

FENNEX[®]
INDUSTRIAL

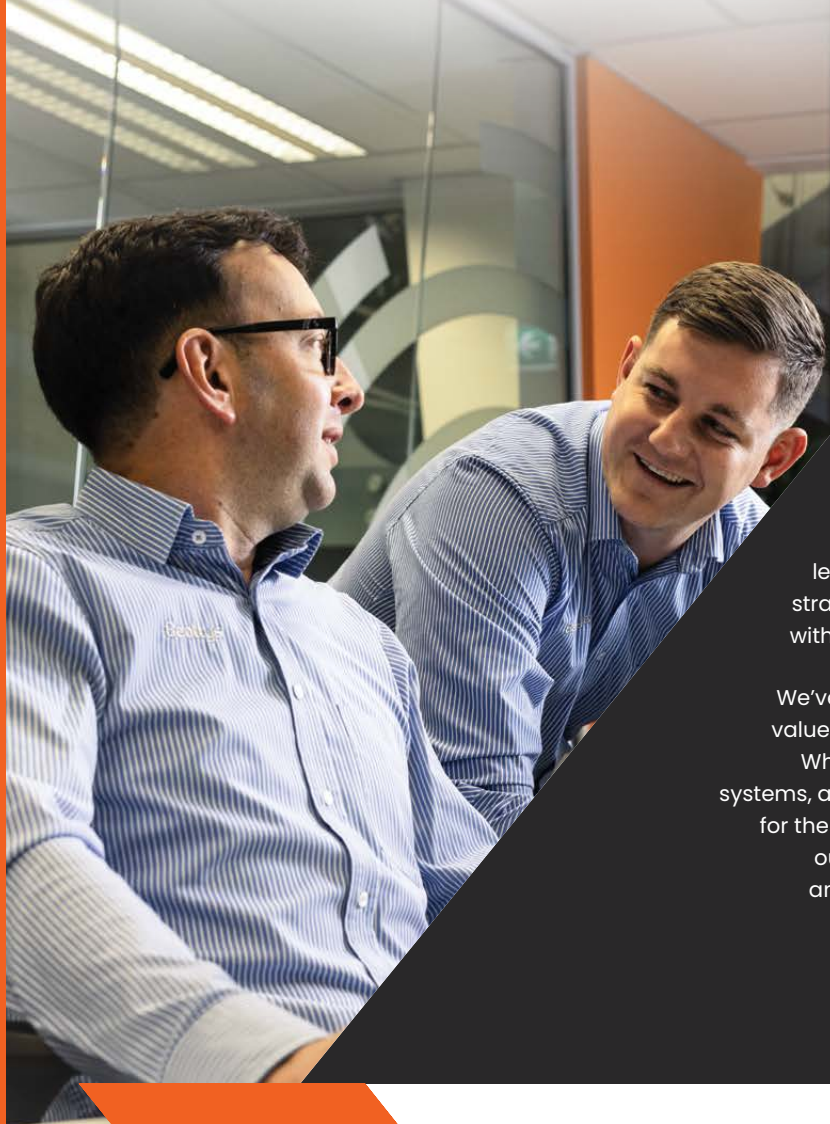


Equipment

**Unleashing
hydraulic energy.**

OUR STORY

100% Family owned. Family proud.



INNOVATION AT OUR HEART

Beginning in 1963 as an engineering company focusing on repairing drivelines, we've since established ourselves as the leading supplier of drivelines in NZ based on our straightforward approach to providing customers with excellence in customer service and expertise.

We've applied these same trusted and time-tested values to Fennex Industrial. Our objectives are clear. When it comes to vehicle and hydraulic powered systems, and products and civil machinery attachments for the transport, earthmoving and industrial sectors, our aim is to provide a level of service, expertise and a range of solutions that's second-to-none. It's our business to assist our customers power their progress.



100% FAMILY OWNED

Despite growth and expansion, Fennex Industrial still retains that genuine family-owned character.



QUALITY PRODUCTS

This goes hand-in-hand with our NZ based manufacturing. We partner with global suppliers that share our quality mindset.



VIP CUSTOMER SUPPORT

To us here at Fennex every customer is a VIP.



24 HOUR HOTLINE

Any query is just a phonecall away.



“For us – in one word – Fennex is reliability. We can trust the product. As a 24/7 operation, we can’t afford anything less.”

STEVE DANIELS
OJI FIBRE SOLUTIONS PULP MILL



Hydraulic energy is the most reliable and size efficient way of transferring power in mobile machines. It’s used everywhere from aeroplanes flying sky-high, to unmanned submarines searching the bottom of the ocean. Cost-efficient and emission-free make hydraulics the preferred choice for many applications. By using these systems we can increase your productivity while reducing downtime and service costs.



Our mobile energy solutions are specifically designed and manufactured to suit New Zealand and Australian conditions. The full range of driveline, PTO and hydraulic powered systems, providing electricity and compressed air direct to the work site, are designed to increase productivity and are backed by our legendary customer support and expertise.

UNLEASHING HYDRAULIC ENERGY.

There are many benefits to using your vehicle or fleet to power auxillary machines such as generators, compressors, water pumps and heavy magnets.

At Fennex we specialise in either customised design and build or ready-to-mount solutions that use the vehicle's driveline, hydraulic system or battery to power these machines.



Hydraulic Powered Equipment

Hydraulic Generators	6-7
Hydraulic Welders	8-9
Hydraulic Piston Air Compressors	10-11
Hydraulic Rotary Screw Air Compressors	12-13
Hydraulic Water Blasters	14-15
Pipe Cleaning Systems	16-17
Street Washers	18-19
Hydraulic Submersible Pumps	20-21
Hydraulic Magnet Generators	22-23
Hydraulic Vibration Technology	24-25
Hydraulic Power Packs	26
Hydraulic Valving	27

Hydraulic Generators



FEATURES

- The ultra-compact design ensures easy installation and saves valuable space on the parent machine
- Ability to install on any type of machinery with a hydraulic system
- The reliable and maintenance-free design ensures downtime is reduced to a minimum
- Eliminates the need to move heavy engine-driven generators around the site and the need to carry hazardous fuel containers
- State-of-the-art hydraulic motors ensure continuous quiet operation
- Heavy duty twin poll coils
- A patented RPM control valve ensures constant power frequency irrelevant to hydraulic flow
- Built-in residual current device and safety earth leakage relay protects users from electrocution
- Circuit overload protection to prevent overheating and damage to the generator
- AVR (Automatic Voltage Regulator) - electronic voltage regulator is connected to the stators windings and achieves an accuracy of $\pm 3\%$. An electronic voltage regulator constantly compares output voltage to the pre-adjusted reference value and sets the excitation current according to the load
- IP23 weather protection

OPTIONS

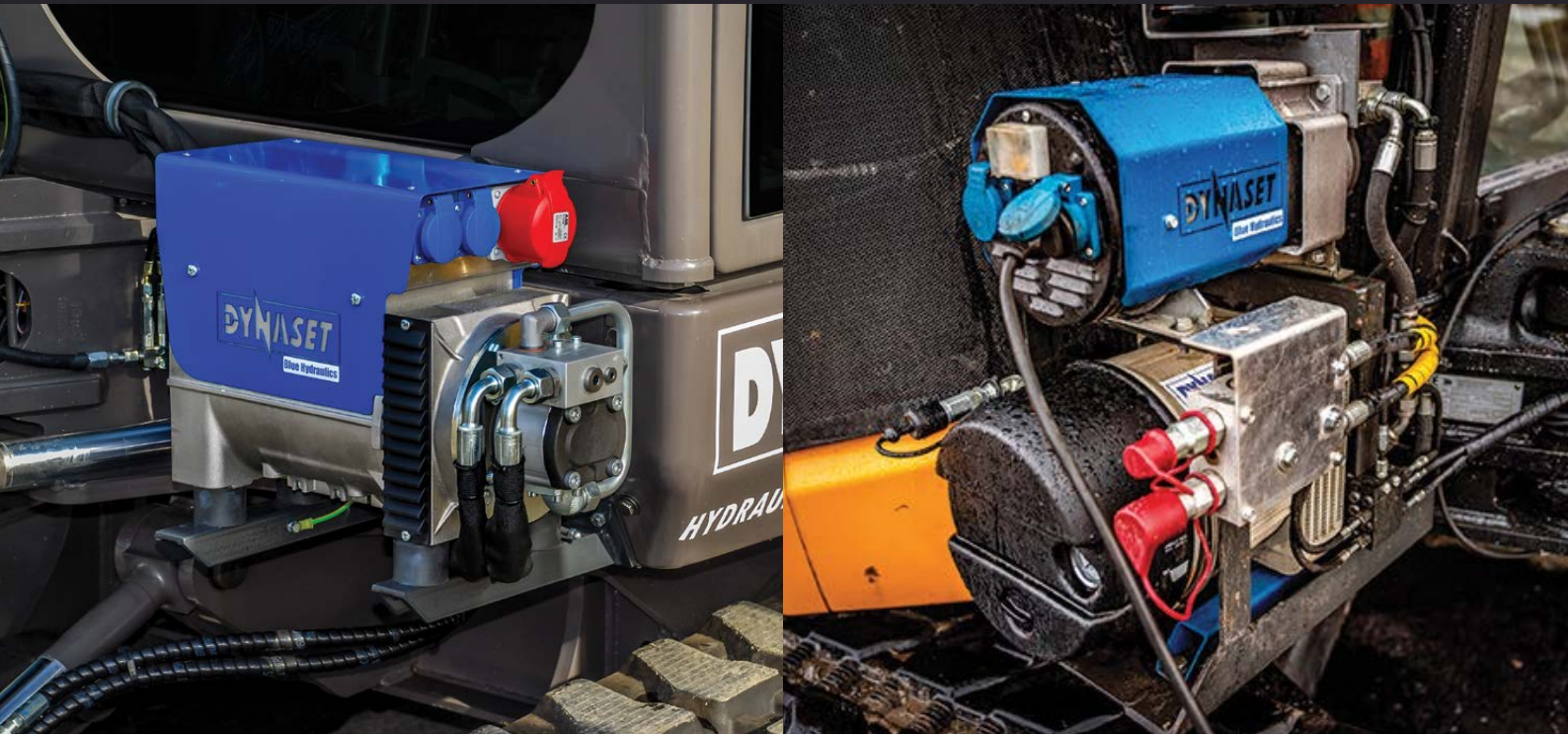
- IP54 weather protection models
- Installation valves
- Pressure relief valve for RPM-control cartridge
- External control box with outlets
- Custom models designed for specific client needs



		HG-3.5	HG-5.0
Length	mm	423	461
Width	mm	220	212
Height	mm	217	230
Weight	kg	24	29
Output Power	kVA	3.5	5
Output Voltage	V	230	230
Output Current	A	15.2	21.7
Number Of Phases		1	1
Voltage Regulator Type		Capacitor	Capacitor
Min Hydraulic Flow	l/min	18	23
Max Hydraulic Flow	l/min	23	35
Operating Hydraulic Pressure	bar (psi)	230 (3,350)	220 (3,200)
Max Hydraulic Pressure	bar (psi)	250 (3,650)	250 (3,650)

OVERVIEW

These hydraulic generators boast the best power-to-size ratio out of any generator in the world. With the guarantee of easy installation and operation, our range of generators makes light work of demanding tasks for all contractors and other users. A new generation of hydraulic motors makes for even more efficient operation and dramatically reduces sound levels, making for a pleasant experience for extended use intervals.



HG-6.5	HG-10	HG-12	HG-19	HG-26	HG-35	HG-45	HG-65	HG-80
508	567	587	638	641	742	964	1,043	1,086
212	212	290	293	323	323	392	402	392
326	326	352	395	374	374	480	543	480
43	57	60	105	100	132	279	316	320
6.5	10	12	19	26	35	45	65	80
230 / 400	230 / 400	230 / 400	230 / 400	230 / 400	230 / 400	230 / 400	230 / 400	230 / 400
14.2 / 9.4	21.7 / 14.4	26.1 / 17.3	41.4 / 27.4	56.3 / 37.5	75 / 50.5	97.4 / 64.9	140.7 / 93.8	173.2 / 115.4
1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3
AVR	AVR	AVR	AVR	AVR	AVR	AVR	AVR	AVR
37	52	56	66 / 83	83	103	93	123	183
55	78	84	99 / 113	113	133	123	153	213
180 (2,600)	180 (2,600)	180 (2,600)	250 / 190 (3,650 / 2,750)	250 (3,650)	270 (3,900)	370 (5,350)	360 (5,200)	330 (4,800)
210 (3,050)	210 (3,050)	210 (3,050)	260 / 280 (3,750 / 4,050)	280 (4,050)	280 (4,050)	420 (6,100)	420 (6,100)	420 (6,100)

Hydraulic Welders



FEATURES

- The ultra-compact design ensures easy installation and saves valuable space on the parent machine
- Ability to install on any type of machinery with a hydraulic system
- The reliable and maintenance-free design ensures downtime is reduced to a minimum
- Eliminates the need to move heavy engine-driven generators around the site and the need to carry hazardous fuel containers
- State-of-the-art hydraulic motors ensure continuous quiet operation
- Auxiliary power outlets in single and three phase
- Heavy duty twin poll coils
- Automatic welding current control maintains continuous current
- The automatic voltage regulator (AVR) maintains the voltage at a steady level in accordance with international standards
- Built-in residual current device and safety earth leakage relay protects users from electrocution
- Circuit overload protection to prevent overheating and damage to the generator

OPTIONS

- Installation valves
- Pressure relief valve for RPM-control cartridge



		HWG-180	HWG-220	HWG-300	HWG-400
Length	mm	563	567	613	801
Width	mm	212	212	285	318
Height	mm	365	370	434	544
Weight	kg	51	52	92	132
Welding Current	ADC	40 - 180	30 - 220	40 - 300	30 - 400
Welding Voltage	VDC	21.5 - 28.8	21.5 - 28.8	21.5 - 32	22 - 36
Welding Electrode Size	mm	4	5	6	7
Auxiliary Output Voltage	V	230 / 400	230 / 400	230 / 400	230 / 400
Auxiliary Output Power	kVA	3 / 6	3 / 6	4 / 10	4 / 10
Auxiliary Output Current	A	13 / 8.7	13 / 8.7	17.4 / 14.4	17.4 / 14.4
Min Hydraulic Flow	l/min	36	51	56	81
Max Hydraulic Flow	l/min	53	68	88	101
Operating Hydraulic Pressure	bar (psi)	190 (2,750)	155 (2,250)	175 (2,550)	200 (2,900)
Max Hydraulic Pressure	bar (psi)	210 (3,050)	210 (3,050)	210 (3,050)	210 (3,050)

OVERVIEW

Our hydraulic welding generators boast the best power-to-size ratio out of suppliers worldwide. High-quality welding current from 180A up to 400A with the guarantee of easy installation and operation, these units make light work of demanding tasks for all contractors and other users. A new generation of hydraulic motors makes for even more efficient operation and dramatically reduces sound levels, making for a pleasant experience for extended use intervals.



Hydraulic Piston Air Compressors



FEATURES

- The fully integrated hydraulic motor removes the need for an auxiliary engine, saving on capital and operational expenditure
- An ultra-low maintenance design reduces downtime and operating costs
- Easy to install and operate on any hydraulic system
- The simple and robust structure increases reliability
- The design is much more compact than traditional piston compressors with similar output
- Best suited for applications with intermittent use
- The air reservoir is built into the compressor's frame, reducing the overall size
- An optional pneumatic cut-off valve automatically bypasses the hydraulic flow once set air pressure has been reached, making the compressor more efficient
- The integrated air cooler ensures maximum reliability even in extreme conditions

OPTIONS

- Hydraulic installation valves
- Pneumatic-controlled unloader valve
- Electrical-controlled pressure cut off valve
- Pneumatic-controlled pressure cut off valve
- Solenoid valve to start and stop the compressor
- High-capacity cyclone air filter
- Additional breather tank
- Compressed air aftercooler
- Additional hose reels and accessories



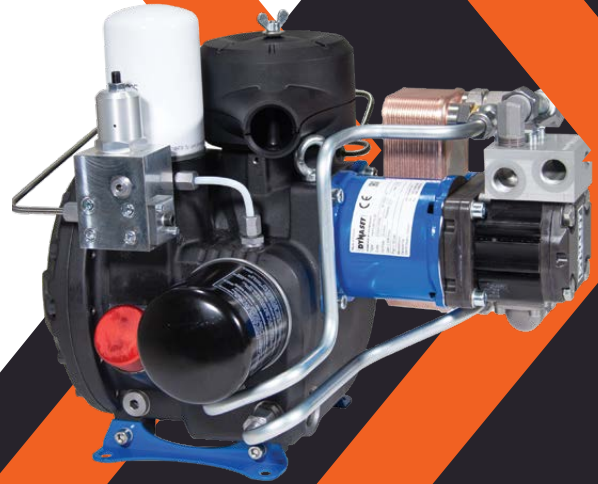
		HK-450	HK-1000
Length	mm	508	710
Width	mm	422	490
Height	mm	423	605
Weight	kg	35	80
Max Discharge Flow	cfm (l/min)	16 (450)	35 (1,000)
Max Discharge Pressure	bar (psi)	8 (115)	12 (175)
Air Tank Reservoir	l	4.3	14
Air Outlet Connection		BSP 1/2"	BSP 1"
Operating Hydraulic Flow	l/min	15	35
Max Hydraulic Flow	l/min	21	50
Operating Hydraulic Pressure	bar (psi)	130 (1,900)	210 (3,050)
Max Hydraulic Pressure	bar (psi)	210 (3,050)	230 (3,350)

OVERVIEW

Simple to install and easy to operate are just two reasons why our hydraulic piston air compressors are trusted by many contractors and service companies around the world. A fully integrated air reservoir adds to the already ultra-compact design saving every inch of valuable storage space. With models ranging from 15 to 35 cfm, you can remove large and unreliable auxiliary engines by installing one of the most versatile pieces of equipment.



Hydraulic Rotary Screw Air Compressors



FEATURES

- Compact design with the world's best power-to-size ratio
- Driven by hydraulics means the compressor can be installed practically anywhere
- A fraction of the weight and size compared to traditional larger piston compressors means that installation and servicing is a lot easier
- 100% duty - these compressors are designed to operate at full capacity 24/7 without let up
- German designed and manufactured air end with the highest level of manufacturing quality
- The patented rotor design results in extremely efficient operation using up to 20% less power than alternatives
- The air compressor transfers any heat to the hydraulic system removing the need for any additional cooling equipment. There is also no cleaning required for the compressor cooler
- A silent hydraulic motor fully integrated into the hydraulic rotary-screw compressor
- The Dynaset silent hydraulic motors are designed to produce a sound level that is not only significantly lower, but also with an improved sound structure and frequency level which results in the motor almost sounding silent. The better sound characteristics drastically improve the working environment and user ergonomics
- The silent hydraulic motors are designed to be more efficient and durable with less mechanical friction and a lower operating temperature
- The hydraulic motor's shaft seal is designed for higher pressure endurance
- Simple and accessible service components

OPTIONS

- High-capacity cyclone air intake filters
- Over-temperature cut off switch
- Air/water separator filters
- Compressed air reservoirs
- Compressed air aftercooler
- Additional hose reels and accessories
- Hydraulic installation valves

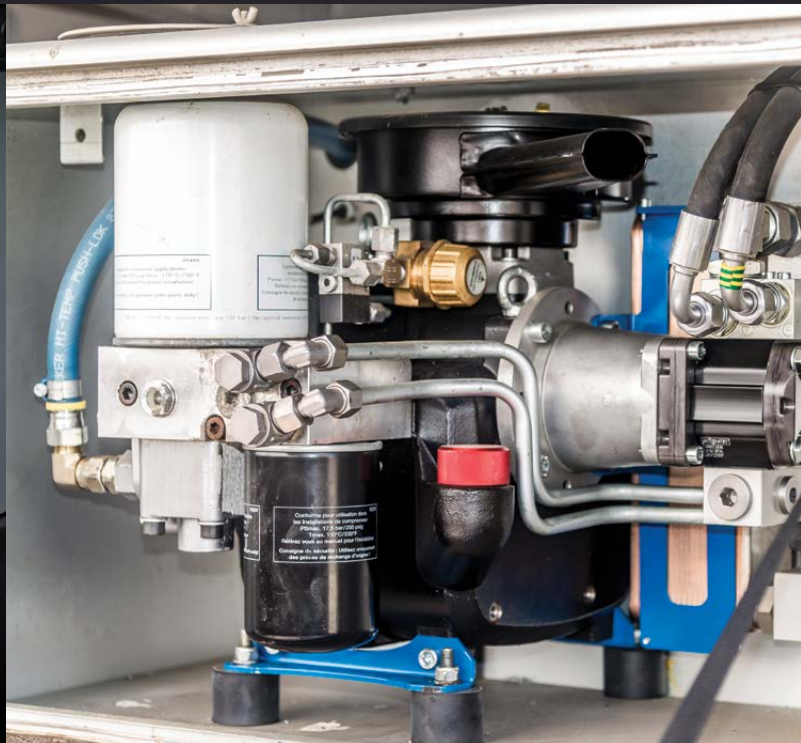
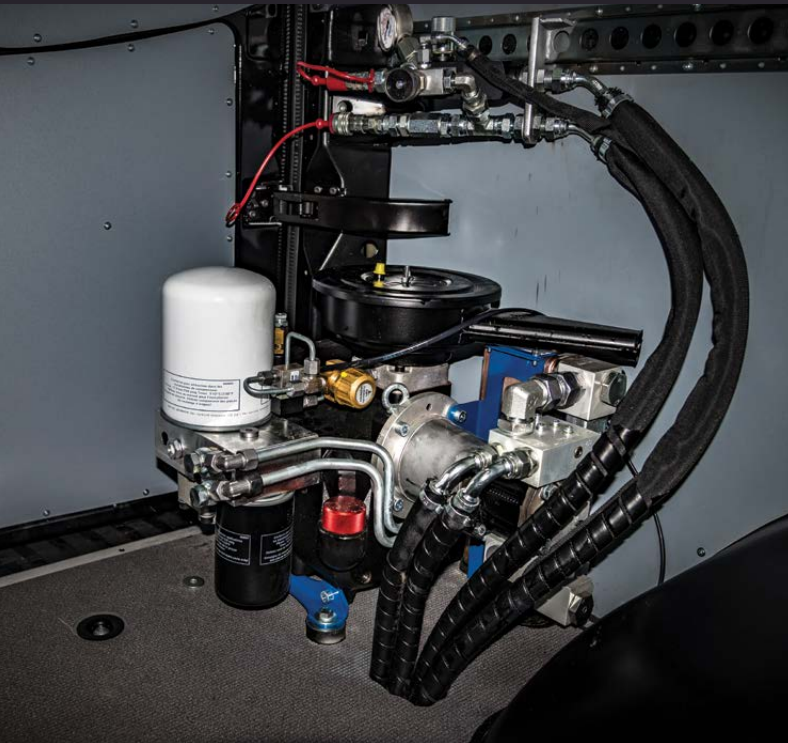


HKR-500

Length	mm	450
Width	mm	350
Height	mm	390
Weight	kg	43
Max Discharge Flow	cfm (l/min)	18 (500)
Max Discharge Pressure	bar (psi)	10 (145)
Air Outlet Connection		BSP 1/2"
Min Hydraulic Flow	l/min	19
Max Hydraulic Flow	l/min	30
Operating Hydraulic Pressure	bar (psi)	130 (1,900)
Max Hydraulic Pressure	bar (psi)	230 (3,350)
Hydraulic Cooling Requirement	kW	4

OVERVIEW

Our range of extremely compact hydraulic rotary screw air compressors boasts the world's best power-to-size ratio and is designed for demanding 24/7 applications. Replace large and heavy outdated air compressors with a state-of-the-art solution that is guaranteed to improve performance and reliability. The fully integrated cooling system removes additional components and greatly improves reliability and efficiency.



HKR-600	HKR-800	HKR-1300	HKR-2000	HKR-2500	HKR-4000	HKR-5000	HKR-7500	HKR-11000
490	450	490	490	490	650	670	779	1,603
371	350	455	455	455	520	520	622	799
461	390	453	453	453	574	574	722	946
43	43	74	74	74	137	137	270	377
21	28	46	71	88	140	175	265	390
(600)	(800)	(1,300)	(2,000)	(2,500)	(4,000)	(5,000)	(7,500)	(11,000)
15	10	10	10	10	10	10	10	10
(218)	(145)	(145)	(145)	(145)	(145)	(145)	(145)	(145)
BSP 1/2"	BSP 1/2"	BSP 3/4"	BSP 3/4"	BSP 3/4"	BSP 1"	BSP 1"	BSP 1 1/2"	BSP 2"
16	21	27	30	35	55	60	70	115 / 165
30	45	40	55	80	105	140	200	190 / 270
195	135	205	205	205	215	210	230	345 / 230
(2,850)	(1,950)	(2,950)	(2,950)	(2,950)	(3,100)	(3,050)	(3,350)	(5,000 / 3,350)
230	230	230	230	230	230	230	270	380
(3,350)	(3,350)	(3,350)	(3,350)	(3,350)	(3,350)	(3,350)	(3,900)	(5,500)
5	6	7	11	13	22	27	40	-

Hydraulic Water Blasters



FEATURES

- Ultra-compact design boasting the world's best power-to-size and power-to-weight ratio for any high-pressure water pump
- No rotating parts improves reliability and removes the need for separate lubrication or cooling
- Cooled and lubricated by the hydraulic fluid making it safe to run dry for an unlimited length of time
- Can be used with sea water provided fresh water is run through afterwards
- A patented piston-to-piston design removes any rotating parts and greatly increases reliability
- Ultra-low maintenance design with only one wearing seal
- Constructed from high grade materials making the pump robust and reliable
- Built in adjustable unloader valve with a pressure gauge
- Linear water flow adjustable from 0% - 100% by controlling the hydraulic flow
- Self-priming up to 3m
- Lower water consumption than traditional water pumps

OPTIONS

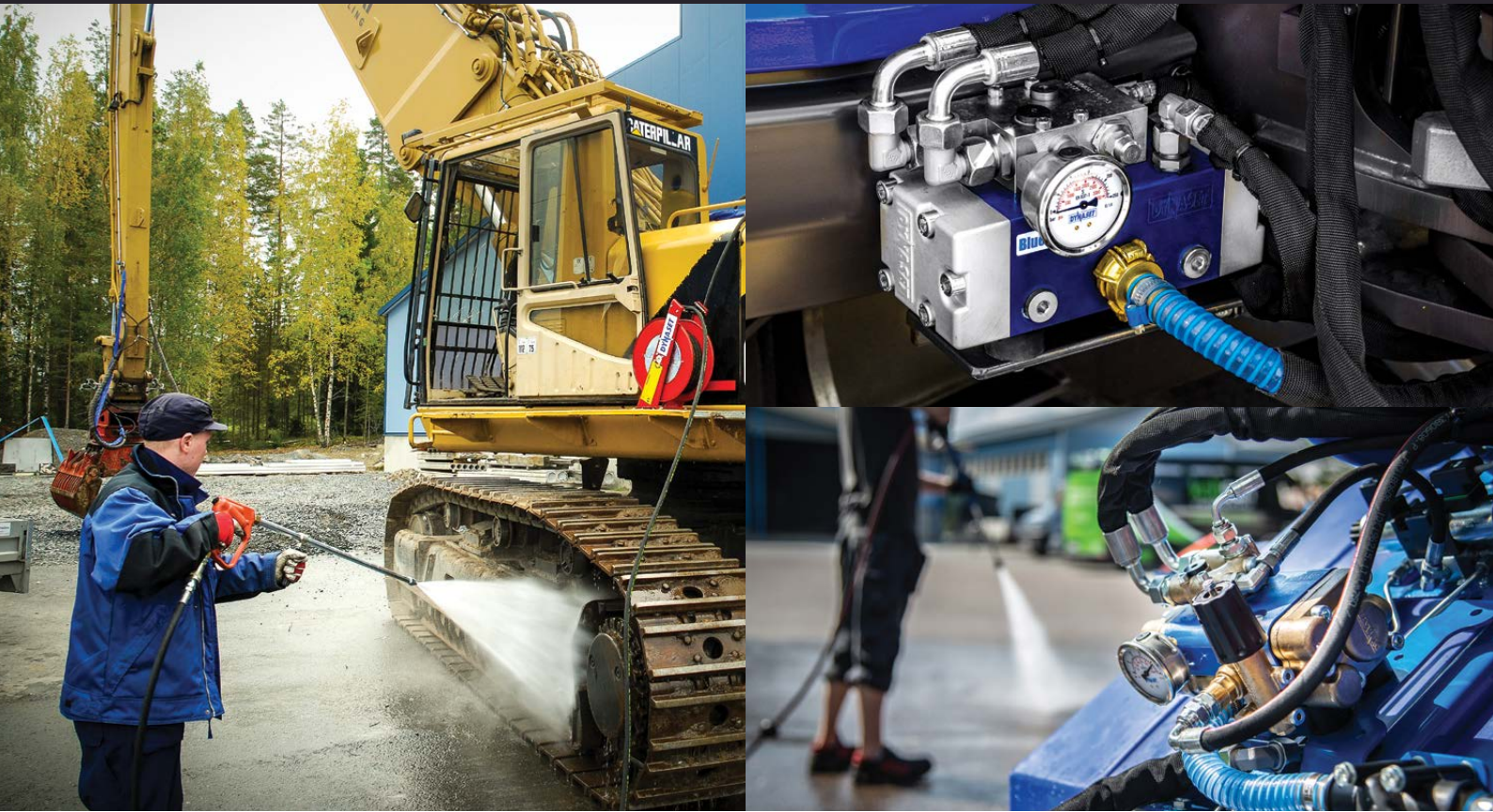
- Models without unloader valve or pressure gauge
- Models with integrated hydraulic valves
- Suction hose kit with water filter
- Washing lances
- Retractable hose reels
- Saltwater models constructed of high-grade materials
- Hydraulic installation valves



		HPW-160	HPW-420
Length	mm	210	160
Width	mm	100	245
Height	mm	110	155
Weight	kg	6.2	16
Max Discharge Flow	l/min	18	20
Max Discharge Pressure	bar (psi)	16 (2,300)	420 (6,100)
Output Power	kW	4.8	14
Max Hydraulic Flow	l/min	18	50
Max Hydraulic Pressure	bar (psi)	210 (3,050)	220 (3,200)
Max Suction Head	m	3	3

OVERVIEW

Compact in size, lightweight, durable construction and low water consumption are just a few reasons why our hydraulic high-pressure water pumps are recognised as the ultimate tool to help increase productivity and reduce costs. The patented design which is completely free of rotating parts means it can run dry for extended periods of time, without compromising the high standard of reliability that is needed in today's environment.



HPW-250	HPW-520	HPW-800	HPW-220	HPW-460	HPW-320	HPW-180	HPW-90	HPW-130
167	140	195	170	195	250	240	175	175
238	290	340	280	314	344	330	345	400
179	175	195	185	197	282	175	250	270
11	22	39	18	26	32	28	31	45
30	30	30	50	50	75	90	150	180
250 (3,650)	520 (7,550)	800 (11,600)	220 (3,200)	460 (6,650)	320 (4,650)	180 (2,600)	90 (1,300)	130 (1,900)
12.5	26	40	18.5	38	40	27	22.5	39
40	85	140	70	115	125	115	85	140
260 (3,750)	250 (3,650)	210 (3,050)	210 (3,050)	250 (3,650)	250 (3,650)	210 (3,050)	210 (3,050)	250 (3,650)
3	3	2	3	3	3	3	3	3

Pipe Cleaning Systems



FEATURES

- The pipe cleaning unit provides effective washing length up to 100 meters horizontally and 20 meters vertically
- Compact all-in-one unit takes minimal space from a vehicle and saves space for other uses
- Hydraulically operated hose reel
- Unreeling the hose is easy due to the free reel rotation. The reel can be locked hydraulically in any position
- The rotation speed of the hose reel can be changed by adjusting the hydraulic flow that rotates the reel motor
- Ultra-compact design boasting the world's best power-to-size and power-to-weight ratio for any high-pressure water pump
- No rotating parts improves reliability and removes the need for separate lubrication or cooling
- Cooled and lubricated by the hydraulic fluid making it safe to run dry for an unlimited length of time
- Can be used with sea water provided fresh water is run through afterwards
- A patented piston-to-piston design removes any rotating parts and greatly increases reliability
- Ultra-low maintenance design with only one wearing seal
- Constructed from high grade materials making the pump robust and reliable
- Built in adjustable unloader valve with a pressure gauge
- Linear water flow adjustable from 0% - 100% by controlling the hydraulic flow
- Self-priming up to 3m
- Lower water consumption than traditional water pumps

OPTIONS

- Hydraulic or electronic hose reel control
- Remote control for electronic functions
- Retractable hose reel with washing lance
- Suction hose kit with water filter
- Hydraulic installation valves

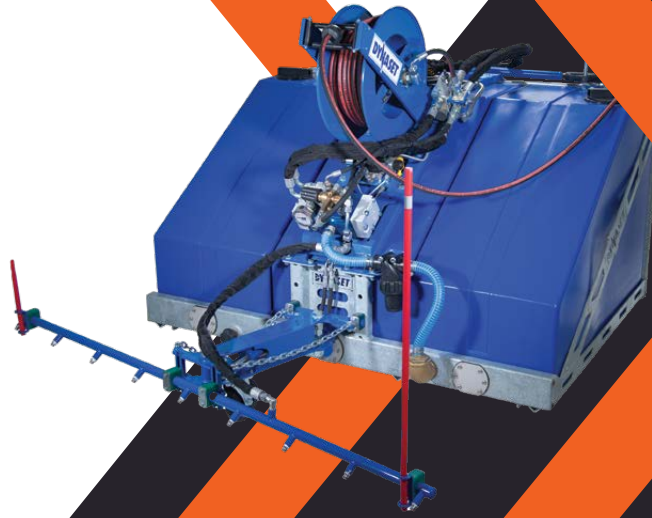
		PPL-250	PPL-220	PPL-180	PPL-460
Length	mm	640	640	640	640
Width	mm	500	500	500	500
Height	mm	840	840	890	890
Weight	kg	69	72	73	85
Maximum Water Flow	l/min	30	50	90	50
Maximum Water Pressure	bar (psi)	250 (3,650)	220 (3,200)	180 (2,600)	460 (6,650)
Pipe Cleaning Hose Length	m	50	50	50	100
Max Hydraulic Flow	l/min	40	70	115	115
Max Hydraulic Pressure	bar (psi)	260 (3,750)	210 (3,050)	210 (3,050)	210 (3,050)

OVERVIEW

Our hydraulic pipe cleaning unit is a great machine for cleaning and flushing pipes and sewers. High-pressure water is pumped through the hose and jets from the special nozzle propel it through the pipe. After use, the hose can be hydraulically rewound onto the hose reel. Capable of 100m horizontal and 20m vertical effective cleaning lengths.



Street Washers



FEATURES

- Deep cleans surfaces by using high-pressure water which digs dirt and dust out from the pores in asphalt, concrete and similar surfaces. This way the surface will not emit dust after drying
- Eliminates dust when cleaning, reducing hazards for the worker and public
- Low water consumption increases productivity by reducing the time spent filling water tanks
- Water pressure is generated through our world-renowned hydraulic high-pressure water pumps
- Control of water flow and pressure from 0% - 100% gives greater flexibility to the range applications
- Easily operated from within the vehicle cabin with a clear field of view
- Moving washing head giving control of the direction of cleaning
- Includes a washing gun for handheld cleaning
- An all-in-one compact and lightweight design saves space and time

OPTIONS

- Alternative configurations for trucks, water carts, tractors and loaders
- Models without water tanks or remotely mounted tanks
- Custom manufactured quick hitches to suit



		KPL-S-250	KPL-M-250	KPL-L-250	KPL-L-220	KPL-XL-220	KPL-XL-180
Length	mm	960	1,655	1,655	1,655	1,655	1,655
Width	mm	1,042	960	1,438	1,438	1,916	1,916
Height	mm	1,143	1,100	1,100	1,100	1,100	1,100
Weight	kg	80	212	215	225	302	312
Working Width	mm	1,250	1,650	1,650	1,850	2,200	2,200
Water Tank	l	270	540	810	810	1,080	1,080
Max Discharge Flow	l/min	30	30	30	50	50	90
Max Discharge Pressure	bar (psi)	250 (3,650)	250 (3,650)	250 (3,650)	220 (3,200)	220 (3,200)	180 (2,600)
Max Hydraulic Flow	l/min	40	40	40	70	70	115
Max Hydraulic Pressure	bar (psi)	210 (3,050)	210 (3,050)	210 (3,050)	210 (3,050)	210 (3,050)	210 (3,050)

OVERVIEW

Increase your capabilities and productivity by using our state-of-the-art high-pressure street washers. High-pressure water digs dust and sand out from the pores in asphalt, concrete and similar surfaces. Compact size, lightweight and low water consumption make our unit a cost-saving and work efficient solution.



Hydraulic Submersible Pumps



FEATURES

- Powered by the base machine's hydraulic system which removes the need for any electricity, eliminating any health and safety risk of electric shock
- The pump's impeller is made from Hardox®, meaning it is easily able to tolerate solids and abrasive substances making for carefree operation
- Greaseable bearings allow the pump to run dry without causing any damage to bearings or seals
- The rugged design, low maintenance structure and no wearing parts ensure the pump is a long-lasting solution designed to continue pumping for years to come
- A mesh grate prevents any debris from clogging the pump motor
- The grate can be easily removed for maintenance or cleaning of the pump
- A light weight and compact design allows for access to confined spaces like pile holes

OPTIONS

- Camlock hose fittings
- Lay-flat hose kits
- Flow limiting valves
- Hydraulic installation valves



		HSP-900	HSP-3000	HSP-6500	HSP-8500
Diameter	mm	162	304	477	573
Height	mm	335	347	471	525
Weight	kg	5.2	13	39	51
Max Discharge Flow (5m Head)	l/min	900	3,000	6,500	8,500
Max Discharge Flow (Max Head)	l/min	50	300	100	50
Max Pumping Head	mm	21	50	50	40
Outlet Connection		2"	3"	5"	6"
Max Hydraulic Flow	l/min	36	70	135	215
Max Hydraulic Pressure	bar (psi)	170 (2,500)	250 (3,650)	250 (3,650)	230 (3,350)

OVERVIEW

These hydraulic submersible pumps have a higher efficiency and a better power-to-size ratio compared to traditional electric pumps, increasing productivity and in turn increasing profits. A compact size with a rugged and durable design make these the perfect attachment for any mobile machine such as excavators, tractors and other earthmoving machinery.



Hydraulic Magnet Generators



FEATURES

- The magnet generator can be installed anywhere on the machine, because it operates with a compact hydraulic motor instead of a belt drive
- A patented RPM control valve ensures constant power frequency irrelevant to hydraulic flow
- Compact design with the world's best power-to-size ratio
- Reliable and durable construction with weatherproof housing making it possible to mount anywhere on the vehicle or equipment
- Ideal power source for any lifting magnet
- World's fastest demagnetising time of 0.8 seconds
- Maintenance-free reduces operational costs and downtime
- Can be controlled either electrically or hydraulically via a remote mounted switch
- Suitable for any hydraulic system provided it meets the minimum flow and pressure requirements
- Digital screen to provide generator operating status
- Rubber mounted generator to absorb vibrations

OPTIONS

- Wireless control display
- Wiring kits for cabin controller
- Magnet cable kits
- Additional auxiliary power outlets
- Larger models available up to 40 kW



		HMG-PRO-3KW	HMG-PRO-6KW	HMG-PRO-10KW	HMG-PRO-15KW	HMG-PRO-20KW	HMG-PRO-30KW	HMG-PRO-40KW
Length	mm	392	522	580	585	652	850	850
Width	mm	342	325	325	451	456	660	660
Height	mm	298	336	336	389	375	523	523
Weight	kg	34	52	74	76	114	190	190
Generator Output	kw	3	6	10	15	20	30	40
Max Magnet Coil Power	kw	3	5.5	9.1	14.5	19.5	29.5	39.5
Magnet Coil Resistance	Ohm	15-100	8.8-100	5.4-100	3.6-50	2.6-50	-	-
Operating Voltage	VDC	220	220	220	220	220	220	220
Min Hydraulic Flow	l/min	21	32	44	68	100	112	112
Max Hydraulic Flow	l/min	32	48	69	102	150	168	168
Operating Hydraulic Pressure	bar (psi)	200 (2,900)	160 (2,300)	215 (3,100)	230 (3,350)	180 (2,610)	230 (3,350)	300 (4,350)
Max Hydraulic Pressure	bar (psi)	210 (3,050)	210 (3,050)	250 (3,650)	260 (3,800)	210 (3,050)	350 (5,100)	350 (5,100)

OVERVIEW

Our hydraulic-driven magnet generators provide a stable and reliable source of electricity for any lifting magnet. A complete turnkey package when coupled with our priority valve system, which ensures a stable electrical current is sent to the magnet. Guaranteed to increase your productivity with the world's fastest demagnetising time of 0.8 seconds when combined with one of our lifting magnets.



Hydraulic Vibration Technology



FEATURES

- Boosts the performance of an excavator cost-effectively without compromising reliability
- Improves efficient working with a smaller excavator
- Allows a compact excavator to perform equally well as a larger excavator
- Diversifies the use of an excavator in different applications
- Works easily by the push of a joystick's button
- HVB is connected directly into the hydraulic cylinder and sends a pulse of hydraulic fluid, making the cylinder vibrate in the desired motion
- HVD is a standalone, directional vibrating unit that can be mounted onto any piece of machinery to make it vibrate

OPTIONS

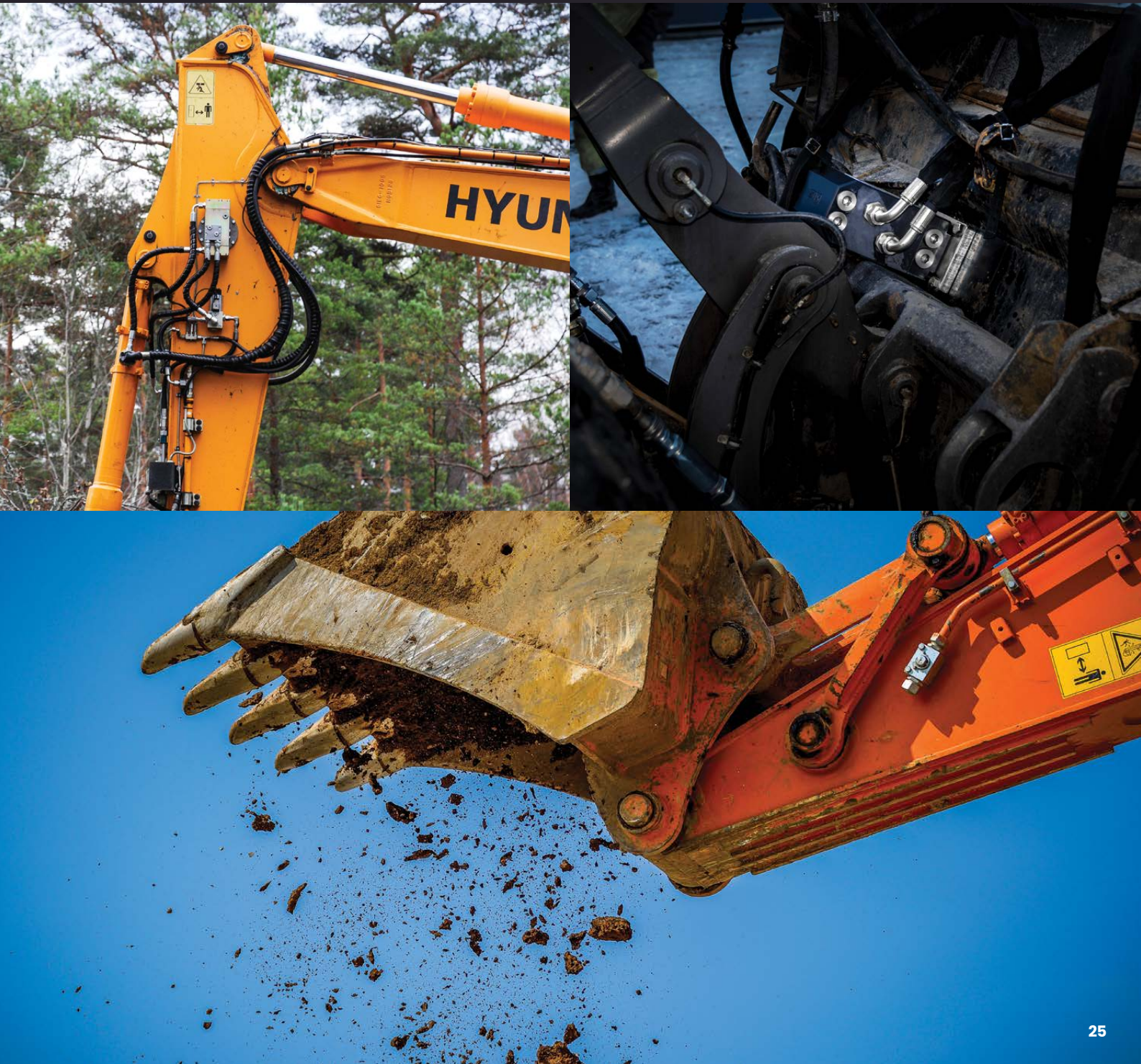
- Flow limiting valves
- Solenoid valve with oil flow limiter
- Additional specialised models available



		HVB-350/9	HVB-350/18	HVB-350/27	HVD-18/55	HVD-70/35
Length	mm	253	253	253	225	278
Width	mm	115	115	115	80	135
Height	mm	130	130	130	122	183
Weight	kg	13	13	13	13	40
Frequency	Hz	30	23	19	55	35
Max Vibration Force	kN	-	-	-	18	70
Piston Displacement	cm ³	9	18	27	-	-
Max Hydraulic Flow	l/min	40	60	80	24	100
Operating Pressure	bar (psi)	350 (5,100)	350 (5,100)	350 (5,100)	210 (3,050)	210 (3,050)

OVERVIEW

Our hydraulic vibration units give you a competitive edge by enhancing the performance of the base machine. Used in bucket emptying, soil compacting, asphalt cutting and pile driving, the vibration device can triple the impact of the base machine. This patented technology allows us to help contractors and machinery operators increase their productivity without compromising reliability.



Hydraulic Power Packs



OVERVIEW

Our hydraulic power packs are designed to give years of reliable service with minimal maintenance. Standard with integrated hydraulic oil coolers and return filters help create the ultimate package. With every engine and hydraulic pump closely matched to optimise system performance, fuel efficiency and service life, these power packs are the ultimate addition to your work site.

FEATURES

- Compact design with smaller models having the ability to fit through tight doorways
- Rubber wheels and fold-down handles for easy transport around site on smaller models
- Heavy duty frame designed to protect the engine and hydraulic system from harsh conditions
- Temperature controlled, air-cooled radiator for the hydraulic system to prevent the system from overheating
- Electric engine start for ease of use
- The integrated oil reservoir with an oil filter ensures no impurities can travel through the system
- Two pairs of outlets give the ability to run multiple pieces of equipment or tooling at the same time
- Electrically driven models also available on request
- We can also design and build systems to clients' specific needs

OPTIONS

- Electrically driven models
- Many different quick coupling options
- Built-in accessories like generators or high-pressure water pumps



		HPU-38	HPU-55
Length	mm	720	1,621
Width	mm	510	906
Height	mm	650	982
Weight	kg	130	650
Engine Power	hp (kW)	18 (13.4)	74 (55)
Max Hydraulic Flow	l/min	38	150 / 210
Max Hydraulic Pressure	l/min	210 (3,050)	350 (5,100)

Hydraulic Valving



OVERVIEW

We have a range of installation valves to guarantee easy setup and operation of our equipment. From pressure and flow restrictors to load sensing and priority valves, we have a large range of options to cover every application. We also offer a modular system which is a combination of different valve blocks that are sandwiched together providing endless possibilities.

FEATURES

- Priority Valve (PV-SAE) is used when you need to establish a new hydraulic line for a piece of hydraulic equipment. The valve prioritises the hydraulic oil flow to a piece of hydraulic equipment e.g. HG Hydraulic Generator. The priority valve has an integrated pressure limiter that protects the piece of hydraulic equipment from pressure peaks. It enables the simultaneous use of the carrier machine's basic manoeuvres and usage of the piece of hydraulic equipment

- Load Sensing Valve (LSV) senses the need for hydraulic oil flow. It controls the amount of hydraulic oil flow that is led to the piece of hydraulic equipment. The Load Sensing Valve has an integrated pressure limiter that protects the piece of hydraulic equipment from pressure peaks
- Solenoid Valve (SV & SV-SAE) is for controlling your piece of hydraulic equipment. Solenoid Valve makes hydraulic oil flow electrically controllable
- Flow Limiter Valve (VR) limits the hydraulic oil flow to the required level for the installed piece of equipment

OPTIONS

- 12 or 24 volt options
- Custom designed solutions for any application
- Stepless pressure and flow limits set at factory



MODEL	MAX FLOW	MAX PRESSURE
PV-SAE (3/4" SAE Flange)	70 l/min	350 bar (5,100 psi)
PV-SAE (1" SAE Flange)	100 l/min	350 bar (5,100 psi)
PV-SAE (1 1/4" SAE Flange)	140 l/min	350 bar (5,100 psi)
LSV	40 - 150 l/min	350 bar (5,100 psi)
SV	70 - 260 l/min	350 bar (5,100 psi)
VR	40 - 200 l/min	350 bar (5,100 psi)

Why use the vehicle engine?

EASY ACCESS

With no requirement for additional mobile energy source trailers, operators are able to provide quicker response times and closer proximity to job sites.

SAFE AND SECURE

Eliminates the hazard of carrying fuel containers and the risk of towed equipment being damaged or stolen.

SPACE SAVING

Frees up vehicle storage space and towing capacity to carry materials, tools, and equipment.

INTEGRATED

These fully integrated systems allow your vehicle's engine to power both the compressor and the generator simultaneously.

ENVIRONMENTAL RESPONSIBILITY

All emissions are run through the vehicle's emissions system, removing visible smoke and damaging emissions ensuring environmental responsibility.

LOW MAINTENANCE

Removal of additional power sources and auxiliary motors reduces maintenance costs and possible downtime.

QUIETNESS

The vehicle's engine dB rating is <25% quieter than auxiliary engine driven options.



Vehicle Powered Systems

Base Vehicles	30
Drive Methods	31
Systems for Utility Vehicles	32-33
Systems for Tyre Fitting Vehicles	34-35
Systems for Service Vehicles	36-37
Battery Air Compressors	38-39

Base Vehicles



COMMERCIAL TRUCKS

The ultimate solution for applications that require an increased GVM with the flexibility to operate in urban environments. Having the ability to install our system either below or above deck means we have multiple configurations to increase productivity for a variety of service vehicles and infrastructure applications.

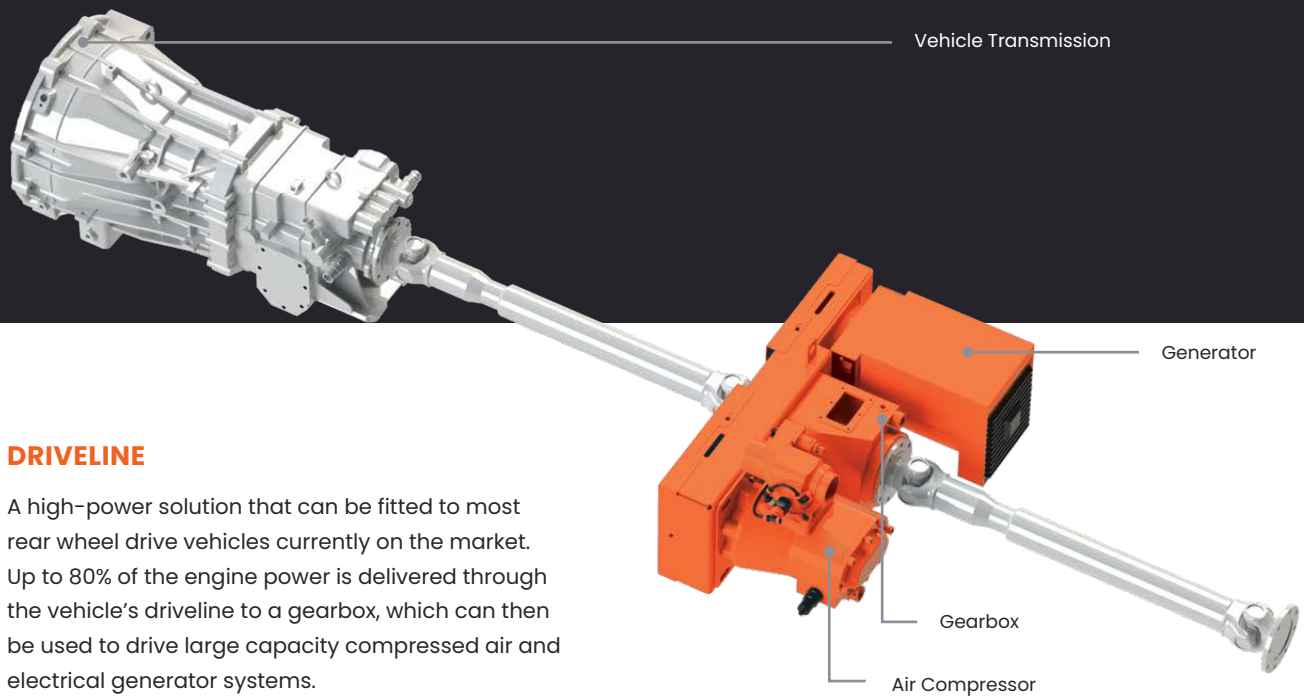


COMMERCIAL VANS

With storage space being a premium in a work van, it is important to make the best use of the available area. By installing our below deck system, you can ensure you will be utilising the space in the most efficient way, either through areas for material and product storage or by converting the space into a workstation, eliminating the risk of environmental factors effecting the task at hand.



Drive Methods



DRIVELINE

A high-power solution that can be fitted to most rear wheel drive vehicles currently on the market. Up to 80% of the engine power is delivered through the vehicle's driveline to a gearbox, which can then be used to drive large capacity compressed air and electrical generator systems.



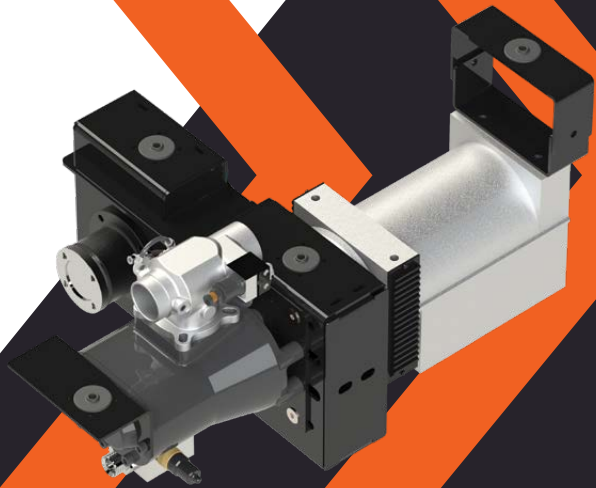
PTO

A well proven way of driving auxiliary equipment. This system is driven from the additional power take-off (PTO) point on the vehicle's transmission. With a large range of configurations available, this system can be installed onto any vehicle with a compatible transmission. Simple operation through the vehicle's control system makes these systems an ideal solution for contractors.

HYDRAULIC

Our most versatile solution, with the ability to power a large range of equipment. Mounted either above or below the vehicle's deck, this is an ideal solution for systems that need to incorporate a crane or other hydraulic equipment. Capable of powering larger systems that cannot be installed below the vehicle's deck.

Systems for Utility Vehicles



KEY BENEFITS

- 10 - 30% increased internal storage capacity due to our system requiring no above deck space
- 40 - 80% weight reduction, increasing fuel economy and payload capacity
- No need to tow a trailer mounted system, allowing towing capacity for other machinery like excavators
- No requirement for additional petrol or diesel fuel containers needed, reducing health and safety hazards

FEATURES

- Developed for New Zealand operating conditions
- Low operating rpm (1,200 - 1,600) results in quieter operation
- Control systems are designed for reliability, giving full features without complexity
- Compact design contributes to weight saving and increased ground clearance
- European designed and manufactured oil injected air end for quality and reliability
- External mounted compressed air and electrical outlets
- Simplified servicing, with screw off filter and separator cartridges
- High-capacity oil cooler suited to New Zealand conditions
- TIN 12 spec double-dipped generator
- Consumer unit with RCD and digital display showing voltage, current and frequency
- Hour meter with an always readable display
- Emergency stop system
- Complete installation performed by Fennex technicians in house, including any applicable certifications

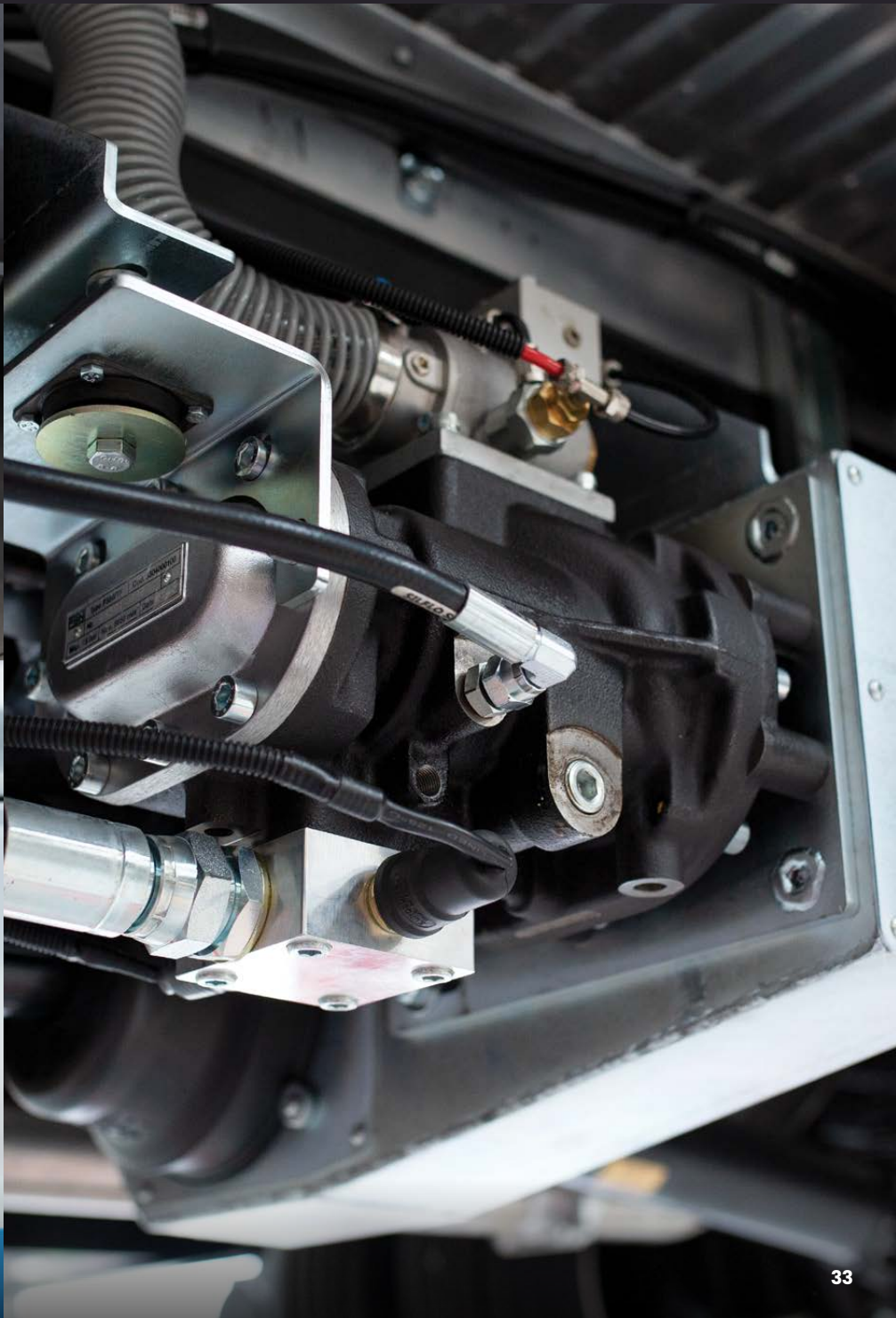
OPTIONS

- Variable speed control system
- Run Lock system which allows for the vehicle's key to be removed from the ignition during operation
- Custom outlets and positions of air and power connections
- Single or three phase generators with outlets
- Internal power outlets
- Air hose reels
- Air aftercooler
- Air receiver tanks
- Automatic drain for air tanks
- Air lubricator

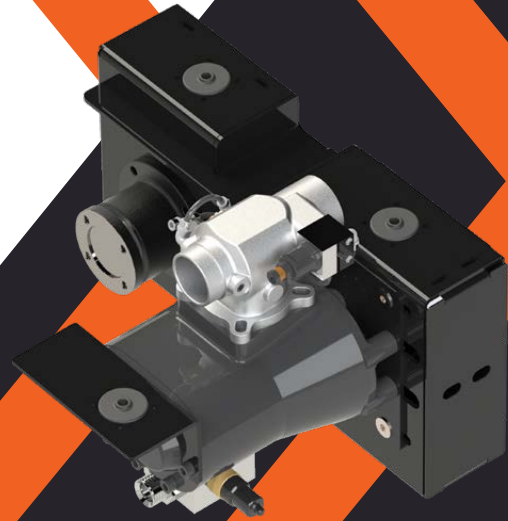
Air Output	30 - 260 cfm
Air Pressure	100 - 180 psi
Electrical Output	6.5 - 80 kVa
Electrical Voltage	240 - 400 VAC

OVERVIEW

Designed specifically for contractors working on and around gas, water, power and communication networks. Our systems have the capacity to provide an energy source for multiple tasks on a large range of equipment from welding machines and trenching moles, to worksite lighting systems.



Systems for Tyre Fitting Vehicles



KEY BENEFITS

- 20 - 30% increased tyre carrying capacity due to our system requiring no above deck space
- Increased productivity by saving an average of four minutes per tyre installation
- Increased profitability by being able to fit approximately 300 more tyres per year
- No requirement for additional petrol or diesel fuel containers needed reducing health and safety hazards

FEATURES

- Developed for New Zealand operating conditions
- Low operating rpm (1,200 - 1,600) results in quieter operation
- Control systems are designed for reliability, giving full features without complexity
- Compact design contributes to weight saving and increased ground clearance
- High-capacity unit running at 50% of max rpm increasing reliability
- European designed and manufactured oil injected air end for quality and reliability
- External mounted air outlets
- Simplified servicing, with screw off filter and separator cartridges
- High-capacity oil cooler for New Zealand conditions
- Hour meter with an always readable display
- Emergency stop system
- Complete installation performed by Fennex technicians in house including any applicable certifications

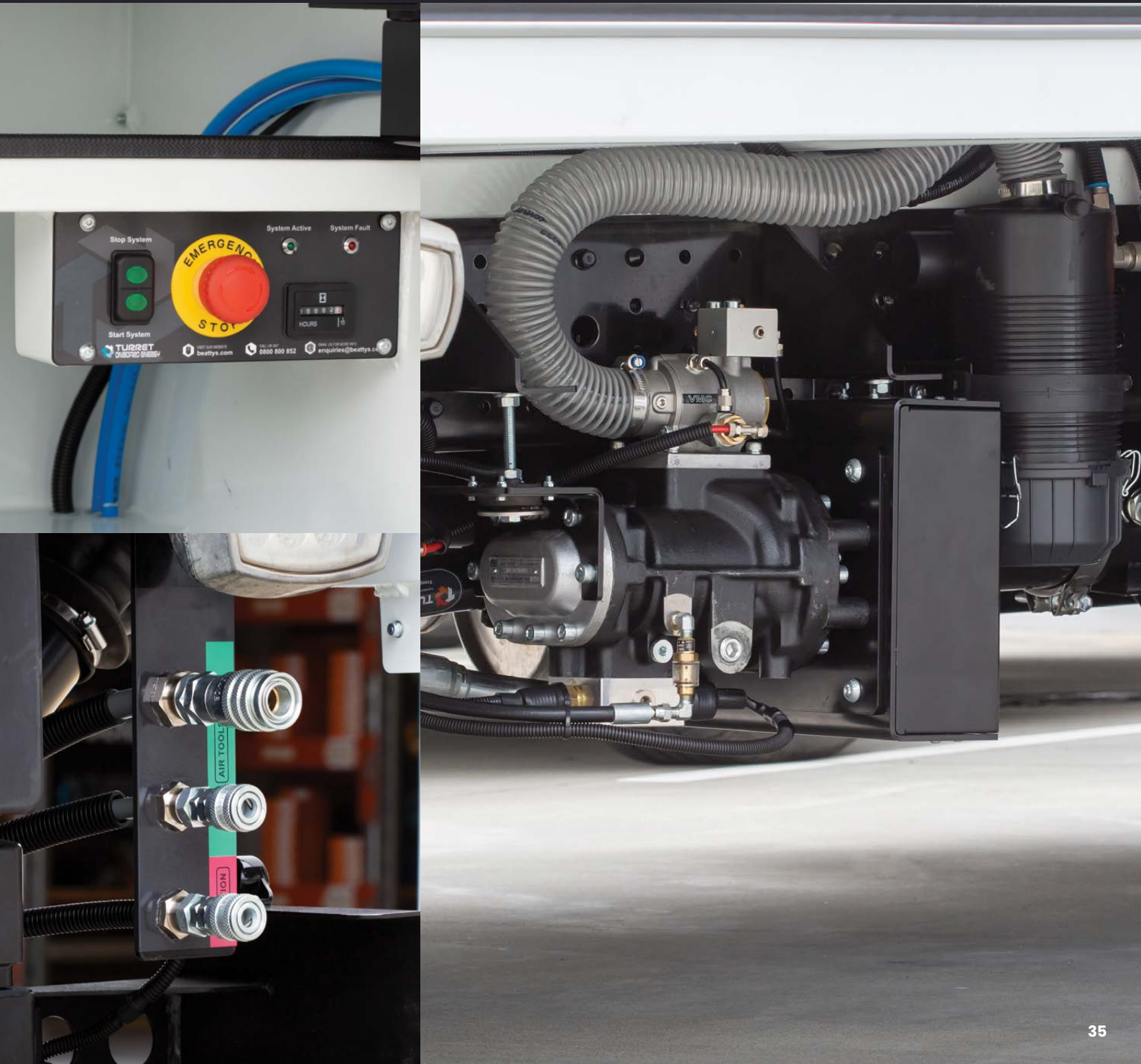
OPTIONS

- Variable speed control system
- Digital tyre inflator
- Run Lock system which allows for the vehicle's key to be removed from the ignition during operation
- Air aftercooler
- Increased capacity air receiver tank
- Automatic drain for air tanks
- Custom outlets and positions of air and power connections
- Single or three phase generators with outlets
- Air hose reels

Air Output	15 - 110 cfm
Air Pressure	100 - 180 psi

OVERVIEW

A complete below-deck system with a high capacity compressor that provides a saving of several minutes on each tyre installation. With the additional benefit of more tyre storage due to added deck space, our system is guaranteed to increase installer output and productivity.



Systems for Service Vehicles



KEY BENEFITS

- 15 - 50% increased internal storage capacity
- 20 - 60% weight reduction, increasing fuel economy and payload capacity
- No requirement for additional petrol or diesel fuel containers needed reducing health and safety hazards

FEATURES

- Developed for New Zealand operating conditions
- Low operating rpm (1,200 - 1,800) results in quieter operation
- Control systems are designed for reliability, giving full features without complexity
- Compact design contributes to weight saving and increased ground clearance
- Optional load sensing hydraulic system improves fuel economy by up to 60%
- Complete system mounted on compact skid for easy installation
- Simplified servicing, with screw off filter and separator cartridges
- High-capacity oil cooler for New Zealand conditions
- Hour meter with an always readable display
- Complete installation performed by Fennex technicians in house including any applicable certifications

OPTIONS

- Hydraulic supply for truck crane
- Hydraulic powered welder generator
- Variable speed control system
- Upgraded air receiver tank
- Automatic drain for air tanks
- Custom outlets and positions of air and power connections
- Air hose reels

Air Output	15 - 110 cfm
Air Pressure	100 - 180 psi
Electrical Output	3.5 - 80 kVa
Electrical Voltage	240 - 400 VAC

OVERVIEW

Our energy systems provide service technicians with the correct tools to undertake maintenance tasks quickly and efficiently, ensuring that downtime is kept to a minimum. From welders to pneumatic tools, our systems are tailored to suit the specific needs of any fleet to meet the increasing demand on vehicles and heavy machinery.



Battery Air Compressors



FEATURES

- No exhaust fumes - our air compressors are powered by clean DC electrical energy. Compressors that run on gasoline or diesel engines produce exhaust fumes emitted into the atmosphere. In close quarters these emissions pose a health hazard
- Non-polluting - gasoline engines not only produce harmful exhaust emissions, but their fuel and oil can also pollute the environment. Compressors that run on gas-powered engines require frequent refuelling, which means carrying gas containers on the job. Fuel spills and oil changes can contaminate soil and cause pollution
- Low noise - the irritating noise caused by a loud engine exhaust disrupts the serenity of quiet neighbourhoods, often resulting in complaints from residences and businesses. The sound emitted by our compressors is limited to the whirl of the DC electric motor and the subdued flutter of the compressor pistons and valves
- Low maintenance - by using a maintenance-free electric motor there is no engine to maintain. No fuel filters to replace, no spark plugs to replace and no carburettor to adjust
- 12-volt or 24-volt high performance industrial motor
- 100% duty air compressor
- Low voltage cut-off technology turns the compressor off if the voltage drops to protect the motor
- Direct port intake design stabilises air flow for maximum performance
- Dual-ring oil control pistons significantly reduce oil introduced into the air supply

- Oil reservoir chamber provides relief for crankcase oil transfer and expansion
- Oil sight glass offers a quick visual check of crankcase lubrication
- High flow Swedish steel valves
- High flow long-life air filter with a replaceable element
- Deep finned heads dramatically reduce compressor operating temperatures
- Heavy duty roller bearings at both ends of the crankshaft
- Includes 3m of heavy-duty electrical cables

OPTIONS

- Adjustable pressure switch
- Safety relief valve
- Compressed air reservoirs
- Complete system design and installation

TBS-60-12 TBS-60-24

		TBS-60-12	TBS-60-24
Length	mm	520	520
Width	mm	168	168
Height	mm	265	265
Weight	kg	30	30
Max Discharge Flow	cfm (l/min)	15 (425)	15 (425)
Max Discharge Pressure	bar (psi)	14 (200)	14 (200)
Operating Voltage	volts	12	24
Max Current (At 200psi)	amps	190	110
Duty Cycle		100%	100%

OVERVIEW

Replace traditional gas or diesel-powered air compressors with our compact battery-powered solution. Removing exhaust fumes, engine noise and fuel containers from your work environment makes for a much safer operation. These compressors are an ideal solution for service fleets looking to maximise their efficiencies.





Equipment solutions to equip your
business for success

Land and sea, quarry or road, building or demolition site, we're proud to bring our customers a range of solutions and products to improve the efficiency and effectiveness of either a full fleet of vehicles or a single machine. These solutions are backed by genuine support and industry expertise from our passionate and qualified team.

Turning power into progress.

0800 33 66 39 > enquiries@fennex.co.nz > fennex.co.nz