

Bill of Material: 7-Cylinder Radial Engine

Quantity	Part Number	Type	Nomenclature	Revision
1	Crank Shaft Assembly	Assembly		
1	Overall Piston Assembly	Assembly		
1	Overall Crank Case Assembly	Assembly		
1	Overall Cylinder Assembly	Assembly		
6	Slave Rod Axle Nut	Part		
6	Slave Rod	Part		
6	Piston Assembly 2	Assembly		
1	Cam Disk Assembly	Assembly		
3	DIN 618 - HK0609 - 6	Part	DIN 618 - HK0609 - 6 x 10 x 9	
3	DIN 6799 - 6 7	Part	DIN 6799 - 6 7	
3	Achse Planetenrad	Part	Achse Planetenrad	
3	Planetary Wheel	Part		
1	Cam Housing Assembly	Assembly		
7	STAB-vorn	Part	STAB-vorn	
7	STAB	Part	STAB	
1	Cone	Part		
1	Disk	Part		
1	Propeller	Part	Propeller	
1	Nose	Part		
7	DIN EN ISO 4762 - M4 x 30	Part	DIN EN ISO 4762 - M4 x 30	

Bill of Material: Crank Shaft Assembly

Quantity	Part Number	Type	Nomenclature	Revision
1	Crank Shaft	Part		
1	Roller Bearing DIN 617 SKF NA 4900 RS1	Part		
1	Master Rod	Part		
1	Cover Disc	Part		
1	Washer(DIN 6799-9)	Part		
2	Nut DIN 920 M3x3	Part		
1	Key	Part		
1	Sun Wheel	Part		
1	Washer(DIN 6799-10)	Part		

Bill of Material: Overall Piston Assembly

Quantity	Part Number	Type	Nomenclature	Revision
1	Piston Assembly	Assembly		

Bill of Material: Piston Assembly

Quantity	Part Number	Type	Nomenclature	Revision
1	Piston	Part		
2	Piston Ring	Part		
2	DIN EN ISO 4029 - M2,5 x 2,5	Part	DIN EN ISO 4029 - M2,5 x 2,5	
1	Piston Shaft	Part		

Bill of Material: Overall Crank Case Assembly

Quantity	Part Number	Type	Nomenclature	Revision
28	DIN EN ISO 4762 - M2,5 x 4	Part		
1	Crank Case Assembly	Assembly		
1	Exhaust Gas Collector	Part		
7	Exhaust Gas Pipe	Part	Exhaust Gas Pipe	
7	Exhaust Gas Seal Buffer	Part	Exhaust Gas Seal Buffer	
7	Buffer Nut	Part	Buffer Nut	
7	Suction Pipe	Part	Suction Pipe	
7	Suction Pipe ring	Part	Suction Pipe ring	
7	Ansaugrohr Überwurfmutter	Part	Ansaugrohr Überwurfmutter	

Bill of Material: Crank Case Assembly

Quantity	Part Number	Type	Nomenclature	Revision
1	Crank Case	Part		
7	Suction Housing Pin	Part		
1	Ball Bearing(DIN 625 T1 - 16003 - 17 x 35 x 8)	Part		
7	DIN EN ISO 4762 - M4 x 6	Part		
1	Mounting ring	Part		
7	Suspension Pin	Part		
7	ISO 10511 - M5	Part		

Bill of Material: Overall Cylinder Assembly

Quantity	Part Number	Type	Nomenclature	Revision
7	Cylinder Assembly	Assembly		

Bill of Material: Cylinder Assembly

Quantity	Part Number	Type	Nomenclature	Revision
1	Cylinder	Part		
1	Cylinder Liner	Part		
1	Cylinder Head Gasket	Part		
1	Cylinder Head	Part		
2	Valve Group	Assembly		
1	Ignition Plug	Part		
1	Spark Plug	Part		
4	Nut ISO 4762 - M4 x 25ISO	Part		
1	Rocker Arm Bracket Cover	Part		
2	Rocker Arm	Part		
1	Rocker Arm Axis	Part		
1	Rocker Arm Bearing Block	Part		
2	Rocker Arm Link	Part		
2	Nut ISO 7046-1 - M3 x 8 - 4,8 - Z - ISO	Part		
2	DIN 6799 - 3,2 4	Part	DIN 6799 - 3,2 4	
1	Spacer Sleeve	Part		
2	ISO 4036 - M5	Part		
1	Cylinder Base Gasket	Part		
2	Flange Gasket	Part		
4	DIN EN ISO 4762 - M4 x 10	Part		

Bill of Material: Valve Group

Quantity	Part Number	Type	Nomenclature	Revision
1	Hold Down Valve Spring	Part		
1	Valve Cup	Part		
1	Valve Spring	Part		
1	Valve	Part		
1	Washer(DIN 6799 - 2,3)	Part		

Bill of Material: Piston Assembly 2

Quantity	Part Number	Type	Nomenclature	Revision
1	Piston	Part		
2	Piston Ring	Part		
1	Piston Shaft	Part		

Bill of Material: Cam Disk Assembly

Quantity	Part Number	Type	Nomenclature	Revision
1	Cam Disk Front	Part		
1	Cam Disk Back	Part		
1	Ball Bearing(DIN 625 T3 - 4202 - 15 x 35 x 14)	Part		
1	Internal Gear	Part		
3	DIN EN ISO 7046-1 - M1,6 x 3 - 4,8 - Z	Part	DIN EN ISO 7046-1 - M1,6 x 3 - 4,8 - Z	

Recapitulation of: 7-Cylinder Radial Engine

Different parts: 75
Total parts: 516

Quantity	Part Number	Number
1	Crank Shaft	
1	Roller Bearing DIN 617 SKF NA 4900 RS1	
1	Master Rod	
1	Cover Disc	
1	Washer(DIN 6799-9)	
2	Nut DIN 920 M3x3	
1	Key	
1	Sun Wheel	
1	Washer(DIN 6799-10)	
7	Piston	
14	Piston Ring	
2	DIN EN ISO 4029 - M2,5 x 2,5	
7	Piston Shaft	
28	DIN EN ISO 4762 - M2,5 x 4	
1	Crank Case	
1	Suction Housing	
7	Suction Housing Pin	
1	Ball Bearing(DIN 625 T1 - 16003 - 17 x 35 x 8)	
7	DIN EN ISO 4762 - M4 x 6	
1	Mounting ring	
7	Suspension Pin	
7	ISO 10511 - M5	
1	Exhaust Gas Collector	
7	Exhaust Gas Pipe	
7	Exhaust Gas Seal Buffer	
7	Buffer Nut	
7	Suction Pipe	
7	Suction Pipe ring	
7	Ansaugrohr Überwurfmutter	
7	Cylinder	
7	Cylinder Liner	
7	Cylinder Head Gasket	
7	Cylinder Head	
14	Hold Down Valve Spring	
14	Valve Cup	
14	Valve Spring	
14	Valve	
14	Washer(DIN 6799 - 2,3)	
7	Ignition Plug	
7	Spark Plug	
28	Nut ISO 4762 - M4 x 25ISO	
7	Rocker Arm Bracket Cover	
14	Rocker Arm	
7	Rocker Arm Axis	
7	Rocker Arm Bearing Block	
14	Rocker Arm Link	
14	Nut ISO 7046-1 - M3 x 8 - 4,8 - Z - ISO	
14	DIN 6799 - 3,2 4	
7	Spacer Sleeve	
14	ISO 4036 - M5	
7	Cylinder Base Gasket	
14	Flange Gasket	
28	DIN EN ISO 4762 - M4 x 10	
6	Slave Rod Axle Nut	
6	Slave Rod	
1	Cam Disk Front	
1	Cam Disk Back	
1	Ball Bearing(DIN 625 T3 - 4202 - 15 x 35 x 14)	
1	Internal Gear	
3	DIN EN ISO 7046-1 - M1,6 x 3 - 4,8 - Z	
3	DIN 618 - HK0609 - 6 x 10 x 9	
3	DIN 6799 - 6 7	
3	Achse Planetenrad	
3	Planetary Wheel	
1	Cam Housing	
1	Ball Bearing(DIN 625 T1 - 6001 - 12 x 28 x 8)	
14	Cam Housing Pin 2	
14	Stoessel bearing bush	

Isometric view

Scale: 1:1

SVS Ventat
08.08.2023
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1:1 1.18 7-Cylinder Radial Engine 1/1

Bill of Materials
Internship Project