

## RELIABLE PROTECTION FOR MWD/LWD TOOLS

AE Downhole Screen (AEDHS) is a collar-based, high-efficiency filtration device designed to prevent the entry of solids into MWD/LWD tools—protecting critical components from damage, choke and jam while maintaining optimal hydraulic performance.

### KEY BENEFITS



#### SUPERIOR PROTECTION

Stops particles > 5 mm from entering MWD/LWD tools.



#### OPTIMIZED FLOW

Narrow slots (5 mm) ensure high flow capacity with minimal pressure drop.



#### EXTENDED TOOL LIFE

Reduces wear, abrasion and internal damage to sensitive instruments.



#### EASY MAINTENANCE

Screen can be cleaned and re-used after each run.



#### PROVEN RELIABILITY

Field trials and operational use since 2012 with excellent results.

### APPLICATIONS

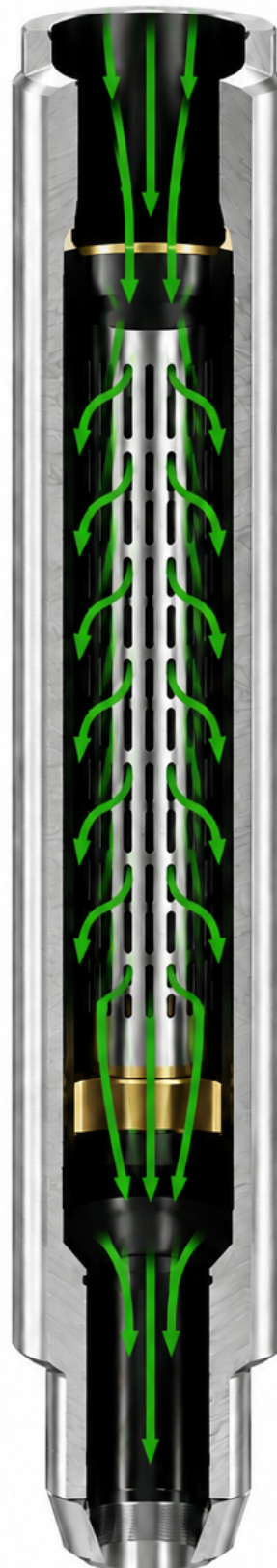
- ✓ MWD/LWD tools protection
- ✓ Drilling in abrasive / instability-prone formations
- ✓ High-solids and underbalanced drilling
- ✓ Directional and horizontal wells

### COMPANY PROFILE

- 📅 Company established: October 2010 (DMCC, Dubai)
- 🏠 First downhole screen designed: 2011
- 👤 First supplies and field trials: 2012
- 🌐 Global supplier to leading drilling contractors
- 🎯 Focused on quality, reliability and long-term value

### CONTACT

- 📍 DMCC Business Center, Uptown Tower  
Dubai, UAE
- ✉ mg@aenergissimo.com
- 🌐 aenergissimo.com



### HOW IT WORKS

The AE Downhole Screen consists of a collar with an integrated slotted screen and centralizer.

- **Slotted screen** (5 mm slots) allows drilling fluid to flow freely while blocking particles > 5 mm.
- **Centralizer apertures** act as a secondary barrier, cleaning fluid between the screen and collar.
- Screen is threaded to the top flange and sits on a shoulder inside the collar.
- After the run, the screen is cleaned, inspected for wear and ready for re-use.

### SPECIFICATIONS

PARAMETER	DETAILS
Collar material	AISI / SAE 4145 or Non-Magnetic (upon request)
Max yield strength*	120,000 psi
Collar connection	NC38, NC50, 6-5/8 REG, 7-5/8 REG
Max. operating pressure	20,000 psi
Temperature rating	-58 to +482 °F (-50 to +250 °C)

\*Depending on material, connection and size.

### AVAILABLE SIZES

SIZE	MAX OD in (mm)	MIN COLLAR ID in (mm)	LENGTH** in (mm)	SCREEN AREA ft <sup>2</sup> (m <sup>2</sup> )	FLOW AREA ft <sup>2</sup> (m <sup>2</sup> )
4 3/4"	4.75 (121)	1.75 (44)	24.40 (620)	31.52 (2.93)	1.94 (0.18)
6 3/4"	6.75 (171)	2.88 (73)	51.37 (1,305)	61.20 (5.69)	6.48 (0.60)
8"	8.00 (203)	3.00 (76)	51.37 (1,305)	61.20 (5.69)	6.48 (0.60)
9 1/2"	9.50 (241)	4.13 (104)	67.09 (1,704)	92.50 (8.60)	9.48 (0.88)

\*\*Screen length (slotted section). Other lengths available on request.



#### QUALITY ASSURED

All manufacturing facilities are API & ISO certified.



#### MANUFACTURING EXCELLENCE

AE Downhole Screens are manufactured in dedicated machine shops with full API & ISO quality management systems.



#### API & ISO CERTIFIED MACHINE SHOPS

Dedicated to the production of AE Downhole Screens.