

## Scope of application

Compact and flexible one-boom face drilling rig for small sized underground drifts, with coverage area 4 - 21m<sup>2</sup>.

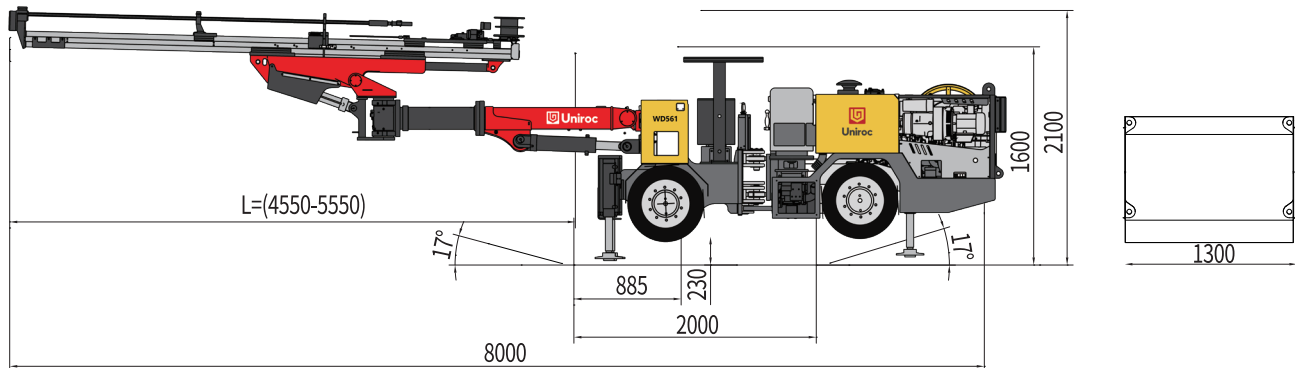


## Main benefits

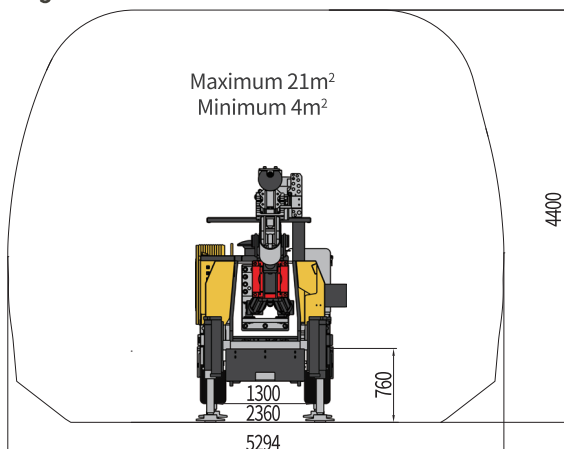
- **Optimized:** for small size tunnels and drifts down to 1.9 m wide x 1.9 m high.
- **Economical and efficient:** with automatic drilling, automatic return and anti-jamming functions increased the service life of drilling tools.
- **Digital:** with function of real-time monitoring and evaluation of construction conditions by digital recording data of the number and depth of holes.
- **Safe and simple operation:** easy to learn by remote control system and eliminate visual blind spots when drilling.
- **High popularity:** and good after-sales service support.

## Measurements

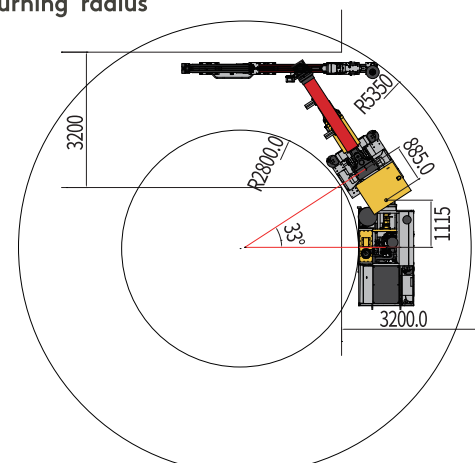
### Side view



### Coverage area



### Turning radius



## Technical specifications

Machine parameters	
Model	WD561
Length	8500mm
Width	1300mm
Height	1600/2100mm
Total weight	8.5t
Turning radius outer/inner	4800/2300mm
Wheelbase	2000mm
Gradeability	14°
Driving speed	7km/h (Max)
Ground clearance	230mm
Minimum coverage area	1.9m (H) x 1.9m (W)
Maximum coverage area	4.4m (H) x 5.3m (W)

Electrical system	
Total installed power	62kW
Main motor	1x55kW
Voltage	380V
Frequency	50Hz
Starting method	star/delta
Thermal overload protection for electric motors	1 unit
Percussion hour meters	1 unit
Digital voltmeter/ampere meter	1 unit
Phase sequence indicator	1 unit
Earth fault indicator	1 unit
Transformer	0.3kVA
Mining cables	50m

Feed			
	Model A Standard	Model B Optional	Model C Optional
Total length	5262mm	4658mm	4168mm
Drill rod length	3700mm	3090mm	2600mm
Hole depth	3400mm	2800mm	2300mm
Weight, incl. drill	610kg	570kg	540kg
Feed force	7-15kN	7-15kN	7-15kN

Control system	
Remote electro-proportional hydraulic control system	yes
Automatic anti-jamming function	yes
Automatic drilling, automatic retraction, automatic stop impact, and waterless and non-lubricated non-impact functions	yes
Automatic recording of drilling depth and number of drilled holes	yes

Rock drill	
Type	U1838ME
Shank	T38
Drill range	φ41mm-φ76mm
Reaming range	φ76mm-φ127mm
Height over drill centre	95mm
Length without shank	1008mm
Impact power	18kW
Impact rate	60Hz
Rated hydraulic pressure	210bar
Maximum hydraulic pressure	230bar
Rotation system	Separate rotation
Rotation speed	0 ~ 215rpm
Rotation torque, max	1000Nm
Weight	170kg
Sound level	<106dB (A)

Drilling tools	
Drill rod	T38-H35-R32-3700
Drill bit	R32-φ45
Reaming drill bit	R32-φ89
Shank	T38
Connecting sleeve	T38-T38-190

Air system	
Air compressor	Xunteng ER504HS-18009
Working pressure	8bar
Working flow	410L/min

Carrier	
66kW Diesel engine	Yuchai YC4DK90-T304
Articulated steering	±38°steering angle
Silencer	1 unit
Fixed seat for tramming	1 unit
Four-wheel drive	1 unit
Closed hydraulic pump	1 unit
Variable motors	1 unit
Approach angle	17°
Departure angle	17°
Hydraulic jacks, front	2 horizontally telescopic jacks, 2 vertical telescopic jacks
Hydraulic jacks, rear	2 vertical telescopic jacks
Service brakes	2 separate circuits
Fuel tank, volume	50L
Electric system	24V
Batteries	2x120Ah
Tramming lights	1x48W&2x30W
Working lights	2x100W
Fire extinguisher	yes
Horn, beacon and reverse alarm	yes

Hydraulic system	
Hydraulic pumps	1 unit
System pressure, max	230bar
Hydraulic oil tank, volume max	135L
Return oil filter blockage alarm	yes
Water cooled oil	yes
Filtration	10um
Mineral hydraulic oil	yes
Rock drill lubrication alarm	yes
Oil temperature	yes
Low oil level indicator	yes

Water system	
Water booster pump	Kaiquan KQDP32-5-108
Working pressure	8~12bar
Working flow	25~80L/min

Boom	
Boom swing angle L/R	±35°
Max. lifting angle	-28°/+42°
Feed extension	1500mm
Feed roll-over	360°