

Comparison of parameters of ZD model drilling and fracturing integrated machine of Shanxi Zhongde Dingli Group

Basic Specifications	Model Specification	ZD1000	ZD1500	ZD2000
	Matched Excavator Tonnage	24-36T	36-48T	48-65T
Rock Drill Parameters	Power	22kW	30kW	35kW
	Drilling Diameter	Φ89-127mm	Φ135mm	Φ152mm
	Drilling Depth	1600mm	1900mm	2100mm
	Drilling Speed	1m/min	0.8m/min	0.7m/min
	Splitting Depth	1000mm	1250mm	1500mm
Splitting Machine Parameters	Splitting Force (Two-stage)	12000T	15000T	30000T
	Rotation Angle	120°		
	Supercharging Level	Two-stage	Two-stage	Three-stage (2x boost)
Air Compressor/Vacuum Cleaner	Displacement	4.5m³/min	10m³/min	20m³/min
	Discharge Pressure	5-8bar	5-8bar	10-12bar
	Number of Filter Elements	5P	8P	8P
Propulsion Beam/Side Swing	Max. Rock Drill Propulsion Force	40KN		
	Max. Splitting Pull-out Force	80KN		
	Side Swing Force	80KN		
	Side Swing Speed	1rpm		
Remote Control Parameters	Effective Range	50m		
	Number of Digital Points	30		
	Number of Analog Channels	14		
	Anti-interference Ability	> 50dB		
Overall Machine Parameters	Total Weight	4T	5T	6T
	Total Length	4140mm	5200mm	5400mm
	Total Width	1500mm	1520mm	1520mm
	Flat Height	1570mm	1860mm	1860mm
Construction Efficiency (Per Hole)	Drilling Time	Approx. 2 minutes	Approx. 2.5 minutes	Approx. 3 minutes
	Splitting Time	Approx. 40 seconds	Approx. 40 seconds	Approx. 40 seconds
	Side Swing & Positioning Time	Approx. 50 seconds	Approx. 50 seconds	Approx. 1 minute
Output	Theoretical Output Per Hole	3m³	5.6m³	9m³
	Daily Theoretical Output (8h)	411m³ (≈1000 tons)	672m³	1080m³ (≈2000 tons)

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