surfaces)																		
Accuracyclass (ISO 2768.1)	For measurements (deviations in mm)							Fillets and chamfers		Angles (in ° and ')								
	0,5	>3	>6	>30	>120	>400	>1000	0,5	>3	>6	>30	>120	to 10	>10	>50	>120	above 400	
f Fine	±0,05	±0,05	±0,1	±0,15	±0,2	±0,3	±0,5	±0,2	±0,5	±1	±2	±4	±1°	±30'	±20'	±10'	±5'	
m Medium	±0,1	±0,1	±0,2	±0,3	±0,5	±0,8	±1,2	±2	±0,2	±0,5	±1	±2	±4	±1°	±30'	±20'	±10'	±5'
c Rough	±0,2	±0,3	±0,5	±0,8	±1,2	±2	±4	±8	±0,4	±1	±2	±4	±8	±1°30'	±1°	±30'	±15'	±10'
v Very Rough	-	±0,5	±1	±1,5	±2,5	±4	±8	±16	±0,4	±1	±2	±4	±8	±3°	±2°	±1°	±30'	±20'

This document is for educational purposes only and property of Inventor Wizard. It shall not be used without our permission be altered, copied, used for manufacturing or communicated to any other person or company.

