TRUCK MASTER SERIES

SECOND GENERATION | G2.0

YEARBOOK

2021

SAMSON PUMPS

Truck Master series

The liquid ring vacuum pumps designed for vacuum trucks and tankers

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SAMSON PUMPS

TRUCK MASTER SERIES

Next generation | G2.0 | 2021

Samson's Truck Master pumps are designed, manufactured and optimized to perfectly match your vacuum trucks.

SAMSON PUMPS

TRUCK MASTER® SERIES

SILENT | CLEAN | PERFORMANCE

NEW! TRUCK MASTER 1700

We are very proud to present our latest development, the Truck Master 1700. In our humble opinion – the perfect pump for a 4" vacuum truck.

Daniel Hategan

Mechanical engineer and eight years' experience with liquid ring pumps in Samson Pumps R&D dept.

ONLY 63 dB

NO LIGHT METAL

Truck Master 3400 G 2.0

A very strong liquid ring pump produced in cast iron and stainless steel. The pump is developed to operate in 6" hoses and will give the operator an experience of superior performance.

Vacuum: 87 %
Noise level (7m): 64 dB
Air flow 6" hose: 47 m/s

Optimum HPR rotor
Stainless steel AISI 316

ATEX approved for:
Zone 0: II 1G Ex h IIC T4 Ga
Zone 1: II 2G Ex h IIC T4 Gb

6" HOSES

TRUCK MASTER SERIES

Let us help you get started

Please don't hesitate to contact us for any kind of information or request for support. Our team of engineers is ready to help you out. To ensure a stable and satisfying performance we always recommend installing a hydraulic fan cooler in the water system. We can help you dimension the cooler, or assist in other design issues related to your truck design. Your success is our success.

The pump can be driven by belt or hydraulic motor, please remember that we offer all our pumps as ready as the customer demands. For example, equipped with hydraulic motor and the necessary valves. Another mandatory recommendation is to equip your pump with our Vacuum Control Valve that will help you protect the pump against cavitation.

Truck Master 3400 is a very strong pump made in durable materials, cast iron and stainless steel. It will withstand the harshest working conditions it is exposed to.

TRUCK MASTER 3400 G2.0

+ Industrial cleaning
+ Sewerage system cleaning
+ Septic cleaning
+ Excavation up to 6"

SPECIFICATIONS

Bearing cover	Cast iron	EN-GJL-250; EN 1561
Radial shaft seal	Rubber	Type NBR; DIN 3760A
Paper gasket	Paper	Oil resistant gasket
Bearing housing	Cast iron	EN-GJL-250; EN 1561
Mechanical shaft seal	NBR/AISI 316/ SiC/Carbon	
Pump housing	Cast iron	EN-GJL-250; EN 1561
Flow plate	Cast iron	EN-GJL-250; EN 1561
Flow plate (Ex model)	Bronze	CC480K; EN 1982
Rubber gasket	Rubber	NBR
Shell	Cast iron	EN-GJL-250; EN 1561
Rotor	Stainless steel	Optimum High Performance

WATER CONSUMPTION L/H

Metric	Water temperature 20°C	30°C	40°C	50°C	55°C
50% vacuum	32	50	86	140	220
70% vacuum	17	22	43	75	124
80% vacuum	12	20	34	56	88

WATER CONSUMPTION US GALLON/H

US	Water temperature 68°F	86°F	104°F	122°F	131°F
50% vacuum	9	13	23	37	58
70% vacuum	4	6	11	20	33
80% vacuum	3	5	9	15	23

VACUUM

Metric	m3/h	kW	Nm
1400 RPM	3415	108	737
1300 RPM	3347	92	676
1200 RPM	3078	77	613
1100 RPM	2839	64	556

US	CFM	HP	lbs * ft
1400 RPM	2010	147	543
1300 RPM	1970	125	499
1200 RPM	1812	105	452
1100 RPM	1671	87	410

PRESSURE 0,75 BAR(G)

Metric	m3/h	kW	Nm
1400 RPM	2502	133	907
1300 RPM	2281	117	860
1200 RPM	2068	98	780
1100 RPM	1787	82	712

US	CFM	HP	lbs * ft
1400 RPM	1473	181	669
1300 RPM	1343	159	634
1200 RPM	1217	133	575
1100 RPM	1052	112	525

Pump performance measured on the suction side of the pump. The vacuum performance is therefore based on Actual Cubic meters and the pressure performance mode is measured in Normal Cubic meters. The performance is based on water temperature of 15 °C, air temperature of 50 °C and 100% saturated air. For correction factors or other conditions, please refer to the pump manual.

Truck Master 2500 G 2.0

A very high-efficient liquid ring vacuum pump, able to operate with up to 5” hoses. Made of stainless steel and cast iron, the pump is perfect for all heavy sewage jobs.

Vacuum: 87 %
Noise level (7m): 63 dB
Air flow 5” hose: 50 m/s

Optimum HPR rotor
Stainless steel AISI 316

ATEX approved for:
Zone 0: II 1G Ex h IIC T4 Ga
Zone 1: II 2G Ex h IIC T4 Gb

5” HOSES

TRUCK MASTER SERIES

Let us help you get started

Please don’t hesitate to contact us for any kind of information or request for support. Our team of engineers is ready to help you out. To ensure a stable and satisfying performance we always recommend installing a hydraulic fan cooler in the water system. We can help you dimension the cooler, or assist in other design issues related to your truck design. Your success is our success.

The pump can be driven by belt or hydraulic motor, please remember that we offer all our pumps as ready as the customer demands. For example, equipped with hydraulic motor and the necessary valves. Another mandatory recommendation is to equip your pump with our Vacuum Control Valve that will help you protect the pump against cavitation.

Truck Master 2500 is a very strong pump made in durable materials, cast iron and stainless steel. It will withstand the harshest working conditions it is exposed to.

TRUCK MASTER 2500 G2.0

+ Industrial cleaning
+ Sewerage system cleaning
+ Septic cleaning
+ Excavation up to 5”

SPECIFICATIONS

Bearing cover	Cast iron	EN-GJL-250; EN 1561
Radial shaft seal	Rubber	Type NBR; DIN 3760A
Paper gasket	Paper	Oil resistant gasket
Bearing housing	Cast iron	EN-GJL-250; EN 1561
Mechanical shaft seal	NBR/AISI 316/ SiC/Carbon	
Pump housing	Cast iron	EN-GJL-250; EN 1561
Flow plate	Cast iron	EN-GJL-250; EN 1561
Flow plate (Ex model)	Bronze	CC480K; EN 1982
Rubber gasket	Rubber	NBR
Shell	Cast iron	EN-GJL-250; EN 1561
Rotor	Stainless steel	Optimum High Performance

WATER CONSUMPTION L/H

	Water temperature				
Metric	20°C	30°C	40°C	50°C	55°C
50% vacuum	18	27	53	93	152
70% vacuum	10	16	32	56	91
80% vacuum	5	11	21	37	60

WATER CONSUMPTION US GALLON/H

	Water temperature				
US	68°F	86°F	104°F	122°F	131°F
50% vacuum	5	7	14	25	40
70% vacuum	3	4	8	15	24
80% vacuum	1	3	6	10	16

VACUUM

Metric	m3/h	kW	Nm
1500 RPM	2465	64	407
1400 RPM	2205	56	382
1300 RPM	1980	48	353
1200 RPM	1860	45	358

US	CFM	HP	lbs * ft
1500 RPM	1451	87	301
1400 RPM	1298	76	282
1300 RPM	1165	65	260
1200 RPM	1095	61	264

PRESSURE 1,0 BAR(G)

Metric	m3/h	kW	Nm
1500 RPM	1390	85	541
1400 RPM	1271	75	512
1300 RPM	1097	68	500
1200 RPM	993	60	478

US	CFM	HP	lbs * ft
1500 RPM	818	116	399
1400 RPM	748	102	377
1300 RPM	646	92	368
1200 RPM	584	82	352

Pump performance measured on the suction side of the pump. The vacuum performance is therefore based on Actual Cubic meters and the pressure performance mode is measured in Normal Cubic meters. The performance is based on water temperature of 15 °C, air temperature of 50 °C and 100% saturated air. For correction factors or other conditions, please refer to the pump manual.

Truck Master 1700 G 2.0

Your sturdy liquid ring vacuum pump for vacuum trucks equipped with hoses up to 4”. Made of cast iron and stainless steel, the pump can handle all city sewage cleaning jobs

Vacuum: 87 %
Noise level (7m): 63 dB
Air flow 4” hose: 42 m/s

Optimum HPR rotor
Stainless steel AISI 316

ATEX approved for:
Zone 0: II 1G Ex h IIC T4 Ga
Zone 1: II 2G Ex h IIC T4 Gb

4” HOSES

TRUCK MASTER SERIES

Let us help you get started

Please don’t hesitate to contact us for any kind of information or request for support. Our team of engineers is ready to help you out. To ensure a stable and satisfying performance we always recommend installing a hydraulic fan cooler in the water system. We can help you dimension the cooler, or assist in other design issues related to your truck design. Your success is our success.

The pump can be driven by belt or hydraulic motor, please remember that we offer all our pumps as ready as the customer demands. For example, equipped with hydraulic motor and the necessary valves. Another mandatory recommendation is to equip your pump with our Vacuum Control Valve that will help you protect the pump against cavitation.

Truck Master 1700 is a very strong pump made in durable materials, cast iron and stainless steel. It will withstand the harshest working conditions it is exposed to.

TRUCK MASTER 1700 G 2.0

+ Industrial cleaning
+ Sewerage system cleaning
+ Septic cleaning
+ Excavation up to 4”

SPECIFICATIONS

Bearing cover	Cast iron	EN-GJL-250; EN 1561
Radial shaft seal	Rubber	Type NBR; DIN 3760A
Paper gasket	Paper	Oil resistant gasket
Bearing housing	Cast iron	EN-GJL-250; EN 1561
Mechanical shaft seal	NBR/AISI 316/ SiC/Carbon	
Pump housing	Cast iron	EN-GJL-250; EN 1561
Flow plate	Cast iron	EN-GJL-250; EN 1561
Flow plate (Ex model)	Bronze	CC480K; EN 1982
Rubber gasket	Rubber	NBR
Shell	Cast iron	EN-GJL-250; EN 1561
Rotor	Stainless steel	Optimum High Performance

WATER CONSUMPTION L/H

Metric	Water temperature 20°C	30°C	40°C	50°C	55°C
50% vacuum	12	17	34	60	100
70% vacuum	5	10	20	35	60
80% vacuum	4	7	13	24	39

WATER CONSUMPTION US GALLON/H

US	Water temperature 68°F	86°F	104°F	122°F	131°F
50% vacuum	3	4	9	16	26
70% vacuum	1	3	5	9	16
80% vacuum	1	2	3	6	10

VACUUM

Metric	m3/h	kW	Nm
1800 RPM	1619	49	260
1700 RPM	1550	44	247
1600 RPM	1457	40	239
1500 RPM	1321	34	216

US	CFM	HP	lbs * ft
1800 RPM	953	67	192
1700 RPM	912	60	182
1600 RPM	858	54	176
1500 RPM	778	46	160

PRESSURE 1,0 BAR(G)

Metric	m3/h	kW	Nm
1800 RPM	944	65	345
1700 RPM	810	60	337
1600 RPM	757	54	322
1500 RPM	674	47	299

US	CFM	HP	lbs * ft
1800 RPM	556	88	254
1700 RPM	477	82	249
1600 RPM	446	73	238
1500 RPM	397	64	221

Pump performance measured on the suction side of the pump. The vacuum performance is therefore based on Actual Cubic meters and the pressure performance mode is measured in Normal Cubic meters. The performance is based on water temperature of 15 °C, air temperature of 50 °C and 100% saturated air. For correction factors or other conditions, please refer to the pump manual.

The next generation of Truck Masters

Same dimensions, yet a much more refined pump. We call it – Generation 2.0

Pumps for outstanding vacuum trucks

Two years ago we introduced you to the Truck Master Series. The liquid ring vacuum pump line exclusively designed for high-performance vacuum trucks. Now, we have the great pleasure to introduce you to Truck Master Generation 2.0.

Our goal was to improve our pumps for the people who perform maintenance and service, so we simply made them easier to disassemble and assemble, and then we integrated the water connection in a smooth and robust way.

It is our vision to supply the vacuum trucks OEMs all over the world with pumps that will exceed their expectations and will continue operate year after year.

Kasper Nørgaard

Kasper Nørgaard
CEO

G 2.0

NEW FEET | AISI316

A new “one-piece” design in stainless steel.
– Easier to service

NEW PLUGS | AISI316

Upgraded plugs to the new stainless steel design.
– Easier to service

INTEGRATED WATER | AISI316

A new simple integrated water connection.
– Easier to service

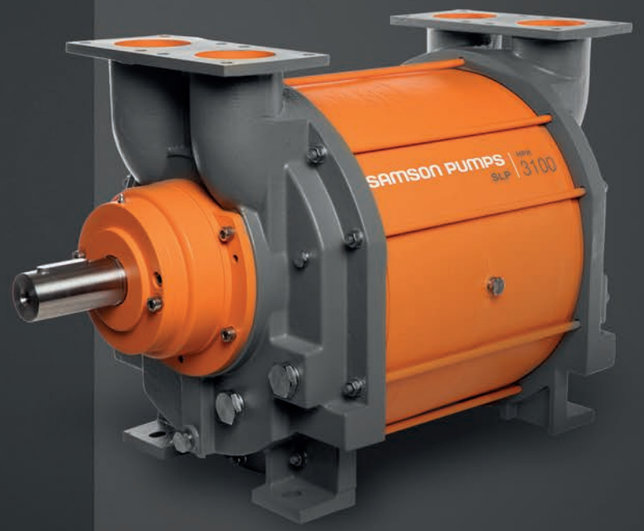
MANIFOLD CONNECTION

A new manifold for the Vacuum Control Valve
– Easier to access

SLP 3100

The SLP 3100 is a liquid ring pump
100% convertible with SL 3100

100% convertible with SL3100



Vacuum: 85 %
Noise level (7m): 66 dB
Air flow 6" hose: 38 m/s

Optimum HPR rotor
Stainless steel AISI 316

ATEX approved for:
Zone 0: II 1G Ex h IIC T4 Ga
Zone 1: II 2G Ex h IIC T4 Gb

Specifications:			
Bearing cover	Cast iron	EN-GJL-250; EN 1561
Radial shaft seal	Rubber	Type NBR; DIN 3760A
Paper gasket	Paper	Oil resistant gasket
Bearing housing	Cast Iron	EN-GJL-250; EN 1561
Mechanical shaft seal	NBR/AISI 316/SiC/Carbon	
Pump Housing	Cast Iron	EN-GJL-250; EN 1561
Flow plate	Stainless steel	EN 1.4404
Flow Plate (Ex model)	Stainless steel	EN 1.4404
O-ring	Rubber	NBR
Shell	Cast Iron	EN-GJL-250; EN 1561
Stay Bolt	Carbon steel	Property class 8.8
Rotor	Stainless steel	Optimum High Performance

VACUUM

Metric	m3/h	kW	NM
1600 RPM	2947	90	537
1500 RPM	2860	78	497
1400 RPM	2724	68	464
1300 RPM	2542	60	441
1200 RPM	2159	56	446

US	CFM	HP	Lbs*ft
1600 RPM	1735	112	396
1500 RPM	1683	106	366
1400 RPM	1603	92	342
1300 RPM	1496	82	325
1200 RPM	1271	76	329

PRESSURE 1,0 BAR (G)

Metric	m3/h	kW	NM
1600 RPM	1695	116	692
1500 RPM	1568	99	630
1400 RPM	1437	86	587
1300 RPM	1326	75	551
1200 RPM	1248	65	517

US	CFM	HP	Lbs*ft
1600 RPM	998	158	511
1500 RPM	923	135	465
1400 RPM	846	117	433
1300 RPM	780	102	406
1200 RPM	735	88	382

WATER CONSUMPTION

	Water temperature				
L/H	20°C	30°C	40°C	50°C	55°C
50% vacuum	10	25	50	87	142
70% vacuum	5	13	26	46	75
80% vacuum	3	7	13	23	37

	Water temperature				
GAL/H	68°F	86°F	104°F	122°F	140°F
50% vacuum	3	7	13	23	38
70% vacuum	1	3	7	12	20
80% vacuum	1	2	3	6	10

SLP 2700

The SLP 2700 is a liquid ring pump
100% convertible with SL 2700

100% convertible with SL2700

Vacuum: 85 %
Noise level (7m): 66 dB
Air flow 5" hose: 56 m/s

Optimum HPR rotor
Stainless steel AISI 316

ATEX approved for:
Zone 0: II 1G Ex h IIC T4 Ga
Zone 1: II 2G Ex h IIC T4 Gb

Specifications:			
Bearing cover	Cast iron	EN-GJL-250; EN 1561
Radial shaft seal	Rubber	Type NBR; DIN 3760A
Paper gasket	Paper	Oil resistant gasket
Bearing housing	Cast Iron	EN-GJL-250; EN 1561
Mechanical shaft seal	NBR/AISI 316/SiC/Carbon	
Pump Housing	Cast Iron	EN-GJL-250; EN 1561
Flow plate	Stainless steel	EN 1.4404
Flow Plate (Ex model)	Stainless steel	EN 1.4404
O-ring	Rubber	NBR
Shell	Cast Iron	EN-GJL-250; EN 1561
Stay Bolt	Carbon steel	Property class 8.8
Rotor	Stainless steel	Optimum High Performance

VACUUM

Metric	m3/h	kW	NM
1600 RPM	2707	78	466
1500 RPM	2556	68	433
1400 RPM	2440	60	409
1300 RPM	2290	53	389
1200 RPM	2112	46	366

US	CFM	HP	Lbs*ft
1600 RPM	1593	106	343
1500 RPM	1504	92	319
1400 RPM	1436	82	302
1300 RPM	1348	72	287
1200 RPM	1243	63	270

PRESSURE 1,0 BAR (G)

Metric	m3/h	kW	NM
1600 RPM	1635	101	603
1500 RPM	1525	88	560
1400 RPM	1407	77	525
1300 RPM	1191	65	478
1200 RPM	1034	56	446

US	CFM	HP	Lbs*ft
1600 RPM	962	137	445
1500 RPM	898	120	413
1400 RPM	828	105	387
1300 RPM	701	88	352
1200 RPM	609	76	329

WATER CONSUMPTION

	Water temperature				
L/H	20°C	30°C	40°C	50°C	55°C
50% vacuum	9	23	45	79	129
70% vacuum	5	12	23	40	66
80% vacuum	2	6	11	19	32

	Water temperature				
GAL/H	68°F	86°F	104°F	122°F	140°F
50% vacuum	2	6	12	21	34
70% vacuum	1	3	6	11	17
80% vacuum	1	2	3	5	8

SLP 2100

The SLP 2100 is a liquid ring pump
100% convertible with SL 2100

Vacuum: 85 %
Noise level (7m): 66 dB
Air flow 4" hose: 74 m/s

Optimum HPR rotor
Stainless steel AISI 316

ATEX approved for:
Zone 0: II 1G Ex h IIC T4 Ga
Zone 1: II 2G Ex h IIC T4 Gb

100% convertible with SL2100

Specifications:

Bearing cover	Cast iron	EN-GJL-250; EN 1561
Radial shaft seal	Rubber	Type NBR; DIN 3760A
Paper gasket	Paper	Oil resistant gasket
Bearing housing	Cast Iron	EN-GJL-250; EN 1561
Mechanical shaft seal	NBR/AISI 316/SiC/Carbon	
Pump Housing	Cast Iron	EN-GJL-250; EN 1561
Flow plate	Stainless steel	EN 1.4404
Flow Plate (Ex model)	Stainless steel	EN 1.4404
O-ring	Rubber	NBR
Shell	Cast Iron	EN-GJL-250; EN 1561
Stay Bolt	Carbon steel	Property class 8.8
Rotor	Stainless steel	Optimum High Performance

VACUUM

Metric	m3/h	kW	NM
1600 RPM	2320	68	406
1500 RPM	2184	59	376
1400 RPM	2052	53	362
1300 RPM	1949	46	338
1200 RPM	1781	40	318

US	CFM	HP	Lbs*ft
1600 RPM	1366	92	299
1500 RPM	1285	80	277
1400 RPM	1208	72	267
1300 RPM	1147	63	249
1200 RPM	1048	54	235

PRESSURE 1,0 BAR (G)

Metric	m3/h	kW	NM
1600 RPM	1462	88	525
1500 RPM	1373	77	490
1400 RPM	1292	65	443
1300 RPM	1128	55	404
1200 RPM	802	46	366

US	CFM	HP	Lbs*ft
1600 RPM	861	120	387
1500 RPM	808	105	362
1400 RPM	760	88	327
1300 RPM	664	75	298
1200 RPM	472	63	270

WATER CONSUMPTION

	Water temperature				
L/H	20°C	30°C	40°C	50°C	55°C
50% vacuum	8	20	39	67	111
70% vacuum	4	10	19	33	54
80% vacuum	2	6	11	19	31

	Water temperature				
GAL/H	68°F	86°F	104°F	122°F	140°F
50% vacuum	2	5	10	18	29
70% vacuum	1	3	5	9	14
80% vacuum	1	2	3	5	8

WE ARE IN BUSINESS WITH YOU

Samson Pumps offers all OEM customers a close partnership in R&D and logistics. We do this because our goal is to help our customers achieve great vacuum trucks on time.

Every day our team of engineers tries to find better ways to design a liquid ring vacuum truck, a journey we share with our customers.

SAMSON PUMPS

ENGINEERING FOR TOMORROWS VACUUM TRUCKS

Flow (q)

$$q = \frac{D \times n}{1000 \times \eta_v} \text{ [l/min]}$$

Torque (M)

$$M = \frac{D \times \Delta p \times \eta_t}{63} \text{ [Nm]}$$

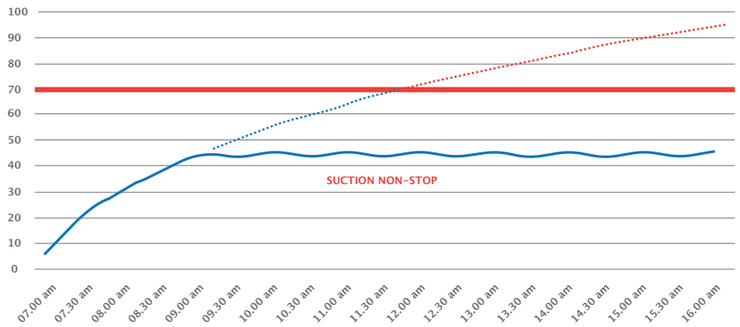
Power (P)

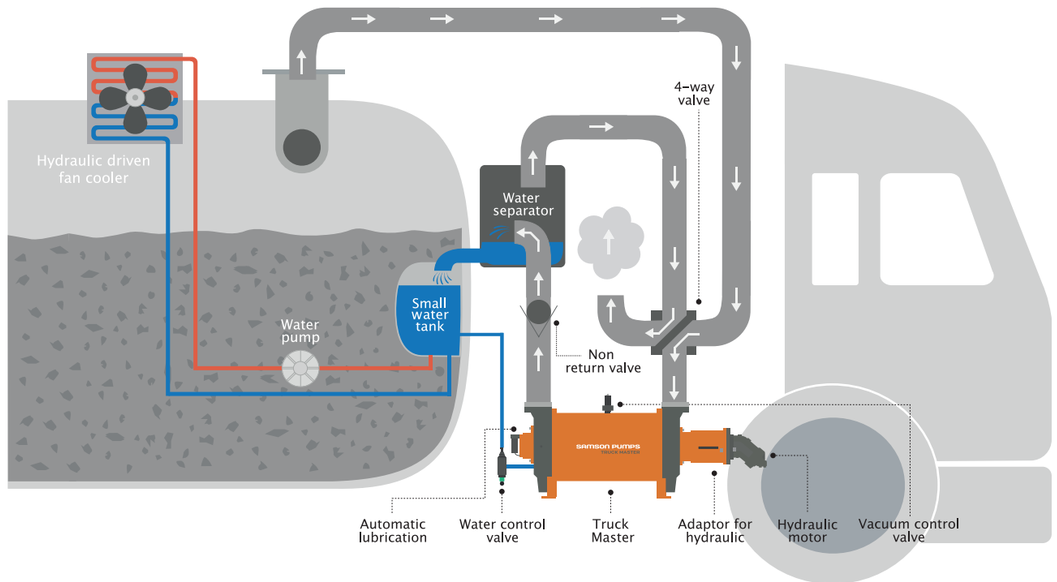
$$P = \frac{q \times \Delta p \times \eta_t}{600} \text{ [kW]}$$

COOLING MEANS HIGH PERFORMANCE

Suction non-stop

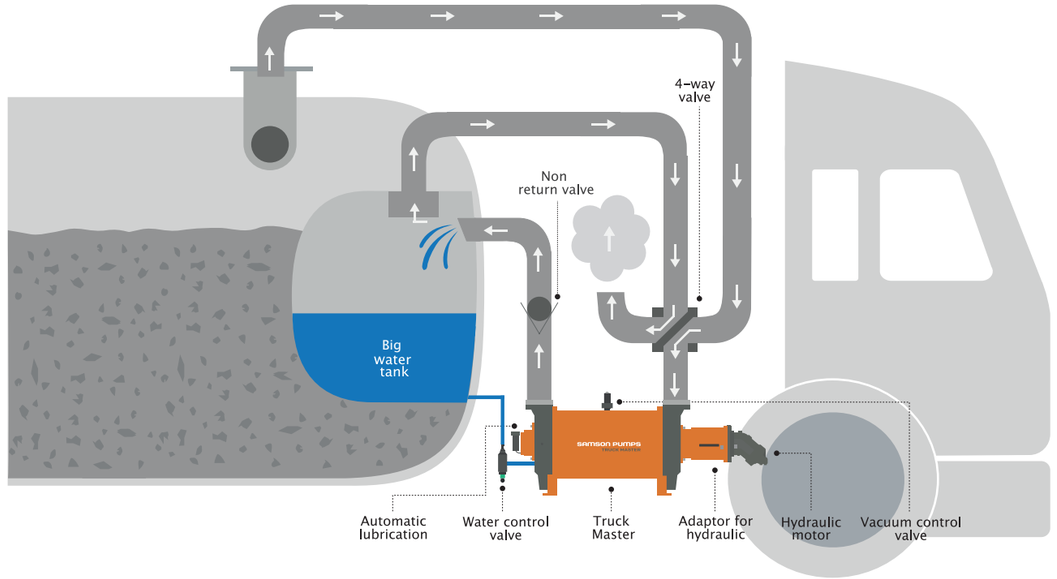
For the truck owners operating 24/7, we recommend building their vacuum system fit for non-stop vacuum operations. With a proper hydraulic driven water cooler, the system will never reach temperatures higher than acceptable for the performance. The balance of energy both led in and out the water ensures a high and endless performance curve.





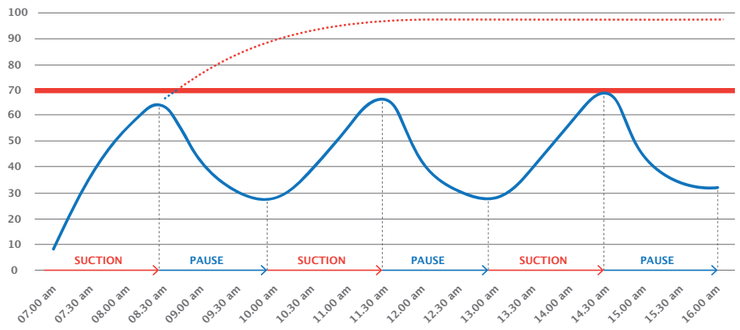
Advantages

+ Energy will balance
+ Constant performance
+ Small water tank
+ No downtime



Suction in intervals

Some applications do not require a significant amount of operation hours and may even allow access to cold replacement water. In these cases, we recommend building your truck according to the “Interval operations” design. The simple design, based on a big water tank will allow the operator to perform the job he needs and transport the load to the drop off point.



Advantages

+ Less components
+ Easy to build
+ Easy to use

Do you want to know more about cooling?

Please feel free to contact us at any time.

We would love to arrange a meeting and review your plans, designs or ideas.

We offer:

- Free seminars
- Free online sessions

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Configure your Truck Master with first-class accessories

Get a quick overview of the Samson Pumps accessories that can be mounted from our factory and make your pump perfect for your next vacuum truck

POS. 1

4-way valve

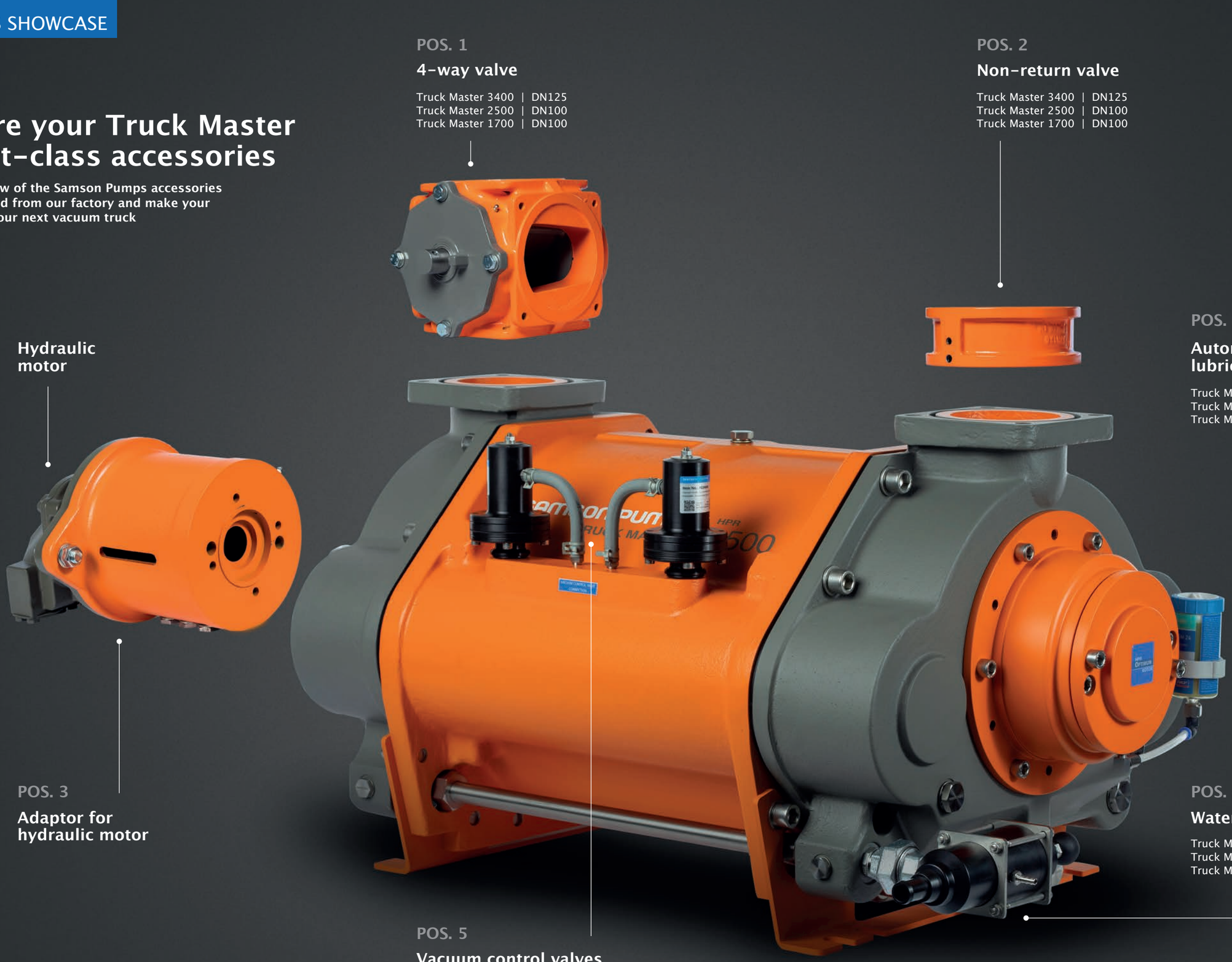
Truck Master 3400 | DN125
Truck Master 2500 | DN100
Truck Master 1700 | DN100

POS. 2

Non-return valve

Truck Master 3400 | DN125
Truck Master 2500 | DN100
Truck Master 1700 | DN100

Hydraulic motor



POS. 3

Adaptor for hydraulic motor

POS. 5

Vacuum control valves

Truck Master 3400 | 2 pcs
Truck Master 2500 | 2 pcs
Truck Master 1700 | 1 pcs

POS. 6

Automatic lubricator

Truck Master 3400 | 2 pcs
Truck Master 2500 | 2 pcs
Truck Master 1700 | 2 pcs

POS. 4

Water control valve

Truck Master 3400 | 1 pcs
Truck Master 2500 | 1 pcs
Truck Master 1700 | 1 pcs

POS. 1

4-way valve

Designed to switch the flow direction between vacuum and pressure, the valve allows you to fill up and empty your tank. Truck Master 3400 is equipped with our 4-way valve DN 125 while all the other Truck Masters are equipped with our 4-way valve DN 100.

Features

- Cast iron body
- Two flow positions

POS. 2

Non-return valve

Install the Non-Return valve on your truck to ensure that the water/air in the pipe flows in the desired rotation, preventing undesired drainage. Truck Master 3400 is equipped with our Non-Return valve DN125 meanwhile the other pumps from the Truck Master series are equipped with our Non-Return valve DN100.

Features

- Cast iron body
- Brass claps

POS. 3

Adaptors for hydraulic motors

Adaptors in cast iron, designed to connect the hydraulic motor to your Truck Master or SLP pump. Make sure you order the right adaptor for your pump by looking into the pump manual which you can find on our website.

Features

- Cast iron body
- Compact design

POS. 4

Water control valve

The valve is designed to automatically control the water supplied to the liquid ring pump. We recommend installing the Water Control Valve when you want to avoid mounting on your truck a valve actuator, as well as you want to optimize the process of supplying water to the pump.

Features

- Automatic water control
- Requires no electrical installation

POS. 5

Vacuum control valve

It is designed to control the vacuum level and to avoid cavitation in the pump. On Truck Master 3400, Truck Master 2500, SLP 3100, SLP2700 and SLP 2100 we recommend installing two Vacuum Control valves. For Truck Master 1700 a valve will be enough.

Features

- Prevents cavitation
- Requires no electrical installation

POS. 6

Automatic lubrication

Meant to automatically supply a small quantity of grease on a regular basis. We recommend installing two cartridges on each Truck Master and SLP pump. A cartridge for each bearing.

Features

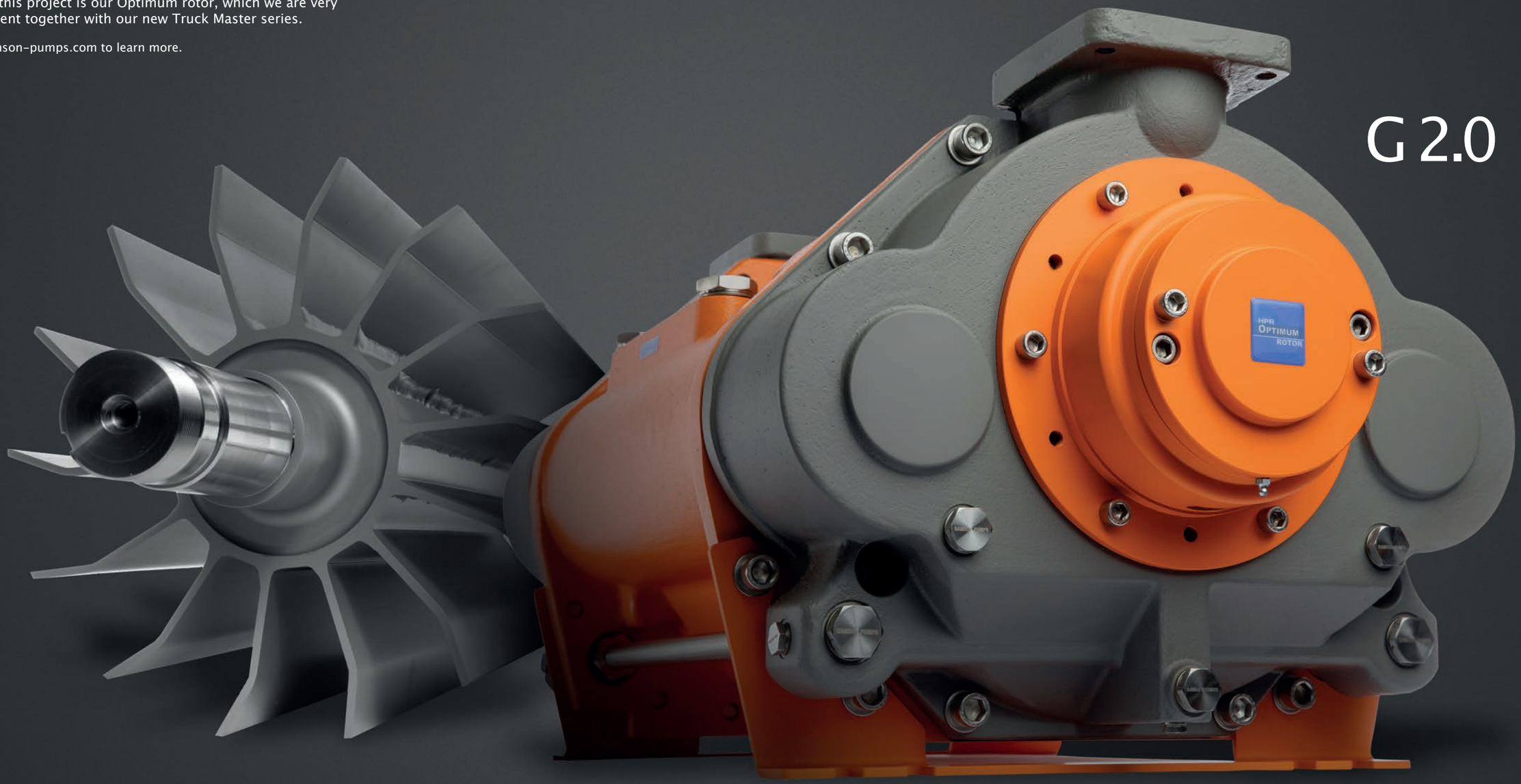
- Extended lifetime
- Increased reliability

Perfect balance between performance and strength

Samson Pumps is well known for its strong welded stainless-steel rotor. It is extremely strong but has always had a weakness when it came to weight and performance. So, the task was clear! Develop a new rotor with the same strength but with no less than 20% better performance.

The result of this project is our Optimum rotor, which we are very proud to present together with our new Truck Master series.

Please visit samson-pumps.com to learn more.



rexroth
A Bosch Company

Truck Master 3400

Motor 160 cm³/Rev	Pressure [bar]	Power [kW]	Oil Flow [l/min]	Motor 9.76 in³/Rev	Pressure [psi]	Power [hp]	Oil Flow [gpm]
1400 RPM	365	123	229	1400 RPM	5293	165	61
1300 RPM	335	105	212	1300 RPM	4858	141	56
1200 RPM	310	89	196	1200 RPM	4495	119	52
1100 RPM	275	73	180	1100 RPM	3988	98	48

Maximum pressure 400 bar

Maximum pressure 5800 psi

Truck Master 2500

Motor 90 cm³/Rev	Pressure [bar]	Power [kW]	Oil Flow [l/min]	Motor 5.49 in³/Rev	Pressure [psi]	Power [hp]	Oil Flow [gpm]
1500 RPM	330	70	147	1500 RPM	4785	94	39
1400 RPM	325	61	129	1400 RPM	4713	82	34
1300 RPM	315	55	119	1300 RPM	4568	74	31
1200 RPM	300	49	110	1200 RPM	4350	66	29

Maximum pressure 400 bar

Maximum pressure 5800 psi

Truck Master 1700

Motor 63 cm³/Rev	Pressure [bar]	Power [kW]	Oil Flow [l/min]	Motor 3,84 in³/Rev	Pressure [psi]	Power [hp]	Oil Flow [gpm]
1800 RPM	300	53	116	1800 RPM	4350	71	31
1700 RPM	290	48	109	1700 RPM	4205	64	29
1600 RPM	280	42	103	1600 RPM	4060	56	27
1500 RPM	260	37	96	1500 RPM	3770	50	25

Maximum pressure 300 bar

Maximum pressure 4350 psi

Mounted hydraulic motors

In partnership with Rexroth we offer all Truck Masters delivered with hydraulic motors. Not only do we assist to ensure the correct choice of hydraulic motor, we will also make sure that all motors are professionally mounted and tested before shipment.

SLP 3100

Motor 160 cm³/Rev	Pressure [bar]	Power [kW]	Oil Flow [l/min]	Motor 9.76 in³/Rev	Pressure [psi]	Power [hp]	Oil Flow [gpm]
1600 RPM	275	106	261	1600 RPM	3988	142	69
1500 RPM	258	93	245	1500 RPM	3741	125	65
1400 RPM	240	81	229	1400 RPM	3480	109	61
1300 RPM	230	72	212	1300 RPM	3335	96	56

Maximum pressure 400 bar

Maximum pressure 5800 psi

SLP 2700

Motor 160 cm³/Rev	Pressure [bar]	Power [kW]	Oil Flow [l/min]	Motor 9.76 in³/Rev	Pressure [psi]	Power [hp]	Oil Flow [gpm]
1600 RPM	230	92	261	1600 RPM	3335	123	69
1500 RPM	225	81	245	1500 RPM	3263	109	65
1400 RPM	215	72	229	1400 RPM	3118	96	61
1300 RPM	205	64	212	1300 RPM	2973	86	56

Maximum pressure 400 bar

Maximum pressure 5800 psi

SLP 2100

Motor 90 cm³/Rev	Pressure [bar]	Power [kW]	Oil Flow [l/min]	Motor 5.49 in³/Rev	Pressure [psi]	Power [hp]	Oil Flow [gpm]
1600 RPM	340	77	147	1600 RPM	4930	103	39
1500 RPM	330	67	138	1500 RPM	4785	90	36
1400 RPM	320	60	129	1400 RPM	4640	80	34
1300 RPM	300	53	119	1300 RPM	4350	71	31

Maximum pressure 400 bar

Maximum pressure 5800 psi

3D STP FILES

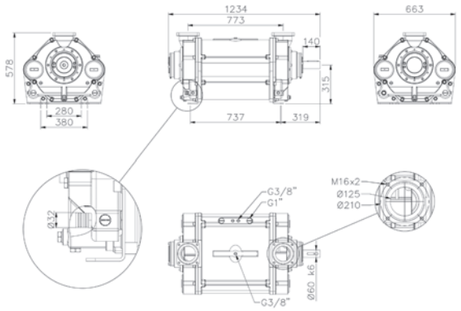
In the process of designing your truck, you might need 3D files of your pump. In this case, do not hesitate to contact us and we will provide you the files you need, with the dimensions specified as illustrated below. You can as well download the files directly from our website – www.samson-pumps.com.

Contact our Design Engineer – Jens Justensen – for further information

Email: JJ@samson-pumps.com

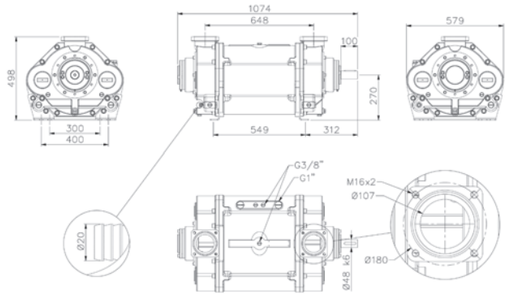
Truck Master 3400

Weight: 531 kg



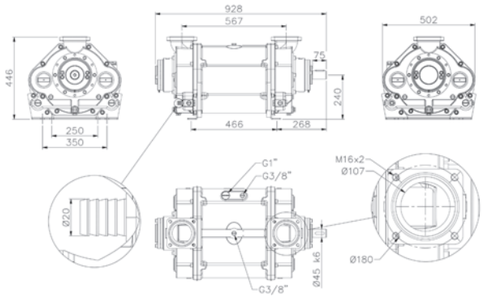
Truck Master 2500

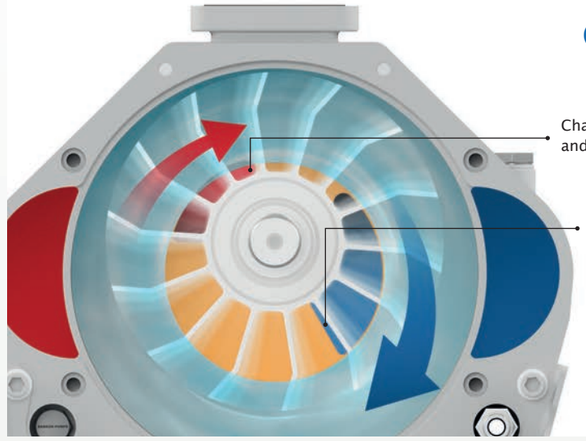
Weight: 321 kg



Truck Master 1700

Weight: 245 kg

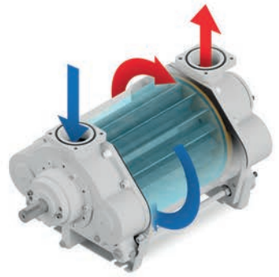




OPERATION PRINCIPAL OF A TRUCK MASTER

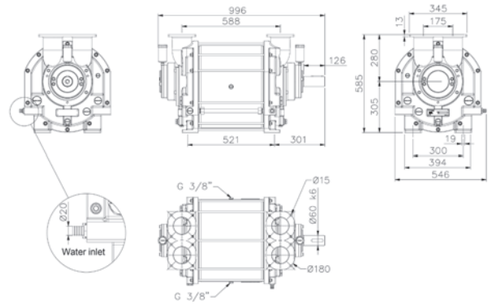
Chambers decrease and create **pressure**

Chambers increase and create **vacuum**



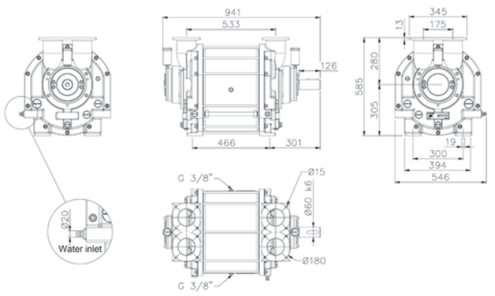
SLP 3100

Weight: 420 kg



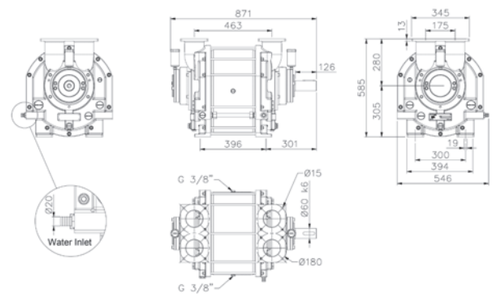
SLP 2700

Weight: 390 kg



SLP 2100

Weight: 350 kg



SAMSON PUMPS

SUPPLYING READY TO RUN PUMPS

We want to add value. To do that we build strong partnerships with all customers and suppliers. We bring quality by ensuring the best possible ready-to-run experience and by mounting all our world-class accessories before shipment.

Your Truck Master wouldn't leave our factory in Denmark before we test it to ensure that the pump will operate 100% according to the specifications.

It's not our job to complicate things, it's our responsibility to make business easy for our customers.

Strength and durability are our trademarks

Samson Pumps is your reliable vacuum truck pump supplier. The company, specializing exclusively on liquid ring vacuum pumps, supplies more than 80 countries with the strongest vacuum pumps on the market and is always in-hand when OEMs require assistance in building new vacuum trucks and/or tankers.

The Truck Master Series was exclusively designed for the vacuum truck market by incorporating the lessons learned through supplying this market in the last 40 years. At the core of Samson's business activity is the strong belief that the products we supply must be of superlative quality in order for our customers to focus on what they do best. Focus on building the robustest vacuum trucks. We therefore supply them with the high reliable Truck Master pumps and offer a wide range of accessories which allow them to build vacuum systems without the need for specialist in-house expertise.

Strength and durability are our trademarks! Time and time again we hear from our satisfied customers that the Truck Master pumps continue operating year after year and in most cases without the need for maintenance or repair. Samson Pumps is your reliable liquid ring vacuum pump partner.

HPR OPTIMUM ROTOR

Optimum liquid ring pumps

samson-pumps.com

SAMSON PUMPS

2021-1

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