ARTHA TYANI MINERAL
DRILLING & EXPLORATION

Product Catalog

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Why Choose us

Choose ATM Artha Tyani Mineral for exceptional services tailored to your needs. Our dedication to excellence, backed by 10 years of industry experience and the successful completion of over 50 projects, sets us apart.

Here's what makes us unique: our experienced team ensures accuracy and efficiency; we use advanced tools for precise results; we provide comprehensive solutions from surveys to reports; safety is our priority; we practice eco-friendly methods; and we offer personalized support.

Choose ATM Artha Tyani Mineral for unwavering quality in your projects.

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PRODUCT SERVICES

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Coal and Mineral Drilling Services

ATM has created a range of drilling techniques, including touch coring and full coring methods. These techniques are designed to test coal sources and other minerals in prospective areas. Each drill hole will be accompanied by a lithological profile, presented in a report format for the client.

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Geological Mapping & Survey

The range of services provided by ATM includes topographic mapping surveys, regional mapping and initial surveys, semi-detailed geological mapping, and detailed geological mapping for the extraction of coal and other minerals such as gold and nickel. The primary distinction among these mapping techniques lies in the scale of the maps produced.

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Well Site Logging

Geophysics logging plays a crucial role in determining rock seam thickness and enhancing the accuracy of drilling results, which supports lithology interpretation. ATM provides gamma ray, caliper, and density logging services to ensure precise rock analysis and visualize the conditions within the borehole.

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Geophysical Survey

We provide top-notch geophysical services for various sectors, specializing in techniques like Resistivity, Magnetic, Gravity, Seismic, and more, to support projects from exploration to engineering investigations.

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Geodesy & Measurement Services

High-precision geodetic and measurement services to support exploration accuracy, area validation, and project documentation.

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Collaboration & Consulting

Technical collaboration in geodetic services is crucial for enhancing accuracy, validating areas, and documenting projects. By partnering with experts, teams ensure precision and reliability, improving data quality and supporting successful outcomes.

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Product Catalog

Equipments

JACRO 400 – Bore Machine

Product Equipment

Product Name	JACK-ROW 400 Bore Machine
Machine Type	Heavy Duty Hydraulic Bore Drilling Machine
Structure	Iron mast, skid base, hydraulic boom, water swivel
Power System	Full Hydraulic Power

JACRO 400 – Bore Machine

Product Equipment

Performance & Capability	Specification
Hydraulic Pressure	250 bar / 3,500 psi
Hydraulic Speed	Up to 3,000 RPM
Rotary Gearbox	Full rotary gearbox unit
Rotary Speed	Up to 800 RPM
Wireline Speed	100 RPM
Wireline Torque	Max. 490 Nm
Sling Diameter	10 mm
Wire Length	300 meters

Machine Dimensions	Specification
Tower Dimension	750 × 40 × 25 cm
Chassis Dimension	340 × 90 × 25 cm

Engine Configuration	Power
Diesel Engine	Mitsubishi IPS – 120 HP

Drilling Capacity Rod Type	Maximum Depth
NQ (Ø 2.75”)	50 meters
HQ (Ø 3.50”)	35 meters

Drilling Accessories	Specification
Core Barrel	Triple HQ with overshot (Ø 2.50”)
Reamer Shell	Tungsten impregnated
Core Bits	Tungsten impregnated
Open Hole Bits	Available
Drill Rod	HQ (Ø 4 inch)

Fuel Consumption	Fuel Consumption
Mitsubishi IPS 120 HP (Diesel)	± 40 liters
Yanmar TS230 (Diesel)	± 20 liters
Dongfeng R195 (Diesel)	± 18 liters

Model	Capacity	Max Pressure	Engine
BW-450	450 L/min	1.2 MPa (540 kg)	Diesel Engine YANMAR TS230 –
Sanchin SC-120	133 L/min	50 kg/cm²	Dongfeng R195 – 15 HP (Radiator)
Piping	Polypipe PN 10	–	Diameter 1 inch

JACRO 400 – Bore Machine

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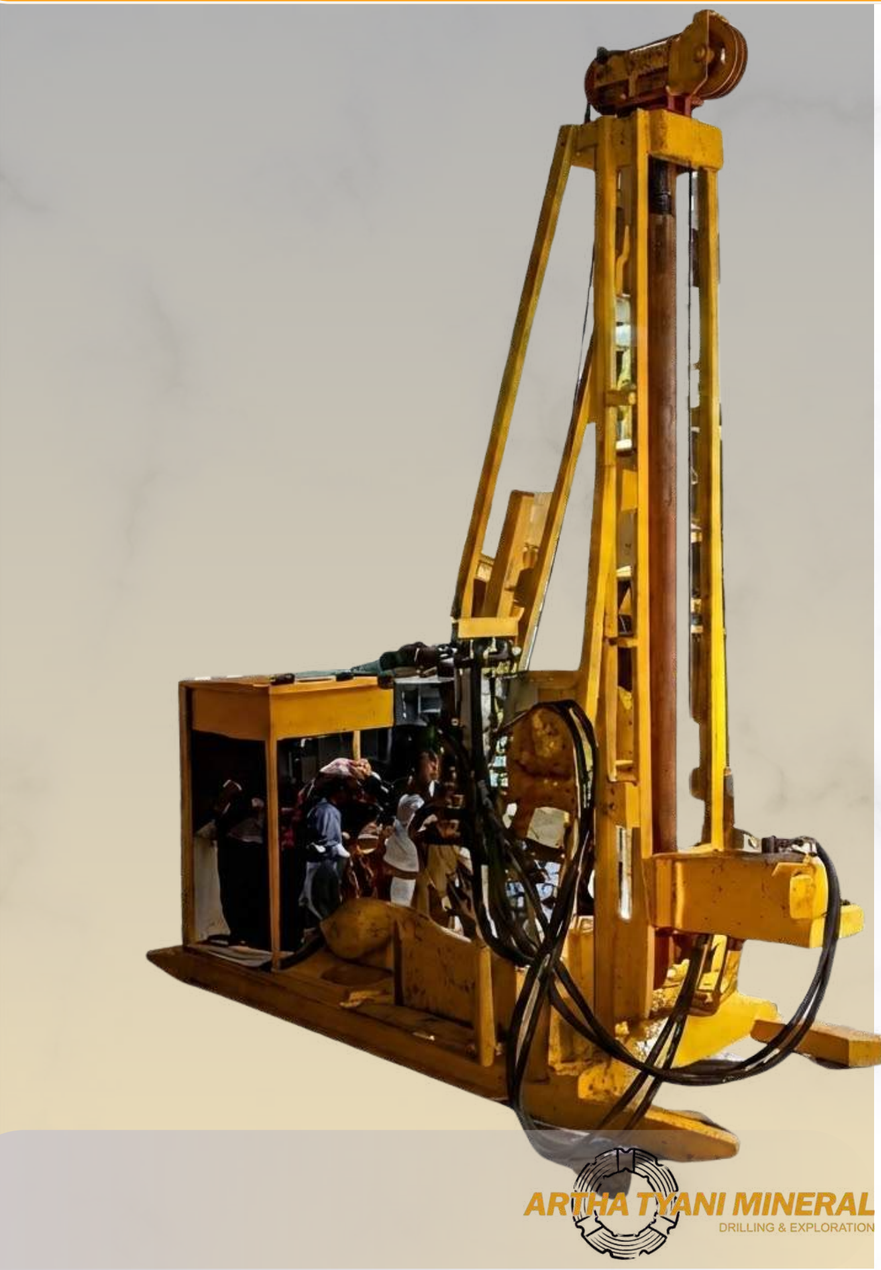
JACRO 200 – Bore Machine

Product Equipment



Product Name	JACRO 200 Bore Machine
Machine Type	Hydraulic Bore Drilling System
Structure	Aluminium mast, skid base, water swivel
Power System	Full Hydraulic Power

JACRO 200 – Bore Machine

Product Equipment

Perfomance	Specification
Hydraulic Pressure	**230 bar / 3,335 psi**
Rotary Speed	**Up to 700 RPM**
Maximum Torque	**250 Nm**
Wireline Torque	**Up to 490 Nm**
Wireline Length	**60 meters**

Engine Type	Power
Gasoline	**Vanguard V-Twin – 33 HP**
Diesel	**Kubota V1505 – 35 HP**
Diesel	**Kubota V1505-T – 40 HP**
Diesel	**Ruggerini RD-211 – 23 HP**

Driling Capacity	Depth	Production (8 hrs/day)
NQ (Ø 2.75”)	**Up to 200 m**	**± 20 m**
HQ (Ø 3.50”)	**Up to 150 m**	**± 15 m**

Item	Detail
Manpower	**1 Driller, 1 Assistant, 3 Helpers**
Fuel Consumption	**18–30 L / 8 hours (engine dependent)**

Mud Pump	Capacity	Max Pressure
Sanchin SC-45	**59 L/min**	**50 kg/cm²**
Sanchin SC-120	**133 L/min**	**50 kg/cm²**

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JACRO 175 – Bore Machine

Product Equipment

Product Name	JACRO 175 Bore Machine
Machine Type	Hydraulic Bore Drilling System
Structure	Aluminium mast, skid base, water swivel
Power System	Full Hydraulic Power

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JACRO 175 – Bore Machine

Product Equipment

JACRO 175 – Bore Machine

General Specification	Specification
Mast Type	Reinforced Steel Mast
Base	Skid Mounted
Drive System	Hydraulic Rotary
Drilling Method	Full Core Drilling
Maximum Depth	±175 meters (HQ/NQ)
Application	Infill & detail exploration

Rotary & Performance	Specification
Rotary Speed	up to ±700 rpm
Maximum Torque	±220 Nm
Wireline System	Standard
Core Recovery	High

Power Unit	Specification
Engine Type	Diesel Engine
Power Output	±90 HP
Fuel Type	Diesel

Drilling Tools	Specification
Core Barrel	Double / Triple Core Barrel
Drill Rod	NQ & HQ
Core Bit	Tungsten & Impregnated
Reamer Shell	Tungsten

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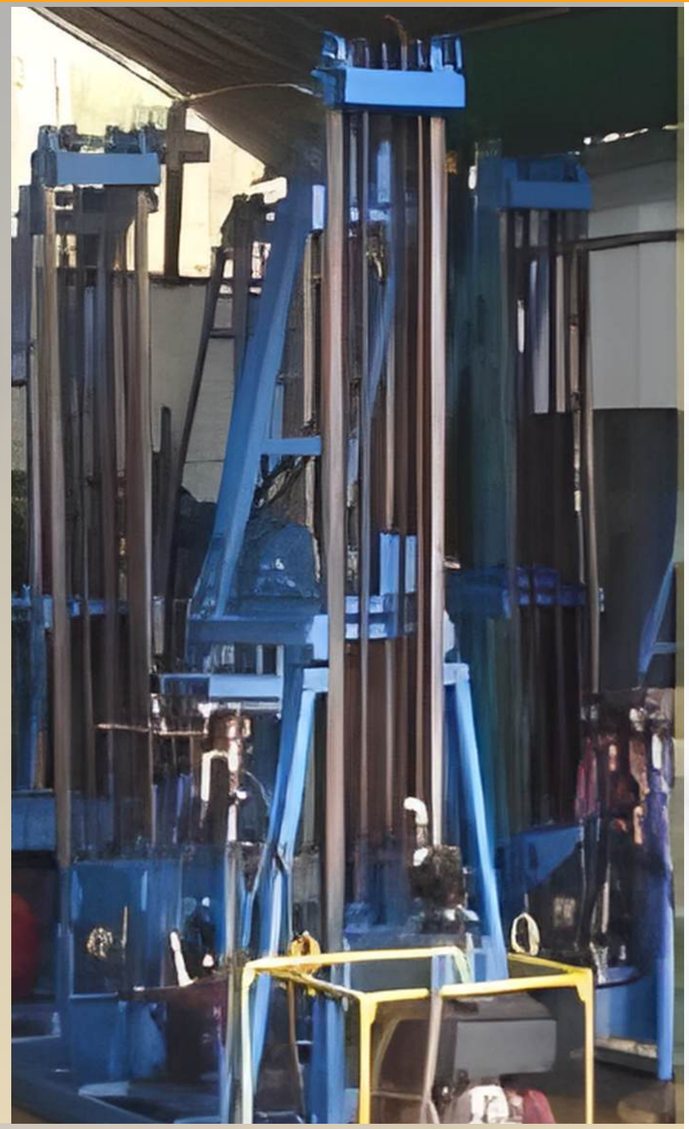
JACRO 150 – Bore Machine

Product Equipment



Product Name	JACRO 150 Bore Machine
Machine Type	Hydraulic Bore Drilling System
Structure	Aluminium mast, skid base, water swivel
Power System	Full Hydraulic Power

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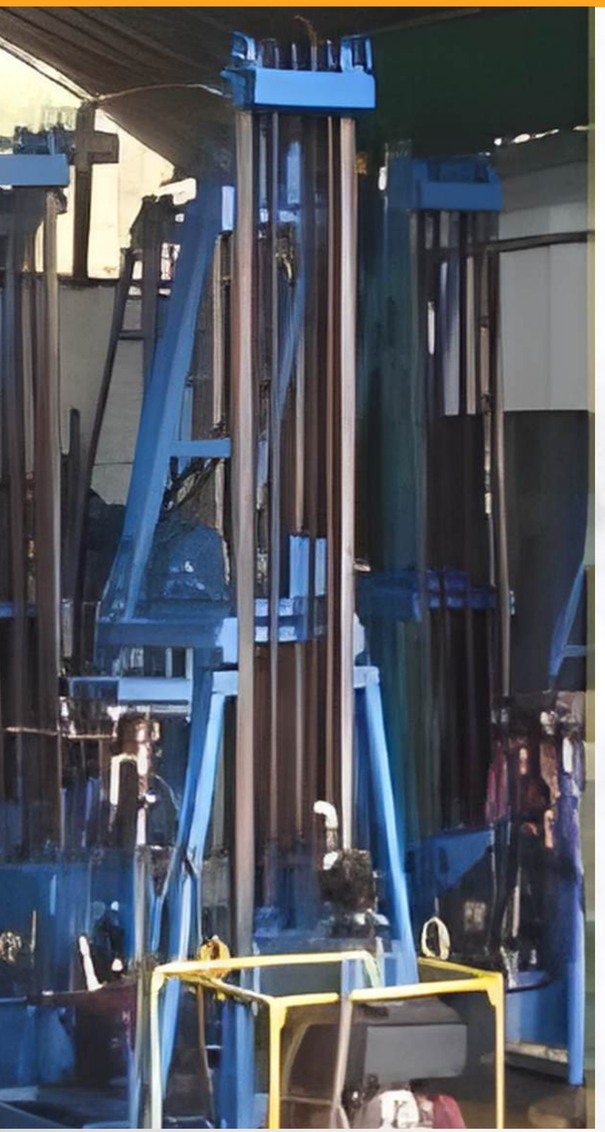
JACRO 150 – Bore Machine

Product Equipment



Parameter Performance & Capability	Specification
Hydraulic Pressure	230 bar / 3,335 psi
Hydraulic Speed	Up to 3,000 RPM
Rotary Gearbox	Full rotary gearbox unit
Rotary Speed	Up to 700 RPM
Maximum Torque	250 Nm
Wireline Speed	100 RPM
Wireline Torque	Up to 490 Nm
Sling Diameter	10 mm
Wire Length	60 meters

Engine Type	Power
Gasoline	Vanguard V-Twin – 18 HP
Gasoline	Vanguard V-Twin – 20 HP

Engine Fuel Consumption	Fuel Consumption
Vanguard V-Twin 18 HP (Gasoline)	± 18 liters
Vanguard V-Twin 20 HP (Gasoline)	± 18 liters
Dongfeng R175 (Diesel)	± 15 liters

Drilling Capacity Rod Type	Depth	Production (8 hrs/day)
NQ (Ø 2.75”)	Up to 70 m	± 20 m
HQ (Ø 3.50”)	Up to 40 m	± 10 m

Mud Pump & Transfer Pump	Capacity	Max Pressure	Engine
Sanchin SC-45	59 L/min	50 kg/cm²	Dongfeng R175 – 7 HP (Radiator)
Piping	Polypipe PN 10	–	Diameter 1 inch

Drilling Accessories	Specification
Core Barrel	Triple NQ with overshot (Ø 2.06”)
Reamer Shell	Tungsten impregnated
Core Bits	Tungsten impregnated
Open Hole Bits	Available
Drill Rod	NQ (Ø 2.75”)

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XY-2B Core Drilling Rig

Product Equipment

Product Name	XY-2B Core Drilling Rig
Machine Type	Core Drilling Rig
Application	Mineral exploration, geological drilling, geotechnical works
Power System	Electric motor / Diesel engine

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XY-2B Core Drilling Rig

Product Equipment

XY-2B Core Drilling Rig

Drilling Capacity	Maximum Depth
Ø 73 mm	100 m
Ø 60 mm	200 m
Ø 50 mm	380 m
Ø 42 mm	530 m

Spindle Performance Parameter	Specification
Spindle Speed (Forward)	65 / 114 / 180 / 248 / 310 / 538 / 849 / 1172 rpm
Spindle Speed (Reverse)	51 / 242 rpm
Maximum Torque	2,760 Nm
Angle Range	0° – 90°

Mechanical Capability	Specification
Spindle Max Pull Force	60 kN
Spindle Stroke	600 mm
Hoist Max Lift Capacity (Single Rope)	30 kN
Spindle Inertia	76 mm

Power & Hydraulic System	Specification
Oil Pump	SCB32/12 twin gear oil pump
Power Unit (Electric)	Y180L-4, 22 kW
Power Unit (Diesel)	395KZ, 19.85 kW

Dimensions & Weight	Specification
Overall Dimensions (L × W × H)	2150 × 900 × 1690 mm
Drill Body Weight	950 kg

GEOMETRICS G-856

Product Equipment

GEOMETRICS G-856

Product Name	G-856AX Magnetometer
Instrument Type	Proton Precession Magnetometer
Application	Geological mapping, mineral exploration, magnetic survey, environmental & archaeological survey
Survey Mode	Field survey & base station

GEOMETRICS G-856

Product Equipment

Key Capabilities	Description
Measurement Resolution	0.1 nT
Measurement Accuracy	± 0.5 nT
Noise Immunity	High (suitable for industrial & high-noise environments)
Operation	Simple operation with large digital data storage
Data Handling	Compatible with MagMap2000™ data transfer & editing software

Magnetic Performance	Specification
Tuning Range	20,000 – 90,000 nT (Auto / Manual)
Gradient Tolerance	1,000 nT/m
Cycle Time	3 – 999 sec (adjustable, minimum 1.5 sec)
Read Mode	Manual or automatic (base station use)

Memory & Display	Specification
Internal Memory	5,700 field readings / 12,500 base station readings
Display	6-digit field/time display, 3-digit auxiliary display (line number, day)

Power Supply	Specification
Battery Type	Rechargeable Gel-Cell batteries
Compensation	Magnetically compensated

Connectivity & Interface	Specification
Digital Output	RS-232, 9,600 baud
External Input	Accepts external cycle command

Physical Specifications	Specification
Console Size & Weight	18 × 27 × 9 cm, 2.7 kg
Sensor Size & Weight	9 × 13 cm, 1.8 kg
Operating Temperature	0 – 40 °C (operational: −20 to 50 °C)

Standard Accessories

Sensor & staff
Chest harness
Two battery sets
RS-232 cable
Operations & applications manuals
MagMap2000™ software

Optional Accessories

Gradiometer attachment
External power / sensor lead
External power / RS-232 / sensor lead
Rechargeable battery & charger set

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