

Main technical parameters of the vessels of the group of companies “Morinzhgeologia”

| Parameter | “Izyskatel- 1” | “Izyskatel-2” | “Izyskatel-3” | “Albatros-1” | «UPP» | «Skorpion» |
|---|---|--|---|---|---|---|
| Photo |  |  |  |  |  |  |
| Type of operations: | | | | | | |
| Geotechnical drilling with soil sampling | + | - | + | + | + | - |
| Cone penetration testing | + | - | + | + | + | - |
| Seabed sampling | + | + | + | + | + | - |
| Geophysical and hydrographic operations | + | + | + | + | - | + |
| Maximum depth of investigations | | | | | | |
| Soil penetration , m | 100 | | 120 | 100 | 70 | |
| Water depth, m | 85 | | 120 | 150 | 15 | |
| Limiting operational weather conditions | | | | | | |
| Wave height, m | 1.2 | 1.0 | 1.6 | 1.5 | 0,8 | 0,8 |
| Wind velocity, m/sec | 13 | 12 | 15 | 15 | 8 | 8 |
| Flag | Russian Federation | Russian Federation | Russian Federation | Russian Federation | Russian Federation | Russian Federation |
| Year built | 1968 | 1988 | 1986 | | 2007 | 2007 |
| Year of rebuilding into a drilling vessel with replacement of underwater hull | 2008 | 2011 | 2012 | 2003 –drilling 2011 – replacement of underwater hull | | |
| Class | KM* R2-RSN | KM*L3 | KM*L3 1 AUT2 | KM*L3 | GIMS | GIMS |
| Navigation area | 100 miles, 200 – between shelter locations | Unlimited | Unlimited | Unlimited | | |
| Length overall, m | 47.72 | 50.30 | 85.1 | 49.78 | 24,2 | 16 |
| Extreme breadth. m | 9.0 | 9.8 | 13.0 | 9.5 | 6,1 | 3,2 |

| | | | | | | |
|----------------------------|--|-------------------|---|--|----------------|--------|
| Depth, m | 3.3 | 5.0 | 6.5 | 3.5 | 0,8 | 0,9 |
| Gross tonnage | 426 | 743 | 2165 | 691 | 40,95 | 19 |
| Draught, m max/min | 1.4 | 3.5 | 3.90/3.70 | 3.90/3.70 | 0,8 | 0,8 |
| Drinking water capacity | 22.0 ton + desalination plant 2.0 ton/day | 77.0 ton | 34.8 m ³ + desalination plant | 30.0 ton + desalination plant 5.0 ton/day | 2 ton | |
| Number of screws | 2, fixed pitch | 1, variable pitch | 1, fixed pitch | 1, variable pitch | - | 1 |
| Bow thruster | 1 x 50 kW | - | 2 x 200 kW, | 1 x 180 kW | - | - |
| Stern thruster | - | - | 1 x 250 kW | - | - | - |
| Dynamic positioning system | absent | absent | absent | absent | absent | absent |
| Main anchors | 2x500 kg | 2x1200 kg | 2 x 1750 kg | 2x1000 kg | - | 100 kg |
| Positioning anchors | 4 x 675 kg, cable - 4 x 450 m | 1x600 kg | 4 x 2475 kg | 4x1000 kg, cable - 2 x 1000 m, 2x1500m | 4X300 kg | |
| Loading equipment | Hydraulic crane-manipulator 6.5 ton, with overhang 1.8m, max. hydraulic beam overhang 10.2 m (1 ton) | Hoisting booms | Hoisting booms; hydraulic crane-manipulator 15 ton, with overhang 2,6 m, max. hydraulic beam overhang 20.3 m (1,47 ton) | Hydraulic crane-manipulator 8.25 ton, with overhang 1m, max. hydraulic beam overhang 6 m (1.5 ton); A-frame in the stern | Derrick 15 ton | - |
| Main engine | 2x225 л/с | 852 kW | 852 kW | 588 kW | - | 110 kW |
| Generators | 2x100 kW, 2x50 kW, 1x30 kW | 4x160 kW | 2x320 kW, 1x500 kW, 1x150 kW | 2 x 200 kW, 2 x 90 kW, 1 x 360 kW (shaft generator) | 75 kW | 16 kW |
| Sea endurance, days | 30 | 35 | 50 | 30 | 5 | 3 |
| Accommodation, persons | 24 | 31 | 51 | 26 | 8 | 4 |