



Atlas Copco

Reliable submersible dewatering solutions

The WEDA pump range (50Hz)

WEDA Submersible pumps

WEDA electric submersible pumps and accessories are designed for an extensive range of dewatering applications, across multiple industries.

They provide the performance, reliability and ease of use you need. WEDA pumps feature a built-in starter and motor protection system along with optional automatic level control. Starting with the WEDA D70 more and more WEDA pump models are updated with patented Wear Deflector Technology that provides state-of-the-art wear resistance as well as quick readjustment to as-new performance.

At Atlas Copco, we understand pumps, their applications and, most importantly, the people using them. We have a complete range of high-quality and lightweight electric submersible pumps designed specifically for drainage, sludge and slurry pumping applications.

WEDA pumps are made for durability. The unique cartridge sealing system and modular design make them among the most flexible pumps on the market. Easy to use and maintain, WEDA pumps promise optimal performance. The WEDA seal system is designed to provide the optimum maintenance solution and can be easily fitted at the job site. Repairability of our products is built-in right from the design stage. This minimizes down-time and reduces environmental footprint, a testament to our pledge to sustainability.

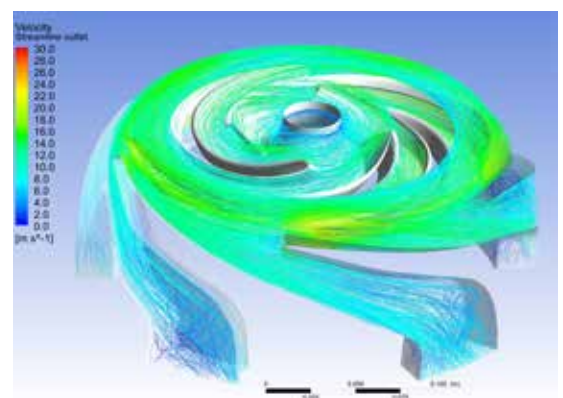


Wear Deflector Technology

WEDA submersible drainage pumps are equipped with a revolutionary hydraulic design that minimizes wear and keeps performance up, even under the toughest conditions.

The patented Wear Deflector Technology consists of several aspects that combine to provide unrivaled resistance to wear by abrasive particles in the pumped media:

	D70	D80	D81	D91	D95
State-of-the-art hydraulic design techniques	✓	✓	✓	✓	✓
State-of-the-art manufacturing techniques	✓	✓	✓	✓	✓
High chrome wear resistant impeller	✓	✓	✓	✓	✓
Closed impeller with auxiliary vanes	H ✓	H&SH ✓	H ✓	H ✓	H&SH ✓
Polyurethane upper diffuser	✓		✓	✓	
Lower difuser with wear deflector vanes	H ✓		H ✓	H ✓	



SPECIFIC GRAVITY
UP TO 1.5



SOLIDS HANDLING
UP TO 60 mm



UP TO 40% LIGHTER
IN WEIGHT



HIGH WEAR RESISTANCE



WEDA pump for every dewatering application

We understand the dewatering needs of our customers, which vary with location and application. Accordingly our submersible range is developed for drainage (D), sludge (S) and slurry (L) applications.

DRAINAGE PUMPS (WEDA D)



SLUDGE PUMPS (WEDA S)



SLURRY PUMPS (WEDA L)



SPECIFIC GRAVITY
UP TO 1.1

SPECIFIC GRAVITY
UP TO 1.2

SPECIFIC GRAVITY
UP TO 1.5

SOLIDS HANDLING
UP TO 12 mm

SOLIDS HANDLING
UP TO 50 mm

SOLIDS HANDLING
UP TO 60 mm

pH VALUES
FROM 5 TO 8

pH VALUES
FROM 5 TO 8

pH VALUES
FROM 4 TO 10



DESIGNED FOR REPAIRABILITY

Applications:

- General dewatering
- Ground water
- Raw water
- Construction sites
- Sludge or light slurry
- Tank clean-out
- Trench and pond cleaning
- Mining and quarries
- Water containing mud
- Abrasive media with solids content
- Dredging
- Settling ponds

Did you know?

WEDA extended the patented Wear Deflector Technology to the entire 12 - 37 kW range!

WEDA D range

The WEDA drainage pumps handle clean as well as dirty water, with the best performance and efficiency.

1

Compact design and high power-to-weight-ratio for real transportability.



2

Built-in starter (DOL/Softstarter) and motor protection (D10 - D91): less equipment to move around. Plug and pump!

3

Dry running capability due to carefully oversized motor and heat dissipating design.

1

2

3

6

4

5

7

4

Patented Wear Deflector Technology for as-new performance for longer periods of time.

5

Double mechanical seal in a stainless steel cartridge and robust o-ring design prevent water ingress and is easy to service.

6

External oil screws make sure that preventive maintenance gets done, instead of postponed until too late.

7

High-chrome cast-iron alloy wear-resistant impeller (55 HRC) and re-adjustable hydraulics to compensate for wear.

55  HRC

**Some features and options on selected models only.*

WEDA S range

The WEDA sludge pumps can handle thick, soft, wet mud or other similarly viscous mixtures of liquids and solids.

1

Compact design and high power-to-weight-ratio for real transportability.



2

Built-in starter and motor protection: less equipment to move around. Plug and pump!

1

3

Dry running capability due to carefully sized motor and heat dissipating design.

2

4

External oil screws making sure that preventive maintenance gets done, instead of postponed until too late.

3

5

Double mechanical seal running in an oil bath and robust o-ring design prevent water ingress and is easy to service.

4

6

High-chrome cast-iron alloy wear-resistant impeller (55 HRC) of vortex type for large solids passage.

5

55  HRC

6

**Some features and options on selected models only.*

WEDA L range

The WEDA slurry pumps are the toughest pumps, designed to handle the most challenging slurries and solids.

1

Heavy-duty motor (class H) with thermal contacts for overload protection.

2

Heavy-duty bearings to handle typical slurry pumping loads.

3

Mechanical- and labyrinth type shaft seals optimized for slurry applications.



4

High-chrome abrasion resistant impeller and wear plates.

4

Solids handling up to 60 mm (2.4 in).



5

High-chrome agitator to get and keep solids in suspension increasing output.

**Some features and options on selected models only.*

A yellow WEDA pump is being lifted by a crane using wooden slings. A worker wearing red and black gloves is holding the pump. The pump has a label that reads "WEDA LINE" and "CE". A white corrugated hose is attached to the pump. The background shows a body of water and trees.

Tough environments demand tough pumps

The unique construction of the WEDA pumps provides high corrosion and wear resistance in a wide range of applications

WEDA D range

Technical data



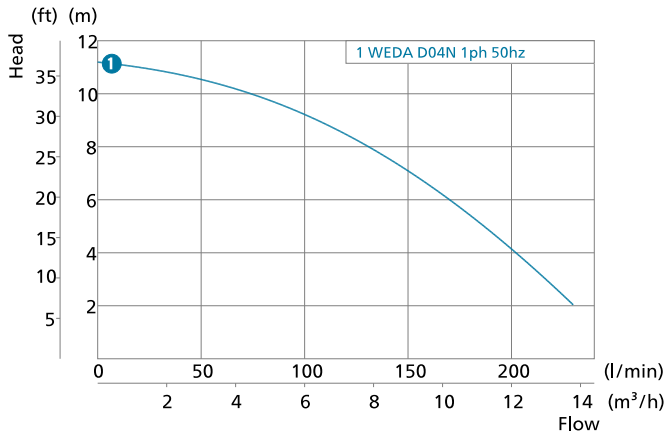
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SPECIFICATIONS		1ph	1ph	1ph	1ph	3ph	1ph	3ph	1ph	3ph	3ph
Max. head	m	11.2	12.0	14.8	14.7	14.4	15.7	15.1	22	22	20
	ft	37	39	49	48	47	52	50	74	72	67
Max. flow	l/min	230	120	330	490	490	1480	1450	860	850	1580
	m ³ /h	14	7	20	30	29	89	87	52	51	95
	gpm	61	32	86	131	129	390	380	230	220	420
Shaft speed	r.p.m.	2900	2900	2900	2900	2900	2900	2900	2900	2900	2900
Rated output	kW	0.4	0.4	0.8	1.0	1.0	2.0	2.0	2.0	2.0	3.0
	HP	0.5	0.5	1.0	1.3	1.3	2.7	2.7	2.7	2.7	4.0
Max. power input	kW	0.7	0.7	1.2	1.6	1.3	2.6	2.6	2.6	2.6	3.6
Discharge connection	mm	50	25	50	50	50	75	75	75	75	75
	inch	2	1	2	2	2	3	3	3	3	3
Max. solids handling size	mm	7.5	4.5	7.5	4.0	4.0	7.0	7.0	7.0	7.0	7.0
	inch	0.30	0.18	0.30	0.16	0.16	0.28	0.28	0.28	0.28	0.28
WEIGHT & DIMENSIONS											
Weight	kg	9.0	9.5	12.4	13.0	13.0	20	20	20	20	25
	lbs	20	21	28	29	29	44	44	44	44	56
Height	mm	340	415	358	395	395	525	525	495	495	525
	inch	13.4	16.3	14.1	15.6	15.6	20.7	20.7	19.5	19.5	20.7
Width	mm	182	220	183	225	225	290	290	290	290	290
	inch	7.2	8.7	7.2	8.9	8.9	11.4	11.4	11.4	11.4	11.4
Diameter	mm	182	220	183	185	185	220	220	220	220	220
	inch	7.2	8.7	7.2	7.3	7.3	8.7	8.7	8.7	8.7	8.7

Typical applications

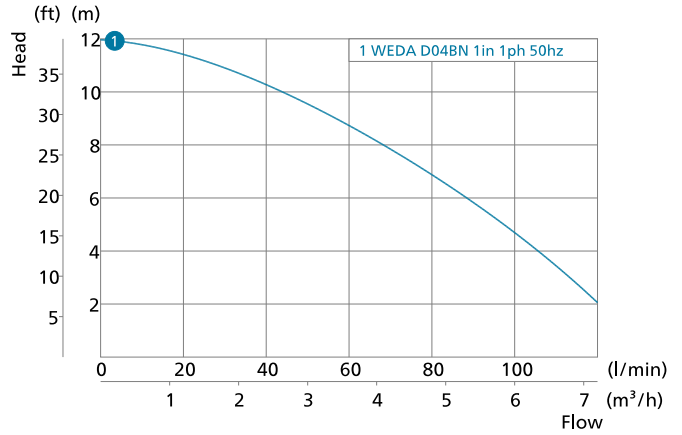
- General construction
- Raw water
- Mining & Quarries
- Flooding & Emergency relief
- Ground water
- Construction sites
- Industrial dewatering

Performance curves

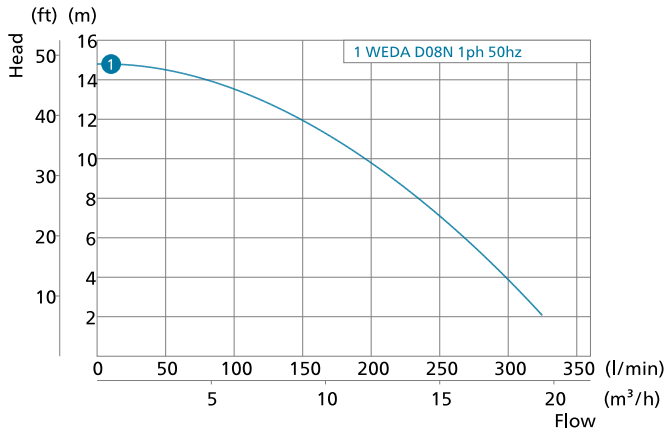
WEDA D04N



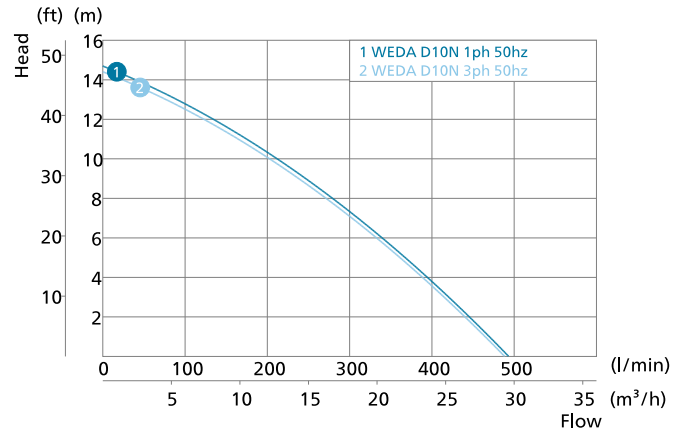
WEDA D04BN



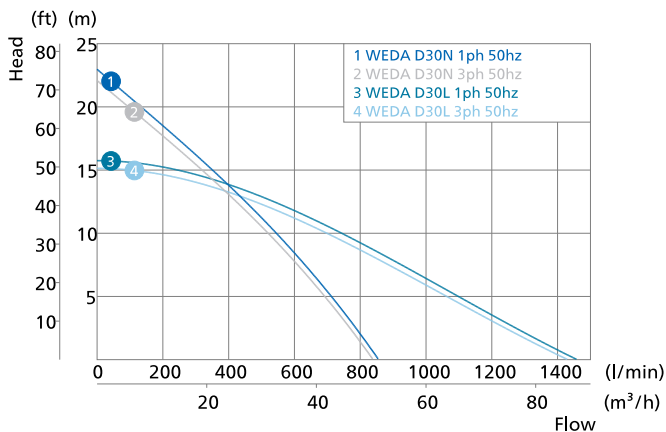
WEDA D08N



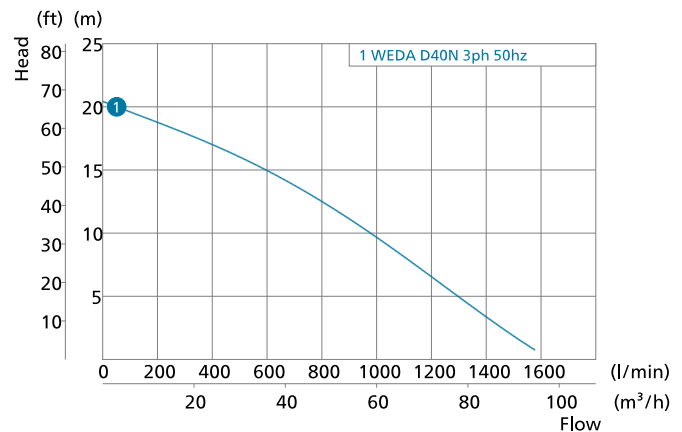
WEDA D10N



WEDA D30



WEDA D40N



WEDA D range

Technical data



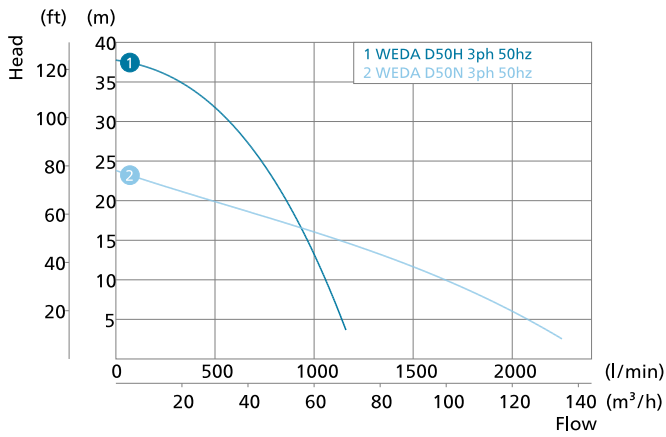
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SPECIFICATIONS		3ph	3ph	3ph	3ph	3ph	3ph	3ph	3ph
Max. head	m	24	38	28	38	58	41	64	100
	ft	78	124	92	123	191	133	210	327
Max. flow	l/min	2250	1160	2590	1460	1030	5810	2510	1850
	m³/h	135	70	156	88	62	350	151	111
	gpm	590	310	690	390	270	1540	660	490
Shaft speed	r.p.m.	2900	2900	2900	2900	2900	2900	2900	2900
Rated output	kW	5.6	5.6	7.5	7.5	7.5	20	20	20
	HP	7.5	7.5	10.1	10.1	10.1	27	27	27
Max. power input	kW	6.7	6.7	8.8	8.8	8.8	22	22	22
Discharge connection	mm	100	75	100	75	75	150	100	75
	inch	4	3	4	3	3	6	4	3
Max. solids handling size	mm	8.0	8.0	8.0	8.0	8.0	12.0	12.0	12.0
	inch	0.31	0.31	0.31	0.31	0.31	0.47	0.47	0.47
WEIGHT & DIMENSIONS									
Weight	kg	55	55	61	61	62	175	175	215
	lbs	122	122	136	136	138	389	389	478
Height	mm	720	720	760	760	760	980	980	1060
	inch	28.3	28.3	29.9	29.9	29.9	38.6	38.6	41.7
Width	mm	330	302	330	302	302	690	665	650
	inch	13.0	11.9	13.0	11.9	11.9	27.2	26.2	25.6
Diameter	mm	278	278	278	278	278	530	530	530
	inch	10.9	10.9	10.9	10.9	10.9	20.9	20.9	20.9

Typical applications

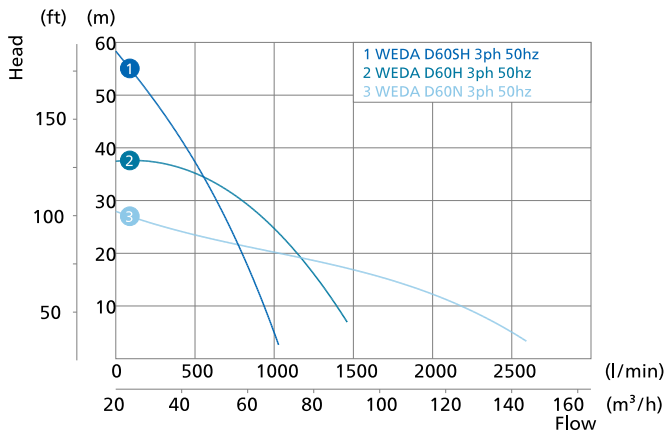
- General construction
- Raw water
- Mining & Quarries
- Flooding & Emergency relief
- Ground water
- Construction sites
- Industrial dewatering

Performance curves

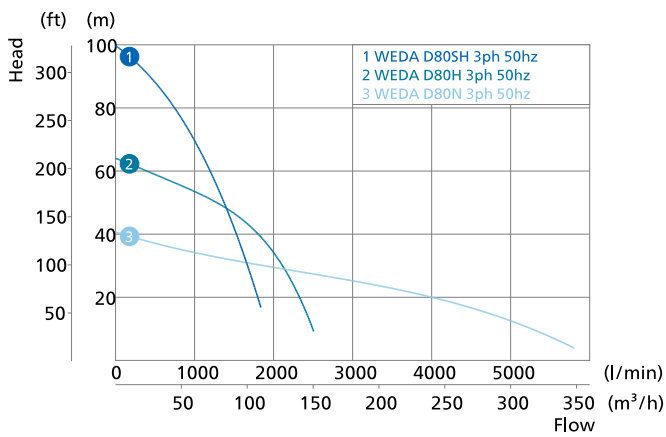
WEDA D50



WEDA D60



WEDA D80



WEDA D range

Technical data



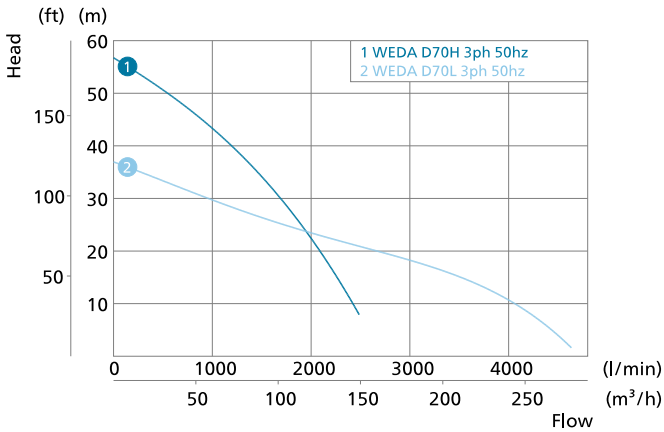
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SPECIFICATIONS		3ph	3ph	3ph	3ph	3ph	3ph
Max. head	m	37	57	42	73	48	82
	ft	121	186	139	238	159	269
Max. flow	l/min	4640	2490	6810	3420	7560	4140
	m ³ /h	280	150	410	210	450	250
	gpm	1220	660	1800	900	2000	1090
Shaft speed	r.p.m.	2900	2900	2900	2900	2900	2900
Rated output	kW	12.0	12.0	20	20	27	27
	HP	16.1	16.1	27	27	36	36
Max. power input	kW	13.8	13.8	22	22	30	30
Discharge connection	mm	150	100	150	100	150	100
	inch	6	4	6	4	6	4
Max. solids handling size	mm	10.0	10.0	12.0	12.0	12.0	12.0
	inch	0.39	0.39	0.47	0.47	0.47	0.47
WEIGHT & DIMENSIONS							
Weight	kg	110	110	190	190	205	205
	lbs	244	244	422	422	456	456
Height	mm	943	943	1075	1075	1125	1125
	inch	37.1	37.1	42.3	42.3	44.3	44.3
Width	mm	415	393	465	440	465	440
	inch	16.3	15.5	18.3	17.3	18.3	17.3
Diameter	mm	370	370	425	425	425	425
	inch	14.6	14.6	16.7	16.7	16.7	16.7

Typical applications

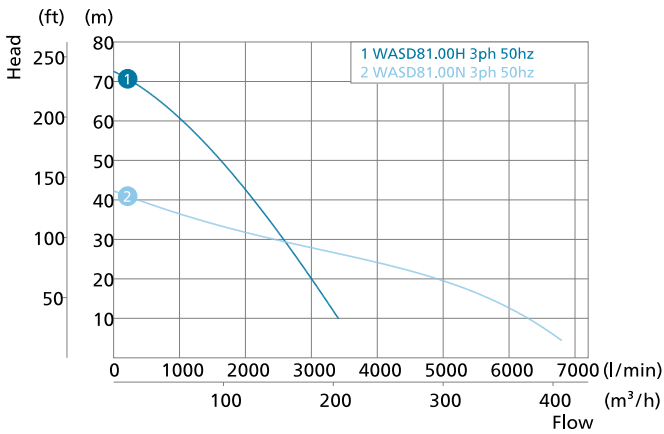
- General construction
- Raw water
- Mining & Quarries
- Flooding & Emergency relief
- Ground water
- Construction sites
- Industrial dewatering

Performance curves

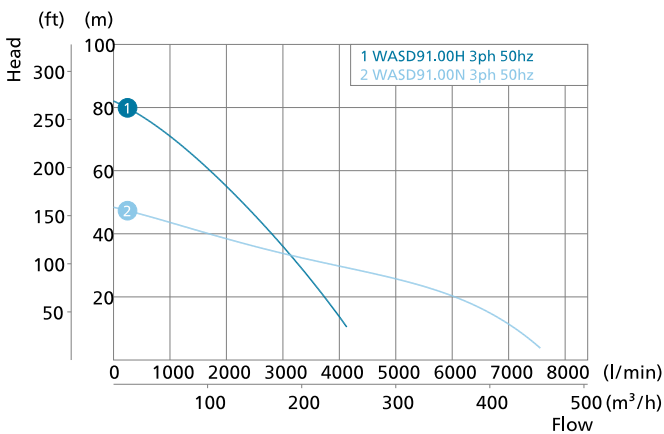
WEDA D70



WEDA D81



WEDA D91



WEDA D range

Technical data



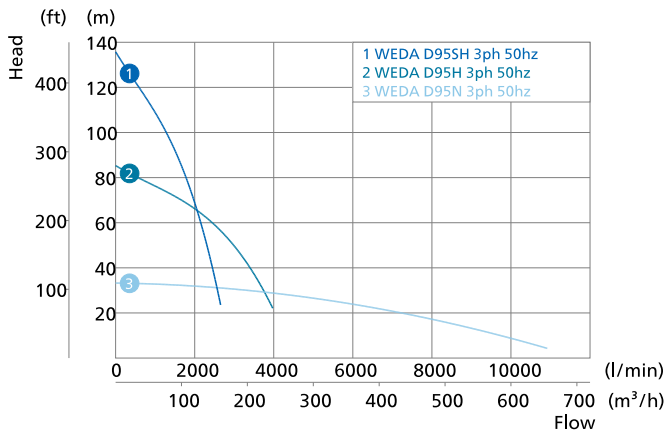
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SPECIFICATIONS		3ph	3ph	3ph	3ph
Max. head	m	33	85	136	42
	ft	109	280	445	139
Max. flow	l/min	10930	3980	2660	18090
	m ³ /h	660	240	160	1090
	gpm	2890	1050	700	4780
Shaft speed	r.p.m.	2900	2900	2900	1450
Rated output	kW	37	37	37	60
	HP	50	50	50	81
Max. power input	kW	43	43	43	65
Discharge connection	mm	200	100	100	250
	inch	8	4	4	10
Max. solids handling size	mm	16.0	12.0	12.0	12.0
	inch	0.63	0.47	0.47	0.47
WEIGHT & DIMENSIONS					
Weight	kg	265	265	300	520
	lbs	589	589	667	1156
Height	mm	1330	1330	1350	1412
	inch	52.4	52.4	53.1	55.6
Width	mm	460	460	465	650
	inch	18.1	18.1	18.3	25.6
Diameter	mm	460	460	465	600
	inch	18.1	18.1	18.3	23.6

Typical applications

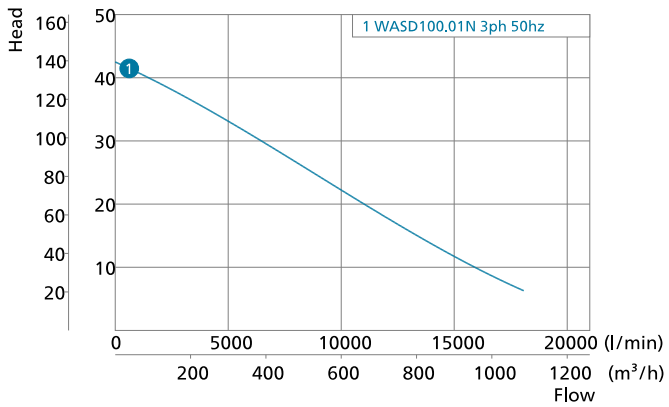
- General construction
- Raw water
- Mining & Quarries
- Flooding & Emergency relief
- Ground water
- Construction sites
- Industrial dewatering

Performance curves

WEDA D95



WEDA D100



WEDA S range

Technical data



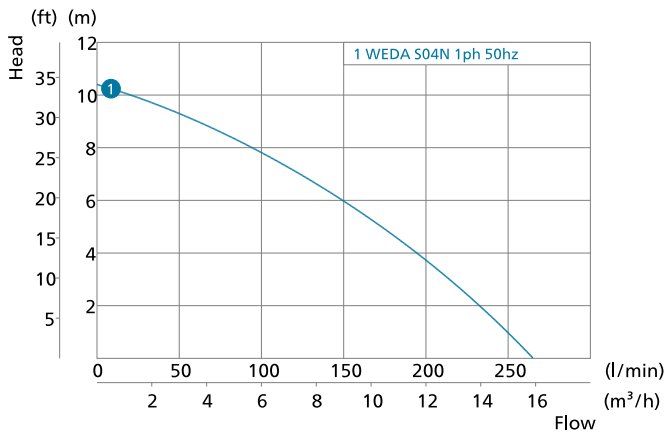
		WEDA S04N	WEDA S08N	WEDA S30N	WEDA S30N	WEDA S50N	WEDA S60N
SPECIFICATIONS		1ph	1ph	1ph	3ph	3ph	3ph
Max. head	m	10.4	13.0	13.0	14.9	23	25
	ft	34	43	43	49	75	81
Max. flow	l/min	270	320	820	960	1450	1740
	m ³ /h	16	19	49	58	87	104
	gpm	70	85	220	250	380	460
Shaft speed	r.p.m.	2900	2900	2900	2900	2900	2900
Rated output	kW	0.4	0.8	1.8	2.5	4.8	6.9
	HP	0.5	1.0	2.4	3.4	6.4	9.3
Max. power input	kW	0.7	1.2	2.4	3.0	5.7	8.1
Discharge connection	mm	50	50	75	75	100	100
	inch	2	2	3	3	4	4
Max. solids handling size	mm	25.0	25.0	50.0	50.0	50.0	50.0
	inch	1.0	1.0	2.0	2.0	2.0	2.0
WEIGHT & DIMENSIONS							
Weight	kg	11.0	13.0	25	25	59	65
	lbs	24	29	56	56	131	144
Height	mm	375	416	620	620	810	870
	inch	14.8	16.4	24.4	24.4	31.9	34.3
Width	mm	277	277	326	326	450	450
	inch	10.9	10.9	12.8	12.8	17.7	17.7
Diameter	mm	241	241	250	250	350	350
	inch	9.5	9.5	9.8	9.8	13.8	13.8

Typical applications

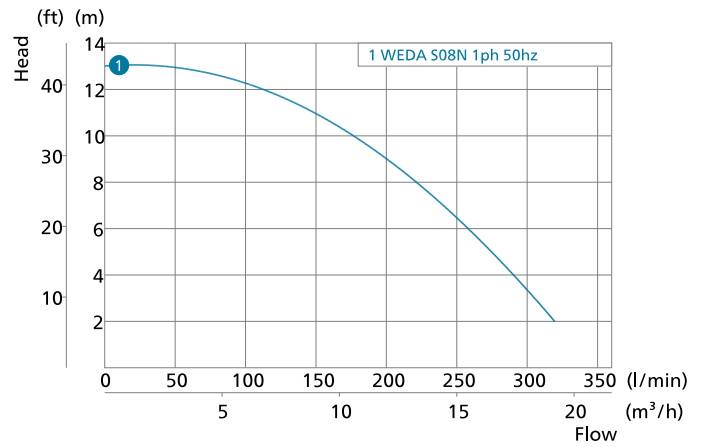
- Sludge or light slurry
- Tank clean-out
- Trench and pond cleaning
- Mining

Performance curves

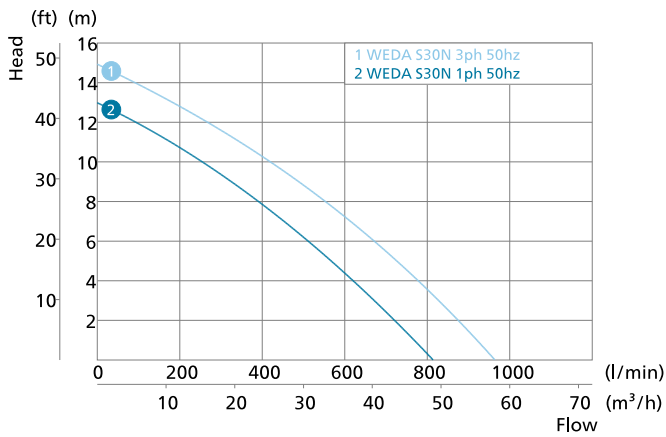
WEDA S04N



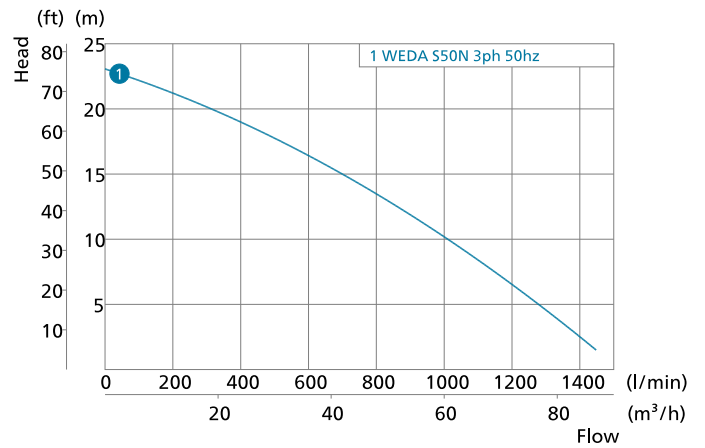
WEDA S08N



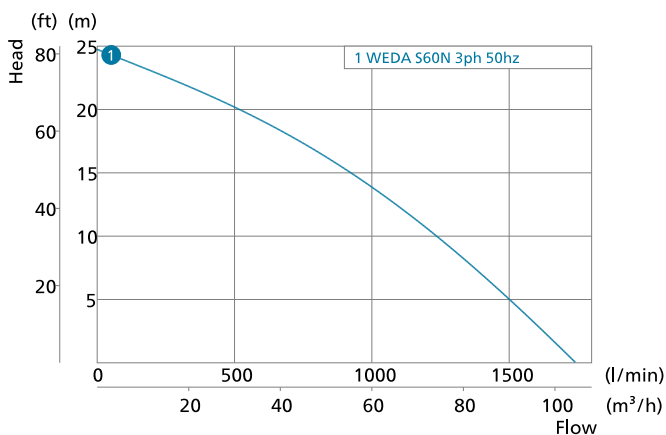
WEDA S30N



WEDA S50N



WEDA S60N



WEDA L range

Technical data



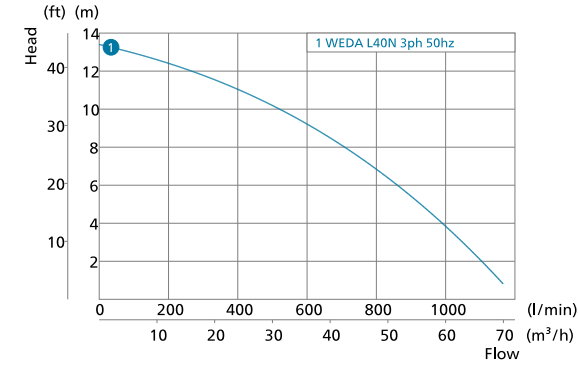
		WEDA L40N	WEDA L50N	WEDA L60N	WEDA L70N	WEDA L80N	WEDA L95N	WEDA L100N	WEDA L110N
SPECIFICATIONS		3ph	3ph	3ph	3ph	3ph	3ph	3ph	3ph
Max. head	m	13.4	17.1	23	24	27	47	30	43
	ft	44	56	75	79	87	155	99	142
Max. flow	l/min	1170	1670	1170	1500	3330	4830	11000	12500
	m ³ /h	70	100	70	90	200	290	660	750
	gpm	310	440	310	400	880	1280	2910	3300
Shaft speed	r.p.m.	1450	1450	1450	1450	1450	1450	980	1450
Rated output	kW	3.7	5.5	9.0	11.0	15.0	37	45	75
	HP	5.0	7.4	12.1	14.8	20	50	60	101
Max. power input	kW	4.5	6.8	10.4	12.8	16.1	40	49	80
Discharge connection	mm	75	100	100	100	100	100	150	150
	inch	3	4	4	4	4	4	6	6
Max. solids handling size	mm	20.0	25.0	25.0	25.0	25.0	35.0	60.0	60.0
	inch	0.8	1.0	1.0	1.0	1.0	1.4	2.4	2.4
WEIGHT & DIMENSIONS									
Weight	kg	185	260	260	270	310	750	1005	1070
	lbs	411	578	578	600	689	1667	2233	2378
Height	mm	793	914	914	914	1080	1605	1605	1605
	inch	31.2	36.0	36.0	36.0	42.5	63.2	63.2	63.2
Width	mm	388	435	435	435	580	935	935	935
	inch	15.3	17.1	17.1	17.1	22.8	36.8	36.8	36.8
Diameter	mm	337	413	413	413	495	546	546	546
	inch	13.3	16.3	16.3	16.3	19.5	21.5	21.5	21.5

Typical applications

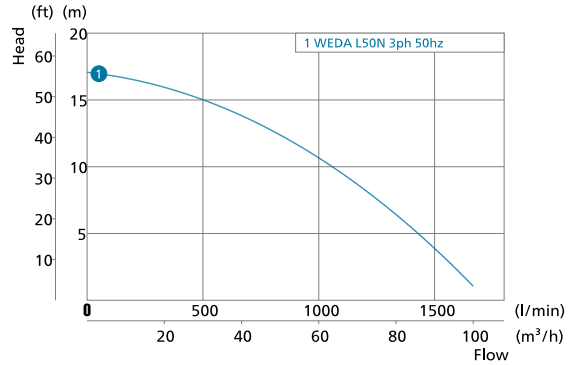
- Abrasive media with high solids content
- Mining and Quarries
- Dredging
- Settling ponds

Performance curves

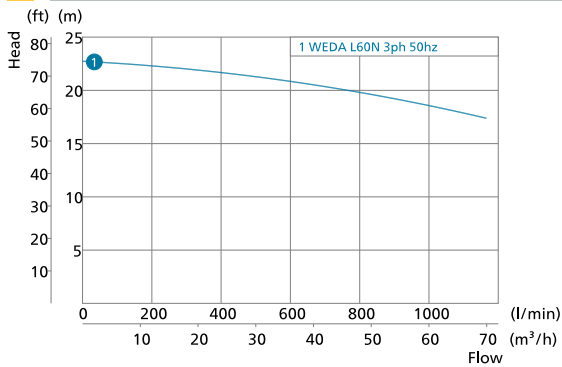
WEDA L40N



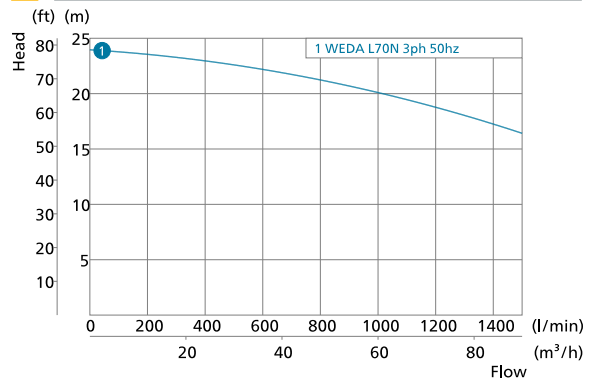
WEDA L50N



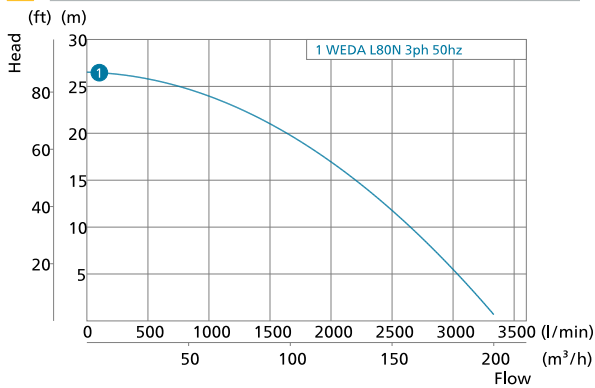
WEDA L60N



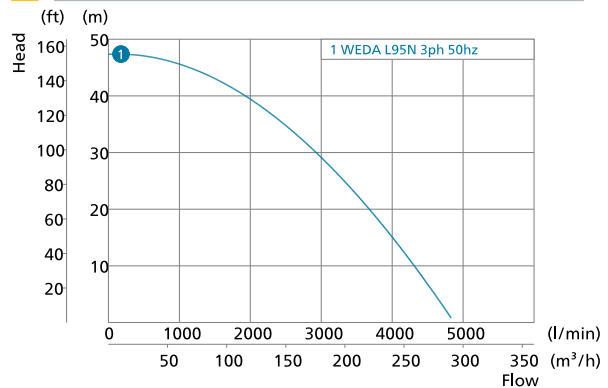
WEDA L70N



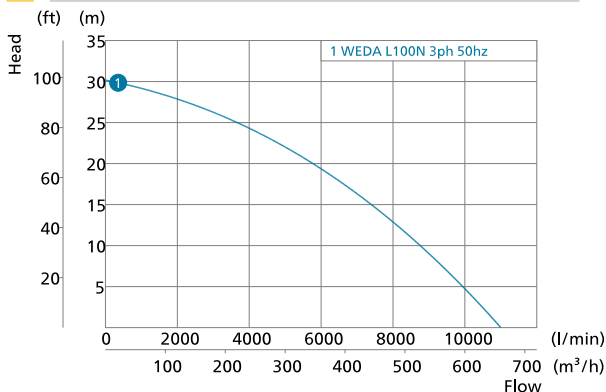
WEDA L80N



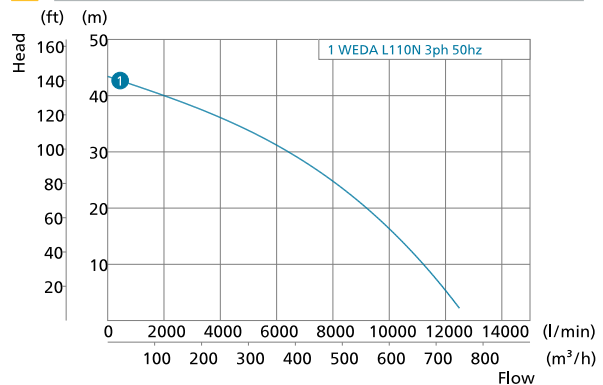
WEDA L95N



WEDA L100N



WEDA L110N



WEDA Pumps in versatile applications

CONSTRUCTION AND INFRASTRUCTURE



At construction sites dewatering pumps are used to remove unwanted surface water or for lowering ground water levels to allow for deeper excavations. Submersible sludge and slurry pumps are used to handle bentonite and other liquids containing larger and more abrasive particles.

Selecting the correct dewatering pump and system begins with an understanding of the characteristics of the construction site; required flow rate and head, liquid specifics such as type of liquid, pH, and solids content. This understanding will be important when selecting the correct type of pump for the job site.

The WEDA range of dewatering pumps is designed to handle liquids from clean water to dirty and abrasive liquids containing sludge or larger particles. The WEDA dewatering pumps come with built-in soft starters, unique and robust cartridge seal and the most wear resistant hydraulics.

Civil Construction



MINING & QUARRY



Dewatering pumps are used in several applications both in underground mines, open pit mines as well as quarries for the removal of water and to keep ground water at low levels. The main objective for dewatering pumps in a mine is to keep the site dry at all times to allow for safe and continuous operations.

Designing a dewatering system is one of the main challenges of mines today, this since water can be both scarce and expensive. The influx of water, the head requirements and liquid characteristics will determine the type of dewatering pumps to be used.

WEDA pumps are of the most robust design and capable of handling the most abrasive and tough applications. Available in high, super high head and high volume versions they are versatile for handling any dewatering requirements in quarries, open pit mines and underground mines.

Face Dewatering



OTHER INDUSTRIAL APPLICATIONS



There is a great need for using submersible dewatering pumps in industrial applications, both for temporary dewatering and for more permanent installations.

The selection of dewatering pumps is based on the liquid specifications together with the head and flow requirement. One of the advantages with submersible dewatering pumps is that they do not need fixed infrastructure or priming and can be installed submerged into the sump.

The WEDA pumps come with built-in soft starter eliminating the need for external panels making the installation quick and easy. Whether there is a need for pumping dirty water, sludge or slurry WEDA pumps offer a solution.

Process Slurry Recirculation



Stream Diversion



Dredging



Tunneling



Water Intake



Stage Dewatering



Ramp Dewatering



Intermediate Pumping station



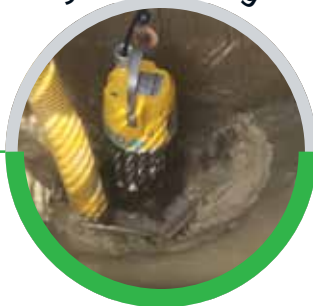
Water Recovery / Intake



Sand-trap clean-out



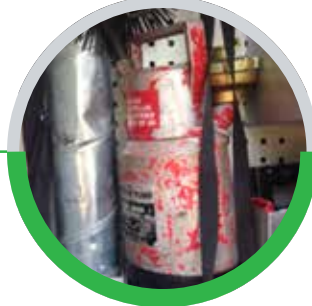
Sludge Pumping



Emergency Relief



Fire brigades



Accessories

DISCHARGE CONNECTIONS

We understand that there is a need and preference for different types of discharge connections and we offer four types. All can be mounted in either a vertical or horizontal position.



Hose



Storz



ISO-G



NPT

SLIM ADAPTER

For lowering pumps in narrow pipes and manholes.



LEVEL REGULATORS

For easy control of water level by automatic pump switch-on/-off:



LOW SUCTION COLLAR

To easily drain the water level down to the floor.

RAFT

For easy floatation of pump with fluctuating water levels and to keep the pump in a suspended position. Strainer option available.



ZINC ANODES

Specifically required for pumping water with a high concentration of salts such as seawater, brine, etc.



Service

SERVICE NETWORK

With a global network of sales channels, distributors, service workshops and partners, pumps can be kept in working condition, ready to deal with tomorrow's challenge.

SEAL KIT

The seal kit is the proper selection of high quality components for a mechanical seal change to ensure trouble-free operation after servicing.

- O-ring kit
- Mechanical shaft seal



WEAR PART KIT

The wear part kit is a typical selection of components to bring the pump performance back to factory standard. The ideal solution for a machine overhaul or refurbishment.

- Impeller
- Wear plate
- Diffuser

*Some features and options on selected models only.

**Built better.
Built to resist.
Built to perform.**



Product portfolio

ENERGY STORAGE SYSTEMS

<p>EXTRA SMALL 2–10 kVA</p>  	<p>SMALL 15–150 kVA</p>  	<p>MEDIUM 200–500 kVA</p>  	<p>FAST CHARGER 160 kw</p>  
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GENERATORS

<p>PORTABLE 1,6–12 kVA</p>  	<p>SPECIALIZED 9–660* kVA</p>  	<p>VERSATILE 9–1250* kVA</p> 	<p>LARGE POWER 800–1450 kVA</p>  
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*Multiple configurations available to produce power for any size application




DEWATERING PUMPS

<p>ELECTRIC SUBMERSIBLE up to 18 000 l/min</p>  	<p>ELECTRIC SELF-PRIMING CENTRIFUGAL 833–23.300 l/min</p>  	<p>SELF-PRIMING CENTRIFUGAL 833–23.300 l/min</p> 
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LIGHT TOWERS

<p>DIESEL</p>  	<p>BATTERY</p>  	<p>ELECTRIC</p>  
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ONLINE SOLUTIONS

<p>FLEETLINK Intelligent telematics is a system that helps optimize fleet usage and reduce maintenance, ultimately saving time and cutting operating costs.</p> 	<p>PUMP SIZING CALCULATOR With a few inputs, this pump sizing calculator will help you to compare dewatering submersible models and find the right one for you.</p> 	<p>LIGHT THE POWER: YOUR SIZING TOOL A useful calculator to help you choose the best solution for your power and light needs.</p> 
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