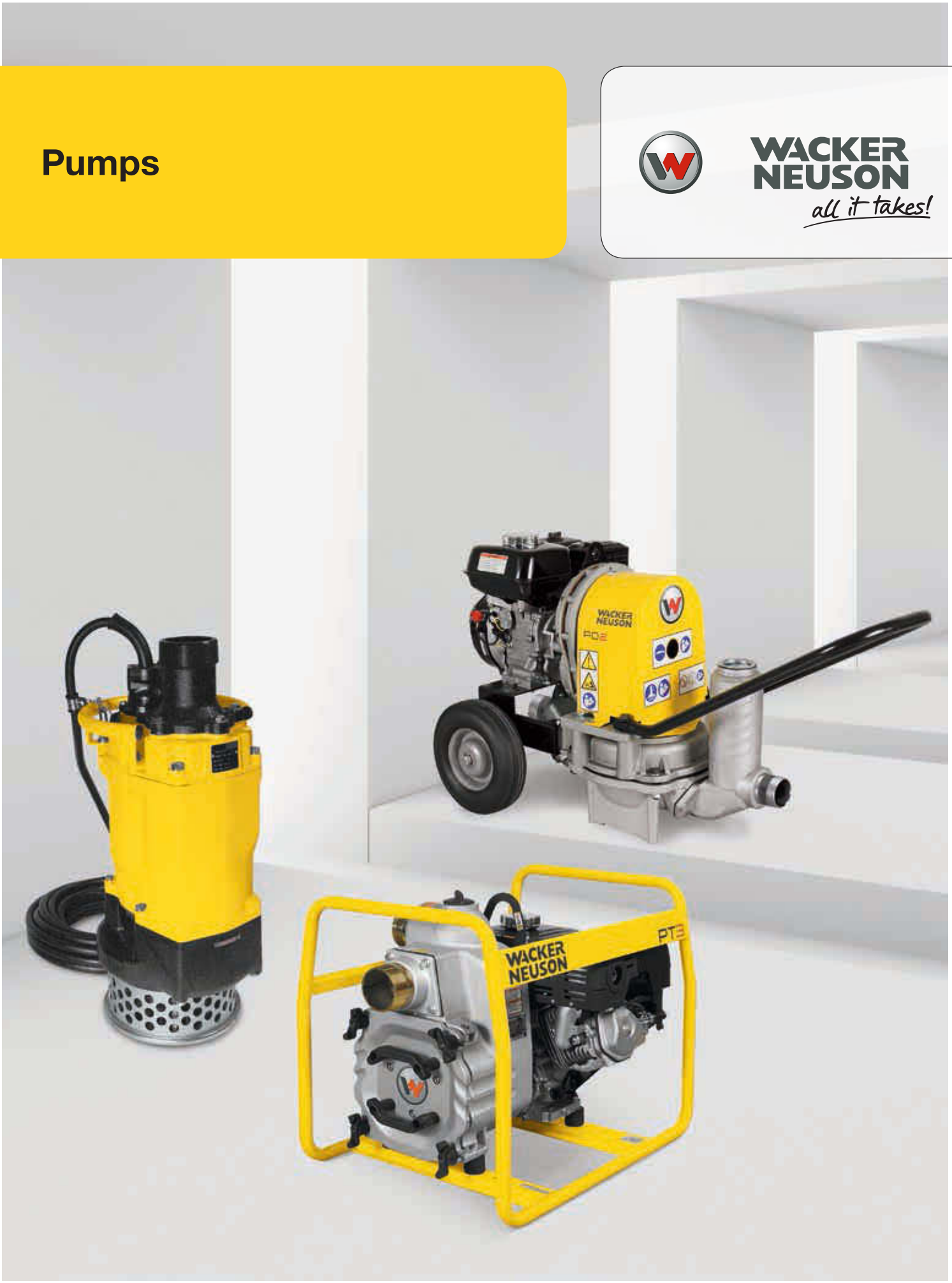
Pumps

WACKER NEUSON
all it takes!



These reasons speak for the pumps from Wacker Neuson.

1. Pumps for a variety of requirements - yours too.
Whether a flooded basement, for the drainage of construction sites or a pond that needs to be filled or emptied: At Wacker Neuson, you always get the right pump solution for your specific requirements. In the design and development of all equipment, we always focus on two things: high performance and well-thought out details.

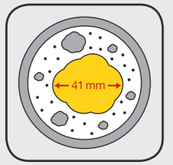
2. Full pump performance – in every application.
A dry ground is a prerequisite for every construction project. And this is best done with pumps from Wacker Neuson: The units are true high performance pumps on which you can always rely. Because they convince across the board when it comes to the two most important parameters – discharge volume and lifts.

3. Extremely wear resistant – for a long service life.
Over time, a pump has to withstand a great deal: whether in application above or under water or in the conveyance of trash water. That is why we only install high quality components. Our equipment therefore permanently withstands wear and takes care of its core job: pumping, pumping, pumping.

Wacker Neuson – all it takes!
We offer products and services rendered that meet your high requirements and diverse applications. Wacker Neuson stands for reliability. This of course also applies to our over 30 submersible and engine-driven or power pumps. We do our best every day to ensure your success. And we do this full of passion for our jobs.

Pump expertise in detail.

High heads and discharge volumes
With a total lift of up to 48.5 meters as well as a discharge volume of up to 2,440 l/min, the pumps from Wacker Neuson convince with peak values.



Managing solid contents
Trash water often contains particulate matter. Pumps from Wacker Neuson manage matter with a diameter of over 4 cm – without the unit being damaged.

Quality for extended running times
High quality, low wear and extremely resistant elements prove themselves during daily application and ensure a long service life as well as reduced maintenance costs.

Safe to run dry operation
Even in the event of intermittent operation due to lack of water, submersible pumps from Wacker Neuson are protected from burning through. You can therefore let the equipment run without supervision.

Find the right pump solution for every application:
www.wackerneuson.com/pumpfinder

Overview of all pumps.

Engine-driven pumps

	PG series	PT series	PDI series
Max. discharge volume	2 models 600–1,000 l/min	4 models 650–1,350 l/min	2 models 189–333 l/min
	> Page 04		> Page 05

Submersible pumps with AC

Submersible pumps with three-phase current

	PS series	PST series	PSA series	PS series	PSA series
	3 models 220–420 l/min	2 models 200–300 l/min	2 models 220–310 l/min	15 models 420–2,440 l/min	2 models 420–530 l/min
	> Page 06			> Page 07	

Engine-driven pumps

From fresh water to liquids with larger solids: The engine-driven pumps from Wacker Neuson were designed and developed for a variety of siphoning requirements. With respect to the lift and discharge volume, you can therefore always expect a top performance. And due to the high quality and durable elements, you also benefit from a high level of reliability and reduced maintenance costs.

Maximum flexibility: High performance pumps of the PT series for harsh job site works.

	PG	PT	PDI
Versions	**2 models**	**4 models**	**2 models**
Total head (m)	**30**	**28–32**	**15**
Max. discharge volume (l/min)	**600–1,000**	**650–1,350**	**189–333**
Weight (kg)	**24–31**	**43–73**	**59–63**

PG series: Drainage pump for fresh water

- High discharge volume
- Air-cooled single cylinder 4-cycle gasoline engine
- Sturdy protective frame and convenient carrying handle for easy transport
- Simple operation and handling

PDI series: Diaphragm pump for trash water

- Safe to run dry, therefore operation without supervision is possible
- Reinforced diaphragm for particulate matter with sharp-edged parts
- Continuous pump operation due to pressure compensating chamber
- Easy to transport, since the pump, including the intake and pressure pipe joints, are built to be very compact

Handles SOLIDS UP TO 41 MM

Time-tested and proven in leakage water areas and with highly fluctuating amounts of water – the PDI series.

Powerful and fast: Centrifugal pumps of the PG series for fresh water.

PT series: Centrifugal pumps for trash water

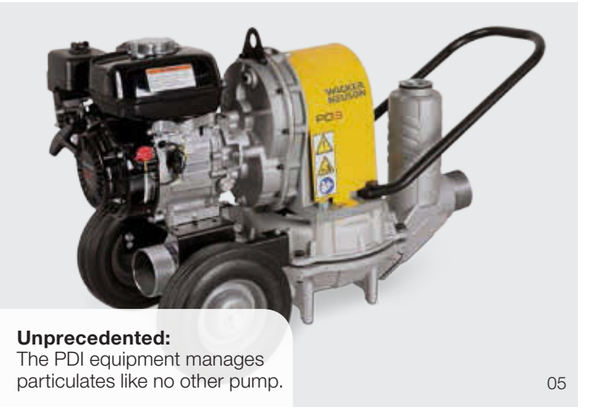
- Very high discharge volume, ideal for quick drainage
- Lifting eye for quick and easy transport
- Simple operation and good maintenance access
- Also available with a diesel engine

Typical application areas

PG series	Basement flooding, watering and draining garden ponds and swimming pools, irrigation for gardening and landscaping
PT series	Excavations, pipeline construction, gravel pits, trench applications as well as sites where large volumes of water need to be moved quickly, such as disaster control
PDI series	Drainage of sludge masses and leakage areas, basement flooding, leakage / infiltration water on construction sites

Convincing PT series: constant high performance in harsh job site works.

Drains efficiently: The PT series is ideal when things need to move quickly.



Unprecedented: The PDI equipment manages particulates like no other pump.

Electric submersible pumps

The electric submersible pumps from Wacker Neuson are extremely sturdy, wear resistant and perform extremely well in extreme situations: Whether dealing with large discharge volumes and heads or whether the fluid to be conveyed is only a few millimeters high. You can always rely on our submersible pumps.

	PS	PST	PSA
Versions	**3 models**	**2 models**	**2 models**
Total head (m)	**11–17.5**	**12–18**	**11–15**
Max. discharge volume (l/min)	**220–420**	**200–300**	**220–310**
Weight (kg)	**9.5–32.5**	**11.3–19**	**10–13.8**

Three-phase current pumps allow for the quick draining of surfaces.

Electric AC pumps (1~)

- Convey particulate matter up to 9.5 mm in size
- Even with intermittent operation due to lack of water there is no damage, which is why operation without supervision is possible
- Integrated thermal overload protection breaker prevents damage to the motor

VERY LONG SERVICE LIFE
thanks to the cast housing

Extreme discharge volume
up to 2,440 l/min.

Electric three-phase current pumps (3~)

- Convey particulate matter up to 20 mm in size
- Even with intermittent operation due to lack of water there is no damage, which is why operation without supervision is possible
- With phase inverter and overcurrent protection, optionally also with a float

	PS2	PS3	PS4	PSA
Versions	**5 models**	**4 models**	**6 models**	**2 models**
Total head (m)	**20–36.5**	**14.4–32**	**18–48.5**	**20–24**
Max. discharge volume (l/min)	**420–530**	**670–1,100**	**1,400–2,440**	**420–530**
Weight (kg)	**19.5–55**	**29–66**	**55–130**	**20–23.5**

Electric submersible pumps that are safe to run dry: even during long intermittent operation due to lack of water thanks to the built-in oil lifter.

One pump, two functions:

PST2400 with bottom suction plate makes an surface suction pump superfluous.

Standard suction strainer

Bottom suction plate

Time-tested and proven in application:
High performance power cable with strain relief and high quality insulation for the PS series.

Typical application areas

AC pumps	Basement flooding, watering and draining garden ponds or swimming pools
Three-phase current pumps	Water drainage, construction site flooding, concrete processing facilities in transport concrete and precast concrete parts factories, gravel pit

Accessories for pumps

FOR ALL PUMPS

	Diameter in inches	Length in meters
Pressure hoses – Bulk/material sold by the meter without couplings (premium pressure hoses, burst pressure 40 bar)	2" 3"	Bulk/material sold by the meter Bulk/material sold by the meter
Pressure hoses with Storz-type quick-disconnect couplings (premium pressure hoses, burst pressure 40 bar)	2" 3" 4"	10, 20 or 30 10, 20 or 30 10, 20 or 30
Quick disconnect coupling for discharge hoses (pump side)	2" 3"	– –
Quick disconnect coupling for discharge hoses (hose side)	2" 3"	– –
Coupling wrench	2" 3" 4"	– – –
Hose clamp	2" 3"	– –
GEKA Coupling adapter Storz C – GEKA 1-1/2"	2"	–

FOR ENGINE-DRIVEN PUMPS

	Diameter in inches	Length in meters
Suction hoses without couplings	2" 3"	6 6
Suction hoses with 2 Storz-type couplings	2" 3"	7 7
Coupling (pump side)	2" 3"	– –
Coupling (strainer side)	2" 3"	– –
Metal suction strainer for the PG series	2" 3"	– –
Synthetic material suction strainer for the PG series	2" 3"	– –
Metal suction strainer for the PDI and PT series	2" 3"	– –
Connecting piece with thread on both sides for fixed coupling	2" 3"	– –
Transport device for the PT series	–	–

FOR ELECTRIC PUMPS

	kW (A)	Adjustable range	Plug type	Drain connection (inches)
Bottom suction plate for PST2400	–	–	–	–
External level controls for three-phase current submersible pumps without level control	4.0 (32) 7.5 (32) 11.0 (32) 4.0 (16) 7.5 (16)	– – – – –	– – – – –	– – – – –
Motor protection plug for submersible pumps	– – – – – – –	2.5–4.0 4.0–6.3 6.3–10.0 10.0–16.0 6.0–10.0 10.0–16.0 16.0–23.0	16 A, 400 V 16 A, 400 V 16 A, 400 V 16 A, 400 V 32 A, 400 V 32 A, 400 V 32 A, 400 V	– – – – – – –
90° elbow for PSC series	– – –	– – –	– – –	2" 3" 4"
Storz-type quick-disconnect coupling for PSC series	– – –	– – –	– – –	2" 3" 4"

Technical data

DRAINAGE PUMPS

MASS	UNIT	PG2	PG3
Intake and pressure pipe joints diameter	**mm**	50	75
Length	**mm**	480	515
Width	**mm**	375	405
Height	**mm**	395	460
Operating weight	**kg**	24	31
DISCHARGE VALUES	**UNIT**		
Total head	**m**	30	30
Max. discharge volume	**l/min**	600	1,000
Max. suction height	**m**	7.5	7.5
Max. solids diameter	**mm**	6.5	6.5
ENGINE	**UNIT**		
Drive engine	**–**	Air-cooled, single cylinder, four-cycle, gasoline engine	Air-cooled, single cylinder, four-cycle, gasoline engine
Engine manufacturer	**–**	Honda	Honda
Model	**–**	GX 120	GX 160
Displacement	**cm³**	118	163
Rating (DIN ISO 3046)	**kW**	3.0	4.1
At revolutions per minute (RPM)	**RPM**	3,600	3,600
Max. fuel consumption	**l/h**	1.3	1.8
Tank capacity (fuel)	**l**	2.5	3.6

TRASH PUMP

MASS	UNIT	PT2A	PT2H	PT3A	PT3H	PDI2A	PDI3A
Intake and pressure pipe joints diameter	**mm**	50	50	75	75	50	75
Length	**mm**	550	590	675	675	996	1,057
Width	**mm**	465	495	505	505	455	455
Height	**mm**	500	510	570	570	589	589
Operating weight	**kg**	43	59	68	73	59	63
DISCHARGE VALUES	**UNIT**						
Total head	**m**	32	32	28	29	15	15
Max. discharge volume	**l/min**	650	650	1,350	1,350	189	333
Max. suction height	**m**	7.6	7.6	7.6	7.6	7.5	7.5
Max. solids diameter	**mm**	25	25	38	38	38	41
ENGINE	**UNIT**						
Drive engine	**–**	Air-cooled, single cylinder, four-cycle, gasoline engine	Air-cooled, single cylinder, four-cycle, diesel engine	Air-cooled, single cylinder, four-cycle, gasoline engine	Air-cooled, single cylinder, four-cycle, diesel engine	Air-cooled, single cylinder, four-cycle, gasoline engine	Air-cooled, single cylinder, four-cycle, gasoline engine
Engine manufacturer	**–**	Honda	Hatz	Honda	Hatz	Honda	Honda
Model	**–**	GX 160	1 B 20	GX 240	1 B 30	GX 120	GX 120
Displacement	**cm³**	163	232	270	347	118	118
Rating (DIN ISO 3046)	**kW**	4.0	3.4	6.0	5.0	2.6	2.6
At revolutions per minute (RPM)	**RPM**	3,500	3,500	3,500	3,500	2,800	2,800
Max. fuel consumption	**l/h**	1.7	1.1	2.2	1.7	1.1	1.1
Tank capacity (fuel)	**l**	3.6	3.0	5.3	5.0	2.5	2.5

Technical data

TRASH PUMPS, AC (1~)

		PST2400	PST3750	PS2500	PSA2500	PS2800	PSA2800	PS21500
DIMENSIONS	**UNIT**							
Pressure pipe joint diameter	**mm**	50	80	50	50	50	50	50
Length	**mm**	265	285	185	220	187	223	187
Width	**mm**	185	184	185	185	187	187	187
Height	**mm**	330	389	355	355	341	341	600
Operating weight	**kg**	11.3	19	9.5	10	13.2	13.8	32.5
DISCHARGE VALUES	**UNIT**							
Total head	**m**	12	18	11	11	15	15	17.5
Max. discharge volume	**l/min**	200	230	220	220	310	310	420
Max. solids diameter	**mm**	9.5	7	6.0	6.0	6.0	6.0	6.0
MOTOR	**UNIT**							
Drive motor	**–**	**50 Hz 1~**	**50 Hz 1~**	50 Hz 1~	50 Hz 1~	50 Hz 1~	50 Hz 1~	50 Hz 1~
Voltage	**V**	230	230	230	230	230	230	230
Power (Full load / start at 400 V)	**A**	2.6/7.0	4.6/14	2.9/7.0	2.9/7.0	5/12.3	5/12.3	14.8/65
Power input	**kW**	0.4	0.75	0.5	0.5	0.75	0.75	1.2
At revolutions per minute (RPM)	**RPM**	3,000	2,820	3,000	3,000	2,730	2,730	2,900
Cable length	**m**	10	10	10	10	10	10	10
Cross-section	**mm²**	1	1	1	1	1	1	4

TRASH PUMPS, THREE-PHASE CURRENT (3~)

		PS31503	PS32203	PS33703	PS35503
		75	75	75	75
		235	235	285	305
		215	215	250	260
		550	570	655	695
		29	32	55	66
		14.4	20.4	29	32
		670	800	900	1,100
		8.5	8.5	8.5	8.5
		50 Hz 3~	50 Hz 3~	50 Hz 3~	50 Hz 3~
		400	400	400	400
		3.4/20	5.5/36	7.5/58	10.8/86
		1.5	2.2	3.7	5.5
		2,850	2,860	2,850	2,860
		20	20	20	20
		1.5	1.5	1.5	2.5

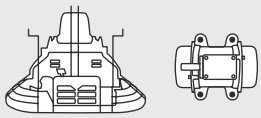
TRASH PUMPS, THREE-PHASE CURRENT (3~)

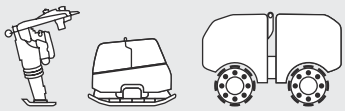
		PS21503	PS21503L	PSA21503L	PS22203	PS22203L	PSA22203L	PS23703	PS43703	PS45503	PS47503HH	PS47503HF	PS411003HH	PS411003HF
DIMENSIONS	**UNIT**													
Pressure pipe joint diameter	**mm**	50	50	50	50	50	50	50	100	100	100	100	100	100
Length	**mm**	235	240	240	235	240	240	285	285	305	330	330	375	375
Width	**mm**	215	240	240	215	240	240	250	250	260	315	315	350	350
Height	**mm**	550	392	482	570	412	482	655	675	705	785	785	805	805
Operating weight	**kg**	29	19.5	20	32	23	23.5	55	55	66	93	93	130	130
DISCHARGE VALUES	**UNIT**													
Total head	**m**	21.5	20	20	26	24	24	36.5	18	22.5	40	31	48.5	32.5
Max. discharge volume	**l/min**	430	420	420	500	530	530	450	1,440	1,750	1,400	2,040	1,440	2,440
Max. solids diameter	**mm**	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	20	8.5	20
MOTOR	**UNIT**													
Drive motor	**–**	50 Hz 3~	50 Hz 3~	50 Hz 3~	50 Hz 3~	50 Hz 3~	50 Hz 3~	50 Hz 3~	50 Hz 3~	50 Hz 3~	50 Hz 3~	50 Hz 3~	50 Hz 3~	50 Hz 3~
Voltage	**V**	400	400/415	400/415	400	400/415	400/415	400	400	400	400	400	400	400
Power (Full load / start at 400 V)	**A**	3.4/20	3.3/19	3.3/19	5.5/36	4.3/30	4.3/50	7.5/58	7.5/58	10.8/86	14.3/117	14.3/117	21/152	21/152
Power input	**kW**	1.5	1.5	1.5	2.2	2.2	2.2	3.7	3.7	5.5	7.5	7.5	11	11
At revolutions per minute (RPM)	**RPM**	2,850	2,870	2,870	2,860	2,870	2,870	2,850	2,850	2,860	2,880	2,880	2,910	2,910
Cable length	**m**	20	20	20	20	20	20	20	20	20	20	20	20	20
Cross-section	**mm²**	1.5	5	5	1.5	5	5	1.5	1.5	2.5	4.0	4.0	4.0	4.0

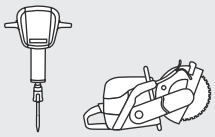
Your everyday work day is full of challenges. We have the right solutions and help you to be ahead of the competition. We offer you everything you need for this purpose:
Wacker Neuson – all it takes!

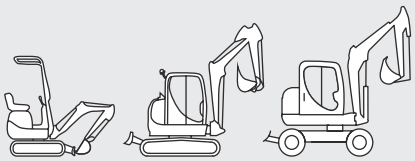
WACKER NEUSON
all it takes!

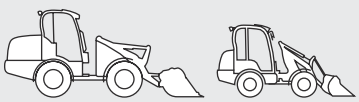
Products

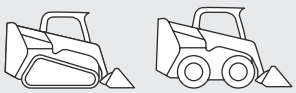

Concrete technology

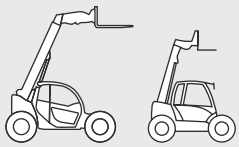

Compaction

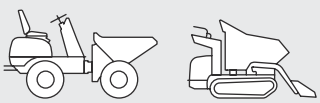

Demolition technology

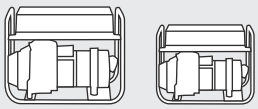

Excavators

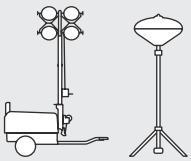

Wheel loaders

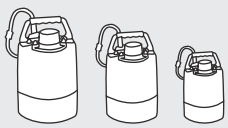

Skid steer loaders

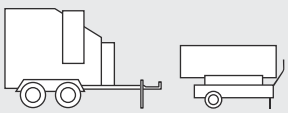

Telehandlers


Dumper


Generators


Lighting


Pumps


Heaters


Used equipment

Services


Financing


Repair & maintenance


Academy


Rental


Telematic

Spare parts

www.wackerneuson.com

WN.EMEA.10171.V01.EN-US

07/2015 EN