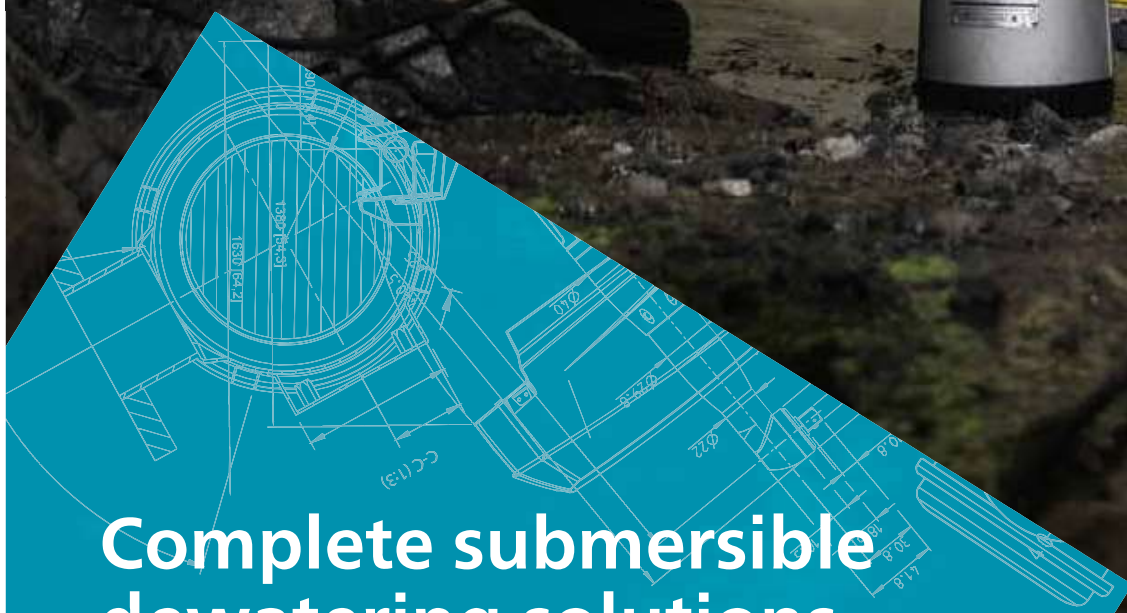




Atlas Copco



# Complete 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 in 2021, 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 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.



**SPECIFIC  
GRAVITY  
UP TO 1.6**



**SOLIDS  
HANDLING  
UP TO 60 mm**



**UP TO  
40%  
LIGHTER  
IN WEIGHT**



**HIGH WEAR  
RESISTANCE**





# There is a WEDA pump for any 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 1.6**

**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 2 UP 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
- Water containing mud
- Abrasive media with solids content
- Quarries
- Dredging
- Settling ponds

# WEDA D range

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



## BUILT-IN STARTER AND PROTECTION

- Rotation control
- Phase failure protection
- Thermal switches
- Direct-on-line or reduced start current with Softstarter
- Eliminates the need for external starter

## FLEXIBILITY

Discharges can be mounted vertically or horizontally as required

## HIGH CORROSION RESISTANCE

Unique aluminum alloy offers the perfect combination of strength, light weight and corrosion resistance

## MOTOR PROTECTION

Class H motors, with thermal switches in each winding

## EXTENDED PERFORMANCE

Pump design ensures all-round motor cooling for better performance and dry-running capability

## CABLE SEALING

Ensures protection against water leakage from cable entry

## SEALING SOLUTION

The sealing system is optimized for pump size

## IMPROVED WEAR RESISTANCE

High-chrome (55HRC) impellers provide higher wear resistance

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, especially the product of an industrial or refining process.

## DRY RUNNING CAPABILITIES

Improved rib design offers external cooling to motor for extended running time

## MOTOR PROTECTION

Class H motors, with thermal switches in each winding

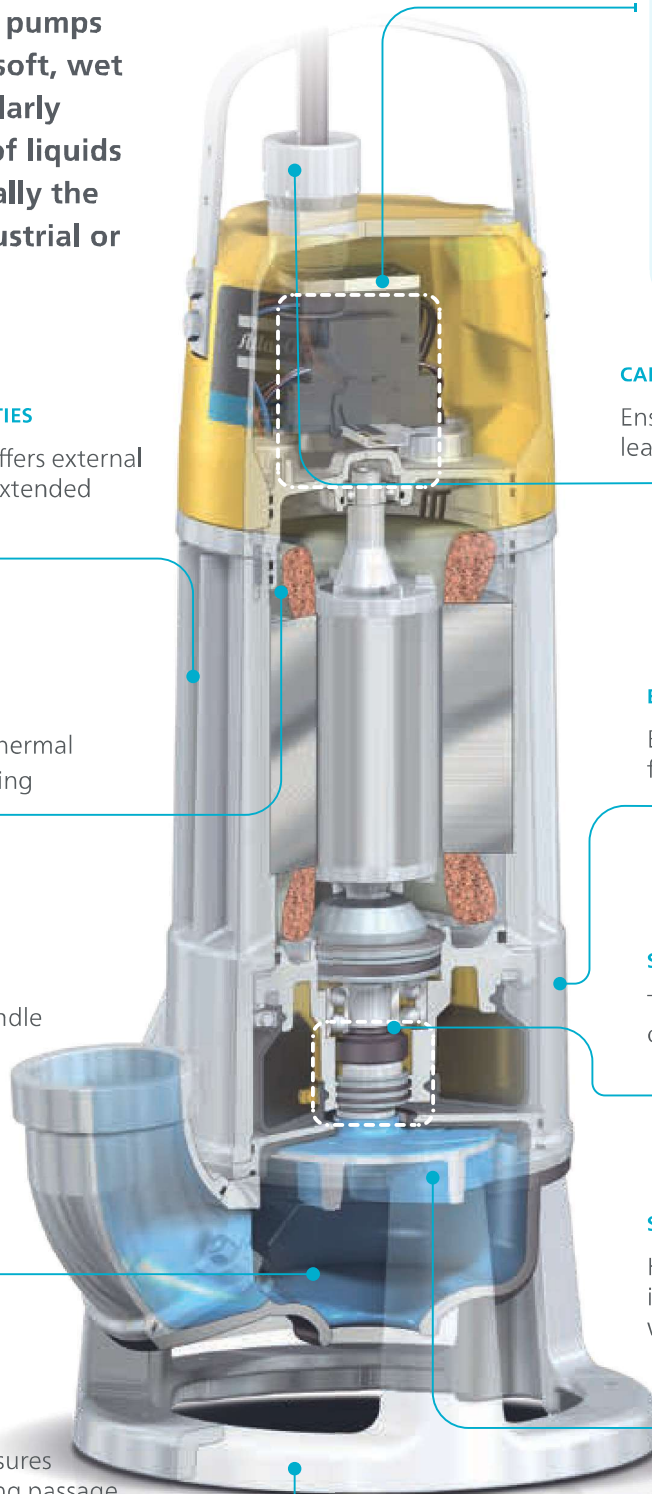
## SOLIDS HANDLING

Sludge pumps can handle solids up to 50 mm

 **SOLIDS HANDLING**  
UP TO 50<sub>mm</sub>

## ROBUST DESIGN

Base of the pump ensures stability while enabling passage of large solids



## BUILT-IN STARTER AND PROTECTION

Rotation control  
Phase failure protection  
Thermal switches  
Phase shifter plugs for three-phase pumps  
Eliminates the need for external starter

## CABLE SEALING

Ensures protection against water leakage from cable entry

## EASY INSPECTION

External oil inspection plug for quick inspection of oil

## SEALING SOLUTION

The sealing system is optimized for pump size

## SUSTAINABLE PERFORMANCE

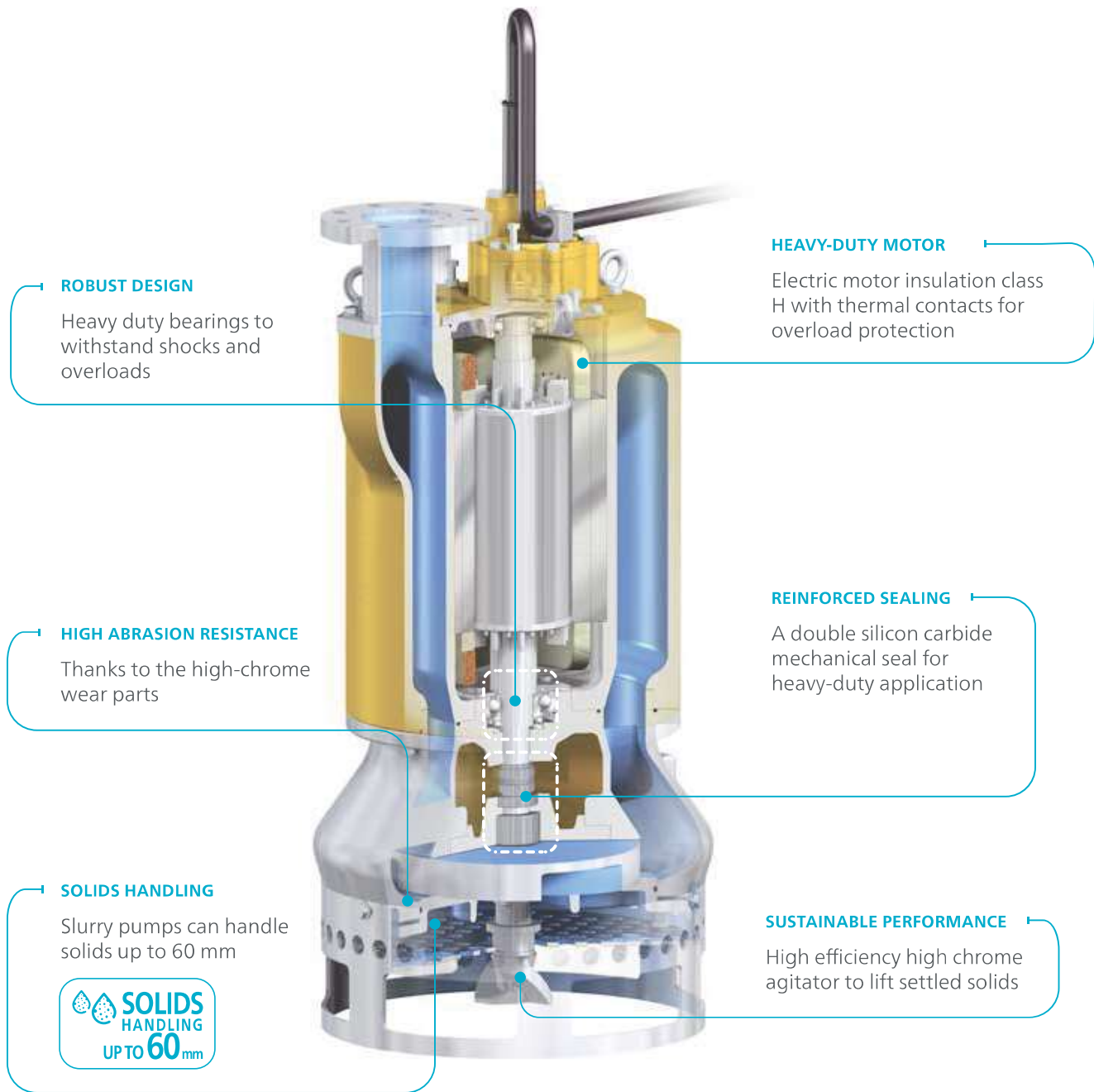
High-chrome (55HRC) impellers provide higher wear resistance

55  HRC

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

# WEDA L range

The WEDA slurry pumps are the toughest, to facilitate handling of slurry with the most challenging solids.



### ROBUST DESIGN

Heavy duty bearings to withstand shocks and overloads

### HEAVY-DUTY MOTOR

Electric motor insulation class H with thermal contacts for overload protection

### HIGH ABRASION RESISTANCE

Thanks to the high-chrome wear parts

### REINFORCED SEALING

A double silicon carbide mechanical seal for heavy-duty application

### SOLIDS HANDLING

Slurry pumps can handle solids up to 60 mm



### SUSTAINABLE PERFORMANCE

High efficiency high chrome agitator to lift settled solids

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



## 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



		WEDA D04N	WEDA D04BN	WEDA D08N	WEDA D10N		WEDA D30L		WEDA D30N		WEDA D40N
SPECIFICATIONS		1ph	1ph	1ph	1ph	3ph	1ph	3ph	1ph	3ph	3ph
Max. head	m	11.3	12.0	14.8	14.5	14.5	15.5	15.0	23	22	20
Max. flow	l/min	250	120	325	490	490	1450	1425	820	810	1600
	m <sup>3</sup> /h	15	7.2	20	30	30	85	85	50	50	95
Shaft speed	r.p.m.	2900	2900	2900	2900	2900	2900	2900	2900	2900	2900
Rated output	kW	0.4	0.4	0.75	1.0	1.0	2.0	2.0	2.0	2.0	3.0
Max. power input	kW	0.65	0.65	1.2	1.6	1.3	2.6	2.6	2.6	2.6	3.6
Discharge connection	inch	2"	1"	2"	2"	2"	3"	3"	3"	3"	3"
Max. solids handling size	mm	7.5	4.5	7.5	4	4	7	7	7	7	7
WEIGHT & DIMENSIONS											
Weight	kg	9.0	9.5	12.4	13.0	13.0	20	20	20	20	25
Height	mm	340	415	358	470	470	525	525	525	525	525
Width	mm	182	220	183	225	225	290	290	290	290	290
Diameter	mm	182	220	183	185	185	220	220	220	220	220

## Typical applications

- General construction
- Ground water
- Raw water
- Construction sites

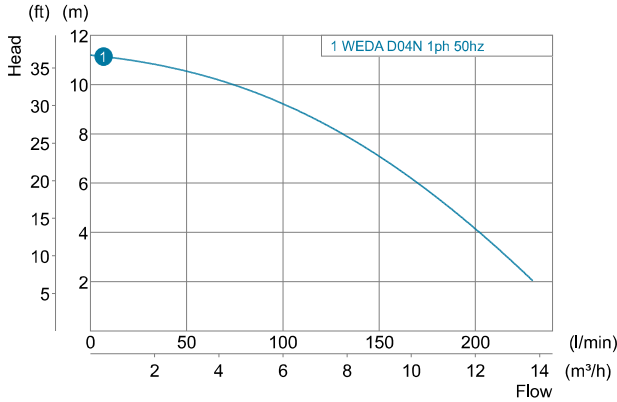




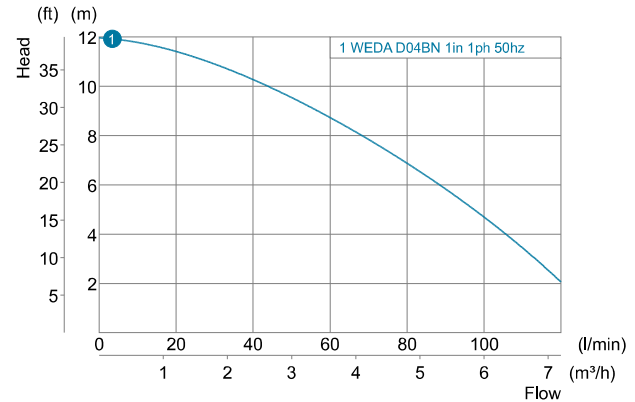


# Performance curves

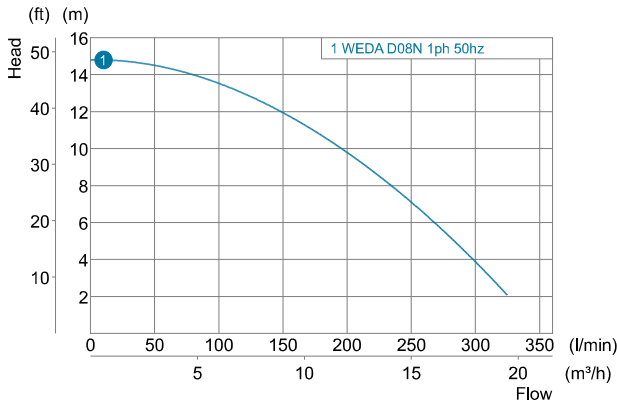
**WEDA D04N**



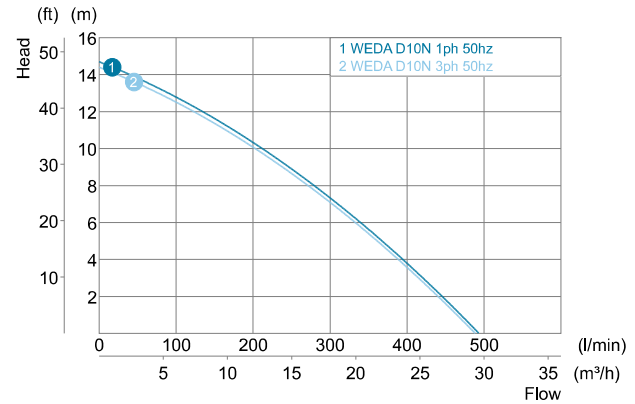
**WEDA D04BN**



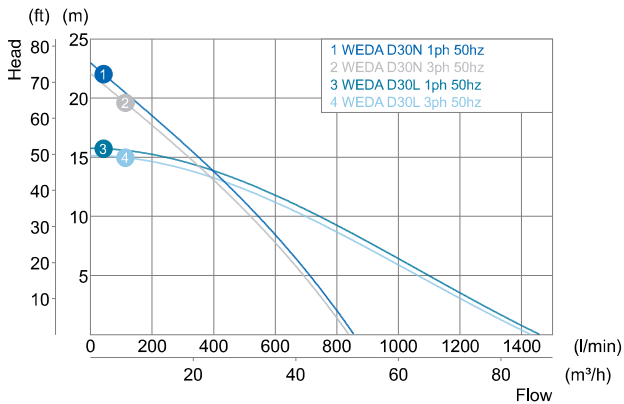
**WEDA D08N**



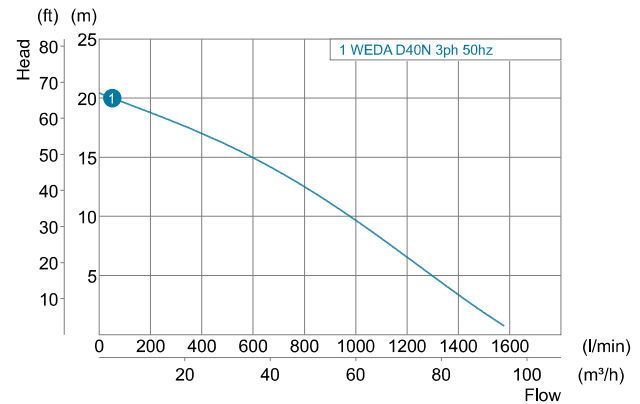
**WEDA D10N**



**WEDA D30**



**WEDA D40N**



# WEDA D range

## Technical data



		WEDA D50N	WEDA D50H	WEDA D60N	WEDA D60H	WEDA D60SH	WEDA D70L	WEDA D70H
SPECIFICATIONS		3ph	3ph	3ph	3ph	3ph	3ph	3ph
Max. head	m	24	38	28	38	59	37	57
Max. flow	l/min	2300	1150	2600	1500	1050	4600	2500
	m <sup>3</sup> /h	135	70	155	90	60	275	150
Shaft speed	r.p.m.	2900	2900	2900	2900	2900	2900	2900
Rated output	kW	5.6	5.6	7.5	7.5	7.5	12	12
Max. power input	kW	6.7	6.7	8.8	8.8	8.8	13.8	13.8
Discharge connection	inch	4"	3"	4"	3"	3"	6"	4"
Max. solids handling size	mm	8	8	8	8	8	10	10
WEIGHT & DIMENSIONS								
Weight	kg	55	55	61	61	62	110	110
Height	mm	720	720	760	760	760	943	943
Width	mm	330	302	330	302	302	416	393
Diameter	mm	278	278	278	278	278	370	370

## Typical applications

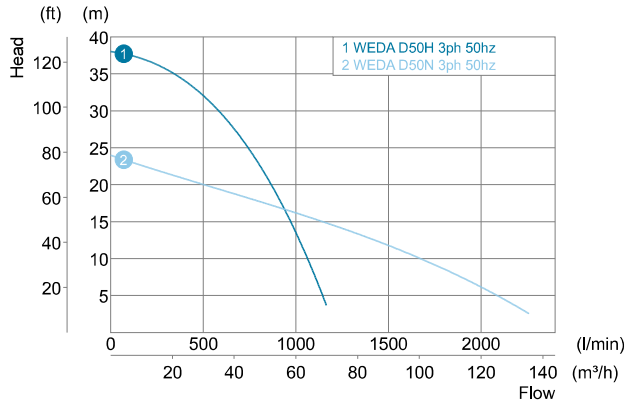
- General construction
- Ground water
- Raw water
- Construction sites



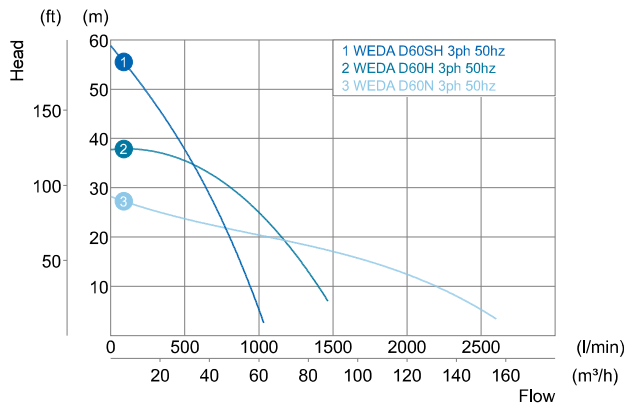


## Performance curves

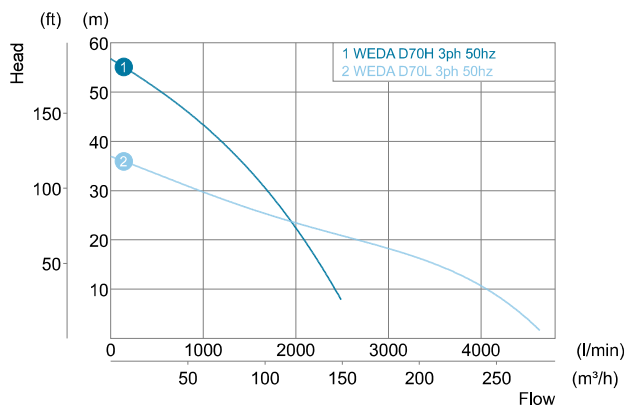
### WEDA D50



### WEDA D60



### WEDA D70



## 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:

- Developed with state-of-the-art Computational Fluid Dynamics (CFD)
- 3D printing to cast complex geometries
- High chrome wear resistant impeller
- Closed impeller with auxiliary vanes to keep the impeller eye free from abrasives
- Lower diffuser with wear deflector vanes to avoid impeller inlet wear

	D70L	D70H	D80N	D80H	D95N	D95H
State-of-the-art hydraulic design techniques	✓	✓	✓	✓	✓	✓
State-of-the-art manufacturing techniques	✓	✓	✓	✓	✓	✓
High chrome wear resistant impeller	✓	✓	✓	✓	✓	✓
Closed impeller with auxiliary vanes		✓		✓		✓
Lower difuser with wear deflector vanes		✓				



# WEDA D range

## Technical data



		WEDA D80N	WEDA D80H	WEDA D90L	WEDA D90H	WEDA D95N	WEDA D95H	WEDA D100N
SPECIFICATIONS		3ph	3ph	3ph	3ph	3ph	3ph	3ph
Max. head	m	40	65	44	86	31	86	43
Max. flow	l/min	6000	2500	6800	2400	11000	4000	18000
	m <sup>3</sup> /h	360	150	400	145	660	240	1080
Shaft speed	r.p.m.	2900	2900	2900	2900	2900	2900	1450
Rated output	kW	20	20	27	27	37	37	60
Max. power input	kW	22	22	30	30	43	43	65
Discharge connection	inch	6"	4"	6"	4"	8"	4"	10"
Max. solids handling size	mm	12	12	7	7	16	12	12
WEIGHT & DIMENSIONS								
Weight	kg	175	175	180	180	265	265	510
Height	mm	980	980	1100	1100	1330	1330	1412
Width	mm	690	665	480	480	460	460	650
Diameter	mm	530	530	400	400	460	460	600

## Typical applications

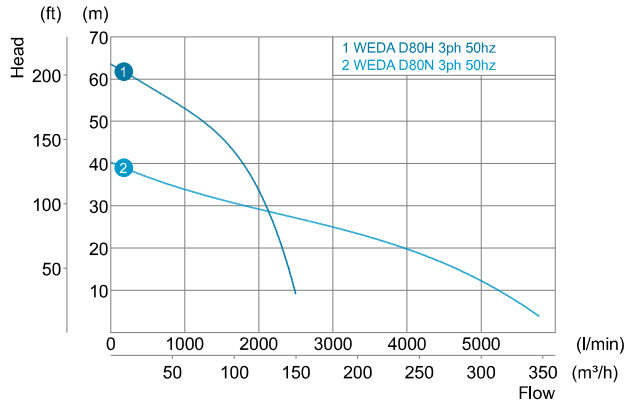
- General construction
- Ground water
- Raw water
- Construction sites



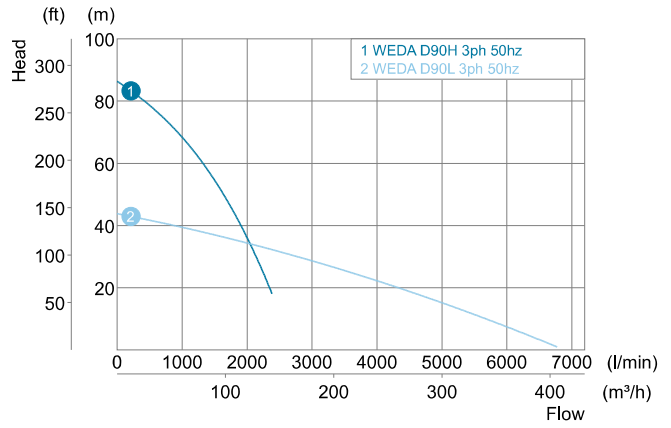


# Performance curves

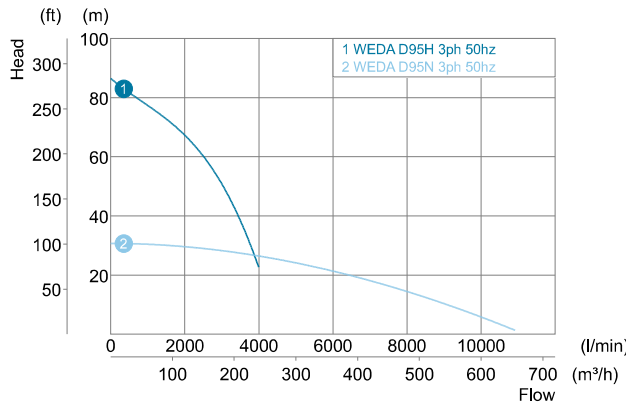
## WEDA D80



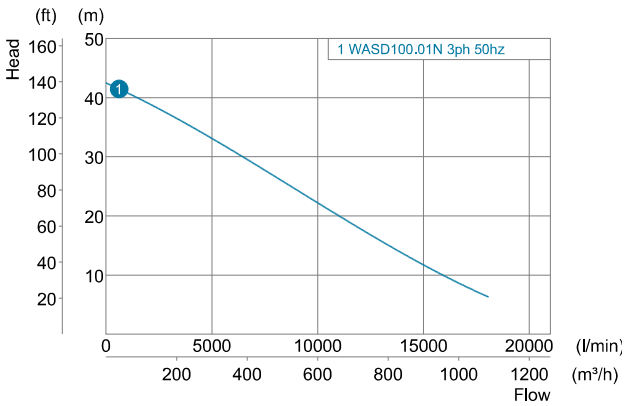
## WEDA D90



## WEDA D95



## WEDA D100



# WEDA S range

## Technical data



		WEDA S04N	WEDA S08N	WEDA S30N		WEDA S50N	WEDA S60N
SPECIFICATIONS		1ph	1ph	1ph	3ph	3ph	3ph
Max. head	m	10.5	13	13	15	23	25
Max. flow	l/min	270	320	800	950	1450	1750
	m <sup>3</sup> /h	16	19	48	57	87	105
Shaft speed	r.p.m.	2900	2900	2900	2900	2900	2900
Rated output	kW	0.4	0.75	1.8	2.5	4.8	6.9
Max. power input	kW	0.65	1.2	2.4	3	5.7	8.1
Discharge connection	inch	2"	2"	3"	3"	4"	4"
Max. solids handling size	mm	25	25	50	50	50	50
WEIGHT & DIMENSIONS							
Weight	kg	11	13	25	25	59	65
Height	mm	375	416	620	620	810	870
Width	mm	277	277	326	326	450	450
Diameter	mm	241	241	250	250	350	350

## Typical applications

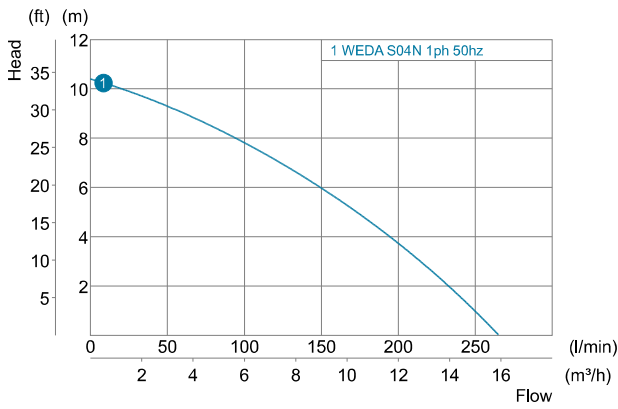
- Sludge or light slurry
- Tank clean-out
- Trench and pond cleaning
- Mining



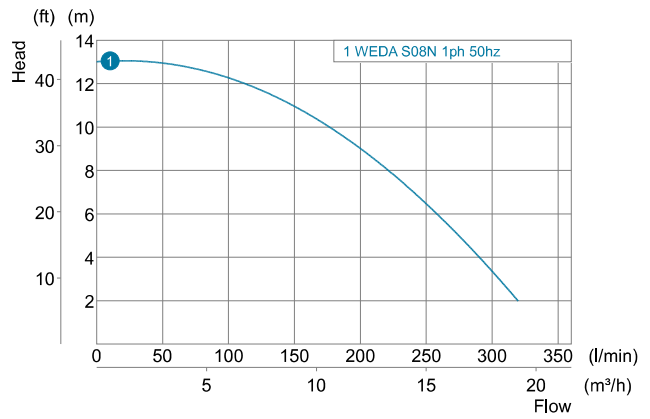


# Performance curves

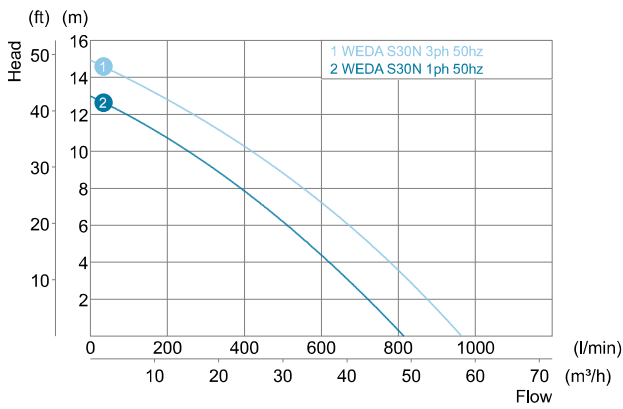
**WEDA S04N**



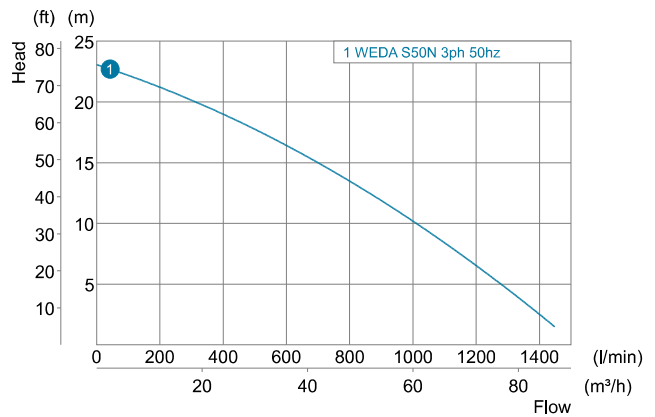
**WEDA S08N**



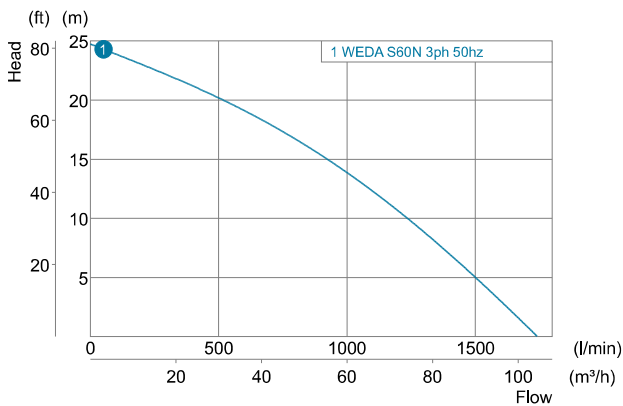
**WEDA S30N**



**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	17	23	24	26	47	30	43
Max. flow	l/min	1150	1700	1050	1500	3300	4750	11000	12500
	m <sup>3</sup> /h	69	102	63	90	198	285	660	750
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
Max. power input	kW	4.5	6.8	10.4	12.8	16.1	40	49	80
Discharge connection	inch	3"	4"	4"	4"	4"	4"	6"	6"
Max. solids handling size	mm	20	25	25	25	25	35	60	60
WEIGHT & DIMENSIONS									
Weight	kg	185	260	260	270	310	750	1005	1070
Height	mm	793	914	914	914	1080	1605	1605	1605
Width	mm	388	435	435	435	580	935	935	935
Diameter	mm	337	413	413	413	495	546	546	546

## Typical applications

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

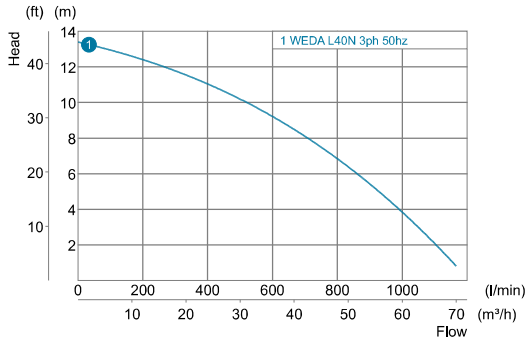




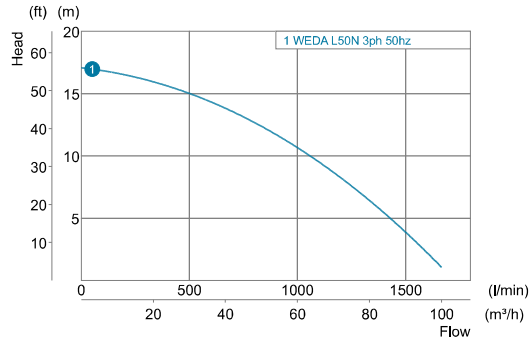


# Performance curves

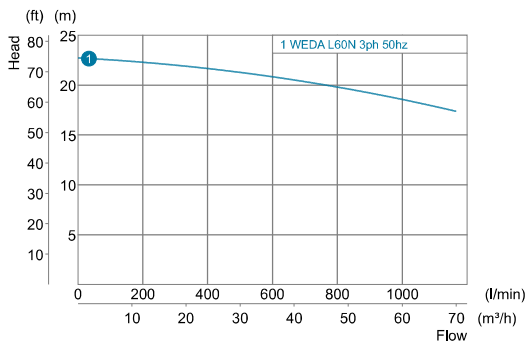
**WEDA L40N**



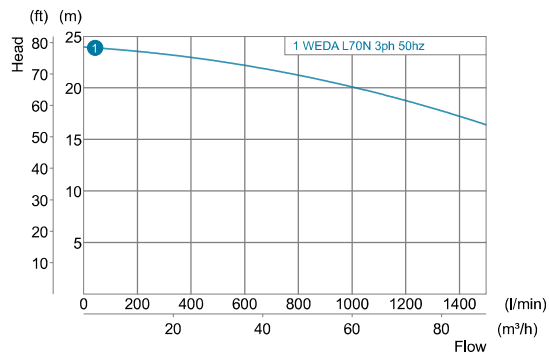
**WEDA L50N**



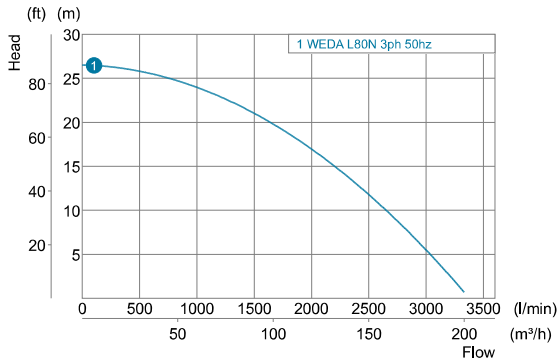
**WEDA L60N**



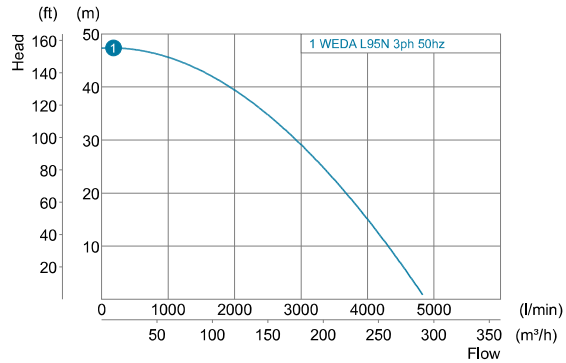
**WEDA L70N**



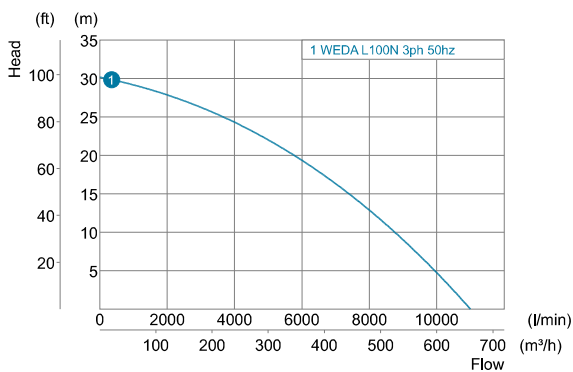
**WEDA L80N**



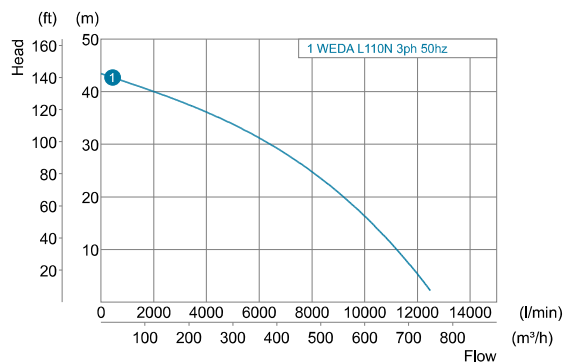
**WEDA L95N**



**WEDA L100N**



**WEDA L110N**



# Accessories

## DISCHARGE CONNECTIONS

We understand that you will have preferred equipment connections, so 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. Strainer option available.



### ZINC ANODES

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



# Service Kits

### 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



### INSTANT SERVICE PACK

The instant service pack is a preassembled, tested and ready-to-use seal system containing the mechanical shaft seals, bearings, gaskets and oil to ensure trouble-free operation. It offers a quick onsite repair option due to ease of installation and therefore reduces the machine downtime cost.

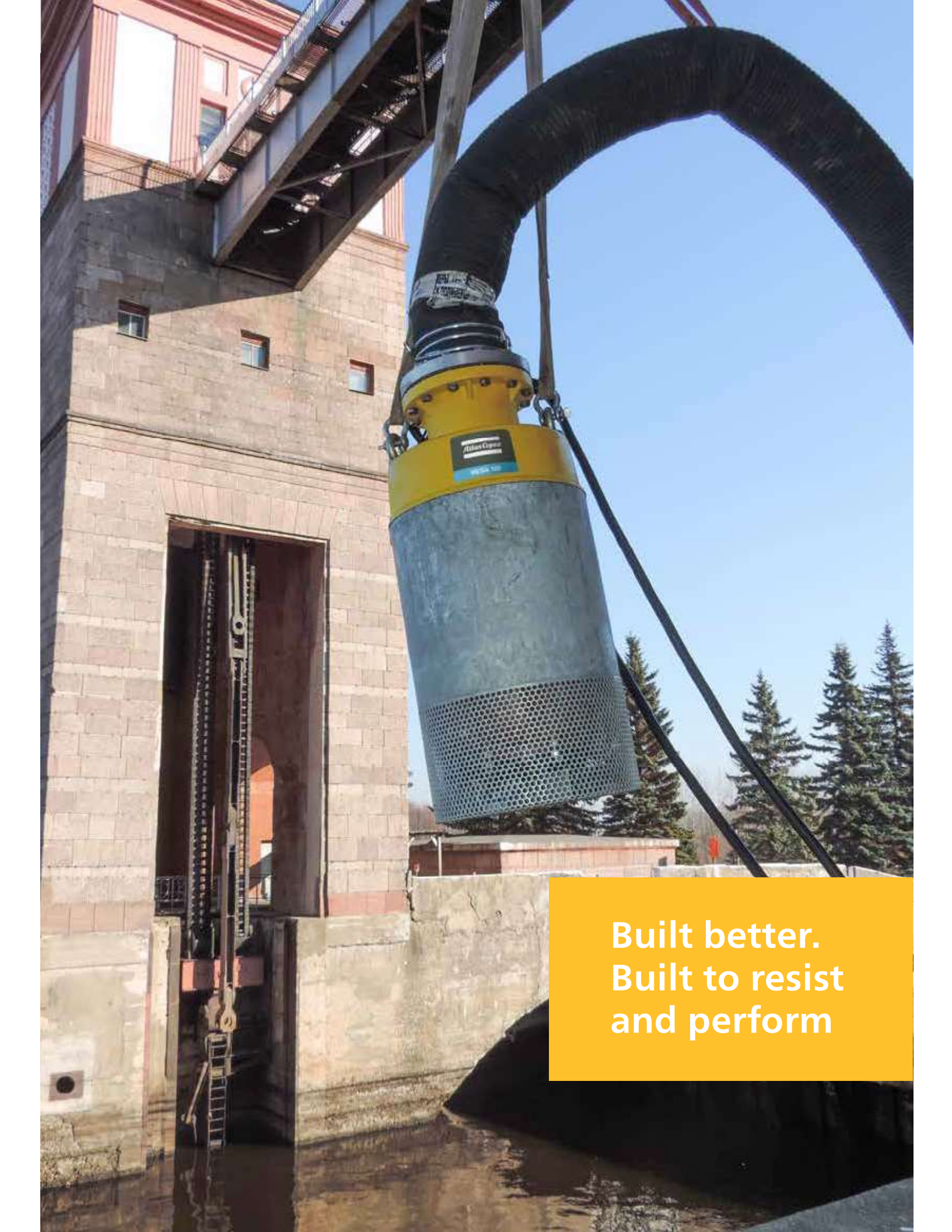


### WEAR PART KIT

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  
and perform**

# Product portfolio

## GENERATORS

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

## DEWATERING PUMPS ENERGY STORAGE SYSTEMS







<p><b>ELECTRIC SUBMERSIBLE</b> up to 18 000 l/min</p>  	<p><b>SURFACE PUMPS</b> 833–23.300 l/min</p>  <p>StageV</p>	<p><b>ZENERGIZE</b> 45-500* kVA</p>  
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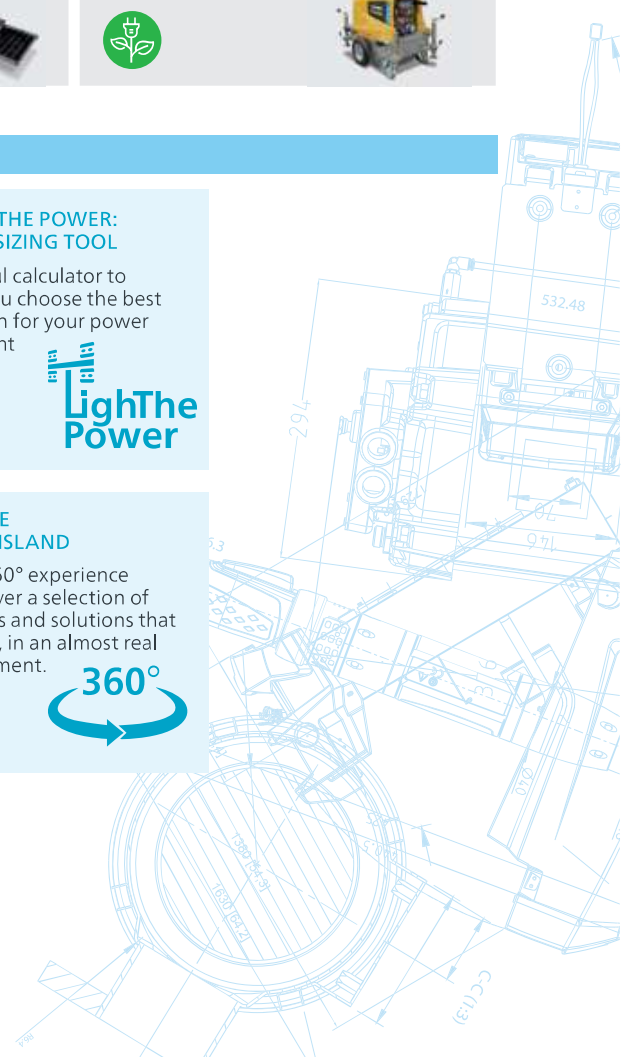
Diesel and electric options available

## LIGHT TOWERS

<p><b>DIESEL</b></p>  <p>StageV</p>	<p><b>BATTERY</b></p>  	<p><b>ELECTRIC</b></p>  
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## ONLINE SOLUTIONS

<p><b>SHOP ONLINE PARTS ONLINE</b></p> <p>Spare parts for power equipment. We handle your orders 24 hours a day.</p> 	<p><b>POWER CONNECT</b></p> <p>Scan the QR code on your machine, and go to the QR Connect Portal to find all the information about your machine.</p> 	<p><b>LIGHT THE POWER: YOUR SIZING TOOL</b></p> <p>A useful calculator to help you choose the best solution for your power and light needs.</p> 
<p><b>FLEETLINK</b></p> <p>Intelligent telematics is a system that helps optimize fleet usage and reduce maintenance, ultimately saving time and cutting operating costs.</p> 	<p><b>PUMP SIZING CALCULATOR</b></p> <p>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><b>VISIT THE POWER ISLAND</b></p> <p>Live a 360° experience to discover a selection of products and solutions that we offer, in an almost real environment.</p> 



# WEDA L40 (50 Hz)

## Product reference sheet

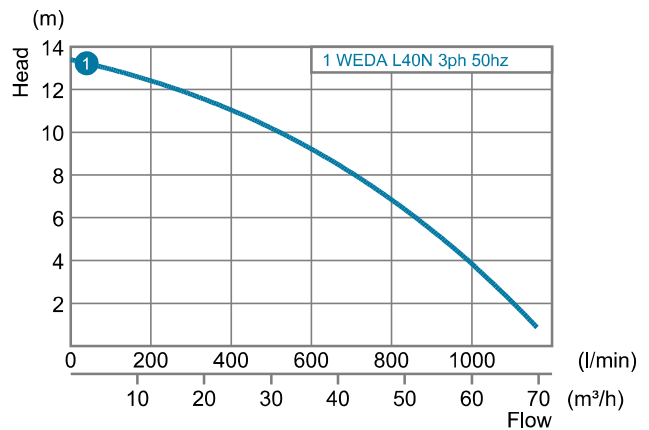
The WEDA slurry pumps are the toughest and have the largest apertures to facilitate handling of slurry with the most challenging solids. These pumps are specially designed to operate in quarries, dredging and settling ponds, dealing with abrasive media with high solids content. All WEDA L slurry pumps use an agitator for increased solids removal efficacy.

Product code	Weda L40N
Installation	Portable
Hydraulic range	N - normal head
Liquid temperature	max 35°C (95°F) , standard
pH of the pumped liquid	4-10
Depth of immersion	20 m (65 ft)
Number of poles	4
Insulation class	H
Protection class	IP68
Thermal contacts	110°C (230°F)
Cable	H07RN-F 4G10/SOOW 4xAWG6
Cable length	20 m (65 ft)
Outer casing	CI Alloy
Impeller	Cr Alloy CI
Agitator	Cr Alloy CI
Wear parts	Cr Alloy CI
Stator housing	CI Alloy
Strainer	CI Alloy
Shaft	39NiCrMo3 or equivalent
O-rings	Viton
Discharge connection	CI Alloy
Bearings	Heavy Duty Bearings
Motor side seals	1 mechanical seal (SiC/C in oil bath)
Impeller side seals	1 mechanical seal (SiC/SiC in oil bath) + 4 lip seal (2 BUNA + 2 TPU)
Start type	Direct-on-line

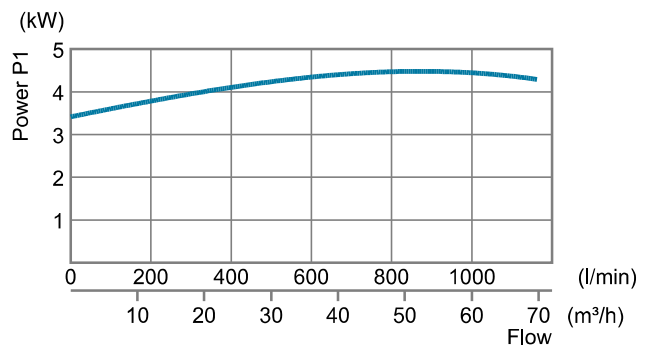
Weight and dimensions	Weda L40N
Discharge connection	3" (75mm) hose
Solid handling	20 mm
Weight (excl. cable)	185 kg
Height	793 mm
Width	388 mm
Diameter	337 mm
Minimum immersion	350 mm



### Performance curve



### Power rating



Rating	3 ph
Power P <sub>1</sub>	4.5 kW
Power P <sub>2</sub>	3.7 kW
400 V	8.7 A
Shaft speed	1450 r.p.m.
Other voltages on request	

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