

EOS 1100 Turbine

*Development Stage:
Commercially available*



EOS Standard Hydropower Unit

Product Description

The EOS are axial (propeller) type with a horizontal shaft, S shaped duct, 4 fixed blade runner, 12 vane cylindrical regulated wicket gate, 2 or 3 profiled column distributor and radial-axial ball bearing.

The EOS family of turbines includes five sizes of axial propeller turbines: EOS 350, EOS 500, EOS 700, EOS 900 and EOS 1100. The symbol means: E - propeller, O - horizontal shaft, S - S duct turbine type, and the runner diameter in mm.

The hydropower units with EOS turbine, assembly turbine – generator, is settled on four bearings, with one of the turbine bearings also acting as a thrust bearing. A particular general arrangement includes a speed multiplier between the turbine and the generator.

Product Highlights		
Standard Unit Design Capacity	587 kW	Design Working Environment <input checked="" type="checkbox"/> Natural waterways <input type="checkbox"/> Water transmission systems <input type="checkbox"/> Effluent streams <input type="checkbox"/> Tidal estuaries <input type="checkbox"/> Near shore ocean <input type="checkbox"/> Off-shore ocean <input type="checkbox"/> Deep ocean <input type="checkbox"/> Other
Other sizes currently available	Yes	
Characteristic Dimension	1.1 m	
Rotational Axis Orientation	Horizontal, parallel to flow	

Product Specifications/Details (Standard Unit)

- **Performance Specifications:**

<i>Category</i>	<i>Minimum</i>	<i>Maximum</i>	<i>Units</i>
Flow range	4.4	9	<i>m³/sec</i>
Hydraulic head range	2.5	20	<i>m</i>
Power output range	45	1200	<i>kW</i>
Waterway depth	-	-	<i>m</i>
Waterway width	-	-	<i>m</i>

- **Deployment Locations:** The following sites in Romania:

- Arinis - Suceava
- Tei - Bucuresti
- Talmaciu - Sibiu
- Dridu - Slobozia
- Galanesti I - Suceava
- Galanesti II - Suceava
- OGREZENI - Giurgiu
- HERASTRAU - Bucuresti
- BARAJ CET - Oradea
- Valenii de Munte - Ploiesti
- Galanesti III - Suceava
- Berzovia - Resita

- **Operating History:**

- Number of sites where turbine model is in commercial operation: 15
- Years turbine model has been commercially available: 22

Company Contact Information

Company Name	UCM Resita SA
Mailing Address	1 Golului Street 320053 Resita Romania
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Company Profile

Years in Business	30 or more years
Number of Employees	51 or more employees
Annual Equipment Sales	\$100,000 - \$1,000,000

Affiliations/Alliances/Credentials/References/Publications

- Caras Severin Chamber of Commerce, Industry & Agriculture
- International Association for Small Hydro (IASH)
- References: SC Hidroelectrica SA, Romanian Commercial Bank - Resita Branch