

## MAIN PRODUCTS RANGE



AFY series raise boring machine is a highly efficient drilling device researched and designed to improve the backward technologies of hanging cage and manual construction widely applied in winze construction. Raise boring machine is widely used in such sectors as coal mine, metallurgy, water conservancy and hydropower for construction of winze, ventilation shaft, cable pit, drain hole, waste stone leaking shaft. Different types of boring machines can be selected by the customer according to drilling diameter and depth.

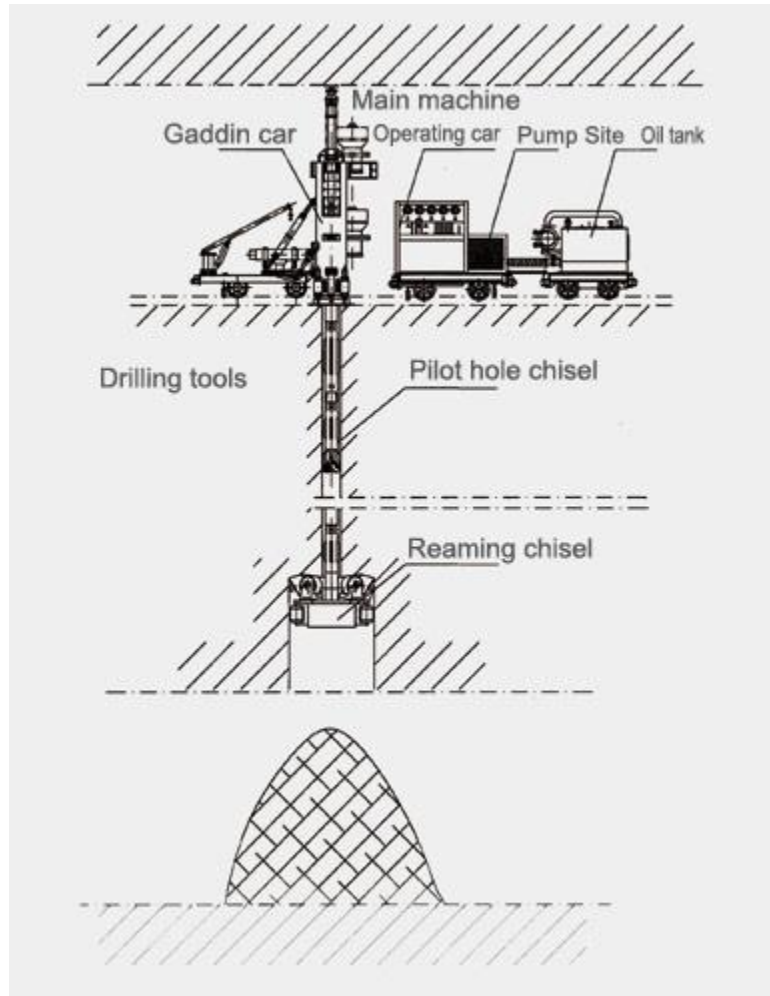
AFY series raise boring machine adopts fully hydraulic drive. It is a novel model with compact structure and high mechanization. It is convenient to transport, easy to operate, thus able to work under explosion-proof required environment. With strong adaptability, the boring machine has the characteristics of safe construction under different geologic conditions, high bore quality and low construction cost. Using raise boring machine is a revolution in shaft building process.

## MODELS AND BASIC PARAMETER

Model of Boring Machine/Basic Parameter	AFY1200/30/150 (AT1200)	AFY1400/40/200 (AT1400)	AFY1500/35/200 (AT1500)	AFY1800/40/250 (AT1800)	AFY2000/50/200 (AT2000)
Diameter of Pilot Hole(mm)	244	216	250	250	250
Broaching Diameter (mm)	1200	1400	1500	1800	2000
Drilling Depth(m)	150	200	200	250	250
Rotational speed of Shaft Extension(rpm)	5-33	5-33	5-33	5-33	5-33
Rated Torque (KN.m)	15	20	18	25	25
Maximum Torque (KN.m)	30	40	35	40	50
Maximum Thrust (KN)	350	350	700	700	700
Maximum Tension of Broaching (KN)	850	850	1250	1250	1250
Drilling Angle (°)	60-90	60-90	60-90	60-90	60-90
Weight of Main Machine(t)	6	7.2	7.5	7.5	8
Handing Dimension of Main Machine (L, W, H) (mm)	2290*1110*1430	2950*1370*1700	2670*1380*1560	2670*1380*1560	2700*1400*1600
Working Dimension of Main Machine (L, W, H) (mm)	2977*1422*3277	3230*1770*3448	3350*1650*3940	3350*1650*3980	3350*1680*3980
Drill Rod Diameter Effective Length (mm)	∅176×1000 ∅ 182× 1000	∅182× 1000	∅200× 1000	∅200× 1000	∅200×1000
Slope of Drill Hole (%)	≤1	≤1	≤1	≤1	≤1
Motor Power (KW)	66	86	86	86	93.5
Drive Method	Constant power hydraulic drive				
Adaptive Lithology	One-way Compressive Strength of Rock ≤ 160, 0MPa				

Model of Boring Machine/Basic Parameter	AFY2500/105/200 (AT2500)	AFY3000/120/200 (AT3000)	AFY3500/150/400 (AT3500)	AFY4000/400	AFY5000/400
Diameter of Pilot Hole(mm)	270	270	311	311	375
Broaching Diameter (mm)	2500	3000	3500	4.0	5.0
Drilling Depth(m)	200	200	400	400	400
Rotational speed of Shaft Extension(rpm)	5-33	5-33	2-31	2-21	2-21
Rated Torque (KN.m)	42	60	75	250	330
Maximum Torque (KN.m)	105	120	150	360	510
Maximum Thrust (KN)	1500	1500	2000	1500	1500
Maximum Tension of Broaching (KN)	2500	2500	3000	4500	4500
Drilling Angle (°)	60-90	60-90	60-90	60~90	60~90
Weight of Main Machine(t)	10.5	11.5	12.5	20	23
Handing Dimension of Main Machine (L, W, H) (mm)	3000*1450*1650	3000*1480*1650	3000*1750*1750	5000*1850*2560	5000*1950* 2560
Working Dimension of Main Machine (L, W, H) (mm)	3350*1720*3950	3350*1750*4000	4850*1900*5250	8020*2500*5530	8020*2600* 5530
Drill Rod Diameter Effective Length (mm)	ø200×1000 ø230×1000	ø230×1000	ø254×1000	ø 286×1500	ø 327×1500
Slope of Drill Hole (%)	≤1	≤1	≤1	≤1	≤1
Motor Power (KW)	128.5	168.5	168.5	318.5	318.5
Drive Method	Constant power hydraulic drive			Full hydraulic drive	
Adaptive Lithology	One-way Compressive Strength of Rock ≤ 160, 0MPa			Uni-directional Compressive Strength of Rock ≤ 140, 0MPa	

## DRILLING METHOD



## MAIN COMPONENTS

				
Hydraulic cylinder	Drill rod	Tricone bit	Stable drill rod	Stable drill rod
				
φ1.8m Broaching Bit	φ1.2m Broaching Bit	Hobbing cutter	Hobbing cutter	Wrench
				
Centralizer	Activities set	Rail	Trolley	The six - party tube
				
Motor	Top Kava	Mention rings	Under kava	

## AFTER-SALE SERVICE

Maximize productivity time and reduce costs thanks to the outstanding assistance of our dealer network.



- Our company accept factory inspection before sales and before delivery.
- Our company will build parts stock within 50 miles aside the site; For urgent parts we will arrange delivery by express to the site to reduce the hanging time.
- Our company will supply one-year 2000 hours quality guarantee.
- Our company will supply one month installation, commissioning and training for the client; and we will help the client to succeed the first bore.
- Our company will supply necessary operator's manual, parts book, maintenance manual, etc. with machine delivery.

# KAMACH MINING

Your Business Success, Our Priority

