



**Armico Industrial Group**

**Manufacturer of Drilling Machinery & Equipment**

گروه صنعتی و معدنی

**آرمیکو**

تولید کننده ماشین آلات و تجهیزات حفاری



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# WAGON DRILL

## ARMI-DR-S

is a small pneumatic down-the-hole rig. With its compact design it's perfect for drilling in inaccessible and narrow places, and an efficient choice for quarries and construction. It's easy to transport and very easy to set up and operate. Equipped with the powerful rotation, it got good drilling capability. Each track is powered by a hydraulic motor and a planetary gear drive.

### Features & benefits

- Easily changeable from DTH to TH
- Powerful and reliable engine
- Powerful feeding and rotating system
- New drilling boom
- High power drive motors
- Safe and stable travelling system

## ARMI-DR-H

is broadly used in the industries of mining, quarry & construction. It is primarily used to drill holes on surface or do "drill & blast" tunneling tasks through solid rocks. Under the guidance of a geologist, the drill rig operator can drill blast holes up to 100 feet deep or more at exact coordinates to accept explosive charges.

Usually speaking, the blast holes' diameter is ranging from 140-80mm and 20m deep hole is workable for blasting.

While operating, the crawler drill works with a separated air compressor or built-in one.

### Features & benefits

- Easily changeable from DTH to TH
- Powerful and reliable engine
- Powerful feeding and rotating system
- New drilling boom
- High power drive motors
- Safe and stable travelling system

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# WAGON DRILL

## WAGON DRILL

## MAIN SPECIFICATIONS

## ENGINE SPECIFICATIONS

## AIR CONSUMPTION

## DRILLING SPECIFICATIONS

## MOVEMENT

## APPEARANCE

## TECHNICAL SPECIFICATIONS

## MODEL NAME

### ARMI-DR-S

### ARMI-DR-H

Diameter of Drilling	4-2 inch /100-50 mm	6-2 inch /150-50 mm
Diameter of Rod	50-60-76 mm	90-76-60-50 mm
Length of Rod	1.5 m	3 m
Max Depth of Drilling	30 m	150 m
DTH Hammer	2/3 inch	5/4/3/2 inch
Brand	deutz	deutz
Model	912	912
Power	36 hp	48 hp
Min Working Pressure	7 bar	10 bar
Capacity	350 CFM	750 CFM
The Length of The Advance	2 m	4 m
Max Forward Speed	0.3 m/h	0.3 m/h
Max Feed Force	1.5 KN	3 KN
Length of Boom	3 m	5 m
Vertical Angle of Boom	0/-95	0/-95
Horizontal Angle of Boom	30/-30	30/-30
Powerhead	Hydromotor	Hydromotor with Gearbox
Max Rotation Speed	120 RPM	120 RPM
Max Rotary Nominal Torque	1000 Nm	5000 Nm
Speed	1.5 KM/H	2 KM/H
Moving on a Slope	25 degrees	25 degrees
Approx Weight	2000 Kg	5000 Kg
Dimensions (Length x Width x Height)	2.5x1.2x1.7 m	4x2.2x2 m

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# CORE DRILLING

## COREL(100/50/25)

is manufactured in 3 type with hydraulic feed. Compared with other similar products, it has the advantages of light weight, simple structure, fast drilling speed, appropriate diameter of coring sample, etc. It is the advanced portable hydraulic drilling machine. It is especially suitable for coring operations in mountainous areas, hills, rivers and other special difficult terrains, as well as engineering geological surveys for railways, hydropower, traffic, bridges, dam foundations, etc.; geological core drilling, physical exploration; small grouting holes, Drilling of blastholes; drilling of small wells.

### Features & benefits

- Stable drilling capabilities
- Structurals designed for extra rigidity
- Anchoring arrangement ensures perfect stability during drilling
- equipd with 3 wheel for machine movement
- Locking arrangement between mast and boom provides extra rigidity
- Centralized sensitive controls with Auto feed arrangement ensure easy operation and reduction of operators fatigue.



COREL 100



COREL 50



COREL 25

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# CORE DRILLING

## CORE DRILLING

## MAIN SPECIFICATIONS

## ENGINE SPECIFICATIONS

## MUD PUMP

## DRILLING SPECIFICATIONS

## MOVEMENT

## APPEARANCE

## TECHNICAL SPECIFICATIONS

## MODEL NAME

	COREL 25	COREL 50	COREL 100
Diameter of Drilling	76 mm	76 mm	76 mm
Diameter of Rod	50 mm	50 mm	50 mm
Length of Rod	1.5 m	1.5 m	3 m
Max Depth of Drilling	25 m	50 m	100 m
Drilling Tools	corbarrel 76	corbarrel 76	corbarrel 76
Brand	Koop	deutz	deutz
Model	292	912	912
Power	23 hp	36 hp	48 hp
Max Working Pressure	7 bar	10 bar	40 bar
Capacity	40 liter	60 liter	80 liter
Model	high Pressure Pump	high Pressure Pump	high Pressure Pump
The Length of The Advance	1.5 m	1.5 m	3 m
Max Forward Speed	1.5 -2 m/h	1.5 -2 m/h	1.5 -2 m/h
Max Feed Force	2 KN	2 KN	3 KN
Length of Boom	2.8 m	2.8 m	4.5 m
Vertical Angle of Boom	95-/0	95-/0	95-/0
Winches System	not have	have	have
Powerhead	Hydromotor	Hydromotor	Hydromotor with Gearbox
Max Rotation Speed	400 RPM	400 RPM	1000 RPM
Max Rotary Nominal Torque	750 Nm	750 Nm	1500 Nm
Speed	0	0	2 KM/H
Moving on a Slope	Manual	Manual	25 degrees
Approx Weight	750 Kg	1500 Kg	5000 Kg
Dimensions (Length x Width x Height)	2x1.2x1.2 m	2.5x1.3x1.5 m	4x2.2x2 m

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# MINI DRILLER<sub>(RASOL/ARAS)</sub>

In the application of drilling machinery, the air-leg rock drill can only drill small-aperture, medium-shallow blastholes; the heavy-duty rail-type rock drill can also drill deep blastholes through the post, but the energy consumption is large and the drilling speed is slow. The characteristic of the down-the-hole drilling rig is that the energy loss when the piston hits the drill rod does not increase with the extension of the drilling machine. Therefore, it is suitable for drilling a large bore and a large depth of the blasthole. The DTH drilling rig uses the impactor and the drill bit that sneak into the bottom of the hole to impact and break the rock, so it is called a DTH drilling rig. Widely used in metal mines, hydropower, transportation, building materials, harbors and national defense projects.



**ARAS 100 Diesel**

## Features & benefits

The impact energy loss does not increase with the lengthening of the drill rod, and the deep hole of the large hole diameter can be drilled.

The noise on the working surface is greatly reduced.

The drilling speed is fast, the degree of mechanization is high, and the auxiliary working time is small, which improves the working rate of the drilling machine.

Mobile and flexible.

The quality of the drilling is high.



**ARAS 500 Diesel**



**HYDRAULIC/ELECTRIC RASOL**



**PNEUMATIC RASOL**



**HYDRAULIC RASOL**

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# ARAS

## MODEL NAME

	TECHNICAL SPECIFICATIONS	MODEL NAME				
		ARAS 100	ARAS 200	ARAS 300	ARAS 400	ARAS 500
MAIN SPECIFICATIONS	Diameter of Drilling	90-76 mm	90-76 mm	90-76 mm	90-76 mm	90-76 mm
	Diameter of Rod	76-60 mm	76-60 mm	76-60 mm	76-60 mm	76-60 mm
	Length of Rod	1 m	1 m	1 m	1.5 m	1.5 m
	Max Depth of Drilling	10 m	20 m	30 m	40 m	50 m
	DTH Hammer	3-2 inch	3-2 inch	3-2 inch	3-2 inch	3-2 inch
ENGINE SPECIFICATIONS	Brand	Koop	Koop	Koop	Koop	deutz
	Model	KD178	KD192	KD192	KD292	912
	Power	8 hp	14.5 hp	16 hp	23 hp	36 hp
AIR CONSUMPTION	Max Working Pressure	7 bar	7 bar	8 bar	10 bar	10 bar
	Capacity	175 CFM	250 CFM	375 CFM	600 CFM	750 CFM
DRILLING SPECIFICATIONS	The Length of The Advance	1 m	1 m	1 m	1.5 m	1.5 m
	Max Forward Speed	15 m/h	15 m/h	20 m/h	20 m/h	20 m/h
	Max Feed Force	1 KN	1 KN	1.5 KN	1.5 KN	1.5 KN
	Length of Boom	2 m	2 m	2 m	2.5 m	2.5 m
	Vertical Angle of Boom	70/95	70/95	70/95	70/95	70/95
	Powerhead	Hydromotor	Hydromotor	Hydromotor	Hydromotor	Hydromotor
	Max Rotation Speed	120 RPM	120 RPM	120 RPM	120 RPM	120 RPM
MOVEMENT	Max Rotary Nominal Torque	350 Nm	450 Nm	500 Nm	650 Nm	900 Nm
	Speed	0	0	0	0	0
	Moving on a Slope	Manual	Manual	Manual	Manual	Manual
APPEARANCE	Approx Weight	250 Kg	300 Kg	400 Kg	500 Kg	750 Kg
	Dimensions (Length x Width x Height)	1.4x0.7x1 m	1.5x0.8x1 m	1.5x0.8x1 m	2x0.9x1 m	2x0.9x1 m

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# RASOL

## RASOL MAIN SPECIFICATIONS

## POWER SYSTEM

## AIR CONSUMPTION

## DRILLING SPECIFICATIONS

## MOVEMENT

## APPROX WEIGHT

## DIMENSIONS

TECHNICAL SPECIFICATIONS	MODEL NAME	
	HYDRAULIC RASOL	PNEUMATIC RASOL
Diameter of Drilling	90-76 mm	90-76 mm
Diameter of Rod	76-60 mm	76-60 mm
Length of Rod	1 m	1 m
Max Depth of Drilling	20 m	20 m
DTH Hammer	2-3 inch	2-3 inch
Engine	Electro Motor	Diesel Motor
Power	7.5 hp	10 hp
Min Working Pressure	7-5 hp	7-5 hp
Compressor	250-175 CFM	600-375 CFM
The Length of The Advance	1.2 m	1.2 m
Max Forward Speed	15-10 m/h	15-10 m/h
Max Feed Force	750 N.M	750 N.M
Length of Boom	2 m	2 m
Drilling Axis	Vertical/Horizontal	Vertical/Horizontal
Hydromotor	MPS315	AIRMOTOR610
Max Rotation Speed	90 rpm	70 rpm
Max Rotary Nominal Torque	550 Nm	550 Nm
Speed	0	0
Moving on a Slope	Manual	Manual
Control Panel with Oil	120 Kg	25 Kg
Boom	90 Kg	90 Kg
Rod	12 Kg	12 Kg
Powerhead	25 Kg	25 Kg
DTH Hammer	35 Kg	35 Kg
Boom	2 m	2 m
Control Panel	60x120x80 cm	40x40x85 cm
Hoses	4 m	4 m

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# DTH HAMMERS

DTH hammers are ranges five main series ARMI40, ARMI50, ARMI60, ARMI80, ARMI100, it serves to drilling projects in mining, water well, geothermal, foundation, oil and gas. Choosing the right hammer is largely determined by hole size and rock formation.

## Features & benefits

Using the latest rock drilling theory, optimizing the inside structure and the size of the air distribution, to make the DTH Hammer obtain the optimal energy transfer and make it achieve faster drilling speed and lower air consumption.

For such projects as the drill bit break, retrieving very difficult, we specially designed a safe and reliable anti-shedding device for the bit.

The check valve can be replaced to the one with bigger air controlling hole to provide more efficient cuttings discharge.

Easy Assemble & Disassemble



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# DTH HAMMERS

## MODEL NAME

TECHNICAL SPECIFICATIONS	ARMI 40	ARMI 50	ARMI 60	ARMI 80	ARMI 100
Weight	7 kg	13 kg	23 kg	38 kg	57 kg
Length	772 mm	840 mm	925 mm	958 mm	1070 mm
Diameter	48 mm	62 mm	77 mm	98 mm	120 mm
Air Pressure	7 bar	7 bar	6 bar	6 bar	6 bar
Air Consumption	1.6 m/min	2.2 m/min	2.5 m/min	4 m/min	4.5 m/min
Rotation Speed	120 rpm	90 rpm	60 rpm	50 rpm	40 rpm
Diameter of Bit	64 mm	76 mm	90 mm	125 mm	165 mm



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