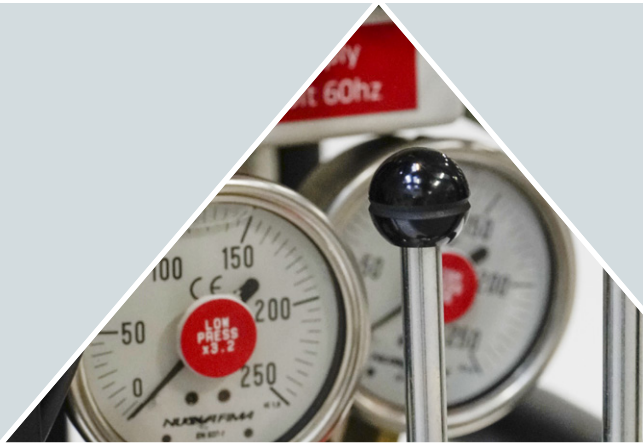


Ultra High Pressure Power Pack units for torque tensioning



Single pressure and
dual pressure series



Black Tower Injection Series



Dual pressure - Power Pack - Black Tower hydraulic injection

Hydraulic couplings

The Black Tower – Injection is a heavy duty pump unit designed to provide both high pressure and high flow at the same time.

It is ideal for bigger hydraulic couplings. Most often used in Marine and Wind applications for shaft assembly jobs where safe operation is a must.

Ideal for oil injection into bigger couplings for heavy machine parts, e.g. propeller shafts, rudder stocks, etc. The unit has two separate oil injectors, allowing both floating pressure and back pressure at the same time.

This unit has the following highlighted features:

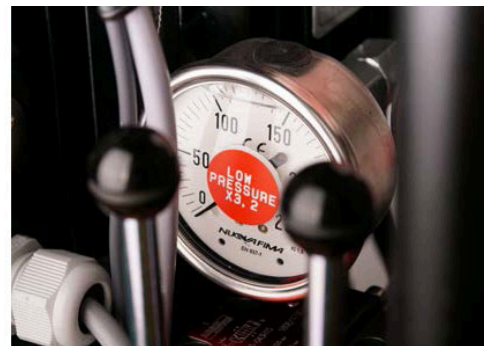
- 1x4000+1x450 bar
- Operational in a wide range of temperatures and pressures
- Low noise level
- Approved frame for lifting
- 3x400/3x690 Volt
- Ideal for heavy-duty operations.
- On wheels for easy handling
- Easy handled machine with retractable handle
- Precise operation with manually controlled valves.



BLACK TOWER – INJECTION: FOR HYDRAULIC INJECTION FOR COUPLINGS

PS no. 100274 073

Model	4000	
Max pressure	1x4000 + 1x450	[bar]
Electrical voltage	3x400 / 3x690	[V]
Electrical frequency	50/60	[Hz]
Max electrical current	6 / 5.4	[A]
Electric engine power	3	[kW]
0 = No remote	0	-
Outer dimensions D x W x H	466 x 333 x 785	[mm]
Weight (no oil)	75	[kg]
Usable oil volume	12	[l]
Tank volume	14	[l]



Black Tower Tension Series



Single pressure series

Hydraulic bolt tensioning

The Black Tower – Tension series is a strong and reliable hydraulic pump unit for heavy duty tasks.

Used worldwide for bigger hydraulic bolt tensioning jobs in larger wind turbine foundations and power plant installations.

This unit has the following highlighted features:

- 1500 bar continuous load
- Operational in a wide range of temperatures
- Low noise level
- Cabled remote control for easy operation
- 230 Volt
- On wheels for easy handling
- Approved frame for lifting
- Sized to fit most manholes
- Retractable handle



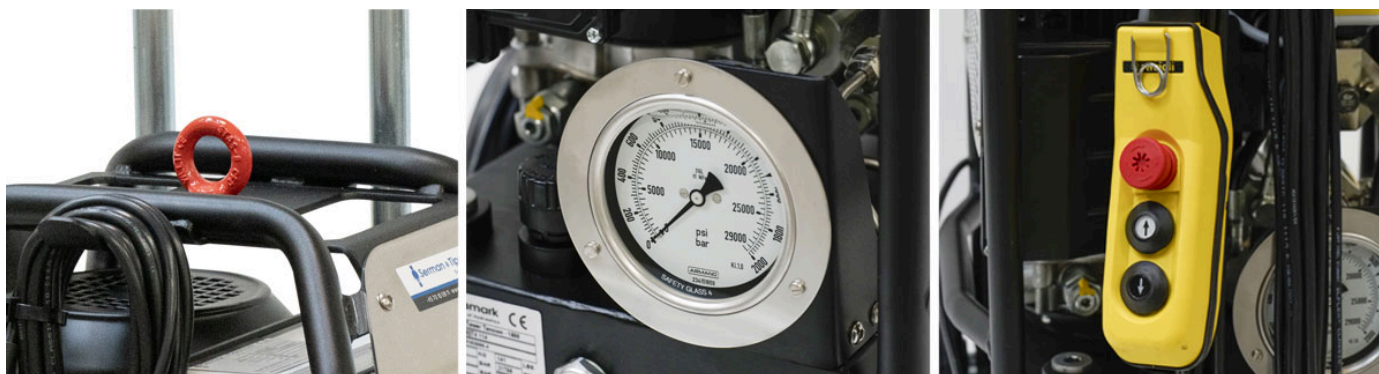
BLACK TOWER – TENSION: MOBILE PUMP UNIT FOR HYDRAULIC BOLT TENSIONING

PS. no. 100274 114

Model	1500-0	
Max pressure	1x1500	[bar]
Electrical voltage supply	1x230	[V]
Working frequency	50 or 60	[Hz]
Max electrical current	8,5	[A]
Electrical motor power	1.5/1.8	[kW]
Cabled remote	-	
Outer dimensions D x W x H	333 x 435 x 577	[mm]
Weight (no oil)	60	[kg]
Usable oil volume	5	[l]
Oil tank volume	7	[l]

BLACK TOWER - TENSION (OPTIONAL) – CALIBRATED MANOMETER

Product name	Name Extension	Description	Max pressure	Outer dimensions
Ordering information			[bar]	[mm]
Calibrated manometer	- CM	5 point calibration	2000	Ø100 display



Portable Power Pack Tension Series



Single pressure - Portable Power Pack Tension series

Hydraulic bolt tension

The Portable Power Pack – Tension series is a compact and reliable hydraulic pump unit.

It is very easy to operate, and is built in a sturdy flight case - suitable for transportation. Ideal for onsite hydraulic bolt tensioning service jobs and smaller installation jobs where focus is on having a easy transportable powerpack.

This unit has the following highlighted features:

- Up to 1500 or 2500 bar continuous load
- Operational in a wide range of temperatures and pressures
- Low noise level
- Cabled remote control for easy operation
- 120/230 Volt
- Ideal for service purposes
- Light and handy machine with retractable handle



PORTABLE POWER PACK – TENSION SERIES: FOR HYDRAULIC BOLT TENSIONING

PS no.	100274 132	100274 134	100274 136	
Model	1500-0	1500-1	2500-0	
Max pressure	1x1500	1x1500	1x2500	[bar]
Electrical voltage supply	1x230	1x110	1x230	[V]
Working frequency	50/60	50/60	50/60	[Hz]
Max electrical current	3.5	5.4	3.5	[A]
Electrical motor power	0.55/0.66	0.55/0.66	0.55/0.66	[kW]
Cabled remote	2	2	2	[M]
Outer dimensions D x W x H	247 x 347 x 546	247 x 347 x 546	247 x 347 x 546	[mm]
Weight (no oil)	30	30	30	[kg]
Usable oil volume	1	1	1	[l]
Oil tank volume	1.5	1.5	1.5	[l]

PORTABLE POWER PACK -TENSION (OPTIONAL) – CALIBRATED MANOMETER

Product name	Name Extension	Description	Max pressure	Outer dimensions
Ordering information			[bar]	[mm]
Calibrated manometer	- CM	5 point calibration	2000/4000	Ø100 display

Looking for another type of high pressure power pack? Take a look at Serman & Tipsmark's [Black Tower - Tension](#) or our [Black Tower - Injection](#).



Heavy Duty Power Pack Tension Series



Heavy Duty Power Packs Tension series

Hydraulic bolt tensioning

The Heavy Duty Power Pack -Tension series is a strong and reliable hydraulic pump unit for heavy duty bolt tensioning.

Used worldwide for larger hydraulic tensioning jobs in wind turbine foundations, pipe joints and power/heat plants. The unit has 1 adjustable oil pressure range - 0-1500 bar.

Used for industrial assembly or onsite jobs where reliability is a priority.

The power pack has the following features:

- Operational in a wide temperature range
- Very low noise level
- Wired remote control for easy operation
- Precise operation with manually controlled valves



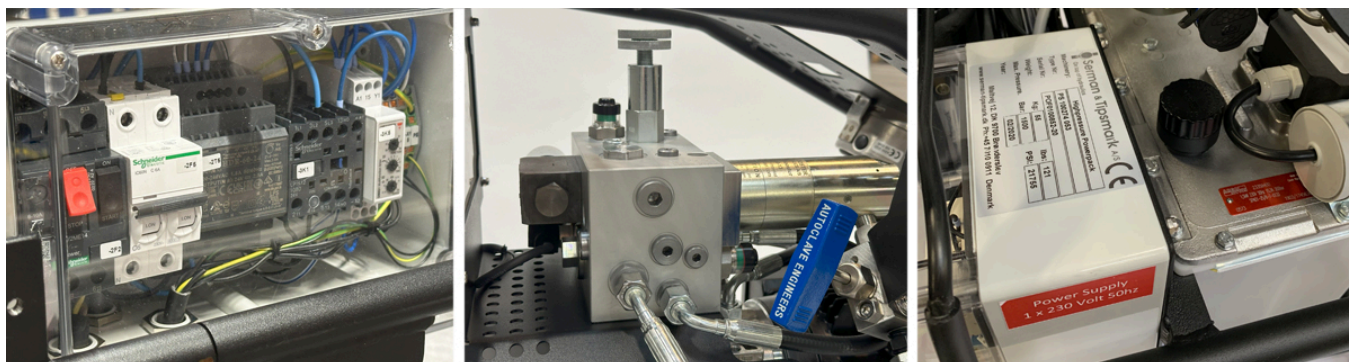
HEAVY DUTY POWER PACK TENSION SERIES

PS no.	100274 053	100274 079	100274 148	100274 149	100274 150	
Model	1500	1500	1500	2500	2500	
Max pressure	1x1500	1x1500	1x1500	1x2500	1x2500	[bar]
Electrical voltage supply	1x230	1x230	1x110	1x230	1x400	[V]
Working frequency	50/60	50/60	50/60	50/60	50/60	[Hz]
Max electrical current	15,9	9,4	16,8	8,5	3,6	[A]
Electrical motor power	1,5/1,8	1,5/1,8	1,5/1,8	1,5/1,8	1,5/1,8	[kW]
Cabled remote	2	2	2	2	2	[M]
Outer dimensions D x W x H	502 x 365 x 470	700 x 367 x 462	700 x 367 x 462	700 x 367 x 462	700 x 367 x 462	[mm]
Weight (no oil)	45	45	45	45	45	[kg]
Usable oil volume	4,5	3	3	3	3	[l]
Oil tank volume	7	5	5	5	5	[l]

HEAVY DUTY POWER PACK -TENSION (OPTIONAL) – CALIBRATED MANOMETER

Product name	Name Extension	Description	Max pressure	Outer dimensions
Ordering information			[bar]	[mm]
Calibrated manometer	- CM	5 point calibration	2000/3500	Ø100 display

Looking for another type of high pressure power pack? Take a look at Serman & Tipsmark's [Black Tower - Tension](#), [Black Tower - Injection](#) or [Portable Power Pack- Tension](#)



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