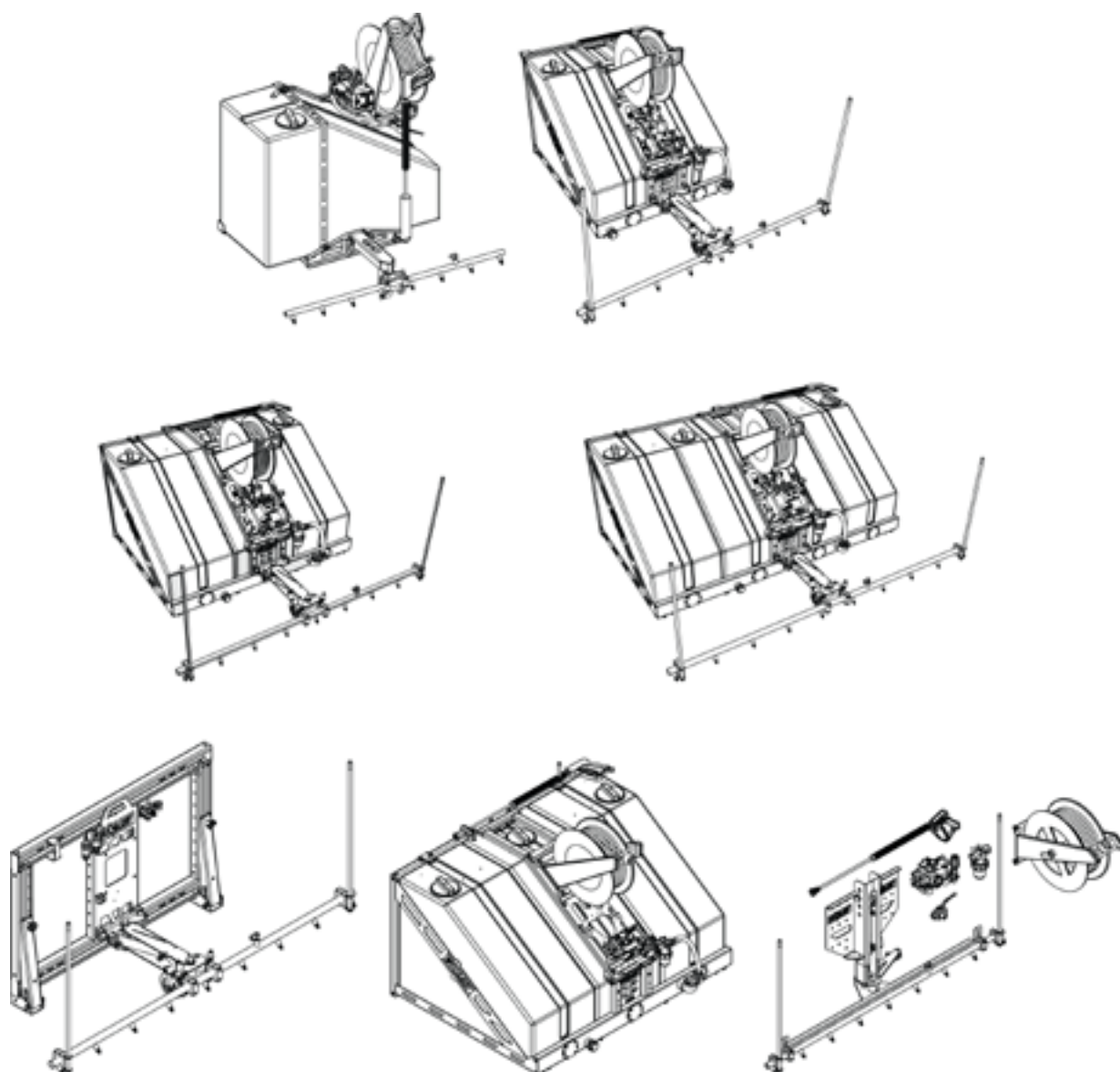




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DATA SHEET

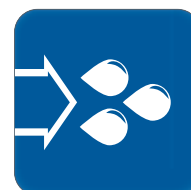
HIGH PRESSURE STREET WASHING UNITS

KPL

KPL-F

KPL-R

KPL-TRUCK



HIGH PRESSURE STREET WASHING UNIT

DYNASET KPL High pressure street washing unit is a powerful accessory. It utilizes Dynaset HPW - Hydraulic High Pressure Water Pump, which transforms the hydraulic power of a working machine into high pressure water. The HPW pump is free of rotating parts, which makes it very durable and maintenance free.

Compact size, light weight and low water consumption make the KPL unit a cost-saving and work efficient solution. High pressure water digs dust and sand out from the pores in asphalt, concrete and similar surfaces. This way the surface will not emit dust after drying. Small water consumption makes it possible to wash large areas effectively even with a small vehicle, with less amount of water.

Street washing units raise the degree of working machine's versatility. With quick couplings the KPL units are easy to connect to different carriers. This guarantees optimal usability and best possible work results.

KPL Street Washing Units come in different models. The basic KPL Street washing Unit comes in four sizes S, M, L, XL. The basic model is a complete unit with street washing frame, pump unit and container.

The basic KPL units also include washing pistol and hose reel with 20 meter hose, which make cleaning of the apartment entrances, corners and other tight spaces effective and easy. Statues, park benches, road signs etc. can also be washed without prior arrangements with the handy washing pistol.

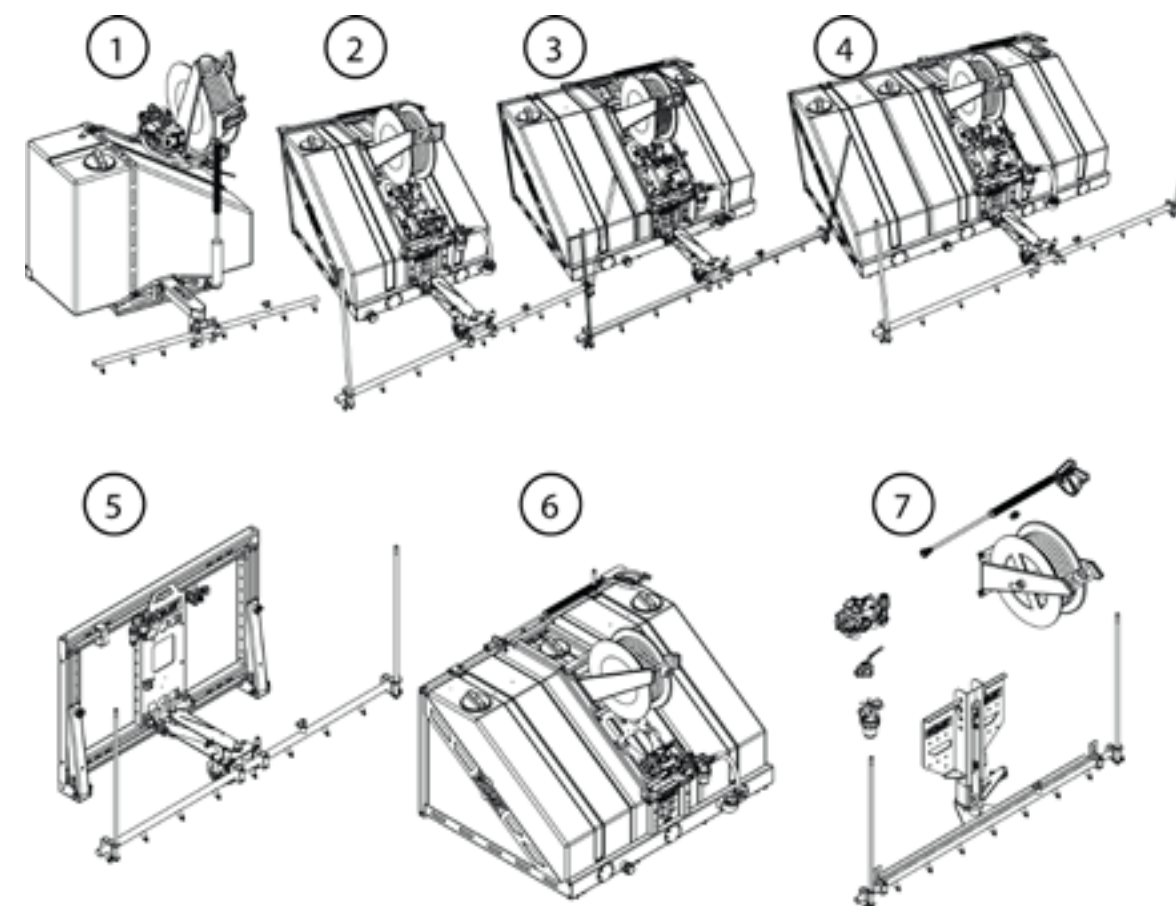
KPL-F is a modular unit, where you have the KPL washing frame unit as standard. The optional pump unit and the washing pistol with the hose reel can be installed separately to more suitable place according to the users needs. The KPL-F does not include the container, but can easily be connected to other water source or container, like a KPL-R.

KPL-R is also modular in sense that the container and the pump unit is combined and but does not include the street washing head. KPL-R can easily be combined with existing washing head or with KPL-F.

KPL TRUCK contains the washing head, pump unit and hosereel with washing pistol. It is designed for trucks and such vehicles.

The units and their combinations are presented in this chapter.

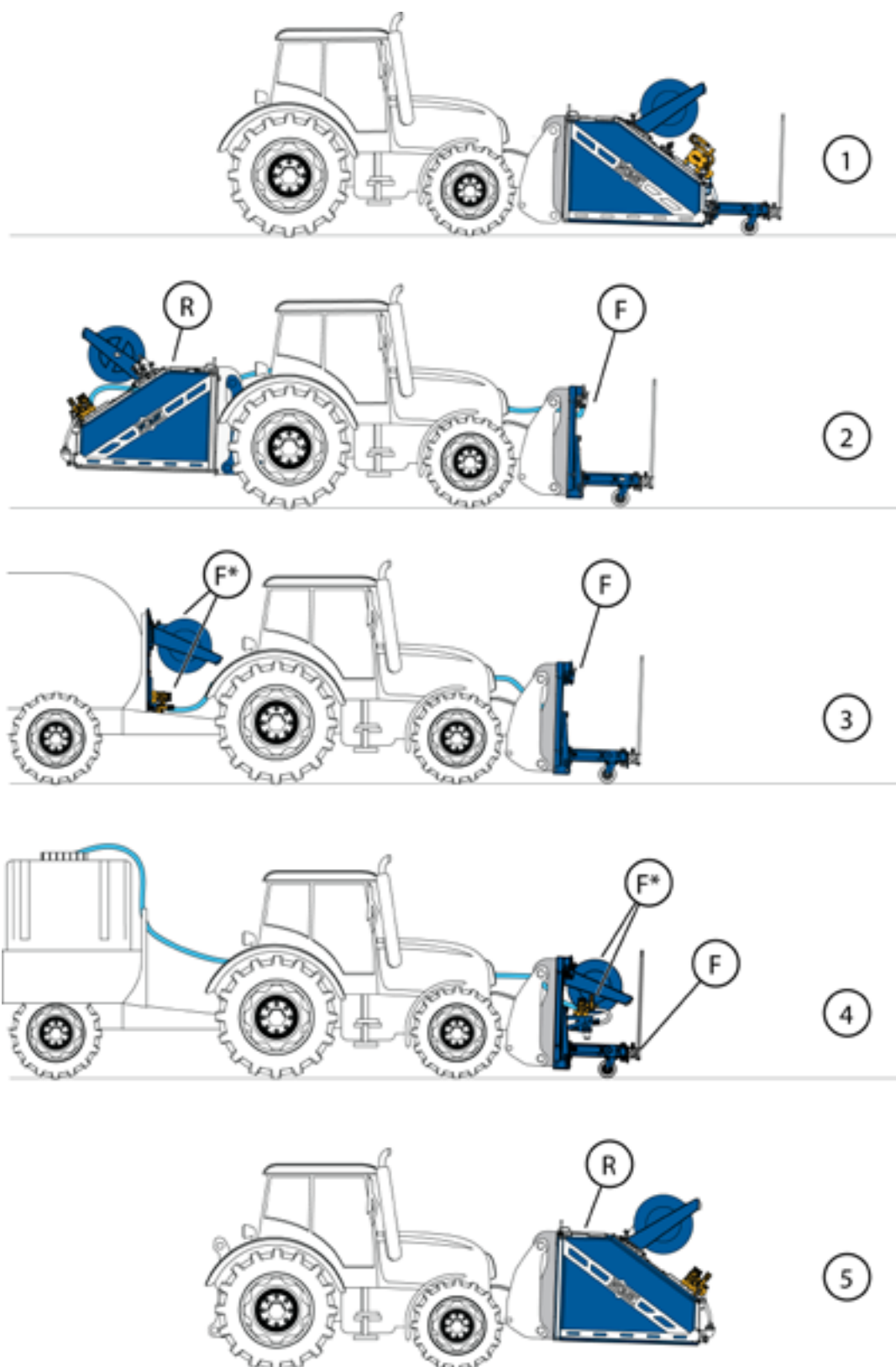
KPL UNIT LINE-UP



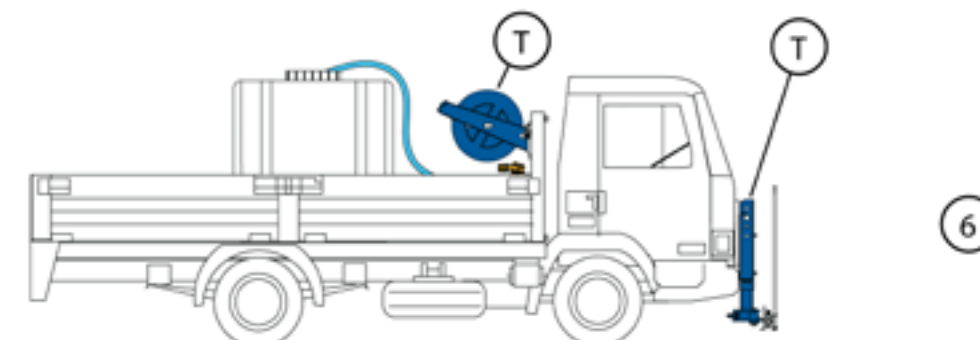
Picture 1: KPL unit line-up

KPL MODELS			
1.-4. BASIC	5. KPL-F	6. KPL-R	7. KPL-TRUCK
1. KPL S 250	KPL-F-1650x9x6501	KPL-R-M-250	KPL-TRUCK-250-1650x9
2. KPL M 250	KPL-F-2200x10x65015	KPL-R-L-250	KPL-TRUCK-220-2200x10
3. KPL L 250	KPL-F-1850x9x65015	KPL-R-L-220	KPL-TRUCK-90-2200x10
3. KPL L 220	KPL-F-2200x10x6503	KPL-R-XL-220	KPL-TRUCK-180-2200x10
4. KPL XL 220	-	KPL-R-XL-180	-
4. KPL XL 180	-	-	-

USE AND COMBINATIONS OF KPL UNITS



Picture 2: KPL Combinations

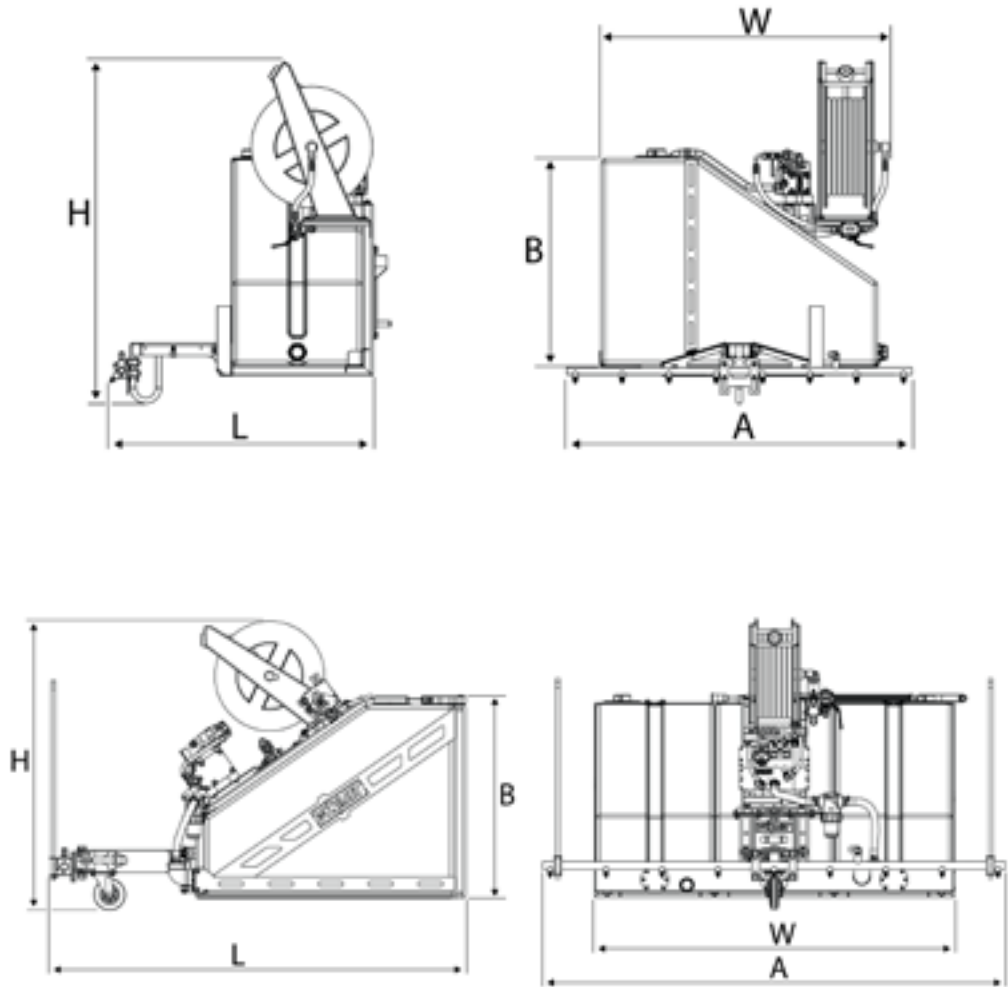


Picture 3: KPL Combinations

1. Basic KPL is a standalone unit for street and power washing. It comes in four standard sizes S, M, L, XL.
2. A tractor equipped with a KPL F in the front and the KPL-R on the rear. The KPL-F contains the washing pipe and the KPL-R has the container, pump unit and washing pistol with the hose reel.
3. Here is a combination of the standard KPL-F and optional KPL-F Pump unit and KPL-F Hose reel unit. Combination enables more modular placement of the washing setup on the working machine.
4. Another combination with the standard KPL-F, optional KPL-F Pump unit and KPL-Hose reel unit. This is perfect for those who already have a water container and want to have the washing pistol ready and available in the front of the machine.
5. The KPL-R has, as standard, container, pump unit, a washing pistol and hose reel so it can also be used as a standalone unit for power washing.
6. KPL Truck is designed to be installed on trucks, pick-ups and similar vehicles. It contains, as standard, washing pipe frame, pump unit and washing pistol with a hose reel. Valves may differ per sale, combinations will be determined uniquely to each unit.

MODEL	MAIN COMPONENTS						
	WASHING PIPE FRAME	PUMP UNIT	WATER FILTER	VALVES	CONTAINER	WASHING PISTOL	HOSE REEL
KPL Basic	x	x	x	x	x	x	x
KPL F	x						
KPL F* Pump unit		x	x	x			
KPL F* Washing Pistol unit						x	x
KPL R		x	x	x	x	x	x
KPL TRUCK	x	x	x	x		x	x

DIMENSIONS KPL

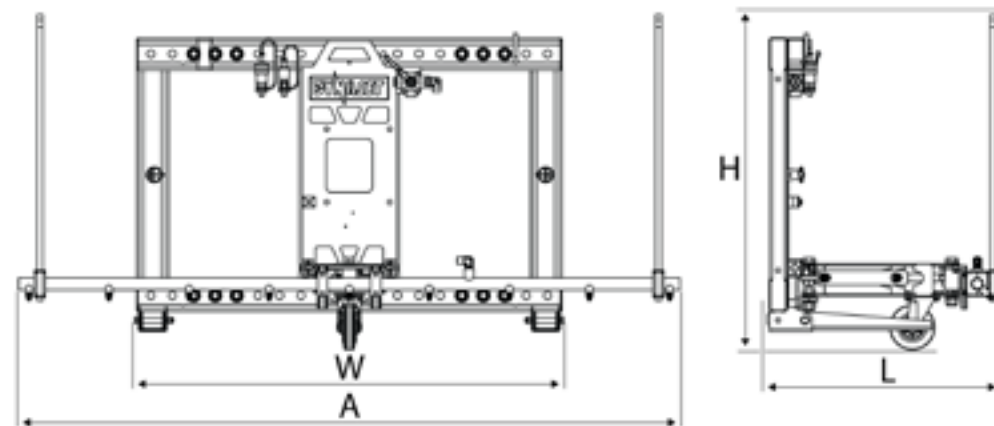


MODEL	DIMENSIONS, mm (in)					WEIGHT*
	L	W	H	A	B	
KPL S 250	960 (37.8)	1042 (41.0)	1143 (45.0)	1250 (49.2)	880 (34.7)	80 (176)
KPL M 250	1655 (65.2)	960 (37.8)	1100 (43.3)	1650 (65.0)	945 (37.2)	212 (467)
KPL L 250	1655 (65.2)	1438 (56.6)	1100 (43.3)	1650 (65.0)	945 (37.2)	215 (473)
KPL L 220	1655 (65.2)	1438 (56.6)	1100 (43.3)	1850 (72.8)	945 (37.2)	225 (496)
KPL XL 220	1655 (65.2)	1916 (75.4)	1100 (43.3)	2200 (86.6)	945 (37.2)	302 (666)
KPL XL 180	1655 (65.2)	1916 (75.4)	1100 (43.3)	2200 (86.6)	945 (37.2)	312 (688)

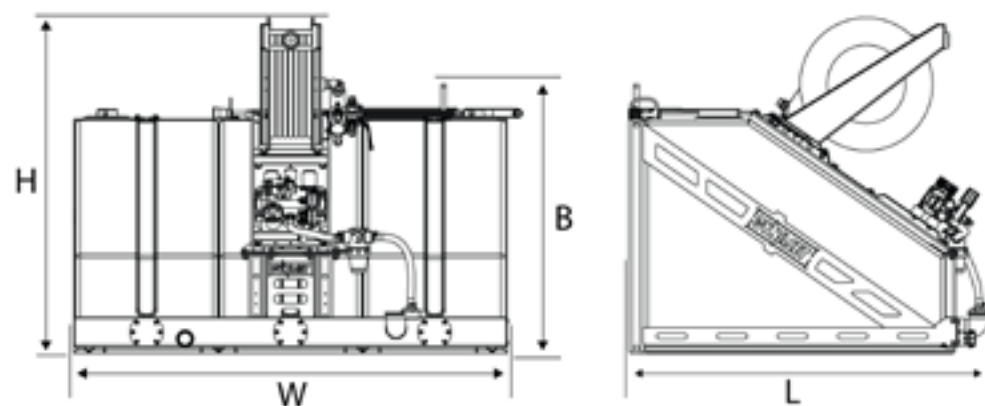
* Weights are without quick attachments

DIMENSIONS KPL-F/R

F



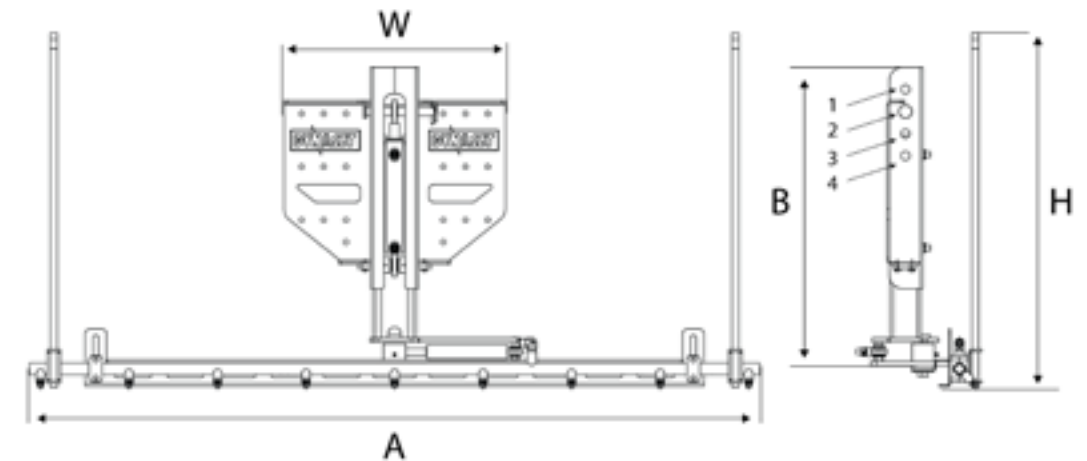
R



MODEL	DIMENSIONS, mm (in)					WEIGHT*
	L	W	H	A	B	
KPL F 1650x9x6501	624 (24.56)	1201 (47.28)	870 (34.25)	1650 (64.96)	-	80 (176)
KPL F 2200x10x65015	641 (25.23)	1201 (47.28)	870 (34.25)	2200 (86.61)	-	85 (187)
KPL F 1850x9x65015	641 (25.23)	1201 (47.28)	870 (34.25)	1850 (72.83)	-	82 (1180)
KPL F 2200x10x6503	641 (25.23)	1201 (47.28)	870 (34.25)	2200 (86.61)	-	85 (187)
KPL R M 250	1199 (47.20)	960 (37.79)	1111(43.74)	960 (37.8)	885 (34.84)	212 (467)
KPL R L 250	1199 (47.20)	1438 (56.61)	1111(43.74)	1438 (56.6)	891 (35.07)	215 (473)
KPL R XL 250	1199 (47.20)	1916 (75.43)	1111(43.74)	1916 (75.4)	891 (35.07)	292 (643)
KPL R L 220	1199 (47.20)	1438 (56.61)	1111(43.74)	1438 (56.6)	891 (35.07)	225 (496)
KPL R XL 220	1199 (47.20)	1916 (75.43)	1111(43.74)	1916 (75.4)	891 (35.07)	302 (666)
KPL R XL 180	1199 (47.20)	1916 (75.43)	1111(43.74)	1916 (75.4)	891 (35.07)	312 (688)

* Weights are without quick attachments

DIMENSIONS KPL-TRUCK

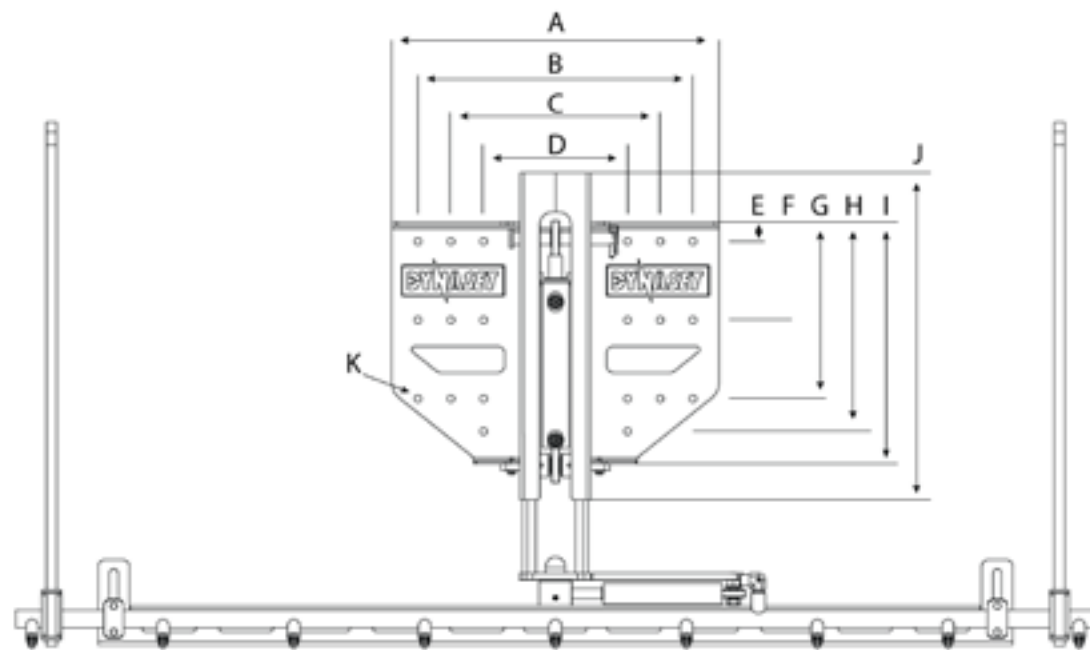


MODEL	DIMENSIONS, mm (in)			WEIGHT
	W	H	A	
KPL-TRUCK-250-1650x9	500 (19.68)	500 (19.68)	1650 (64.96)	80 (176)
KPL-TRUCK-220-2200x10	500 (19.68)	500 (19.68)	2200 (86.61)	85 (187)
KPL-TRUCK-90-2200x10	500 (19.68)	500 (19.68)	2200 (86.61)	85 (187)
KPL-TRUCK-180-2200x10	500 (19.68)	500 (19.68)	2200 (86.61)	85 (187)

MODEL	B = WORKING POSITION, MIN-MAX, MM (IN)			
	1	2	3	4
KPL TRUCK	567-737 (22.32-29.01)	617-787 (24.29-30.98)	667-837 (26.25-32.95)	717-887 (28.22-34.92)

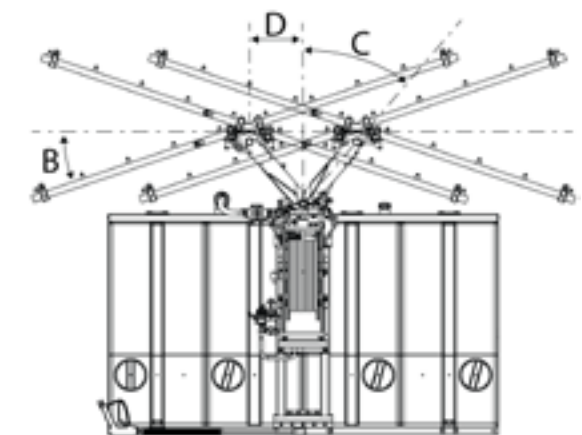
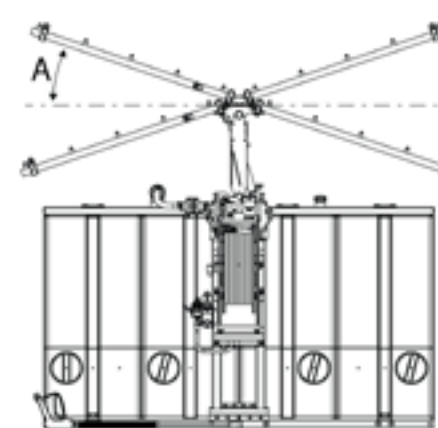
MODEL	HYDRAULIC PORTS
KPL TRUCK	G 1/4" 60° Male

TURNING DIMENSIONS

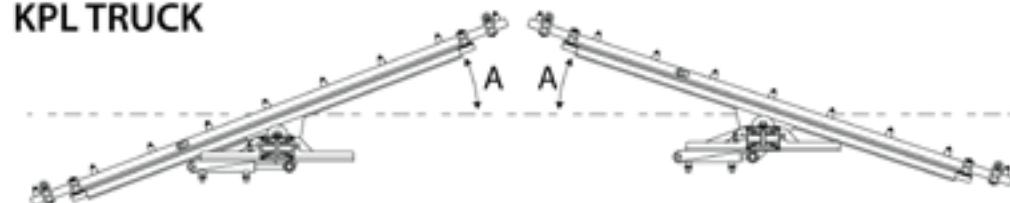


MODEL	DIMENSIONS, mm (in)										
	A	B	C	D	E	F	G	H	I	J	K
KPL TRUCK	500 (19.68)	420 (16.53)	320 (12.59)	220 (8.66)	30 (1.18)	150 (5.90)	270 (10.62)	320 (12.59)	370 (14.56)	500 (19.68)	11 (0.43)

KPL / KPL - F / KPL - R

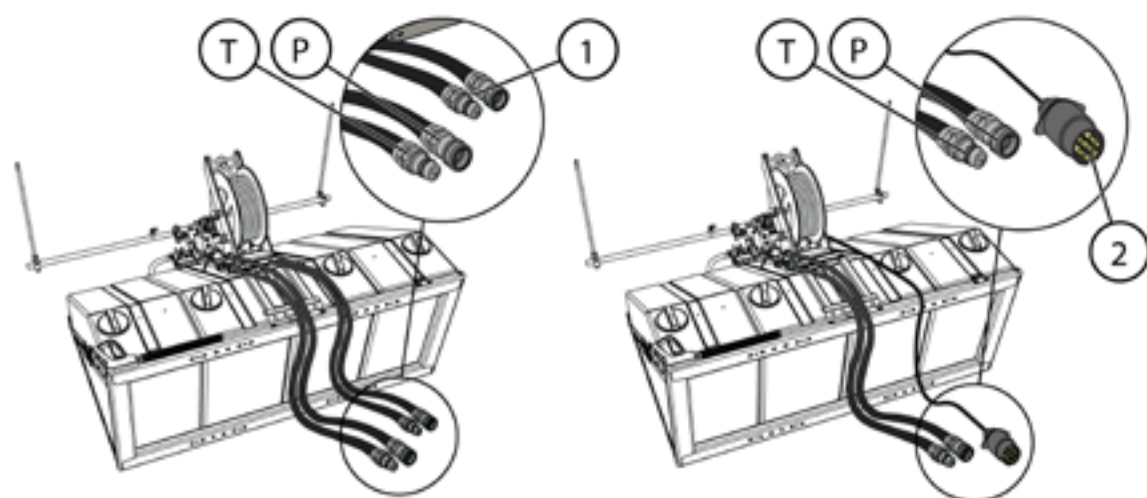


KPL TRUCK



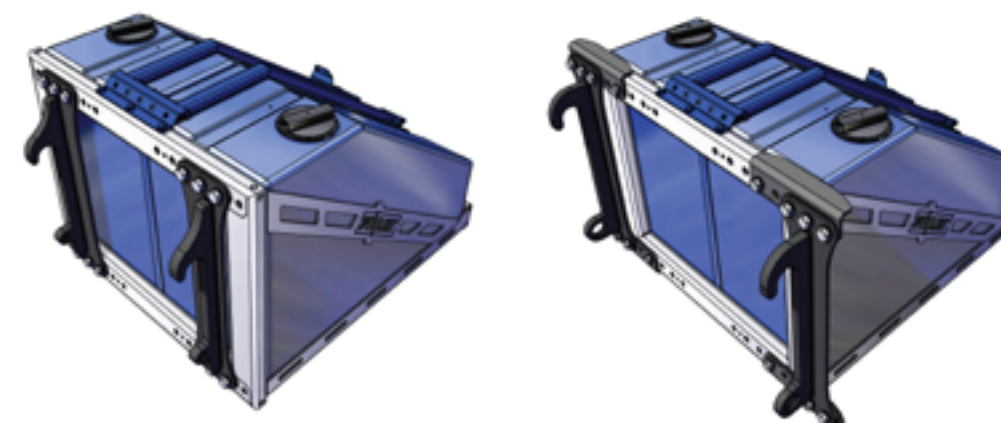
MODEL	DIMENSIONS, mm (in)			
	A	B	C	D
KPL S 250	38 °	-	-	-
KPL M 250	20 °	20 °	41 °	261 (10.3)
KPL L 250	20 °	20 °	41 °	261 (10.3)
KPL L 220	20 °	20 °	41 °	261 (10.3)
KPL XL 220	20 °	20 °	41 °	261 (10.3)
KPL XL 180	20 °	20 °	41 °	261 (10.3)
KPL F 1650x9x6501	20 °	20 °	41 °	261 (10.3)
KPL F 2200x10x65015	20 °	20 °	41 °	261 (10.3)
KPL F 1850x9x65015	20 °	20 °	41 °	261 (10.3)
KPL F 2200x10x6503	20 °	20 °	41 °	261 (10.3)

HOSE CONNECTIONS



MODEL	PRESSURE LINE	RETURN LINE	TURNING DEVICE CONTROL	
	P	T	HYDRAULIC (1)	ELECTRIC (2)
KPL S 250	1/2" ISO - A	1/2" ISO - A	-	-
KPL M 250	1/2" ISO - A	1/2" ISO - A	1/2" ISO - A	ISO 1724
KPL L 250	1/2" ISO - A	1/2" ISO - A	1/2" ISO - A	ISO 1724
KPL L 220	3/4" TEMA 7500	3/4" TEMA 7500	1/2" ISO - A	ISO 1724
KPL XL 220	3/4" TEMA 7500	3/4" TEMA 7500	1/2" ISO - A	ISO 1724
KPL XL 180	3/4" TEMA 7500	3/4" TEMA 7500	1/2" ISO - A	ISO 1724
KPL F 1650x9x6501	-	-	1/2" ISO - A	-
KPL F 2200x10x65015	-	-	1/2" ISO - A	-
KPL F 1850x9x65015	-	-	1/2" ISO - A	-
KPL F 2200x10x6503	-	-	1/2" ISO - A	-
KPL F HPW250	1/2" ISO - A	1/2" ISO - A	-	-
KPL F HPW220	3/4" TEMA 7500	3/4" TEMA 7500	-	-
KPL F HPW90	3/4" TEMA 7500	3/4" TEMA 7500	-	-
KPL F HPW180	3/4" TEMA 7500	3/4" TEMA 7500	-	-
KPL R M 250	1/2" ISO - A	1/2" ISO - A	-	-
KPL R L 250	1/2" ISO - A	1/2" ISO - A	-	-
KPL R XL 250	1/2" ISO - A	1/2" ISO - A	-	-
KPL R L 220	3/4" TEMA 7500	3/4" TEMA 7500	-	-
KPL R XL 220	3/4" TEMA 7500	3/4" TEMA 7500	-	-
KPL R XL 180	3/4" TEMA 7500	3/4" TEMA 7500	-	-

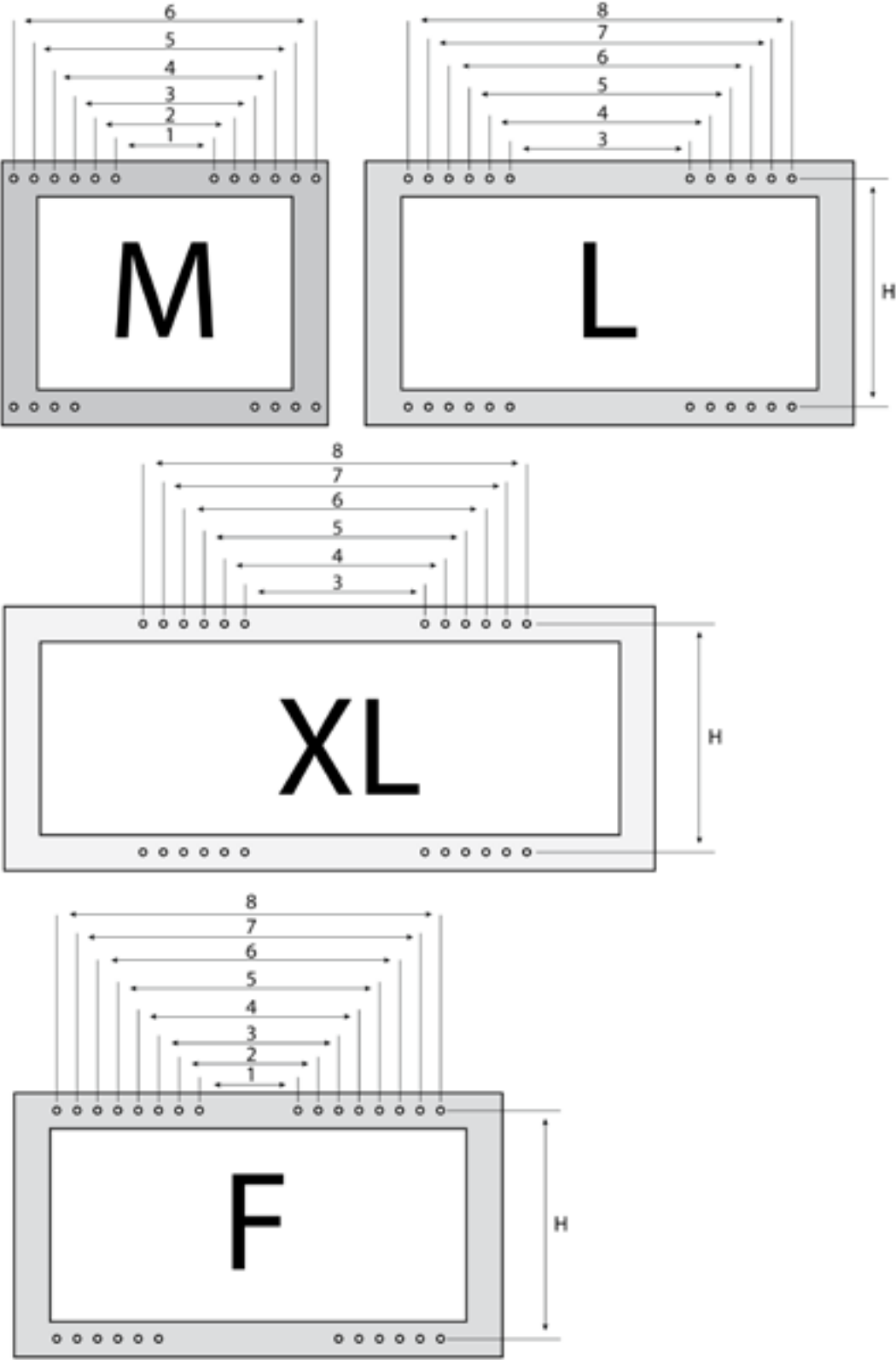
QUICK ATTACHMENT



ATTACHMENT TYPE					BOLT DISTANCE, mm (in)	
KPL MODEL	KPL	KPL / KPL-R			KPL-F	
KPL FRAME SIZE	S	M	L	XL	-	X
3-Point Hitch - Cat. 1	X	X	X	X	X	510 (20.1)
3-Point Hitch - Cat. 2	X	X	X	X	X	510 (20.1)
Atlas AR 40-80	-	A	X	X	X	870 (34.3)
Avant / Agromatic	X	X	X	X	X	510 (20.1)
Bobcat	X	X	X	X	X	630 (24.8)
EURO	X	A	X	X	X	750 (29.5)
Forklift Adapter	-	X	X	X	X	630 (24.8)
Giant	-	X	X	X	X	510 (20.1)
Isme	-	X	X	X	X	510 (20.1)
JCB 406-409 - Zettlemeyer	-	A	X	X	X	750 (29.5)
Kramer 180-350	-	X	-	-	X	270 (10.6)
Kramer 380-580	-	A	X	X	X	750 (29.5)
Kunta 500	-	A	X	X	X	870 (34.3)
Manitou	-	X	X	X	X	630 (24.8)
Merlo ZM1-2	-	X	X	X	X	630 (24.8)
MP-Lift / Trima	-	X	X	X	X	510 (20.1)
Valtra	-	A	X	X	X	870 (34.3)
Volvo BM	-	A	X	X	X	870 (34.3)
Volvo L20-L25	-	X	X	X	X	510 (20.1)
Volvo TPZ	-	A	X	X	X	870 (34.3)
Wiedemann	X	X	X	X	X	510 (20.1)
Wiedemann 4070	-	X	X	X	X	750 (29.5)

A = with adapter

QUICK ATTACHMENT FASTENING POINTS



BOLT DISTANCE, mm (in)								
1	2	3	4	5	6	7	8	H
270 (10.6)	390 (15.3)	510 (20.1)	630 (24.8)	750 (29.5)	870 (34.2)	990 (39.0)	1110 (43.7)	675 (26.6)

OVERALL DIMENSIONS, mm (in)				
MODEL	M	L	XL	F
A	960 (37.8)	1438 (56.6)	1916 (75.4)	1190 (46.9)
B	775 (30.5)	775 (30.5)	775 (30.5)	765 (30.1)

TECHNICAL SPECIFICATIONS

BASIC KPL MODELS

		KPL S 250	KPL M 250	KPL L 250	KPL L 220	KPL XL 220	KPL XL 180
WATER POWER							
Water output max.	l/min (gpm)	30 (7.92)	30 (7.92)	30 (7.92)	50 (13.20)	50 (13.20)	90 (23.78)
Pressure max.	bar (psi)	250 (3600)	250 (3600)	250 (3600)	220 (3191)	220 (3191)	180 (2611)
Working width	cm (in)	150 (59.1)	180 (70.9)	180 (70.9)	200 (78.7)	250 (98.4)	250 (98.4)
Water tank	l (gal)	270 (71.32)	540 (142.65)	810 (213.98)	810 (213.98)	1080 (285.30)	1080 (285.30)
Water filter size		R3/4"	R3/4"	R3/4"	R1"	R1"	R1 1/4"
Water filter mesh		80 or better					
WASHING PIPE							
Turning device control (M) Manual / (H) Hydraulic / (E) Electric *		M	H / E	H / E	H / E	H / E	H / E
Washing pipe width	mm (in)	1250 (49.2)	1650 (65.0)	1650 (65.0)	1850 (72.8)	2200 (86.6)	2200 (86.6)
Washing nozzles		8	9	9	9	10	10
WATER PISTOL							
Water pistol hose diameter		3/8"					
Water pistol hose length	m (feet)	20m (65.6)					
Water pistol		ST2300-SW-800-2508					
HYDRAULIC POWER REQUIREMENTS							
Oil flow max.	l/min (gpm)	40 (10.56)	40 (10.56)	40 (10.56)	70 (18.49)	70 (18.49)	115 (30.38)
Pressure max.	bar (psi)	210 (3046)					
HYDRAULIC FLUID REQUIREMENTS							
Viscosity	cSt	10-200 / optimum 25-35					
Temperature **	° C (° F)	max. 70 (158)					
Filter ratio	µm	25 or better					
Cooling capacity requirement	kW	2	2	2	3	3	6

Gallons are U.S. liquid gallons

* Electric turning device control available in 12VDC and 24VDC

** Depending on hydraulic fluid.

KPL-F

	KPL-F- 1650x9x 6501	KPL-F- 2200x10x 65015	KPL-F- 1850x9x 65015	KPL-F- 2200x10x 6503
WATER POWER				
Suitable KPL-F pump units*	HPW250	HPW220	HPW180	HPW90
WASHING PIPE				
Turning device control	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Washing pipe width	mm (in)	1650 (65.0)	2200 (86.6)	1850 (72.8)
Washing nozzles		9	10	9
WATER PISTOL				
Water pistol hose diameter		3/8"		
Water pistol hose length	m (feet)	20m (65.6)		
Water pistol		ST2300-SW-800-2508		

KPL-F OPTIONAL PUMP UNITS

		KPL F HPW250	KPL F HPW220	KPL F HPW90	KPL F HPW180
WATER POWER					
Water output max.	l/min (gpm)	30 (7.92)	50 (13.20)	150 (39.6)	90 (23.78)
Pressure max.	bar (psi)	250 (3600)	220 (3191)	90 (1300)	180 (2611)
Water filter size		R3/4"	R1"	R1 1/2"	R1 1/4"
Water filter mesh		80 or better			
WATER PISTOL					
Water pistol hose diameter		3/8"			
Water pistol hose length	m (feet)	20m (65.6)			
Water pistol		ST2300-SW-800-2508			
HYDRAULIC POWER REQUIREMENTS					
Oil flow max.	l/min (gpm)	40 (10.56)	70 (18.49)	85 (22.5)	115 (30.38)
Pressure max.	bar (psi)	210 (3046)			
HYDRAULIC FLUID REQUIREMENTS					
Viscosity	cSt	10-200 / optimum 25-35			
Temperature **	° C (° F)	max. 70 (158)			
Filter ratio	µm	25 or better			
Cooling capacity requirement	kW	2	2	4	6

Gallons are U.S. liquid gallons

* Check the KPL-F Pump setup choices on next table.

** Depending on hydraulic fluid.



HIGH PRESSURE STREET WASHING UNITS

DATA SHEET

KPL-R

		KPL-R-M-250	KPL-R-L-250	KPL-R-XL-250	KPL-R-L-220	KPL-R-XL-220	KPL-R-XL-90	KPL-R-XL-180
WATER POWER								
Water output max.	l/min (gpm)	30 (7.92)	30 (7.92)	30 (7.92)	50 (13.20)	50 (13.20)	150 (39.6)	90 (23.78)
Pressure max.	bar (psi)	200 (2900)	200 (2900)	200 (2900)	220 (3191)	220 (3191)	90 (1300)	180 (2611)
Water tank	l (gal)	270 (71.32)	540 (142.65)	810 (213.98)	810 (213.98)	1080 (285.30)	1080 (285.30)	1080 (285.30)
Water filter size		R3/4"	R3/4"	R3/4"	R1"	R1"	R1 1/2"	R1 1/4"
Water filter mesh		80 or better						
WATER PISTOL								
Water pistol hose diameter		3/8"						
Water pistol hose length	m (feet)	20m (65.6)						
Water pistol		ST2300-SW-800-2508						
HYDRAULIC POWER REQUIREMENTS								
Oil flow max.	l/min (gpm)	40 (10.56)	40 (10.56)	40 (10.56)	70 (18.49)	70 (18.49)	85 (22.5)	115 (30.38)
Pressure max.	bar (psi)	210 (3046)						
HYDRAULIC FLUID REQUIREMENTS								
Viscosity	cSt	10-200 / optimum 25-35						
Temperature *	° C (° F)	max. 70 (158)						
Filter ratio	µm	25 or better						
Cooling capacity requirement	kW	2	2	2	3	3	4	6

Gallons are U.S. liquid gallons

* Depending on hydraulic fluid.



HIGH PRESSURE STREET WASHING UNITS

DATA SHEET

KPL-TRUCK

		KPL-TRUCK 250 - 1650x9	KPL-TRUCK 220 - 2200x10	KPL-TRUCK 90- 2200x10	KPL-TRUCK 180 - 2200x10
WATER POWER					
Water output max.	l/min (gpm)	30 (7.92)	50 (13.20)	150 (39.6)	90 (23.78)
Pressure max.	bar (psi)	250 (3600)	220 (3191)	90 (1300)	180 (2611)
Working width	cm (in)	180 (70.9)	250 (98.4)	250 (98.4)	250 (98.4)
Water filter size		R3/4"	R1"	R1 1/2"	R1 1/4"
Water filter mesh		80 or better			
WASHING PIPE					
Turning device control		Hydraulic	Hydraulic	Hydraulic	Hydraulic
Washing pipe width	mm (in)	1650 (64.96)	2200 (86.61)	2200 (86.61)	2200 (86.61)
Washing nozzles		9	10	10	10
WATER PISTOL					
Water pistol hose diameter		3/8"			
Water pistol hose length	m (feet)	20m (65.6)			
Water pistol		ST2300-SW-800-2508			
HYDRAULIC POWER REQUIREMENTS					
Oil flow max.	l/min (gpm)	40 (10.56)	70 (18.5)	85 (22.5)	115 (30.4)
Pressure max.	bar (psi)	210 (3046)			
HYDRAULIC FLUID REQUIREMENTS					
Viscosity	cSt	10-200 / optimum 25-35			
Temperature *	° C (° F)	max. 70 (158)			
Filter ratio	µm	25 or better			
Cooling capacity requirement	kW	2	3	4	6

Gallons are U.S. liquid gallons

** Depending on hydraulic fluid.



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ELECTRICITY

HG Hydraulic Generator
HGV POWER BOX Variable Hydraulic Generator System
HGV Variable Hydraulic Generator System
HWG Hydraulic Welding Generator
HGG Hydraulic Ground Power Generator



HIGH PRESSURE WATER

HPW Hydraulic High Pressure Water Pump
HPW Hydraulic Power Washer
KPL High Pressure Street Washing Unit
HPW-DUST High Pressure Dust Suppression System
PPL High Pressure Pipe Cleaning Unit
HPW-FIRE High Pressure Firefighting System
FP Fire Fighting Piercing Kit
HDF Hydraulic Drilling Fluid Pump
JPL High Pressure Bin Washing System
HSP Hydraulic Submersible Pump



COMPRESSED AIR

HK Hydraulic Piston Compressor
HKL Hydraulic Rotary Vane Compressor
HKR Hydraulic Screw Compressor



MAGNET POWER

HMG PRO Hydraulic Magnet Generator
MAG Lift Magnet
HMAG PRO Hydraulic Magnet



VIBRATION

HVB Hydraulic Vibra
HVD Hydraulic Directional Vibra
HRC Hydraulic Reversal Cylinder



POWER BOOSTING

HPI Hydraulic Pressure Intensifier
HPI-C Hydraulic Pressure Intensifier for Cylinder



KNOW-HOW

Hydraulic Power Take-off (PTO)
Hydraulic Power Unit Technology
De-Icing Technology
Installation Valves
HHK Hydraulic Grinder
HV/HVY Hydraulic Winch / Winch Unit

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