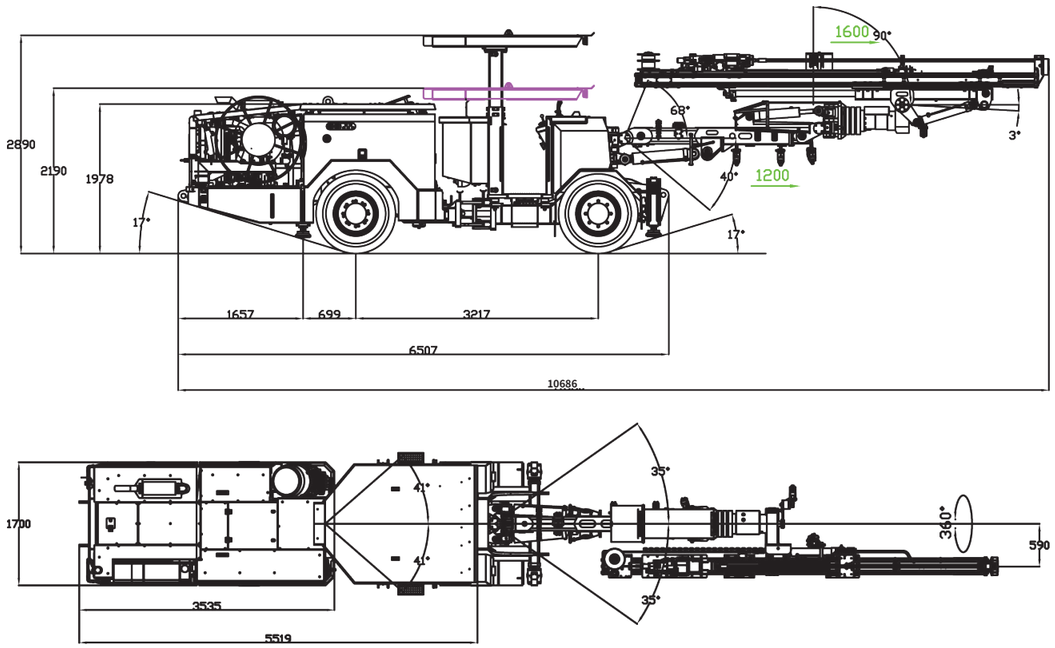
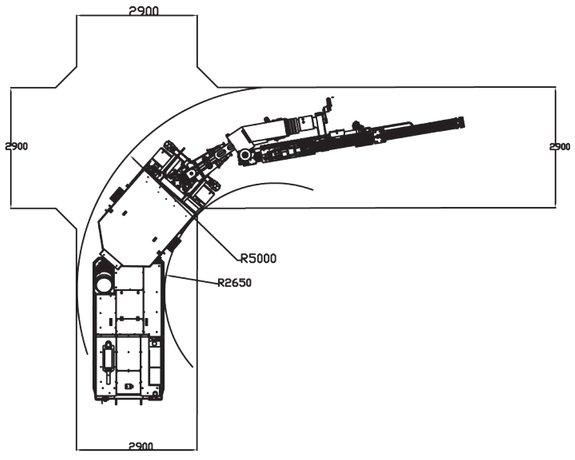
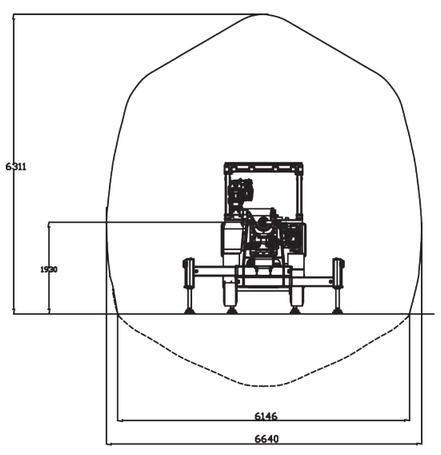
Dimensions



Turning radius



Work Coverage area



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ZEGA Jumbo Rig
UJ21D



Full hydraulic drill rig for tunneling and mining applications structured with composite-coordinate system and parallel positioning boom, and combined pilot controlled load sensing hydraulic system; with high impact frequency ZY104 rock drill (drifter) to meet various needs of customers.

Drilling coverage area: 35 m²

ZEGA UJ21D Jumbo Drill Rig

ZEGA UJ21D drilling rig is widely used in underground mine development, small-sized tunnel excavation, and also for reinforcement applications such as bolting hole drilling. It can meet the requirements of mine development and bolt hole drilling with a section above 2.5m x 2.5m. Its well-designed appearance, control system and configuration will provide customers with a better drilling experience. Its carrier based on safety considerations and height adjustable safety canopy ensure maneuverability and stability and the operators always working in safe position; The "pilot + load-sensing control" compound coordinate boom system achieves flexible and accurate drilling positioning; Zhigao ZY104M rock drill featured with 20 kW power and 60 Hz impact frequency together guarantee for efficient drilling. The dual-damping mechanism system and automatic drilling adaptation system improve penetration rate and productivity while effectively reducing consumption of rock tools.

Standard configuration

- Zhigao ZY104M rock drill (drifter)
- Cummins diesel engine QSB3.9-C100-III
- Marathon HK225M-4 electric motor
- Zhigao wear resistant rail aluminum-alloy feed beam
- Zhigao box type heavy duty boom
- Full hydraulic 4WD articulated carrier
- FOPS telescopic safety canopy
- Zhigao V60D screw air compressor
- Hydraulic driven cable reel (capacity of 80 m cable)
- Electric CDMF5-20 water booster pump

Options

- 4 meter feed beam
- 1 + 1 rod change system
- Hole flushing device

Control System

• Hydraulic drilling control system with automatic hole collaring, automatic percussion stop in case of low lubrication or water pressure, rotation pressure auto controlled feed, feed pressure auto controlled percussion and auto anti-jamming functions.

• Two speed forward and reverse tramming. No engine stall when climbing in overload with automatic speed reduction and torque output increase.

• CAN communication technology electrical system, modular section layout design, simplified circuit and improved reliability.

• Unique hole bottom flushing function for cleaner holes and convenient explosive charging.

Feed

• Heavy duty aluminum alloy feed beam with high bending and torsion resistance strength and long service life.

• The surface of the feed beam covered with stainless steel sleeve, and the PTFE wear resistant pad between moving parts to improve service life.



Rock drill (drifter)

• ZY104M rock drill with dual buffer system for extended service life of drill tools.

• Pressure protection oil films and all joint lubrication interfaces to reduce internal wear of the rock drill.

Carrier

• Robust heavy duty articulated chassis with 4WD.

• Dual circuit pedal control brakes with emergency parking brake for safe braking in case one or even both circuits damaged.

Compound coordinate system drilling boom

• Dual triangular suspension support boom ensuring accurate hydraulic parallel holding in all directions.

• The box structure heavy duty telescopic boom with strength characters of best force distribution on bending, shearing and torsional loading. Bearing capacity more than 1.5 tons.

Technical specifications

Hole range	Φ41 - 102 mm
Hole depth	3,440 mm
Drill rod size	T38 - H35 - R32 * 3,700 mm
Face size (W x H)	6,600 x 6,300 mm
Drilling coverage area	35 ㎡
Turning radius (inner / outer)	2,650 / 5,000 mm
Dimension (LxWxH-roof up/down)	10,680x1,700x2,190/2,890 mm
Weight	⩽12,000 Kg

Drifter

Model	ZY104M
Impact power	20 kW
Max. torque	752 Nm
Impact frequency	60 Hz
Rotation speed	0 - 388 rpm
Weight	170 kg

Air compressor

Model	Twin screws
Working pressure	7 bar
Rated capacity FAD	0.3 m^3 / min

Diesel engine

Model	QSB3.9-C100-III (Cummins)
Rated power	74 kW
RPM	2,200 rpm

Electric motor

Rated power	55 kW
Voltage	380 V
Reel cable length	80 m

Feed

Total length	5,500 mm
Feeding length	3,440 mm
Extension length	1,600 mm

Tramming

Tramming Speed	12 / 4.5 km / h
Gradeability	15° degree
Articulated steering angle	±41°degree
Tramming brake	2 independent circuits
Hydraulic jacks	4
Fuel tank volume	63 L
Ground clearance	260 mm

Boom

Parallel holding	Complete
Boom extension	1,200 mm
Boom swing angle L / R	±35°
Boom lifting angle	+68/-40°
Feed tilt angle	+40/-68°
Feed swing angle	+3/-90°
Feed roll-over	360° (Spiral)

Water system

Flow rate	66 L/min
Working pressure	13 bar
Min. water inlet pressure	2 bar