



# SANY ROAD HEADER 三一掘进机

Product Brochure  
产品手册

SANY





## QUALITY CHANGES THE WORLD

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## Company Profile

Founded in 2004, SANY Heavy Equipment Co., Ltd. is a large construction equipment manufacturer and one of the core business enterprise of SANY Group – a global market pioneer of equipment manufacturing. SANY Heavy Equipment specializes in the research and development, manufacturing and marketing of mining machinery, set of equipment for coal excavation, mining, and transportation. It has more than 50 categories of leading products in the world, such as the off-highway mining truck, dump truck, mining and tunneling machine, hydraulic support, roadheader, drag conveyor, coal cutter, etc.

### Products' Footprints

With 18 years of constantly innovation and moving forward, SANY Heavy Equipment has delivered its products to more than 20 countries and regions such as Russia, India, Indonesia, Brazil, Argentina, Ukraine, Turkey, Mongolia, Poland, South Africa, West Africa, Vietnam, Thailand, the Philippines, etc. It has established 13 domestic subsidiary companies and its 24h sales and services cover 4 continents. SANY Heavy Equipment keeps exploring more possibilities to expand its reach and innovate its way of doing business as well as to raise the standard and answer the call for new market needs.





## Innovation and Research

Consisting of the Research and Development Departments of Excavation, Intelligent Technology, Wide-Body Dump Truck, Purified Water Support, and Coal Cutter, the Research Institute of SANY Heavy Equipment has been recognized as Chinese National Technical Center and High-Tech Enterprise. It has a National Postdoctoral Research Workstation, a first Academician Workstation in industry, a Continental Engineering Center and a Continental Engineer Laboratory. It also has passed the information security certification of CNAS (China National Accreditation Service for Conformity Assessment) and American standard ANAB (ANSI-ASQ National Accreditation Board).

## Working on the Future

SANY Heavy Equipment is a forward-looking company that was born in a time of change and now looks for any opportunity in those changes that will lead the way to the future. It is unleashing the power of data in the connectivity of machines, realizing smart manufacturing and autonomous operation with some models. The efforts to add a new electric product portfolio makes SANY Heavy Equipment stand out in today's digital world and is also part of its sustainable solutions.



# SANY Roadheader

Intelligent Roadheader

# Heading Monster



## Product Highlights

### Remote control



Through the combination of wireless and wired, one-key automatic cutting is realized, and the control distance is more than 500m.

### Highly intelligent



Autonomous navigation, slope tracking, pose error  $\leq 0.1^\circ$ . Heading angle errors  $\leq 0.15^\circ$ .

### High security



Electronic security system, with the function of proximity identification and alarm for personnel in dangerous areas.

### Fault warning



Equipped with a complete sensor network, online monitoring of working conditions, early warning and alarm of faults.

### Efficient cutting



Adaptive cutting technology, identify the hardness of coal and rock, and adjust the cutting feed speed independently.

### 3D simulation



Combination of virtual and real attitude coordinates, real-time display and control application of roadheader position.

## EBZ160i



## Technical Data

| Project                                                             | Parameter  |
|---------------------------------------------------------------------|------------|
| Positioning cutting height (m)                                      | 2.3 ~ 5.3  |
| Positioning cutting width (m)                                       | 3.5 ~ 5.75 |
| Gradeability(° )                                                    | ± 20       |
| Working slope (° )                                                  | ± 18       |
| Unilateral compressive strength of Max/<br>suitable in cutting rock | ≤ 80/60    |
| Dinting depth                                                       | 247        |
| Rotating speed of cutting head/ telescopic<br>length(rpm/mm)        | 46/23/550  |
| Loading capacity (m <sup>3</sup> /min)                              | 3.5        |
| Ground clearance (mm)                                               | 260        |
| Cutting motor power (kW)                                            | 160/100    |
| Oil pump motor power (kW)                                           | 90         |

| Project                                                        | Parameter                               |                    |
|----------------------------------------------------------------|-----------------------------------------|--------------------|
| Maximum non-removable size<br>(length × width × height)<br>(m) | body frame                              | 3.65 × 1.16 × 1.32 |
|                                                                | front chute<br>of the first<br>conveyor | 3.80 × 0.59 × 0.57 |
|                                                                | rear support<br>frame                   | 1.21 × 2.27 × 1.10 |
| Maximum weight of<br>non-removable parts<br>(kg)               | body frame                              | 5400               |
| Machine weight (t)                                             | second<br>conveyor                      | 49                 |

# SANY Roadheader

Suitable for all/half coal seam

## Coal-Rock Roadway



### Product Highlights

#### Swing tail technology



With application of universal tail swing technology, the conveyor can adjust the direction of discharge port as required to realize adjustable height and lateral swing for the discharge port.

#### Full nozzle cutting head



Each pick seat on the cutting head is designed with a cooling water channel to improve the cooling effect of the pick.

#### Double telescoping drive technology for cutting unit



This technology solves the unbalanced load problem and guarantees the highly reliable working of the bearings and seals.

#### Internal spray technology



The internal spray system with proprietary patent technology features reliable performance and high reliability and repairability.

#### High reliability



The critical and significant components are over 3 times of safety coefficient. They have passed the in-plant repeated durability tests and verification to achieve long working life. The conveyance system adopts high-strength wearing plates to prolong the wearing life by 3~5 times.

#### Super-wear resistant cutting teeth



The premium tungsten-cobalt alloy cutting teeth feature high strength, high wear resistance and low loss.

## EBZ200R



Overall dimensions(m):13.7x2.6x1.85

## Technical Data

| ITEM                                                                   | PARAMETER   |
|------------------------------------------------------------------------|-------------|
| Width of Mouldboard (m)                                                | 3.6/3.2/3.0 |
| Width across tracks (m)                                                | 2.6         |
| Cutting height from the stationary position (m)                        | 2.5 ~ 5.2   |
| Cutting width from the stationary position (m)                         | 4.0 ~ 6.7   |
| Unilateral compressive strength of Max/ suitable in cutting rock (MPa) | ≤85/65      |
| Cutting motor power (kW)                                               | 200/110     |
| Rotate speed of cutting head (rpm)                                     | 46/23       |
| Telescoping capacity (mm)                                              | 650         |
| Lateral swing range of first conveyor tail swing (°)                   | ±40         |
| Discharge height range of first conveyor tail swing (m)                | 1.16 ~ 1.93 |
| Oil pump motor power (kW)                                              | 132         |
| Ground pressure (MPa)                                                  | 0.16        |
| Undercut (mm)                                                          | 400         |
| Power supply voltage (V)                                               | 1140        |
| Grade ability (°)                                                      | ±18         |

| ITEM                                               | PARAMETER                  |               |
|----------------------------------------------------|----------------------------|---------------|
| Dimension of maximum undetectable part (L*W*H) (m) | Body frame                 | 3.13×1.39×1.5 |
|                                                    | First conveyor front chute | 3.0×0.97×0.88 |
|                                                    | Rear support frame         | 2.47×1.63×1.4 |
| Weight of maximum undetectable part (kg)           | Body frame                 | 6100          |
| Total weight (t)                                   | -                          | 61            |
| Gross power(kW)                                    | -                          | 332           |
| Pump displacement(ml/r)                            | -                          | 190+145       |
| Height of cutting portion(m)                       | -                          | 2.35          |

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# SANY Roadheader



## EBZ200RUS



## Technical Data

| ITEM                                               | PARAMETER         |                   |
|----------------------------------------------------|-------------------|-------------------|
| Dimension of maximum undetectable part (L*W*H) (m) | Frame             | 3.13 × 1.39 × 1.5 |
|                                                    | Front chute       | 2.81 × 0.78 × 0.7 |
|                                                    | Rear support      | 2.47 × 1.63 × 1.4 |
| Weight of maximum undetectable part (kg)           | Frame             | 6100              |
| Total weight (t)                                   | 55                |                   |
| Gross power (kW)                                   | 310               |                   |
| Hydraulic pump (ml/r)                              | 145+145           |                   |
| Height with horizontal cutting head (m)            | 2.35              |                   |
| Overall dimensions (m)                             | 10.85 × 2.6 × 1.8 |                   |

| ITEM                                                                  | PARAMETER |
|-----------------------------------------------------------------------|-----------|
| Width of shovel (m)                                                   | 3.6       |
| Width of outer side of both pedrails (m)                              | 2.6       |
| Positioning cutting height (m)                                        | 2.5 ~ 5.2 |
| Positioning cutting width (m)                                         | 4.0 ~ 6.7 |
| Unilateral compressive strength of Max/suitable in cutting rock (MPa) | ≤85/65    |
| Cutting motor power (kW)                                              | 200/110   |
| Rotate speed of cutting head (rpm)                                    | 46/23     |
| Cutting head boom stroke (mm)                                         | 650       |
| Oil pump motor power (kW)                                             | 110       |
| Ground pressure (MPa)                                                 | 0.15      |
| Undercut (mm)                                                         | 400       |
| Power supply voltage (V)                                              | 1140      |
| Grade ability (°)                                                     | ± 18      |

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# SANY Roadheader



## EBZ260R



## Technical Data

| Item                                               | Parameter          |                    |
|----------------------------------------------------|--------------------|--------------------|
| Dimension of maximum undetectable part (L*W*H) (m) | Frame              | 3.03 × 1.40 × 1.39 |
|                                                    | Front chute        | 3.5 × 0.7 × 0.6    |
|                                                    | Motor tank         | 2.13 × 1.80 × 0.92 |
| Weight of maximum undetectable part (kg)           | Frame              | 7701               |
| Total weight (t)                                   | 95                 |                    |
| Gross power (kW)                                   | 420                |                    |
| Hydraulic pump (ml/r)                              | 190+145+145        |                    |
| Height with horizontal cutting head (m)            | 2.47               |                    |
| Overall dimensions (m)                             | 15.3 × 2.62 × 1.85 |                    |

| Items                                                                 | Parameter |
|-----------------------------------------------------------------------|-----------|
| Width of shovel (m)                                                   | 3.6       |
| Width of outer side of both pedrails (m)                              | 2.62      |
| Positioning cutting height (m)                                        | 3.3~5.1   |
| Positioning cutting width (m)                                         | 4.2~6.2   |
| Unilateral compressive strength of Max/suitable in cutting rock (MPa) | ≤100/80   |
| Cutting motor power (kW)                                              | 260/200   |
| Rotate speed of cutting head (rpm)                                    | 54/27     |
| Lateral swing range of first conveyor tail swing (°)                  | ±40       |
| Discharge height range of first conveyor tail swing (m)               | 1.375~2.0 |
| Oil pump motor power (kW)                                             | 160       |
| Ground pressure (MPa)                                                 | 0.17      |
| Undercut (mm)                                                         | 200       |
| Power supply voltage (V)                                              | 1140      |
| Grade ability (°)                                                     | ±18       |

# **SANY Roadheader– Whole Rock**

Suitable for all coal seam /half coal seam/all rock seam

## ***Hard Rock Heading Monster***

### **Product Highlights**

#### **Extensive scope**



5,100mm cutting height and 6,300mm width guarantee extensive application scope.

#### **Full nozzle cutting head**



Each pick seat on the cutting head is designed to with a cooling water channel to improve the cooling effect of the pick.

#### **Powerful rock breaking**



260kW cutting power features strong power.

#### **Wireless remote control**



The remote controller is configured to operate the equipment through wireless remote control system, which provides great safety guarantee for the operators.

#### **High safety guarantee**



The multipole emergency stop buttons are installed for quick treatment of emergencies and the multiple sensors (including electric leakage and over-current sensors) are installed to guarantee the working safety of equipment.

## EBZ260RUS



Overall dimensions(m): 12.4x2.62x1.85

## Technical Data

| ITEM                                                                  | PARAMETER                                         |
|-----------------------------------------------------------------------|---------------------------------------------------|
| Width of loading apron (m)                                            | 3.6/3.2/3.0                                       |
| Width across tracks (m)                                               | 2.62                                              |
| Cutting height from the stationary position (m)                       | 3.3 ~ 5.1                                         |
| Cutting width from the stationary position (m)                        | 4.2 ~ 6.2 (with standard 3.6m wide loading apron) |
| Unilateral compressive strength of Max/suitable in cutting rock (MPa) | ≤100/80                                           |
| Cutting motor power (kW)                                              | 260/200                                           |
| Rotate speed of cutting head (rpm)                                    | 54/27                                             |
| Oil pump motor power (kW)                                             | 160                                               |
| Ground pressure (MPa)                                                 | 0.16                                              |
| Undercut (mm)                                                         | 200                                               |
| Power supply voltage (V)                                              | 1140                                              |
| Grade ability (°)                                                     | ±18                                               |

| ITEM                                               | PARAMETER                  |                |
|----------------------------------------------------|----------------------------|----------------|
| Dimension of maximum undetectable part (L*W*H) (m) | Body frame                 | 3.03×1.40×1.39 |
|                                                    | First conveyor front chute | 3.35×0.78×0.6  |
|                                                    | Motor tank                 | 2.13×1.80×0.92 |
| Weight of maximum undetectable part (kg)           | Body frame                 | 7690           |
| Total weight (t)                                   | -                          | 89             |
| Gross power(kW)                                    | -                          | 420            |
| Pump displacement(ml/r)                            | -                          | 190+145+145    |
| Height of cutting portion(m)                       | -                          | 2.47           |

# STR260/5

## SANY Engineering Roadheader

Suitable for all coal seam /half coal seam/all rock seam



### Product Highlights

#### Complete equipment



The enclosed cab mitigates the noise and dust harms and the humanized equipment (such as cable reel) make operating more labor-saving.

#### High safety guarantee



The multipole emergency stop buttons are installed for quick treatment of emergencies. The electrical system prevents electric leakage and provides overcurrent protection to guarantee the working safety of equipment.

#### Extensive scope



5,100mm cutting height and 6,300mm width guarantee extensive application scope.

#### Easy maintenances



The expert malfunction diagnosis system ensures quick judgment and solving of malfunctions.

#### Powerful rock breaking

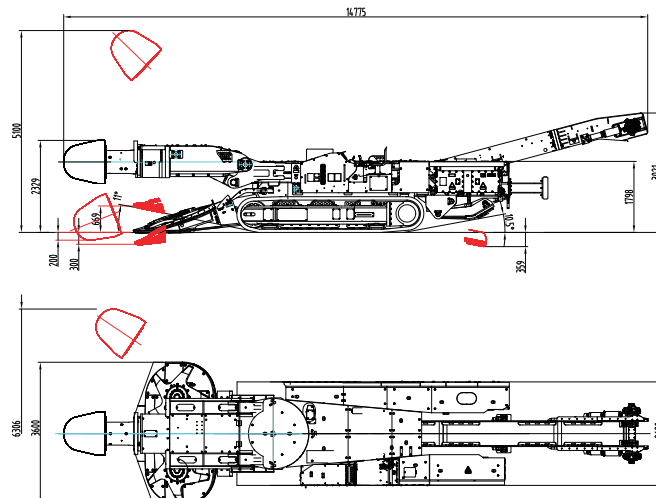


260kW cutting power features strong power.

## Technical Data

| Item                                                            |                                              | Unit  | Parameter                                                           |
|-----------------------------------------------------------------|----------------------------------------------|-------|---------------------------------------------------------------------|
| Positioning cutting height                                      | Arched roadway                               | m     | 3.3 ~ 5.1                                                           |
|                                                                 | Rectangular roadway (equipped with deduster) | m     | 3.3 ~ 5.1                                                           |
|                                                                 | Rectangular roadway (deduster unavailable)   | m     | 3.3 ~ 5.1                                                           |
| Positioning cutting width                                       | Standard mouldboard width: 3.6m              | m     | 4.2 ~ 6.2                                                           |
|                                                                 | Optional mouldboard width:3.2m               | m     | 3.6 ~ 6.2                                                           |
|                                                                 | Optional mouldboard width:3m                 | m     | 3.8 ~ 6.2                                                           |
| Grade ability                                                   |                                              | °     | ±18                                                                 |
| Unilateral compressive strength of Max/suitable in cutting rock |                                              | MPa   | ≤ 100/70                                                            |
| Adaptable roadway characteristic of roadheader                  |                                              |       | III ~ IV                                                            |
| Dinting depth                                                   |                                              | mm    | 200                                                                 |
| Power of cutting motor                                          |                                              | kW    | 260                                                                 |
| Rotating speed of cutting head                                  |                                              | r/min | 37                                                                  |
| Mode of loading                                                 |                                              |       | 5-tooth star wheel                                                  |
| Mode of conveyor                                                |                                              |       | Side dual-chain scraper type                                        |
| Dimension of Max. undetectable part (L*W*H) (m)                 | Body frame                                   | m     | 4.18×1.42×1.4                                                       |
|                                                                 | Front chute                                  | m     | 3.35×0.69×0.63                                                      |
|                                                                 | Motor box                                    | m     | 2.24×1.82×0.92                                                      |
| Traveling speed                                                 |                                              | m/min | 0-6.5                                                               |
| Rotary speed of star wheel                                      |                                              | r/min | 33                                                                  |
| Speed of conveyor chain                                         |                                              | m/min | 66                                                                  |
| Volume of oil tank                                              |                                              | L     | 750                                                                 |
| Overall dimensions                                              | Length                                       | m     | 14.775 (Standard)                                                   |
|                                                                 |                                              | m     | Standard mouldboard width: 3.6m (optional mouldboard width 3m/3.2m) |
|                                                                 | Width                                        | m     | Width of outer side of both pedrails 2.62                           |
|                                                                 |                                              | m     | Width of complete machine 2.6                                       |
|                                                                 |                                              | m     | Body height :1.8m                                                   |
|                                                                 | Height                                       | m     | Highest point with horizontally arranged cutting head :2.3m         |
| Total weight                                                    |                                              | t     | 80                                                                  |
| Power supply voltage                                            |                                              | V     | 1140                                                                |
| Power of oil pump motor                                         |                                              | kW    | 132                                                                 |
| Gross power                                                     |                                              | kW    | 467 (Including deduster)                                            |
| PH value of supply water                                        |                                              |       | 6 ~ 8                                                               |
| Required water pressure supplied undermine                      |                                              | MPa   | 3 ~ 8                                                               |
| Required/minimum cooling water capacity                         |                                              | L/min | 120/30                                                              |
| Weight of Max. undetectable part (body frame)                   |                                              | kg    | 9060                                                                |
| Connecting vehicle height 1.8m                                  |                                              | m     | Depth of compartment 2.5m                                           |
| Track width                                                     |                                              | mm    | 650                                                                 |
| Hydraulic pump                                                  |                                              | mL/r  | 190+190                                                             |
| Ground pressure                                                 |                                              | MPa   | 0.157                                                               |
| Ground clearance                                                |                                              | mm    | 200                                                                 |

## Overall Dimensions



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# **SANY Mining Roadheader**

Suitable for non-coal such as potassium/sodium salt ore



# Multi-functional Gold Miner

## Product Highlights

### Mechanical Excavation



It features advanced mining technology including mechanical excavation, remote control, and automatic cutting instead of the conventional blasting and mining of non-coal mines.

### High Efficiency



It features a continuous mining process including mechanical rock breaking, shoveling, and transportation, with an efficiency of two times of blasting when the rock hardness (f) is less than 8.

### High Security



It features limited rock disturbance, cross-sectional regularity, surrounding rock stability, no blasting operation, efficient equipment, and personnel of the working surface for higher security.

### Simple Process



Compared with blasting operation, it features a 45% reduction in relevant processes including drilling, charging, wire blasting, ventilation, shoveling, and transportation.

### Excellent Tunnel Formation



It features limited rock disturbance and damage, tunnel flatness, and regularity, with a more than 30% reduction of support and twice the efficiency.

### Low Operating Cost



The operating costs consist of manpower, utilities, cutting pick consumption, and maintenance. Compared with blasting operation, it features a 20% reduction of cost when the rock hardness (f) is less than 8.

**SANY Mining Roadheader**



**Technical Data**

| Main parameter                                                | Product model | SCR630                             |
|---------------------------------------------------------------|---------------|------------------------------------|
| Overall length (m)                                            |               | 16.8                               |
| Overall height (m)                                            |               | 4.5/ Height of cutting portion 3.7 |
| Width of mouldboard(m)                                        |               | 5.5                                |
| Width between track (m)                                       |               | 4                                  |
| Width of cut (m)                                              |               | 9.15                               |
| Height of cut (m)                                             |               | 4.5-6.8                            |
| Grade ability (°)                                             |               | ±16                                |
| Max/economic unidirectional pressure resistance of rock (MPa) |               | 60                                 |
| Undercut (mm)                                                 |               | 330                                |
| Ground pressure (MPa)                                         |               | 0.2                                |
| Power supply voltage (V)                                      |               | 1140                               |
| Cutting motor power (kw)                                      |               | 2×315                              |
| Pump displacement (ml/r)                                      |               | 190+145+145                        |
| Oil pump motor power (kW)                                     |               | 200                                |
| Dimension of maximum undetectable part (L*W*H)                |               | 4.18 ×1.40×1.4m                    |
| Weight of maximum undetectable part (body frame) (t)          |               | 10.5                               |
| Gross power (kW)                                              |               | 867                                |
| Gross weight (t)                                              |               | 178                                |
| Rotary speed of star wheel (r/min)                            |               | 54                                 |

## SANY Mining Roadheader



## Technical Data

| Main parameter                                                | Product model | SCR520A                          |
|---------------------------------------------------------------|---------------|----------------------------------|
| Overall length (m)                                            |               | 16.8                             |
| Overall height (m)                                            |               | 4/ Height of cutting portion 3.7 |
| Width of mouldboard(m)                                        |               | 5.5                              |
| Width between track (m)                                       |               | 4                                |
| Width of cut (m)                                              |               | 9.7                              |
| Height of cut (m)                                             |               | 4.0-6.57                         |
| Grade ability (°)                                             |               | ±15                              |
| Max/economic unidirectional pressure resistance of rock (MPa) |               | 60                               |
| Undercut (mm)                                                 |               | 340                              |
| Ground pressure (MPa)                                         |               | 0.17                             |
| Power supply voltage (V)                                      |               | 1140                             |
| Cutting motor power (kw)                                      |               | 2×260                            |
| Pump displacement (ml/r)                                      |               | 260+190                          |
| Oil pump motor power (kW)                                     |               | 200                              |
| Dimension of maximum undetectable part (L*W*H)                |               | 2.53×3.41×1.47                   |
| Weight of maximum undetectable part (body frame) (t)          |               | 10.5                             |
| Gross power (kW)                                              |               | 757                              |
| Gross weight (t)                                              |               | 168                              |
| Rotary speed of star wheel (r/min)                            |               | 37                               |

**EBZ200M-2**



**Parameters Table**

| The main parameters                                                         |                                | Product model | EBZ160M-2      | EBZ200M-2       |
|-----------------------------------------------------------------------------|--------------------------------|---------------|----------------|-----------------|
| Cutting range                                                               | Positioning cutting height (m) |               | 3.0~4.8        | 3.1~5.19        |
|                                                                             | Positioning cutting width (m)  |               | 3.8~5.5        | 3.8~6.6         |
| Anchor range                                                                | Anchor height (m)              |               | 3.0~4.8        | 3.1~4.8         |
|                                                                             | Anchor width (m)               |               | 3.8~5.0        | 3.8~5.0         |
| Cutting power                                                               |                                |               | 160/100kW      | 200/110kW       |
| One-way compressive strength of rock that can be cut/economically cut (MPa) |                                |               | ≤80/60         | ≤85/65          |
| Cutting head speed (rpm)                                                    |                                |               | 46/23          | 46/23           |
| Cutting head telescopic amount (mm)                                         |                                |               | 550            | 550             |
| Number of bolters                                                           |                                |               | 2              | 2               |
| Bolting machine torque (N·M)                                                |                                |               | 300            | 300             |
| Bolting machine speed (r/min)                                               |                                |               | 450            | 450             |
| Support size (length × width) (mm)                                          |                                |               | 1000×3700      | 1000×3700       |
| Supporting force (KN)                                                       |                                |               | 50             | 50              |
| Maximum part size (mm)                                                      | Body frame                     |               | 3.60×1.16×1.33 | 3.39×1.39×1.5m  |
|                                                                             | Front chute                    |               | 3.80×0.60×0.56 | 2.81×0.70×0.60m |
|                                                                             | Rear support frame             |               | 1.21×2.28×1.10 | 2.47×1.63×1.4m  |
| Maximum part weight (t)                                                     |                                |               | 5.4            | 6.1             |
| Machine weight (t)                                                          |                                |               | ≈48            | ≈57             |

## EBZ260M-2



## Parameters Table

| The main parameters                                                         |                                | Product model | EBZ260M-2       |
|-----------------------------------------------------------------------------|--------------------------------|---------------|-----------------|
| Cutting range                                                               | Positioning cutting height (m) |               | 3.5~5.0         |
|                                                                             | Positioning cutting width (m)  |               | 4.6~6.1         |
| Anchor range                                                                | Anchor height (m)              |               | 3.5~5.0         |
|                                                                             | Anchor width (m)               |               | 4.6~6.1         |
| Cutting power                                                               |                                |               | 260kW           |
| One-way compressive strength of rock that can be cut/economically cut (MPa) |                                |               | ≤100/80         |
| Cutting head speed (rpm/mm)                                                 |                                |               | 37              |
| Number of bolters                                                           |                                |               | 2               |
| Bolting machine torque (N·M)                                                |                                |               | 300             |
| Bolting machine speed (r/min)                                               |                                |               | 450             |
| Support size (length × width) (mm)                                          |                                |               | 2900×2400       |
| Supporting force (KN)                                                       |                                |               | 20              |
| Maximum part size (mm)                                                      | big body part                  |               | 3.03×1.40×1.43m |
|                                                                             | rear support                   |               | 1.9×3.08×1.33m  |
|                                                                             | 1st sliding table              |               | 3.98×0.3×0.41m  |
| Maximum part weight (t)                                                     |                                |               | 7.8             |

**Even the mining machine**



**Parameters Table**

| The main parameters                                                     | Product model | ML360A                        |
|-------------------------------------------------------------------------|---------------|-------------------------------|
| Machine weight (t)                                                      |               | 90                            |
| Body length (m)                                                         |               | 11.9                          |
| Cutting width (m)                                                       |               | 3.65                          |
| Body height (m)                                                         |               | 1.7                           |
| Maximum non-removable part size (m)                                     |               | body frame2.8×1.7×1.4         |
| Maximum weight of non-removable parts (t)                               |               | 8.8                           |
| Positioning cutting height (m)                                          |               | Rectangular roadway 1.9 ~ 4.5 |
| Maximum/Economic Cutting Coal Unidirectional Compressive Strength (MPa) |               | 80/50                         |
| Total power of the whole machine (kW)                                   |               | 763                           |
| Cutting Motor Power (kW)                                                |               | 360                           |
| Production capacity (t/min)                                             |               | 15 ~ 25                       |
| Moving speed (m/min)                                                    |               | 0 ~ 18                        |
| Ground specific pressure (MPa)                                          |               | 0.21                          |
| Undercover Depth (mm)                                                   |               | 200                           |
| Supply voltage (V)                                                      |               | 1140                          |

## Even the windlass



## Parameters Table

| The main parameters                                                     | Product model | EJM270                                  |
|-------------------------------------------------------------------------|---------------|-----------------------------------------|
| Machine weight (t)                                                      |               | 100                                     |
| Body length (m)                                                         |               | 11.4                                    |
| Cutting width (m)                                                       |               | 4.9 ~ 5.8                               |
| Body height (m)                                                         |               | 2.6                                     |
| Positioning cutting height (m)                                          |               | rectangular roadway 2.8 ~ 3.8/3.3 ~ 4.4 |
| Maximum/Economic Cutting Coal Unidirectional Compressive Strength (MPa) |               | 60                                      |
| Total power of the whole machine (kW)                                   |               | 574                                     |
| Cutting Motor Power (kW)                                                |               | 270                                     |
| Production capacity (t/min)                                             |               | 12 ~ 28                                 |
| Moving speed (m/min)                                                    |               | 0 ~ 12                                  |
| Ground specific pressure (MPa)                                          |               | 0.27                                    |
| Undercover Depth (mm)                                                   |               | 200                                     |
| Supply voltage (V)                                                      |               | 1140                                    |
| Gradeability (°)                                                        |               | ±16                                     |

## Drill-Loader Machine

# Drilling Specialist



### Six main points

#### Wide applicability



Road, railway, water conservancy engineering tunnel and mining

#### High stability



When drilling and receiving materials, the equipment has little vibration

#### High drilling efficiency



Double triangle hydraulic translation drill arm, reliable positioning and high drilling efficiency

#### System balance



Best match of mechanical, electrical and hydraulic properties

#### Perfect function



It can realize the functions of drilling, loading, transportation, roadway repair and other functions

#### Large drilling range



35m<sup>3</sup> one-time positioning to complete full-section drilling

## CMZY2-300/35



### Parameters Table

| The main parameters                   |                        | Product model | CMZY2-300/35 Double arm drill-loader machine |
|---------------------------------------|------------------------|---------------|----------------------------------------------|
| Dimensions                            | Length (m)             |               | 10.6                                         |
|                                       | Width (m)              |               | 2.6(Shovel board)/2.25 (Crawler)             |
|                                       | Height (m)             |               | 2.5 (guard plate) /2.85 (ceiling)            |
| Maximum non-removable size (L×W×H)    | Front body frame (m)   |               | 2.69×0.99×1.25                               |
|                                       | Front chute (m)        |               | 4.75×0.87×1.62                               |
|                                       | Rear support frame (m) |               | 2.1×1.25×0.76                                |
| Machine weight (t)                    |                        |               | 42 (Including second conveyour)              |
| Maximum non-removable weight (t)      |                        |               | 2                                            |
| Rated output power (kW)               |                        |               | 147 (Including second conveyour15)           |
| Positioning drilling range (m)        |                        |               | 6.8×4.75 (width x height)                    |
| Positioning range (m)                 |                        |               | 5.3×4.2 (width x height)                     |
| Loading capacity (m³/h)               |                        |               | 300                                          |
| Maximum depth of one drilling (m)     |                        |               | 2.6                                          |
| Drilling diameter (mm)                |                        |               | φ43 ~ φ76                                    |
| Boom thruster compensation stroke (m) |                        |               | 1.25                                         |
| Boom thruster pitch angle (°)         |                        |               | Up 90/ Down 6                                |
| Track width (mm)                      |                        |               | 600                                          |
| Hydraulic pump displacement (ml/r)    |                        |               | 145+145                                      |
| Moving speed (m/min)                  |                        |               | 0 ~ 8.0                                      |
| Track width (mm)                      |                        |               | 600                                          |
| Undercover Depth (mm)                 |                        |               | 230                                          |
| Body Ground Clearance (mm)            |                        |               | 230                                          |
| Fuel tank volume (L)                  |                        |               | 600                                          |
| Ground pressure (MPa)                 |                        |               | 0.1                                          |

# SANY



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### Reminder:

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