

# MTA ORUÇ REİS



VESSEL SPECIFICATIONS	
VESSEL NAME	MTA ORUÇ REİS
OWNER	MTA
FLAG	Turkey
REGISTERED PORT	İstanbul
LENGTH OVERALL	87 m
BEAM	23 m
DEPTH	8 m
DRAFT	6 m
GROSS TONNAGE	4575
MAIN ENGINES	4 x 2520 kW ABC 12V-DZC Diesel Generator
SPEED (MAX)	17 knots
HELIDECK	12 tons – Day & Night operation available
BOATS	Norpower Jemar seismic work boat, RHIB boat
LABORATORIES & OFFICES	
LABORATORIES	Geology and Oceanography Sampling Analysis Lab
ROOMS / OFFICES	Data Acquisition Center, Data Processing Room, ROV Control Room, Conference and Briefing Room, Leader Offices, Dining Room(1) and Mess Rooms(2), Sauna and GYM
PERSONNEL & ACCOMODATION	
PERSONNEL CAPACITY	55
CABINS	15 single, 20 double
CRANE & WINCHES	
CRANE AND WINCHES	A-Frame, Dregen Nuckle Crane, CORMAC V, Geology Sampling Winch

<b>SCIENTIFIC EQUIPMENT</b>	
<b>2D / 3D SEISMIC SYSTEM</b>	
MANUFACTURER	Sercel Inc.
STREAMER	Sercel Sentinel® Solid
2B SEISMIC	12 km 960 ch@12,5 m
3B SEISMIC	4 x 4 km 1296 ch@12,5 m
DATA ACQ. SYS	Seal 428
NAVIGATION	Seapro Nav 3D Lite
STREAMER POS.	Nautilus®
PARAVANE	BARO 44
<b>AIR GUNS</b>	
MANUFACTURER	Bolt Technology Corporation
MODEL	Long Life Model 1900-LLXT
TOTAL CAPACITY	2 x 4200 inc <sup>3</sup>
WORKING PRESSURE	1000/2000 psi
COMPRESSOR	3 X LMF 48/138-207-E60
NUMBER OF ARRAY	6 array @ 12 air gun
<b>DATA PROCESSING &amp; INTERPRETATION</b>	
PROCESSING	2D/3D Geovation
INTERPRETATION	Petrel
<b>REMOTELY OPERATED UNDERWATER VEHICLE (ROV)</b>	
DEPTH RANGE	1500 m (max.)
CLASS	WORK CLASS
PAY LOAD	65 kg
MANIPULATOR	2 X (7 axial)
CAMERA	1 x Color Zoom, 1 X B & W presicion lens, 3 X Normal Camera
ONBOARD SCIENTIFIC EQUIPMENT	Mini Water Sampler, CTD, Chemical Sensors, Geological Sampling Equipment
<b>ACOUSTIC CURRENT DOPPLER-PROFILER</b>	
ADCP	Teledyne RDI Ocean Surveyor OSII38 800-1000 m
<b>AIR / SEA GRAVIMETER</b>	
MODEL	MicroG MGS-6 / 193
<b>SUB BOTTOM PROFILER</b>	
MODEL	Kongsberg TOPAS PS 18 Full Ocean
<b>SINGLE BEAM ECHOSOUNDER</b>	
MODEL	Kongsberg EA600
DEPTH RANGE	0,5 – 700 m
OPERATING FREQ.	18 kHz/ 200 kHz
<b>MULTI BEAM ECHOSOUNDER</b>	
MODEL	Kongsberg EM 302 & EM 2040-07
DEPTH RANGE	10 – 5000 m
OPERATING FREQ.	20 – 300 kHz
<b>WATER SAMPLER</b>	
MODEL	SeaBird SBE55plus
NUMBER OF BOTTLE	12 (4 lt)
<b>SAMPLING EQUIPMENT – PISTON CORER</b>	
MODEL	Piston Corer-OSIL
DEPTH RANGE	3000 m
LENGTH & DIAMETER	18 m & Ø 110 mm
<b>SAMPLING EQUIPMENT – BOX CORER</b>	
DEPTH RANGE	<2500 m
BOX VOLUME	30 x 30 x 120 cm (WxLxH)
<b>CTD &amp; SENSORS</b>	
MODEL	SeaBird SBE25
CTD, pH, turbidity, disolved oxigane, PAR, OPR, Metane, H2S, Nitrate	
<b>OCEANOGRAPHY WINCH</b>	
MODEL	MacArtney Cormac 5
DEPTH RANGE	3000 m – 6.4 mm cable
<b>MARINE MAGNETOMETER</b>	
MODEL	Geometrics G882

**GENERAL DIRECTORATE OF MINERAL RESEARCH AND EXPLORATION**  
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