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Continuing improvement and advancement of the design may cause changes to technical parameters of the truck that would without notice. The equipments may provide with truck which shown in the fig.
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www.sanyhe.com

The parameter above is only for reference, please make the object as the standard.

SANYI

ROADHEADER

www.sanyihe.com

FULL MECHANIZED PROFILE

SANYI Heavy Equipment CO.,LTD. engages industry of coal machine from the year of 2004, the first Roadheader successfully produced on Aug 2005.

Standard of internal quality control of Sany Roadheader is highly than level of similar industry. With the recognition of customer, Sany Roadheader has already became the leader of industry with more than 4000 units selling and occupied above 50% of market share and already been exported to Russia, Ukraine, Laos and Pakistan. etc.

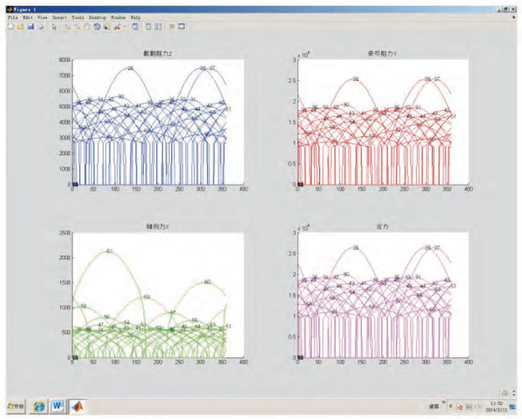
Roadheader's power of cutter is from 100kw to 418kw, hardness of cutting rock is from f4 to f10.

Applicable patent is 479 units, including 177 patent succeed. Our core technology is leading development of industry. The top level R&D team could provide high level solution to appreciated customer.

Introduce "industrial moulding design" to coal mining machinery.The patent received gold award in Geneva and China.
Patent No.: Z L 2 0 0 7 3 0 2 8 5 3 2 3 . 0
Strong driving power, high hydraulic system configuration and safe and intelligent electrical-control system providing high reliability and low failure rate.

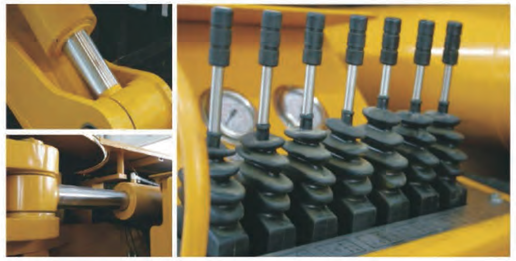
FIRST APPLICATION OF CENTRALIZED LUBRICATING SYSTEM IN CHINA, REALIZING AUTOMATICL UBRICATION

Reduce the malfunction caused by unbalance load.
Patent No.: I L 2 0 0 9 2 0 0 1 3 4 5 2 . 8



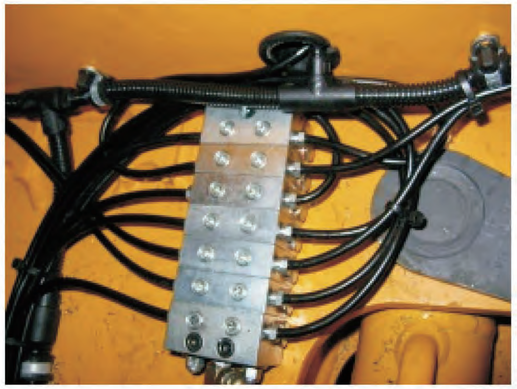
FIRST APPLICATION OF OPTIMIZED-DESIGNINC UTTINGH EADANDC UTTING PICK CONFIGURATION TECHNOLOGY IN THEINDUSTRY

Applied with high-efficiency rock breaking technology, loading technology, high-efficiency dust suppressing technology which solved the world-class problems in rock roadway excavating.
Self-developed optimized- design cutting head and cutting pick configuration technology, which increases the cutting capacity by 30% and rock-breaking capacity by 20%.



INDUSTRY-LEADING ROADHEADER HYDRAULIC SYSTEM LOAD-SENSITIVE VARIABLE PUMP

Low heat generation, efficient and stable.

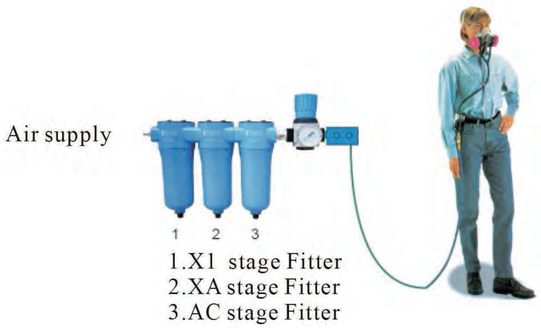


FIRST APPLICATION OF CENTRALIZED LUBRICATING SYSTEM IN CHINA

Realizing automatic lubrication.

FIRST INITIATIVE OF HIGH-EFFICIENCY DUST SUPPRESSION SYSTEM

High-efficiency dust suppression system, collection coefficient≥9 0 %,Product sold to many countries, total poputation over 3000 units.



FIRST APPLIED MINING DUST-PROOF BREATHING SYSTEM

Solve the dust hazard problem in operation of high-gas mines.

PRODUCT SPECTRUM

EBZ132 ..... 07/page
EBZ160 ..... 08/page
EBZ200 ..... 09/page
EBZ200H 10/page
EBZ260A 11/page
EBZ260D 12/page
EBZ318A 13/page

PRODUCT SPECTRUM

SCR520 ..... 14/page
SCR260 ..... 15/page
STR200H 16/page
STR260H 17/page

Cutting height from the stationary position		2.2～4.45m	Dimensions	Length	9.1m
Cutting width from the stationary position		3.3～5.0m		Width	1.Width of loading apron:2.6m 2.Width across tracks:2.23m 3.Body width:2.24m
Grade ability		±18°		Height	1.Body height:1.55m 2.Height with horizontal cutting head:1.90m 3.Height of cutting shield:1.85m
Maximum/economic cutting UCS		60/50MPa	Total weight		41.5t(Include second conveyor)
Adaptable roadway		Coal/Semi-coal	Power supply voltage		1140/660V
Undercut		290mm	Hydraulic pump motor power		75kW
Cutting motor power		132/75kW	Rated output power		218kW(Including second conveyor)
Rotate speed of cutting head/ telescoping capacity		47/23.5rpm /500mm	PH value of water supply		6～8
Loading mode		3-arm gathering star	Water pressure required		3～8MPa
Conveyor mode		Double exterior chain conveyor	Required/minimum cooling water consumption		100//min
Conveyor chain speed		61 m/min	Ground clearance		180mm
Dimension of maximum undetectable part (L × W × H)	Body frame	3.27×1.12×1.37m	Weight of maximum undetectable part		4200kg
	First conveyor front chute	3.79×0.69×0.59m			
	Rear support	2.13×1.58×0.87m			
Tramping speed		0-9 m/min	Track width		520mm
Rotation speed of gathering star		33rpm	Duplex hydraulic pump		145/145 ml/r
Loading capacity		3.2 m^3/min	Ground pressure		0.14MPa
Tank volume		500 L	Electrical control		SANYI control unit SYMC

Cutting height from the stationary position		2.2(Net roadway)～4.8m	Dimensions	Length	10.1m
Cutting width from the stationary position		3.5(Net roadway)～5.5 m		Width	1.Width of loading apron:3.0m 2.Width across tracks:2.4m 3.Body width:2.3m
Grade ability		±18°		Height	1.Body height:1.6m 2.Height with horizontal cutting head:1.9m 3.Height of cutting shield:1.81m
Maximum/economic cutting UCS		≤80/60MPa	Total weight		48t（Including second conveyor ）
Adaptable roadway		Coal/Semi-coal	Power supply voltage		1140/660V
Undercut		200mm	Hydraulic pump motor power		90kW
Cutting motor power		160/100kW	Rated output power		265kW（Including second conveyor）
Rotate speed of cutting head/ telescoping capacity		46/23rpm/550mm	PH value of water supply		6～8
Loading mode		3-arm gathering star	Water pressure required		3～8MPa
Conveyor mode		Double exterior chain conveyor	Required/minimum cooling water consumption		≥100/30L/min
Conveyor chain speed		61 m/min	Ground clearance		260mm
Dimension of maximum undetectable part (L × W × H)	Body frame	3.60×1.16×1.33m	Weight of maximum undetectable part		5400kg
	First conveyor front chute	4.20×0.72×0.56m			
	Rear support	1.21×2.28×1.10m			
Tramping speed		0～7/min	Track width		600mm
Rotation speed of gathering star		33rpm	Duplex hydraulic pump		145/145 ml/r
Loading capacity		3.5 m^3/min	Ground pressure		0.14MPa
Tank volume		500 L	Electrical control		SANYI control unit SYMC

Cutting height from the stationary position		2.5～5.2m	Dimensions	Length	10.6m
Cutting width from the stationary position		3.4～6.5m	Dimensions	Width	1.Width of loading apron:3.6m (Width of narrow loading apron:3.2m and 3m) 2.Width across tracks:2.6m 3.Body width:2.56m
Grade ability		±18°	Dimensions	Height	1.Body height:1.8m 2.Height with horizontal cutting head:2.3m 3.Height of cutting shield:2.2m
Maximum/economic cutting UCS		≤85/65MPa	Total weight		59t(Include second conveyor)
Adaptable roadway		Coal/Semi-coal	Power supply voltage		1140V
Undercut		400mm	Hydraulic pump motor power		110kW
Cutting motor power		200/110kW	Rated output power		325kW(Include second conveyor)
Rotate speed of cutting head/ telescoping capacity		46/23rpm/650mm	PH value of water supply		6～8
Loading mode		5-arm gathering star	Water pressure required		3～8MPa
Conveyor mode		Double exterior chain conveyor	Required/minimum cooling water consumption		≥100/30L/min
Conveyor chain speed		61 m/min	Ground clearance		170mm
Dimension of maximum undetectable part (L × W × H)	Body frame	3.13×1.39×1.5m	Weight of maximum undetectable part		6100kg
	First conveyor front chute	2.81×0.78×0.51m			
	Rear support	2.47×1.63×1.4m			
Tramping speed		0～8m/min	Track width		600mm
Rotation speed of gathering star		33rpm	Duplex hydraulic pump		145/145ml/r
Loading capacity		4m³/min	Ground pressure		0.14MPa
Tank volume		600 L	Electrical control		SANYI control unit SYMC

Cutting height from the stationary position	Arch roadway		3. 3～4.8m	Dimensions	Length	11. 5m
	Rectangular roadway	With duster	3. 3～4.8m	Dimensions	Width	1. Width of loading apron: 3. 6m (Width of narrow loading apron3m and 3. 2m) 2. Width across tracks:2. 7m
		Without duster	4. 8m			
Cutting width from the stationary position	With standard 3.6m loading apron		6m			
	With optional 3m loading apron		6m			
	With optional 3.2 loading apron		6m			
Grade ability			±18°	Dimensions	Height	1. Body height: 2.0m 2. Height with horizontal cutting head:2. 43m
Maximum/economic cutting UCS			≤ 90/65MPa	Total weight		86t(Including second conveyor and dust suppression system)
Adaptable roadway			Coal/Semi-coal/Rock	Power supply voltage		1140V
Undercut			200mm	Hydraulic pump motor power		132kW
Cutting motor power			200/150kW	Totol power		384kW (Including second conveyor and dust suppression system)
Rotate speed of cutting head			36.7rpm	PH value of water supply		6～8
Loading mode			6-arm gathering star	Water pressure required		3～8MPa
Conveyor mode			Double exterior chain conveyor	Required/minimum cooling water consumption		120/30L/min
Dimension of maximum undetectable part (L × W × H)			3. 68m×1. 39m×1. 47m	Weight of maximum undetectable part		8417kg
			3. 35m×0. 70m×0. 61m			
			2. 20m×1. 80m×1. 10m			
Tramping speed			0～6.5m/min	Track width		650mm
Rotation speed of gathering star			33rpm	Hydraulic pump		190/145/100 ml/r
Conveyor chain speed			54m/min	Ground pressure		0.16MPa
Tank volume			600L	Ground clearance		255mm

Cutting height from the stationary position	Arch roadway		3.3～5.1m	Dimensions	Length	12.4m
	Rectangular roadway	With duster	3.3～5.1m		Width	1.Width of loading apron:3.6m (Width of narrow loading apron:3m and 3.2m) 2.Width across tracks:2.62m
		Without duster	2.7～5.1m			
Cutting width from the stationary position	With standard 3.6m loading apron		4.2～6.2m			
	With optional 3m loading apron		3.6～6.2m			
	With optional 3.2 loading apron		3.8～6.2m			
Control mode			Manual (Wireless control optional)		Height	1.Body height:1.8m 2.Height with horizontal cutting head:2.45m
Grade ability			±18°			
Maximum/economic cutting UCS			≤100/70MPa	Total weight		100t(Including second conveyor and dust suppression system)
Adaptable roadway			Coal/Semi-coal/Rock	Power supply voltage		1140V
Undercut			200mm	Hydraulic pump motor power		160kW
Cutting motor power			280/230kW	Rated output power		472kW (Including second conveyor and dust suppression system)
Rotate speed of cutting head			55/27r/min	PH value of water supply		6～8
Loading mode			5-arm gathering star	Water pressure required		3～8MPa
Conveyor mode			Double exterior chain conveyor	Required/minimum cooling water consumption		120/30L/min
Dimension of maximum undetectable part (L × W × H)	Body frame		3.03m×1.4m×1.39m	Weight of maximum undetectable part		7690kg
	Front chute		3.35m×0.78m×0.6m			
	Motor tank		2.13m×1.8m×0.92m			
Tramping speed			0～6.5m/min	Track width		650mm
Rotation speed of gathering star			33r/min	hydraulic pump		190+145+145ml/r
Conveyor chain speed			66m/min	Ground pressure		0.16 MPa
Tank volume			900L	Ground clearance		228mm

Cutting height from the stationary position	Arch roadway	3.3～5.1m	Dimensions	Length	12 m
	Rectangular roadway	3.0～5.1m		Width	1.Width of loading apron:3.6m 2.Width across tracks:2.77m 3.Body width: 2.77m
Cutting width from the stationary position		4.2～7.05m			
Grade ability		-25°～+12°		Height	1.Body height: 2.03m 2.Height with horizontal cutting head:2.55m
Maximum/economic cutting UCS		≤90/70MPa	Total weight		91t(Including second conveyor and dust suppression system)
Adaptable roadway		Adaptable roadway: Coal/Semi-coal/Rock	Power supply voltage		1140V
Undercut		384mm	Hydraulic pump motor power		160kW
Cutting motor power		260/200kW	Rated output power		472kW (Including second conveyor and dust suppression system)
Rotate speed of cutting head		55/27r/min	PH value of water supply		6～8
Loading mode		5-arm gathering star	Water pressure required		3～8MPa
Conveyor mode		Double exterior chain conveyor	Required/minimum cooling water consumption		120/30L/min
Dimension of maximum undetectable part (L × W × H)	Front body frame	3.8×1.39×1.52m			
	Motor tank	2.12×1.78×1.00 m	Weight of maximum undetectable part		9000kg
	Chute of the first conveyor	3.77×0.78×0.52 m			
Tramping speed		0～6.5m/min	Track width		720mm
Rotation speed of gathering star		33r/min	Hydraulic pump		190/145/145 ml/r
Conveyor chain speed		66m/min	Ground pressure		0.163MPa
Tank volume		1100 L	Ground clearance		248mm

Positioning cutting height	Arched roadway		3. 6 m～5 . 46m	Overall Dimension	Length: 13. 1m
	Rectangle roadway	Equipped with deduster	3. 6 m～5. 46 m		
		Deduster Unavailable	3. 1 m～5. 46m		Width: 1. Width of shovel: 3.8m (The narrow shovel 3.4m is optional) 2. Width of outer side of both pedrails: 2.93m
Positioning cutting width	Standard shovel width: 3.8m		4. 4m～6. 81m		
	Optional shovel width:3.4m		4m～6. 81m		
Operation control mode			Standard manual (Wireless remote control is optional)		Height: 1. Body height: 2.2m 2. Top point height when cutting head placed horizontally: 2.7m
Grade ability			±18°		
Unilateral compressive strength of Max/suitable in cutting rock			110MPa	Weight of complete machine	128t (including the second conveyor system and deduster system)
Adaptable gateway character of roadheader			Coal tunnel Coal-rock tunnel, and rock tunnel	Power supply voltage	1140V
Dinting depth			220mm	Power of oil pump motor	200kW
Power of cutting motor			318kW	Rated output power	589kW (including the second conveyor System and deduster system)
Rotating speed of cutting head			31. 8r/min	Water pH value	6-8
Mode of loading			Five-tooth star wheel	Required water pressure supplied undermine	3MPa-8MPa
Mode of conveyor			Double lateral chain scraper	Required minimum of cooling water	120/30L/min
Max. dimension of undetachable part (Length ×width ×height)	Main body frame		3. 3m×1. 45m×1. 67m	Max weight of undetachable part	11500kg
	Front chute		4. 3m×0. 78m×0. 6m		
	Motor box		2. 3m×1. 8m×1. 14m		
Travel speed			0-6. 6/10m/min	Width of pedrail	720mm
Rotary speed of star wheel			33r/min	Hydraulic pump	260/190/145ml/r
Scraper chain speed			72m/min	Ground pressure	0. 17MPa
Volume of oil tank			1300L	Ground clearance	270mm

Positioning cutting height	4.2～6.57m	Overall dimensions	Length: 16.8m
Positioning cutting width	6～10m		
Total weight	168t		Width: 1.Width of shovel: 5.5m 2.Width between track: 4m
Ground pressure	0.17MPa		
Grade ability	-15°～+15°		Height: 1. Body height: 4.0m 2. Height with horizontal cutting head: 3.5m
unidirectional pressure resistance of rock	60MPa	Rate power	760kw
Supply power	1140V	Oil pump motor power	200kW（water-cooling motor）
Ground clearance	365mm(part)	Oil tank	1100L
Cutting head type	Double vertical axis	Hydraulic pump	190/145/145ml/r
Rotation speed of cutting head	36.7r/min	Conveyor type	Double exterior chain conveyor
Cutting motor power	2×260kW（water-cooling motor）	Motive power	37kW（water-cooling motor）
Loading type	5-arm gathering star	Conveyor speed	63m/min
Gathering star motor displacement of Shovel	2×3L/r（Hydraulic motor）	Tramping type	Crawler type
Gathering star rotation speed of Shovel	33r/min	Tramping speed	0～6.5m/min High speed 0～3.5m/min Low speed
Weight of largest non-removable part (Length*Width*Height)	2.53m×3.41m×1.45m	Tramping driving traction	2×450KN·m
Weight of maximum undetectable part	9.8t	Track width	850mm
Value of supply water	6～8	Minimum cooling water consumption	40L/min
Water supply pressure	1.5MPa～3MPa	Undercut	345mm

Positioning cutting height	Arched roadway		3.0 ～5.1m	Overall dimensions	Length: 11.88m
	Rectangular roadway	With duster	3.0～5.1m		Width: 1.Width of shovel: 3.6m (Width of narrow loading apron: 3m &3.2m) 2.Width between track: 2.62m 3. Body width: 2.6m
		Without duster	2.6 ～5.1m		
Positioning cutting width	With Standard 3.6m loading apron		4.2～6.15m		
	With optional 3m loading apron		3.6～6.15m		Height: 1. Body height:1.72m 2.Height with horizontal cutting head: 2.26m
	With Standard 3.2m loading apron		3.8～6.15m		
Grade ability			±18°	Total weight	89t(Including second conveyor & dust suppression system)
Max unidirectional pressure resistance of rock			100MPa	Supply power	1140V
Adaptable roadway			±18°	Oil pump motor power	132 kW
Undercut			100MPa	Rated output power	444kW (Including second conveyor &dust suppression system)
Cutting motor power			±18°		
Rotation speed of cutting head			100MPa	Value of supply water	6—8
Loading type			±18°	Required underground water supply pressure	3-8MPa
Type of conveyor			100MPa	Required/minimum cooling water consumption	120/30L/min
Weight of largest non-removable part (Length*Width*Height)			±18°	Weight of largest non-removable part (Body frame)	7800kg
			100MPa		
Tramping speed			100MPa	Track width	650mm
Rotation speed of gathering star			100MPa	Hydraulic pump	190+190+16ml/r
Conveyor speed			100MPa	Gound pressure	0.157 MPa
Tank volume			100MPa	Ground clearance	160mm

Positioning cutting height	3.3-4.9m		Overall dimensions: Length	14.28m
Positioning cutting width	4-6.2m		Width	Width of shovel:3.6m Width between tracks:2.6m
Grade ability	±16°		Height	
Unidirectional pressure resistance of rock	≤60MPa		Overall weight	71.4t
Surrounding rock classification	≤Ⅲ/Ⅳ		Supply voltage	1140V
Undercut	189mm		Oil pump motor power	132kW
Cutting power	200kW		Rated output power	387kW
loading type	5-arm gathering star		PH value of supply water	6—8
Type of conveyor	Double exterior chain conveyor		Required underground water supply pressure	3-8MPa
Ground clearance of body	185mm		Required/minimum cooling water consumption	≥100/60L/min
Weight of largest non-removable part	Body frame	4.02×1.81×1.62m	Weight of largest non-removable part (Body frame)	11t
			Loading height of dump truck	1.8m
			Depth of Truck	2.3m
Tramping speed	0～6.5m/min		Track width	650mm
Loading capacity	4 m³/min		Ground pressure	0.16MPa

Positioning cutting height	Arched roadway		3.5 ～5.1m	Overall dimensions	Length	11.89m
	Rectangular roadway	With duster	3.5～5.1m			
		Without duster	3.5 ～5.1m		Width	1.Width of shovel: 3.6m (Width of narrow loading apron: 3m &3.2m) 2.Width between track: 2.62m 3.Body width: 2.6m
Positioning cutting width	With Standard 3.6m loading apron		4.2～6.3m			
	With optional 3m loading apron		3.6～6.3m		Height	1. Body height:3.26m 2. Height with horizontal cutting head: 2.31m
	With Standard 3.2m loading apron		3.8～6.3m			
Grade ability			±16°	Total weight		80t
Max unidirectional pressure resistance of rock			≤80/60MPa	Supply power		1140V
Surrounding rock classification			Ⅲ～Ⅳ	Oil pump motor power		132 kW
Undercut			200mm	Rated output power		437 kW
Cutting power			260kW			
Rotate speed of cutting head			37r/min	Value of supply water		6—8
Loading type			5-arm gathering star	Required underground water supply pressure		3-8MPa
Type of conveyor			Double exterior chain conveyor	Required/minimum cooling water consumption		120/30L/min
Weight of largest non-removable part (Length*Width *Height)	Body Frame		3.03×1.4×1.39 m	Weight of largest non-removable part (Body frame)		6876kg
	First conveyor front chute		3.35×0.69×0.63m			
	Motor box size		2.24×1.82×0.92m	Loading height of dump truck: 1.8m		Depth of Truck: 2.5m
Tramping speed			0-6.5m/min	Track width		650mm
Rotation speed of gathering star			33r/min	Hydraulic pump		190+190+16ml/r
Conveyor speed			66m/min	Gound pressure		0.157MPa
Tank volume			750L	Ground clearance		200mm

ABUNDANT MODELS

Heavy grade, hard-rock, narrow and low machine type, 55kW～418kW drilling and loading multifunction.

LARGEST SALES VOLUME

Sales volume of roadheader is No. 1 since 2008 .

LOWEST CONSUMPTION

The lowest cutting pick consumption and maintenance cost in the similar equipment.

WIDEST ADAPTABILITY

Suitable for coal, semi-coal and rock roadway.

BEST STABILITY

Lowest failure rate in the industry.

HIGHEST CUTTING EFFICIENCY

Fastest tunnel development in the industry.