

# Surface and underground water swivels

## Technical sheet



### Water swivels for surface drilling projects

By continuously pushing the boundaries of innovation, our products like water swivels not only meet but exceed industry standards. Water swivels are responsible for providing flushing fluid to the bit and for hoisting the drill rods in and out of the bore hole. How deep you are drilling will decide which water swivel you should use because it must have enough capacity to lift the weight of the drill rods. Deep holes involve more drill rods and result in a heavier amount to lift.

Choose from a wide selection of water swivels:

#### Surface Ultra Deep water swivel

Building on the success of our other water swivels, Epiroc is proud to introduce the Ultra Deep water swivel. It offers an impressive 50,000 lbs capacity, making it ideal for surface drilling operations requiring very deep holes.

This model is suitable for bore holes up to 2,884 meters in N size, up to 1,948 meters in depth in H size and up to 1,415 meters in P size.

#### Exceptional capacity

With its 50,000-pound capacity, it can handle the most demanding drilling tasks.

#### Innovative design

Features an easy to handle and robust design.

#### Enhanced safety

At half the size and weight of comparable products, its size and weight are optimized to increase safety onsite.

#### Convenient size

Lightweight and easy to transport yet still features an exceptionally high capacity.

#### Durability

A durable ceramic layer over the spindle ensures a long lifespan even in harsh conditions.

**NEW!**



Ultra Deep water swivel

### Surface Shallow water swivel

For surface drilling of shallow hole, this water swivel still has an impressive load capacity of 14,000 lbs. It is an ideal choice for bore holes up to 800 meters in depth in N size, and up to 550 meters in depth in H size. With this load capacity, the Surface Shallow water swivel is suitable for most hole depths in N size, so you will only need one water swivel for most drilling projects.

### Surface Deep water swivel

The Surface Deep water swivel has a 26,000 lbs. load capacity making it a good choice for deeper surface bore holes. It can handle bore holes in N size up to 1,500 meters in depth, and up to 1,011 meters in H size.

At half the size and weight of other comparable products, the Surface Deep Water Swivel is easier to handle and transport, increasing safety on the drill site.



Shallow water swivel



Deep water swivel

### Product technical specifications

Specification	Shallow	Deep	Ultra Deep
Weight (kg)	5.06	7.77	16.17
Weight (lbs)	11.16	17.13	35.65
Static holding capacity (kg)	6,350	11,800	22,680
Static holding capacity (lbs)	14,000	26,000	50,000
Unit length (mm)	281	297	365
Unit length (in)	11.07	11.70	14.385
Rod capacity (meters)			
B	1,080	2,000	3,850
N	840	1,560	3,000
H	560	1,035	1,950
P	N/A	680	1,350
Rod capacity (feet)			
B	3,540	6,560	10,630
N	2,756	5,120	9,850
H	1,840	3,400	6,400
P	N/A	2,230	4,500

## Water swivels for underground drilling projects

Water swivels are used to flush fluid to the bit. In underground drilling the choice of water swivel will depend on the diameter of the hole you are drilling and what kind of core barrel you are using. Your choice of water swivel must be reliable and durable enough to do the job.

We offer the following selection of water swivels for underground drilling:

### Underground AWJ water swivel

With an underground drilling project using a conventional core barrel, the AWJ is a small but reliable choice of product. It is ideal for small conventional core barrels with **AWJ drill rods** and **CR42 drill rods**.

The AWJ water swivel is a standard product that is popular with many drillers and has withstood the test of time.



AWJ water swivel

### Product technical specifications

Specification		
Unit length	190,5 mm	7.5 in
Spindle I.D.	15,8 mm	0.62 in
Spindle diameter	26,9 mm	1.06 in
Max RPM	2500	
Inlet hose connection	3/4 in NPT	
Spindle rod thread	AWJ	
Adjustable packing: turn top brass nut counter clockwise		
No greasing required	2 sealed bearings	

### Underground Pro 18+ water swivel

The PRO18+ water swivel is the right choice when you are using a **wireline core barrel** in an underground drilling application. It features an upgraded design and a new housing that seals and protects the bearing and all inner parts from water, dirt and debris.

As 18 mm is the smallest diameter within the rotary sleeve, this water swivel is great for smaller diameters. When you need more water flow and need to keep water pressure down, you should consider the Pro 25+ water swivel.

### Product technical specifications

Specification		
Unit length (w/o adapter)	147 mm	5.8 in
Spindle I.D.	18 mm	0.7 in
Max RPM	1800	
Inlet hose connection	JIC12	
Tungsten carbide mechanical seal, with rubber spring		
No greasing required	2 sealed bearings	



Pro 18+ water swivel

### Underground Pro 25+ water swivel

For underground drilling projects that are using larger diameter bore holes, such as **H and P size**, or if you are doing directional drilling, you need better water flow. The Pro25+ water swivel's design accommodates fittings from ¾ inch to 1¼ inch so larger hoses can be used to supply the greater volume of water required.

#### Product technical specifications

Specification		
Unit length (w/o adapter)	147 mm	5.8 in
Spindle I.D.	25 mm	1 in
Max RPM	1800	
Inlet hose connection	JIC16	
Tungsten carbide mechanical seals, with rubber spring		
No greasing required	2 sealed bearings	

Both of the Pro+ water swivels run sealed bearings that don't need grease, making these models very durable and easy to maintain.

All Epiroc water swivels are built to meet the highest standards. For more information about choosing the right water swivel, you can contact our technical support team for guidance.



Pro 25+ water swivel