



ZOOMLION

YZ SERIES

Технические характеристики

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сайт: www.zoomlion.nt-rt.ru || эл. почта: znm@nt-rt.ru

Technical Performance Introduction of YZ18R Signal-Drum Vibratory Roller



YZ18R vibratory roller, as heavy-duty self-propelled roller, is used for high-quality earth compaction in large project. It's suitable for all kinds of foundation and compaction and widely used in high-level road, railway, airport, seaport, dam, surface mine etc.

YZ18R vibratory road roller is featured with full hydraulic, all-wheel drive, two-stage speed, dual-frequency, dual-amplitude, hinged turning, and all-closed cab. The main components and system are of top quality, good compaction, reliability, convenient handling, safety and comfortableness.

Main technical features:

- It is based on decades of scientific research, design experience and a number of national patents developed by Changsha Construction Machinery Research Institute.
- With large centrifugal force and amplitude, optimal vibrating parameters, good

effect of compaction, high construction efficiency.

- With all hydraulic, all-wheel drive, two-gear variable speed, double-frequency and double-amplitude.
- Braking of serve, parking and emergency is very safe.
- It adopts Deutz engine, Saue hydraulic pump and motor, FAG vibrating bearing, with high reliability.
- Cab shock absorber system adopts top Lord absorbing technology, increasing comfort of driving and riding.
- All closed A/C cab, electronic gear shifting, convenience and comfortable operation.
- With brand new streamline configuration, good view, convenient maintenance.

Selling point:

- with full hydraulic, all-wheel drive, double-frequency and double-amplitude.
- With large centrifugal force and amplitude, optimal vibrating parameters
- It Adopts imported high-level configuration of engine, hydraulic pump, motor, reducer and vibratory bearing.
- Multi-way and multi-point lubricating technology for drum could ensure bearing good and sufficient lubricating, prolonging the bearing life.
- Low-speed rotary sealing of drum could prolong the service life of seals, and therefore the drum service life.
- It adopts reinforced 4-bearing support, with good rigid.
- It adopts Germany FAG heavy-duty bearing, with long service life and perfect embodiment.

Main Technical Parameters of YZ18R Single-drum Vibratory Roller

| Item | Technical parameter | Unit |
|--------------------------------------|---------------------|------------------|
| Working temperature | -10 ~ 45 | ℃ |
| Working mass | 18200 | kg |
| Allocated mass, vibrating drum | 12000 | kg |
| Linear load, vibrating drum | 558 | N/cm |
| Diameter X width, vibrating drum | Φ1600 × 2150 | mm |
| Vibrating frequency | 29 / 35 | Hz |
| Centrifugal force | 370 / 270 | kN |
| Nominal amplitude | 2 / 0.9 | mm |
| Traveling speed | 0 ~ 5 / 0 ~ 10 | km/h |
| Engine | | |
| Model | BF6M1013EC | Dongfeng Cummins |
| Type | 水冷 | |
| Rated power | 148 | kW |
| Rated speed | 2300 | r/min |
| Diesel consumption | 216 | g/kW.h |
| Theoretical gradability | 45 | % |
| Theoretical turning radius (outside) | 6400 | mm |
| Min. ground clearance | 407 | mm |
| Steering angle | ± 35 | ° |
| Tilting between frame parts | ± 10 | ° |
| L x W x H | 6230*2400*3220 | mm |
| Diesel tank capacity | 465 | L |
| Hydraulic oil tank capacity | 117 | L |

YZ18RAII Hydraulic Vibratory Roller Assembly Configuration

| Name | Model | Number | Brand |
|--------------------|------------------------|--------|-----------------------|
| Engine | BF6M1013EC | 1 | Deutz |
| Traveling system | | 1 | Sauer |
| Vibrating system | | 1 | Sauer |
| Steering system | | 1 | Jining Eton |
| Rim | | 2 | Domestic famous brand |
| Wheel | 20. 5-25 | 2 | Domestic famous brand |
| Bearing, vibratory | NJ324 | 4 | FAG |
| Skeleton oil seals | BAUSLX2 240 × 270 × 15 | 1 | Freudenberg-Simrit |
| A/C | ZY27 | 1 | Domestic famous brand |

YZ18R Hydraulic System Configuration of All Hydraulic Vibratory Roller

| Name | Model | Number | Brand |
|----------------------------|-----------------|--------|-----------------------|
| Pump, traveling | 90R100 | 1 | Sauer |
| Pump, vibrating | 90R55 | 1 | Sauer |
| Drive motor, front drum | 51C060 | 1 | Sauer |
| Motor, rear axle driving | 51D110 | 1 | Sauer |
| Motor, vibrating | 90M55 | 1 | Sauer |
| Reducer, planet type | GFT36T3 | 1 | Rexroth |
| Pump, steering | CBWQ-F316-TFZL | 1 | Domestic famous brand |
| Hydraulic steering gear | BZZ-500 | 1 | Jining Eton |
| Valve block, steering gear | FKS16/20 | 1 | Jining Eton |
| Steering cylinder | HSGK01-100/50E | 2 | Domestic famous brand |
| Joint, testing pressure | SMK20-M12 × 1.5 | 7 | Stauff |

YZ18R Electrical System Configuration of All Hydraulic Vibratory Roller

| Name | Model | Number | Manufacturer | Origin |
|----------------|--------------|---------------|---------------------|---------------|
| Battery | GB | 2 | Varta | China |
| Switch | SA | 9 | TE | France |
| Indicator lamp | H | 12 | TE | France |
| Relay | KA | 5 | HELLA | Germany |
| Diesel level | P | 1 | Curtis | America |
| Voltage gauge | P | 1 | Curtis | America |
| Horn | HA1 | 1 | HELLA | Germany |
| Fuse | FU | 12 | HELLA | Germany |

Main Wearing Parts List of YZ18R All Hydraulic Vibratory Roller

| Index | Code | Name or description | Remarks |
|-------|---------------|--|---------|
| 1 | GB3452.1 - 82 | O-ring 10×1.8 | |
| 2 | GB3452.1 - 82 | O-ring 13.2×1.8 | |
| 3 | GB3452.1 - 82 | O-ring 20×1.8 | |
| 4 | GB3452.1 - 82 | O-ring 25×1.8 | |
| 5 | GB3452.1 - 82 | O-ring 18×2.65 | |
| 6 | GB3452.1 - 82 | O-ring 21.2×2.65 | |
| 7 | GB3452.1 - 82 | O-ring 53×2.65 | |
| 8 | GB3452.1 - 82 | O-ring 30×3.55 | |
| 9 | GB3452.1 - 82 | O-ring 50×3.55 | |
| 10 | | O-ring 20.3×2.4 | |
| 11 | | O-ring 24.99×3.53 | |
| 12 | | O-ring 32.92×3.53 | |
| 13 | JB982-77 | Combination gasket 12 | |
| 14 | JB982-77 | Combination gasket 14 | |
| 15 | JB982-77 | Combination gasket 18 | |
| 16 | JB982-77 | Combination gasket 22 | |
| 17 | JB982-77 | Combination gasket 27 | |
| 18 | JB982-77 | Combination gasket 33 | |
| 19 | JB982-77 | Combination gasket 42 | |
| 20 | YZ18.2.10 | Shock absorber, rectangle | |
| 21 | YZ18.2.9 | Shock absorber, circular | |
| 22 | TFX-250x80 | Oil absorption filter element, hydraulic oil | |
| 23 | WU-100x80-J | Oil absorption filter element, hydraulic oil | |
| 24 | 9700810 | Fine filter element, traveling pump | |
| 25 | 9700810 | Fine filter element, vibratory pump | |
| 26 | PL420X | Coarse filter element, diesel | |
| 27 | 1117050-D142 | Fine filter element, diesel | |
| 28 | 1012010-D142 | Oil filter | |

| | | | |
|----|--------------|------------------------------|--|
| 29 | 1308643-D851 | Fan belt | |
| 30 | 0216 5059 | Outer element of air cleaner | |
| 31 | 0414 4966 | Inner element of air cleaner | |

Packing List of YZ18R All Hydraulic Vibratory Roller

| Index | Name | Size | Number | Unit | Remark |
|----------------|---------------------------------|-----------|--------|-------|--|
| I Information | | | | | |
| 1 | Certificate of Product Approval | | 1 | | |
| 2 | Manual Instruction | | 1 | | |
| 3 | Parts Brochure | | 1 | | |
| 4 | Engine Operational Manual | | 1 | | |
| 5 | Key, cab | | 2 | Piece | |
| 6 | Key, starting engine | | 1 | Piece | |
| 7 | Key, battery | | 2 | Piece | |
| 8 | Key, fuel filler | | 2 | Piece | |
| 9 | Key, tool box | | 2 | Piece | |
| 10 | Bag, information | | 1 | Piece | Used for enclose the above books and information |
| II Tool | | | | | |
| 1 | Hexagon socket screw keys | 3-19 | 1 | Set | 9 pieces |
| 2 | Hexagon socket screw keys | 2 | 1 | Piece | |
| 3 | Fixed wrench | 7-32 | 1 | Set | 9 pieces |
| 4 | Fixed wrench | 41-46 | 1 | Piece | |
| 5 | Wrench, used for filter element | φ60-φ140 | 1 | Piece | |
| 6 | Cross screw driver | 150×7 | 1 | Piece | |
| 7 | Cross screw driver | 200×8 | 1 | Piece | |
| 8 | Screw driver | 150×7 | 1 | Piece | |
| 9 | Screw driver | 300×9 | 1 | Piece | |
| 10 | Adjustable wrench | 12" | 1 | Piece | |
| 11 | Combination pliers | 8" | 1 | Piece | |
| 12 | Hammer | 1.5 Pound | 1 | Piece | |
| 13 | Grease gun | 400 g | 1 | Piece | |
| III Spare part | | | | | |

| | | | | | |
|----------------|--|-----------------------|---|--|--|
| 1 | Filter element, hydraulic oil absorption | TFX-250×80 | 2 | | |
| 2 | Oil absorption filter element, hydraulic oil | WU-100×80-J | 1 | | |
| 3 | Fine filter element, diesel | 1117050-D142 | 1 | | |
| 4 | Oil filter | 1012010-D142 | 1 | | |
| 5 | Fuse | 8JS 711 690-002 (30A) | 1 | | |
| 6 | Fuse | 8JS 711 688-002 (20A) | 1 | | |
| 7 | Fuse | 8JS 711 686-002 (10A) | 2 | | |
| 8 | Fuse | 8JS 711 684-002 (5A) | 3 | | |
| IV Seals, 1set | | | | | |

YZ18R vibratory roller seals list

| Index | Code | Name or description | Number | Remarks |
|-------|---------------|-----------------------|--------|---------|
| 1 | GB3452.1 – 82 | O-ring 10×1.8 | 6 | |
| 2 | GB3452.1 – 82 | O-ring 13.2×1.8 | 12 | |
| 3 | GB3452.1 – 82 | O-ring 20×1.8 | 1 | |
| 4 | GB3452.1 – 82 | O-ring 25×1.8 | 1 | |
| 5 | GB3452.1 – 82 | O-ring 18×2.65 | 4 | |
| 6 | GB3452.1 – 82 | O-ring 21.2×2.65 | 8 | |
| 7 | GB3452.1 – 82 | O-ring 53×2.65 | 2 | |
| 8 | GB3452.1 – 82 | O-ring 30×3.55 | 8 | |
| 9 | GB3452.1 – 82 | O-ring 50×3.55 | 2 | |
| 10 | | O-ring 20.3×2.4 | 12 | |
| 11 | | O-ring 24.99×3.53 | 6 | |
| 12 | | O-ring 32.92×3.53 | 6 | |
| 13 | JB982-77 | Combination gasket 12 | 2 | |
| 14 | JB982-77 | Combination gasket 14 | 3 | |
| 15 | JB982-77 | Combination gasket 18 | 9 | |
| 16 | JB982-77 | Combination gasket 22 | 2 | |
| 17 | JB982-77 | Combination gasket 27 | 4 | |
| 18 | JB982-77 | Combination gasket 33 | 3 | |
| 19 | JB982-77 | Combination gasket 42 | 4 | |

Roller Technical Standards

1. PRC standard Vibratory Roller

Standard No. GB/T8511-2005

2. PRC standard Design Standard for the Isolating System of Vibratory Roller

Standard No. JG/T5076.1-1996

3. PRC standard Test Standard for the Isolating System of Vibratory Roller

Standard No. JG/T5076.2-1996

4. PRC standard General Requirement for Rollers

Standard No. GB/T13328-2005

5. PRC standard Earthmover Term and Commercial Specification for Roller and Landfill
Compactor

Standard No. GB/T7920.5-2003

6. Zoomlion Heavy Industry Science & Technology Development Co., Ltd Self-propelled
Vibratory Roller

Standard No. Q/QKAM 103007-2002

Technical Performance Introduction of YZ20-III single-drum Vibratory Roller



YZ20-III vibratory roller, as heavy-duty self-propelled roller, is used for high-quality earth compaction in large project. It's suitable for all kinds of foundation and compaction and widely used in high-level road, railway, airport, seaport, dam, surface mine etc.

YZ20-III vibratory roller is featured with full hydraulic, variable speed, single-driven, dual-frequency, dual-amplitude, hinged steering, and all-closed cab. The main components and system are of top quality, good compaction, reliability, convenient handling, safety and comfortableness.

Main technical features:

Aiming to overcome some outdated performance of mechanical vibratory roller, Zoomlion developed the economical and practical roller of all-hydraulic single-driven single-drum based on national conditions. The highlight features are: under the condition of slightly increasing the producing cost, increasing the performance of traveling and compacting and safety, reducing

the operator's labor intensity. It has the following advantages compared with mechanical vibratory roller:

1. Traveling system is of hydraulic driving to carry out variable speed and to increase performance of traveling and compacting.
2. There is no clutch and gear box. One handle could control the direction, speed and braking, reducing the driver's labor intensity. Therefore it is convenient and easy.
3. With hydraulic braking system, it is very portable and reliable, increasing safety.
4. Hydraulic traveling system is reliable and maintenance is convenient.
5. The producing cost is slightly higher than that of mechanical roller. Therefore it's economical.
6. Cab vibration absorber adopts top Lord vibration absorbing technology, increasing comfort of driving and riding.
7. With novelty and elegant appearance, the cab is inline with ergonomics, minimizing the driver's fatigue.

Selling point:

Adopts Dongfeng Cummins 6BTA5.9 supercharged diesel engine specially used for engineering machinery. It is featured with long service life, low fuel consumption, low noise, and reliability. The spare parts are economical. The maintenance service is timely and guaranteed. This engine is of competitive configuration of domestic roller.

Traveling system adopts USA Sauer high pressure pump and motor and is of high integrated level, small size and stable quality. Adopting closed static hydraulic drive could increase efficiency, reduce noise and realize the variable speed.

Vibrating system adopts USA Sauer high pressure pump and motor. Closed system, reliable element quality and succinct system could ensure the system reliability.

Dual-frequency and dual-amplitude optimize the compaction effect.

Steering system adopts Jinan Eton steering gear, domestic famous gear pump and steering cylinder. Optimal parameter matching and classical design could make the steering easy and free.

Vibrating drum features:

- 1) Unique roller design, special low-speed sealing structure, optimal reliability, prolonged

maintenance period.

2) Enforced three-axle four-support structure, high rigid, four heavy-duty bearings of world famous brand, prolonged service life (almost two times).

3) Multi-way and multi-point lubricating technology could ensure bearing good and sufficient lubricating, prolonging the bearing life.

4) Driving system of all-metal structure could improve the bearing use environment, because of reliable structure and good heat conduction.

5) Skeleton seals are imported from German Freudenberg.

Main Technical Parameters of YZ20-III Single-drum Vibratory Roller

| Item | Technical parameter | Unit |
|--------------------------------------|---------------------|------------------|
| Working temperature | -10 ~ 40 | ℃ |
| Working mass | -10 ~ 40 | kg |
| Allocated mass, vibrating drum | 9500 | kg |
| Linear load, vibrating drum | 433 | N/cm |
| Diameter X width, vibrating drum | Φ1560×2150 | mm |
| Vibrating frequency | 29/35 | Hz |
| Centrifugal force | 395/290 | kN |
| Nominal amplitude | 1.9 / 1.0 | mm |
| Traveling speed | 0 ~ 7.2 | km/h |
| Engine | | |
| Model | 6BTA5.9 | Dongfeng Cummins |
| Type | Water cooling | |
| Rated power | 132 | kW |
| Rated speed | 2200 | r/min |
| Diesel consumption | 227 | g/kW.h |
| Theoretical gradability | 32 | % |
| Theoretical turning radius (outside) | 6250 | mm |
| Min. ground clearance | 407 | mm |
| Steering angle | ±32 | ° |
| Tilting between frame parts | ±10 | ° |
| L x W x H | 5920*2400*3200 | mm |
| Diesel tank capacity | 400 | L |
| Hydraulic oil tank capacity | 130 | L |

YZ20-III All Hydraulic Vibratory Roller Assembly Configuration

| Name | Model | Number | Manufacturer | Origin |
|--------------------|--------------------|--------|-----------------------|-------------------------------|
| Engine | 6BTA5.9 | 1 | Dongfeng Cummins | Joint-venture of sino-America |
| Traveling system | | 1 | Sauer | Germany or USA |
| Vibrating system | | 1 | Sauer | Germany or USA |
| Steering system | | 1 | Jining Eton | Joint-venture of Sino-America |
| Drive axle | PS75.91B | 1 | Domestic famous brand | China |
| Rim | Z251720 | 2 | Domestic famous brand | China |
| Wheel | 20.5-25 | 2 | Domestic famous brand | China |
| Bearing, vibratory | NJ2320E | 2 | FAG | Germany |
| Bearing, vibratory | 22320ED | 2 | FAG | Germany |
| Skeleton oil seals | BAUSLX2 200×230×15 | 2 | Freudenberg Simrit | Germany |
| A/C(option) | ZY18D | 1 | Domestic famous brand | China |

YZ20-III Hydraulic System Configuration of All Hydraulic Vibratory Roller

| Name | Model | Number | Manufacturer | Brand |
|----------------------------|--------------------------------|--------|-----------------------|---------|
| Pump, traveling | 90R10 | 1 | Sauer | USA |
| Pump, vibrating | 90R055 | 1 | Sauer | USA |
| Motor, rear axle driving | PHM90 | 1 | Sauer | USA |
| Motor, vibrating | 90M055 | 1 | Sauer | USA |
| Pump, steering | CBT-F420-ALX | 1 | Domestic famous brand | China |
| Hydraulic steering gear | BZZ-500 530-1389 | 1 | Jining Eton | China |
| Valve block, steering gear | FKS16/20 850-1564 | 1 | Jining Eton | China |
| Steering cylinder | HSGK02-90/45E-250 1-265X622 | 2 | Domestic famous brand | China |
| Joint, testing pressure | SMK20-M12×1.5 | 7 | Stauff | Germany |

YZ20-III Electrical System Configuration of All Hydraulic Vibratory Roller

| Name | Model | Number | Manufacturer | Brand |
|------------------------------------|--------|--------|---|---------|
| Battery | GB | 2 | Vbrtb(domestic famous brand) | China |
| Motor, staring | M1 | 1 | Dengfeng Automobile Diesel Engine Company | China |
| Generator | G | 1 | Dengfeng Automobile Diesel Engine Company | China |
| Main switch, power supply | SA1 | 1 | Hubei Auto-electric Factory | China |
| Electrical switch | SA | 8 | Shanghai Second Electrical Factory | China |
| Switch, wiper | SA | 1 | South Korea Hanrong Company | China |
| Oil pressure gauge | P | 1 | Dengfeng Automobile Diesel Engine Company | China |
| Oil temperature gauge | P | 1 | Dengfeng Automobile Diesel Engine Company | China |
| Oil pressure sensor | B | 1 | Dengfeng Automobile Diesel Engine Company | China |
| Oil temperature sensor | B | 1 | Dengfeng Automobile Diesel Engine Company | China |
| Solenoid valve, parking, generator | YV | 1 | Dengfeng Automobile Diesel Engine Company | China |
| Starting switch | SA | 1 | Schneider-eletric.cn | France |
| Fuel level gauge | P | 1 | BAIC motor | China |
| Fuel level sensor | KA | 1 | BAIC motor | China |
| Relay, generator | KA | 1 | Hubei Auto-electric Factory | China |
| Wiper | ZD2530 | 1 | Shantou Dongxing Bus Spare Part company | China |
| Fuse | FU | 10 | HELLA | Germany |
| Lamp, warning | H | 4 | Shanghai Second electrical factory | China |

Vehicle tools and accessory list of All Hydraulic Vibratory Roller

| Index | Name | Size | Number | Unit | Remarks |
|-------|--------------------------------------|-------------|---------------|-------|------------------|
| 1 | Hexagon socket screw keys (9 pieces) | 3-19 | 1 | set | |
| 2 | Fixed wrench (9 pieces) | 5.5-32 | 1 | set | |
| 3 | Fixed wrench | 41-46 | 1 | piece | |
| 4 | Cross screw driver | 150×6 | 1 | piece | |
| 5 | Cross screw driver | 200×8 | 1 | piece | |
| 6 | Screw driver | 150×6 | 1 | piece | |
| 7 | Screw driver | 300×9 | 1 | piece | |
| 8 | Adjustable wrench | 450mm | 1 | piece | |
| 9 | Combination pliers | 8" | 1 | piece | |
| 10 | Hammer | 1.5 Pound | 1 | piece | |
| 11 | Grease gun | 400 g | 1 | piece | |
| 12 | Open/ flower wrench | 13,16,18,21 | One each type | piece | |
| 13 | Bend | | 1 | piece | |
| 14 | Filer element, hydraulic oil suction | TFX-250X80 | 2 | piece | |
| 15 | Diesel filter | FF5052 | 1 | piece | |
| 16 | Oil filter | LF3349 | 1 | piece | |
| 17 | Fan belt | A3911562 | 1 | piece | Used for 6BTA5.9 |

Main Wearing Parts List of YZ20-III All Hydraulic Vibratory Roller

| Index | Code | Name or description | Material | remarks |
|-------|------------------------|--|-------------------------|---------|
| 1 | GB3452.1-82 | O-ring 8×1.8 | Rubber I-4 | |
| 2 | GB3452.1-82 | O-ring 10×1.8 | Rubber I-4 | |
| 3 | GB3452.1-82 | O-ring 13.2×1.8 | Rubber I-4 | |
| 4 | GB3452.1-82 | O-ring 21.2×2.65 | Rubber I-4 | |
| 5 | GB3452.1-82 | O-ring 23.6×2.65 | Rubber I-4 | |
| 6 | GB3452.1-82 | O-ring 30×3.55 | Rubber I-4 | |
| 7 | GB3452.1-82 | O-ring 32.5×3.55 | Rubber I-4 | |
| 8 | GB3452.1-82 | O-ring 45×2.65 | Rubber I-4 | |
| 9 | GB3452.1-82 | O-ring 50×3.55 | Rubber I-4 | |
| 10 | GB3452.1-82 | O-ring 60×3.55 | Rubber I-4 | |
| 11 | JB982-77 | Combination gasket 14 | | |
| 12 | JB982-77 | Combination gasket 18 | | |
| 13 | JB982-77 | Combination gasket 22 | | |
| 14 | JB982-77 | Combination gasket 27 | | |
| 15 | JB982-77 | Combination gasket 33 | | |
| 16 | JB982-77 | Combination gasket 42 | | |
| 17 | ZX-250×80 | Filter element, hydraulic oil absorption | | |
| 18 | 02601380 Or 9700810 | Fine filter element, traveling pump | | |
| 19 | 02601382 Or 9700810 | Fine filter element, vibrating pump | | |
| 20 | 1117N-010 | Fuel filter | | FF5052 |
| 21 | 1125N-010 | Fuel filter with oil-water separator | | |
| 22 | 1012N-010 | Oil filter | | LF3349 |
| 23 | A3911562 | Fan belt | | |
| 24 | GHC-311B | Shock, absorber, cab | | |
| 25 | YZ18D.2-3 | Shock absorber, rectangle | Prepared by Zoomlian | |

Packing List of YZ20-III All Hydraulic Vibratory Roller

| Index | Name | Size | Number | Unit | Remark |
|----------------|--|-------------|---------------------|-------|--|
| I Information | | | | | |
| 1 | Certificate of Product Approval | | 1 | | |
| 2 | Manual Instruction | | 1 | | |
| 3 | Parts Brochure | | 1 | | |
| 4 | Dongfeng Cummins Spare parts bag | 6BTA5.9 | 1 | | |
| 5 | Key, cab | | 2 | Piece | |
| 6 | Key, starting engine | | 2 | Piece | |
| 7 | Key, battery | | 2 | Piece | |
| 8 | Key, tool box | | 2 | Piece | |
| 9 | Bag, information | | 1 | Piece | Used for enclose the above books and information |
| II Tool | | | | | |
| 1 | Hexagon socket screw keys (9 pieces) | 3-19 | 1 | Set | |
| 2 | Fixed wrench (9 pieces) | 5.5-32 | 1 | Set | |
| 3 | Fixed wrench | 41-46 | 1 | Piece | |
| 4 | Cross screw driver | 150×6 | 1 | Piece | |
| 5 | Cross screw driver | 200×8 | 1 | Piece | |
| 6 | Screw driver | 150×6 | 1 | Piece | |
| 7 | Screw driver | 300×9 | 1 | Piece | |
| 8 | Adjustable wrench | 450mm | 1 | Piece | |
| 9 | Combination pliers | 8" | 1 | Piece | |
| 10 | Hammer | 1.5 Pound | 1 | Piece | |
| 11 | Grease gun | 400 g | 1 | Piece | |
| 12 | Open/flower wrench | 13、16、18、21 | One piece each type | Piece | |
| 13 | Bend | | | | |
| III Spare part | | | | | |
| 1 | Filter element, hydraulic oil absorption | ZX-250X80 | 2 | | |

| | | | | | |
|--|---------------|----------|---|--|------------------|
| 2 | Diesel filter | FF5052 | 1 | | |
| 3 | Oil filter | LF3349 | | | |
| 4 | Fan belt | A3911562 | | | Used for 6BTA5.9 |
| IV seals, 1set (please see the attachment) | | | | | |
| V Size, toolbox 502X282X305 mm (L x W x H) | | | | | |

YZ20-III seals summery sheet

| Index | Code | Name or size | Material | Number | remarks |
|-------|-------------|-----------------------|------------|--------|---------|
| 1 | GB3452.1-82 | O-ring 8×1.8 | Rubber I-4 | 2 | |
| 2 | GB3452.1-82 | O-ring 10×1.8 | Rubber I-4 | 6 | |
| 3 | GB3452.1-82 | O-ring 13.2×1.8 | Rubber I-4 | 18 | |
| 4 | GB3452.1-82 | O-ring 20×1.8 | Rubber I-4 | 1 | |
| 5 | GB3452.1-82 | O-ring 21.2×2.65 | Rubber I-4 | 2 | |
| 6 | GB3452.1-82 | O-ring23.6×2.65 | Rubber I-4 | 10 | |
| 7 | GB3452.1-82 | O-ring25×1.8 | Rubber I-4 | 1 | |
| 8 | GB3452.1-82 | O-ring30×3.55 | Rubber I-4 | 8 | |
| 9 | GB3452.1-82 | O-ring32.5×3.55 | Rubber I-4 | 4 | |
| 10 | GB3452.1-82 | O-ring45×2.65 | Rubber I-4 | 1 | |
| 11 | GB3452.1-82 | O-ring50×3.55 | Rubber I-4 | 1 | |
| 12 | GB3452.1-82 | O-ring60×3.55 | Rubber I-4 | 1 | |
| 13 | JB982-77 | Combination gasket 14 | | 3 | |
| 14 | JB982-77 | Combination gasket 18 | | 7 | |
| 15 | JB982-77 | Combination gasket 22 | | 7 | |
| 16 | JB982-77 | Combination gasket 27 | | 2 | |
| 17 | JB982-77 | Combination gasket 33 | | 6 | |
| 18 | JB982-77 | Combination gasket 42 | | 1 | |

Roller Technical Standards

1. PRC standard Vibratory Roller

Standard No. GB/T8511-2005

2. PRC standard Design Standard for the Isolating System of Vibratory Roller

Standard No. JG/T5076.1-1996

3. PRC standard Test Standard for the Isolating System of Vibratory Roller

Standard No. JG/T5076.2-1996

4. PRC standard General Requirement for Rollers

Standard No. GB/T13328-2005

5. PRC standard Earthmover Term and Commercial Specification for Roller and Landfill Compactor

Standard No. GB/T7920.5-2003

6. Zoomlion Heavy Industry Science & Technology Development Co., Ltd Self-propelled Vibratory Roller

Standard No. Q/QKAM 103007-2002

Comparison Table for Roller Performance of Mechanical and all Hydraulic

| Comparison Item | | All-hydraulic single-driven roller | Mechanical single-driven roller |
|---------------------------|------------------------------|---|---|
| Traveling system | Speed change type | Variable speed | Step speed |
| | Control type | Do not need clutch, gear shift, foot brake | Need clutch, gear shift, foot brake |
| | Reliability | There no clutch, transmission, transfer case etc. high reliability | There no clutch, transmission, transfer case etc. Failures will easily occur. Maintenance is needed. |
| Braking system | | Hydraulic braking, high reliability | Mechanical braking, poor reliability |
| Vibrating | | PTO from the flywheel end, simple structure | PTO from the fan, complex structure |
| Compacting effect | Effective compacting mass | 50 % of total weight | 40 % of total weight |
| | Centrifugal force | Increasing by 20% than that of mechanical roller | poor |
| Cab and appearance | | A few handles in cab, logical layout, spacious and comfortable, novelty appearance, wide view | Too much handles and foot pedals, crowd layout, rough appearance |
| Operating comfortableness | | Good | Poor |
| Price | | Almost equal with the other. | Lower |

Technical Performance Introduction of YZ20R Signal-Drum Vibratory Roller

YZ20R vibratory roller, as heavy-duty self-propelled roller, is used for high-quality earth compaction in large project. It's suitable for all kinds of foundation and compaction and widely used in high-level road, railway, airport, seaport, dam, surface mine etc.

YZ20R vibratory road roller is featured with full hydraulic, all-wheel drive, two-stage speed, dual-frequency, dual-amplitude, hinged turning, and all-closed cab. The main components and system are of top quality, good compaction, reliability, convenient handling, safety and comfortableness.

Main technical features:

- It is based on decades of scientific research, design experience and a number of national patents developed by Changsha Construction Machinery Research Institute.
- With large centrifugal force and amplitude, optimal vibrating parameters, good effect of compaction, high construction efficiency.
- With all hydraulic, all-wheel drive, two-gear variable speed, double-frequency and double-amplitude.
- Braking of serve, parking and emergency is very safe.
- It adopts Deutz engine, Saue hydraulic pump and motor, FAG vibrating bearing, with high reliability.
- Cab shock absorber system adopts top Lord absorbing technology, increasing comfort of driving and riding.
- All closed A/C cab, electronic gear shifting, convenience and comfortable operation.
- With brand new streamline configuration, good view, convenient maintenance.

Selling point:

- with full hydraulic, all-wheel drive, double-frequency and double-amplitude.
- With large centrifugal force and amplitude, optimal vibrating parameters

- It Adopts imported high-level configuration of engine, hydraulic pump, motor, reducer and vibratory bearing.
- Multi-way and multi-point lubricating technology for drum could ensure bearing good and sufficient lubricating, prolonging the bearing life.
- Low-speed rotary sealing of drum could prolong the service life of seals, and therefore the drum service life.
- It adopts reinforced 4-bearing support, with good rigid.
- It adopts Germany FAG heavy-duty bearing, with long service life and perfect embodiment.

Main Technical Parameters of YZ20R Single-drum Vibratory Roller

| Item | Technical parameter | Unit |
|--------------------------------------|---------------------|--------|
| Working temperature | -10 ~ 45 | ℃ |
| Working mass | 20000 | kg |
| Allocated mass, vibrating drum | 12600 | kg |
| Linear load, vibrating drum | 574 | N/cm |
| Diameter X width, vibrating drum | Φ1600 × 2150 | mm |
| Vibrating frequency | 29 / 35 | Hz |
| Centrifugal force | 400 / 280 | kN |
| Nominal amplitude | 2 / 0.9 | mm |
| Traveling speed | 0 ~ 5 / 0 ~ 10 | km/h |
| Engine | | |
| Model | BF6M1013EC | |
| Emission standard | Euro II | |
| Type | Water cooling | |
| Rated speed | 2300 | r/min |
| Diesel consumption | 201 | g/kW.h |
| Theoretical gradability | 42 | % |
| Theoretical turning radius (outside) | 6400 | mm |
| Min. ground clearance | 407 | mm |
| Steering angle | ± 35 | ° |
| Tilting between frame parts | ± 10 | ° |
| L x W x H | 6200*2400*3220 | mm |
| Diesel tank capacity | 410 | L |
| Hydraulic oil tank capacity | 117 | L |

YZ20RAII Hydraulic Vibratory Roller Assembly Configuration

| Name | Model | Number | Brand |
|--------------------|--------------------|--------|-----------------------|
| Engine | BF6M1013EC | 1 | Deutz |
| Traveling system | | 1 | Sauer |
| Vibrating system | | 1 | Sauer |
| Steering system | | 1 | Jining Eton |
| Rim | | 2 | Domestic famous brand |
| Wheel | 20.5-25 | 2 | Domestic famous brand |
| Bearing, vibratory | NJ324 | 4 | FAG |
| Skeleton oil seals | BAUSLX2 240×270×15 | 1 | Freudenberg-Simrit |
| A/C | | 1 | Domestic famous brand |

YZ20R Hydraulic System Configuration of All Hydraulic Vibratory Roller

| Name | Model | Number | Brand |
|----------------------------|-----------------|--------|-------------|
| Pump, traveling | 90R100 | 1 | Sauer |
| Pump, vibrating | 90R055 | 1 | Sauer |
| Drive motor, front drum | 51C060 | 1 | Sauer |
| Motor, rear axle driving | 51D110 | 1 | Sauer |
| Motor, vibrating | 90M055 | 1 | Sauer |
| Reducer, planet type | CTU3300 | 1 | Brevini |
| Pump, steering | CBWQ-F316-TFZL | 1 | |
| Hydraulic steering gear | BZZ-500 | 1 | Jining Eton |
| Valve block, steering gear | FKS16/20 | 1 | Jining Eton |
| Steering cylinder | HSGK01-100/50E | 2 | |
| Joint, testing pressure | SMK20-M12 × 1.5 | 7 | Stauff |

YZ20R Electrical System Configuration of All Hydraulic Vibratory Roller

| Name | Model | Number | Manufacturer | Origin |
|----------------|--------------|---------------|---------------------|---------------|
| Battery | GB | 2 | Varta | China |
| Switch | SA | 9 | TE | France |
| Indicator lamp | H | 12 | TE | France |
| Relay | KA | 5 | HELLA | Germany |
| Diesel level | P | 1 | Curtis | America |
| Voltage gauge | P | 1 | Curtis | America |
| Horn | HA1 | 1 | HELLA | Germany |
| Fuse | FU | 12 | HELLA | Germany |

Main Wearing Parts List of YZ20R All Hydraulic Vibratory Roller

| Index | Code | Name or description | Remarks |
|-------|---------------|--|---------|
| 1 | GB3452.1 - 82 | O-ring 10×1.8 | |
| 2 | GB3452.1 - 82 | O-ring 13.2×1.8 | |
| 3 | GB3452.1 - 82 | O-ring 20×1.8 | |
| 4 | GB3452.1 - 82 | O-ring 25×1.8 | |
| 5 | GB3452.1 - 82 | O-ring 18×2.65 | |
| 6 | GB3452.1 - 82 | O-ring 21.2×2.65 | |
| 7 | GB3452.1 - 82 | O-ring 53×2.65 | |
| 8 | GB3452.1 - 82 | O-ring 30×3.55 | |
| 9 | GB3452.1 - 82 | O-ring 50×3.55 | |
| 10 | | O-ring 20.3×2.4 | |
| 11 | | O-ring 24.99×3.53 | |
| 12 | | O-ring 32.92×3.53 | |
| 13 | JB982-77 | Combination gasket 12 | |
| 14 | JB982-77 | Combination gasket 14 | |
| 15 | JB982-77 | Combination gasket 18 | |
| 16 | JB982-77 | Combination gasket 22 | |
| 17 | JB982-77 | Combination gasket 27 | |
| 18 | JB982-77 | Combination gasket 33 | |
| 19 | JB982-77 | Combination gasket 42 | |
| 20 | YZ18.2.10 | Shock absorber, rectangle | |
| 21 | YZ18.2.9 | Shock absorber, circular | |
| 22 | TFX-250x80 | Oil absorption filter element, hydraulic oil | |
| 23 | WU-100x80-J | Oil absorption filter element, hydraulic oil | |
| 24 | 9700810 | Fine filter element, traveling pump | |
| 25 | 9700810 | Fine filter element, vibratory pump | |
| 26 | PL420X | Coarse filter element, diesel | |
| 27 | 1117050-D142 | Fine filter element, diesel | |
| 28 | 1012010-D142 | Oil filter | |

| | | | |
|----|--------------|------------------------------|--|
| 29 | 1308643-D851 | Fan belt | |
| 30 | 0216 5059 | Outer element of air cleaner | |
| 31 | 0414 4966 | Inner element of air cleaner | |

Packing List of YZ20R All Hydraulic Vibratory Roller

| Index | Name | Size | Number | Unit | Remark |
|----------------|---------------------------------|-----------|--------|-------|--|
| I Information | | | | | |
| 1 | Certificate of Product Approval | | 1 | | |
| 2 | Manual Instruction | | 1 | | |
| 3 | Parts Brochure | | 1 | | |
| 4 | Engine Operational Manual | | 1 | | |
| 5 | Key, cab | | 2 | Piece | |
| 6 | Key, starting engine | | 1 | Piece | |
| 7 | Key, battery | | 2 | Piece | |
| 8 | Key, fuel filler | | 2 | Piece | |
| 9 | Key, tool box | | 2 | Piece | |
| 10 | Bag, information | | 1 | Piece | Used for enclose the above books and information |
| II Tool | | | | | |
| 1 | Hexagon socket screw keys | 3-19 | 1 | Set | 9 pieces |
| 2 | Hexagon socket screw keys | 2 | 1 | Piece | |
| 3 | Fixed wrench | 7-32 | 1 | Set | 9 pieces |
| 4 | Fixed wrench | 41-46 | 1 | Piece | |
| 5 | Wrench, used for filter element | φ60-φ140 | 1 | Piece | |
| 6 | Cross screw driver | 150×7 | 1 | Piece | |
| 7 | Cross screw driver | 200×8 | 1 | Piece | |
| 8 | Screw driver | 150×7 | 1 | Piece | |
| 9 | Screw driver | 300×9 | 1 | Piece | |
| 10 | Adjustable wrench | 12" | 1 | Piece | |
| 11 | Combination pliers | 8" | 1 | Piece | |
| 12 | Hammer | 1.5 Pound | 1 | Piece | |
| 13 | Grease gun | 400 g | 1 | Piece | |
| III Spare part | | | | | |

| | | | | | |
|----------------|--|-----------------------|---|--|--|
| 1 | Filter element, hydraulic oil absorption | TFX-250×80 | 2 | | |
| 2 | Oil absorption filter element, hydraulic oil | WU-100×80-J | 1 | | |
| 3 | Fine filter element, diesel | 1117050-D142 | 1 | | |
| 4 | Oil filter | 1012010-D142 | 1 | | |
| 5 | Fuse | 8JS 711 690-002 (30A) | 1 | | |
| 6 | Fuse | 8JS 711 688-002 (20A) | 1 | | |
| 7 | Fuse | 8JS 711 686-002 (10A) | 2 | | |
| 8 | Fuse | 8JS 711 684-002 (5A) | 3 | | |
| IV Seals, 1set | | | | | |

YZ20R vibratory roller seals list

| Index | Code | Name or description | Number | Remarks |
|-------|---------------|-----------------------|--------|---------|
| 1 | GB3452.1 - 82 | O-ring 10×1.8 | 6 | |
| 2 | GB3452.1 - 82 | O-ring 13.2×1.8 | 12 | |
| 3 | GB3452.1 - 82 | O-ring 20×1.8 | 1 | |
| 4 | GB3452.1 - 82 | O-ring 25×1.8 | 1 | |
| 5 | GB3452.1 - 82 | O-ring 18×2.65 | 4 | |
| 6 | GB3452.1 - 82 | O-ring 21.2×2.65 | 8 | |
| 7 | GB3452.1 - 82 | O-ring 53×2.65 | 2 | |
| 8 | GB3452.1 - 82 | O-ring 30×3.55 | 8 | |
| 9 | GB3452.1 - 82 | O-ring 50×3.55 | 2 | |
| 10 | | O-ring 20.3×2.4 | 12 | |
| 11 | | O-ring 24.99×3.53 | 6 | |
| 12 | | O-ring 32.92×3.53 | 6 | |
| 13 | JB982-77 | Combination gasket 12 | 2 | |
| 14 | JB982-77 | Combination gasket 14 | 3 | |
| 15 | JB982-77 | Combination gasket 18 | 9 | |
| 16 | JB982-77 | Combination gasket 22 | 2 | |
| 17 | JB982-77 | Combination gasket 27 | 4 | |
| 18 | JB982-77 | Combination gasket 33 | 3 | |
| 19 | JB982-77 | Combination gasket 42 | 4 | |

Roller Technical Standards

1. PRC standard Vibratory Roller

Standard No. GB/T8511-2005

2. PRC standard Design Standard for the Isolating System of Vibratory Roller

Standard No. JG/T5076.1-1996

3. PRC standard Test Standard for the Isolating System of Vibratory Roller

Standard No. JG/T5076.2-1996

4. PRC standard General Requirement for Rollers

Standard No. GB/T13328-2005

5. PRC standard Earthmover Term and Commercial Specification for Roller and Landfill
Compactor

Standard No. GB/T7920.5-2003

6. Zoomlion Heavy Industry Science & Technology Development Co., Ltd Self-propelled
Vibratory Roller

Standard No. Q/QKAM 103007-2002

Technical Performance Introduction of YZ25C Single-Drum Vibratory Roller



YZ25C vibratory roller, as heavy-duty self-propelled roller, is used for high-quality earth compaction in large project. It's suitable for all kinds of foundation and compaction and widely used in high-level road, railway, airport, seaport, dam, surface mine etc.

YZ25C vibratory road roller is featured with full hydraulic, all-wheel drive, two-stage speed, dual-frequency, dual-amplitude, hinged turning, and all-closed cab. The main components and system are of top quality, good compaction, reliability, convenient handling, safety and comfortableness.

Main technical features:

- Based on decades of scientific research, design experience and a number of national patents developed by Changsha Construction Machinery Research Institute.
- Large centrifugal force and amplitude, optimal vibrating parameters matching, good

effect of compaction, high construction efficiency.

- Full hydraulic, all-wheel drive, two-gear variable speed, double-frequency and double-amplitude.
- Braking of serve, parking and emergency is very safe.
- Adopts Deutz engine, Saue or Rexroth hydraulic pump and motor, FAG or SKF vibratory bearing, with high reliability.
- Engine meets Euro II emission standard, with good environmental protection.
- Shock absorber system adopts top Lord absorbing technology, increasing comfortableness of driving and riding.
- All closed A/C cab, electronic –control gear shifting, convenience and comfortable operation.
- Brand new streamline configuration, good view, convenient maintenance.

Selling point:

- Full hydraulic, all-wheel drive, double-frequency and double-amplitude.
- Large centrifugal force and amplitude, optimal vibrating parameters
- Adopts imported high-level configuration of engine, hydraulic pump, motor, reducer and vibratory bearing.
- Multi-way and multi-point lubricating technology for the drum could ensure bearing good and sufficient lubricating, prolonging the bearing life.
- Low-speed rotary sealing for drum could prolong the service life of seals, and therefore the drum service life.
- Adopts reinforced 4-bearing support, with good rigid.
- Adopts Germany FAG or Sweden SKF heavy-duty bearing, with long service life and perfect embodiment.
- Adopts imported rubber shock absorber to prolong the service life greatly and comfort the driving.

Main Technical Parameters of YZ25C Single-drum Vibratory Roller

| Item | Technical parameter | Unit |
|--------------------------------------|---------------------|--------|
| Working temperature | -10 ~ 45 | ℃ |
| Working mass | 25000 | kg |
| Module mass on drum | 16000 | kg |
| Linear load on drum | 729 | N/cm |
| Diameter X width, vibrating drum | Φ1600×2150 | mm |
| Vibrating frequency | 28 / 32 | Hz |
| Centrifugal force | 430 / 280 | kN |
| Nominal amplitude | 2.1 / 1.1 | mm |
| Traveling speed | 0 ~ 4.5 / 0 ~ 10 | km/h |
| | | |
| Engine Model | BF6M1013ECP | |
| Type | water cooling | |
| Emission standard | Euro II | |
| Rated power | 176 | kW |
| Rated speed | 2300 | r/min |
| Fuel consumption | 201 | g/kW.h |
| Theoretical gradability | 45 | % |
| Theoretical turning radius (outside) | 6400 | mm |
| Min. ground clearance | 407 | mm |
| Steering angle | ±35 | ° |
| Tilting between frame parts | ±10 | ° |
| L x W x H | 6310*2480*3270 | mm |
| Diesel tank capacity | 410 | L |
| Hydraulic oil tank capacity | 117 | L |

YZ25C Full hydraulic vibratory roller assembly configuration table

| Name | Model | Number | Brand |
|--------------------|-----------------------|--------|-----------------------|
| Engine | BF6M1013ECP | 1 | Deutz |
| Traveling system | | 1 | Rexroth or Saue |
| Vibrating system | | 1 | Rexroth or Saue |
| Steering system | | 1 | Jining Eton |
| Rim | | 2 | Domestic famous brand |
| Wheel | 20.5-25 | 2 | Domestic famous brand |
| Bearing, vibratory | NJ324 | 4 | FAG |
| Skeleton oil seals | BAUSLX2 240×270×15 | 1 | Freudenberg-Simrit |
| A/C | ZY27 | 1 | Domestic famous brand |

YZ25C Full hydraulic vibratory roller hydraulic system configuration table

| Name | Model | Number | Manufacturer |
|----------------------------|-------------------|--------|-----------------|
| Pump, traveling | A4VG90 or 90R100 | 1 | Rexroth or Saue |
| Pump, vibrating | A4VG71 or 90R75 | 1 | Rexroth or Saue |
| Drive motor, front drum | A6VE80 or 51C080 | 1 | Rexroth or Saue |
| Motor, rear axle driving | A6VM107 or 51D110 | 1 | Rexroth or Saue |
| Motor, vibrating | AA2FM80 or 90M75 | 1 | Rexroth or Saue |
| Reducer, planet type | GFT60T3 | 1 | Rexroth |
| Pump, steering | CBWa-F316-TFZL | 1 | |
| Hydraulic steering gear | BZZ-500 | 1 | Jining Eton |
| Valve block, steering gear | FKS16/20 | 1 | Jining Eton |
| Steering cylinder | HSGK01-100/50E | 2 | |
| Joint, testing pressure | SMK20-M12×1.5 | 7 | Stauff |

YZ25C single-drum vibratory roller electrical system configuration table

| Name | Model | Number | Manufacturer | Origin |
|----------------|--------------|---------------|---------------------|-----------------------|
| Battery | GB | 2 | Vbrtb | Domestic famous brand |
| Switch | SA | 10 | TE | France |
| Indicator lamp | H | 12 | TE | France |
| Relay | KA | 6 | HELLA | Germany |
| Diesel gauge | P | 1 | Curtis | USA |
| Voltage gauge | P | 1 | Curtis | USA |
| Horn | HA1 | 1 | HELLA | Germany |
| Fuse | FU | 13 | HELLA | Germany |

Main Wearing Parts List of YZ25C All Hydraulic Vibratory Roller

| Index | Code | Name or description | Remarks |
|-------|---------------|--|----------------------------|
| 1 | GB3452.1 – 82 | O-ring 10×1.8 | |
| 2 | GB3452.1 – 82 | O-ring 13.2×1.8 | |
| 3 | GB3452.1 – 82 | O-ring 20×1.8 | |
| 4 | GB3452.1 – 82 | O-ring 25×1.8 | |
| 5 | GB3452.1 – 82 | O-ring 18×2.65 | |
| 6 | GB3452.1 – 82 | O-ring 21.2×2.65 | |
| 7 | GB3452.1 – 82 | O-ring 53×2.65 | |
| 8 | GB3452.1 – 82 | O-ring 30×3.55 | |
| 9 | GB3452.1 – 82 | O-ring 50×3.55 | |
| 10 | | O-ring 20.3×2.4 | |
| 11 | | O-ring 32.92×3.53 | |
| 12 | JB982-77 | Combination gasket 12 | |
| 13 | JB982-77 | Combination gasket 14 | |
| 14 | JB982-77 | Combination gasket 18 | |
| 15 | JB982-77 | Combination gasket 22 | |
| 16 | JB982-77 | Combination gasket 27 | |
| 17 | JB982-77 | Combination gasket 33 | |
| 18 | JB982-77 | Combination gasket 42 | |
| 19 | SM-1131-23 | Shock absorber, circular | |
| 20 | TFX-250x80 | Oil absorption filter element, hydraulic oil | |
| 21 | WU-100X80-J | Oil absorption filter element, hydraulic oil | |
| 22 | 02601380 | Fine filter element, traveling pump | Equipped with Rexroth pump |
| | 9700810 | | Equipped with Saue pump |
| 23 | 02601380 | Fine filter element, vibratory | Rexroth pump |

| | | | |
|----|--------------|-------------------------------|-----------|
| | 9700810 | pump | Saue pump |
| 24 | PL420X | Coarse filter element, diesel | |
| 25 | 1117050-D142 | Fine filter element, diesel | |
| 26 | 1012010-D142 | Oil filter | |
| 27 | 1308643-D851 | Fan belt | |
| 28 | 0216 5059 | Outer element of air cleaner | |
| 29 | 0414 4966 | Inner element of air cleaner | |

Packing List of YZ25C All Hydraulic Vibratory Roller

| Index | Name | Size | Number | Unit | Remark |
|-----------------------|--|--------------|--------|-------|--|
| I Information | | | | | |
| 1 | Certificate of Product Approval | | 1 | | |
| 2 | Manual Instruction | | 1 | | |
| 3 | Parts Brochure | | 1 | | |
| 4 | Engine Operational Instruction | | 1 | | |
| 5 | Key, cab | | 2 | Piece | |
| 6 | Key, starting engine | | 1 | Piece | |
| 7 | Key, battery | | 2 | Piece | |
| 8 | Key, fuel filler | | 2 | Piece | |
| 9 | Key, tool box | | 2 | Piece | |
| 10 | Bag, information | | 1 | Piece | Used for enclose the above books and information |
| II Tool | | | | | |
| 1 | Hexagon socket screw keys | 3-19 | 1 | Set | 9 pieces |
| 2 | Hexagon socket screw keys | 2 | 1 | Piece | |
| 3 | Fixed wrench | 7-32 | 1 | Set | 9 pieces |
| 4 | Fixed wrench | 41-46 | 1 | Piece | |
| 5 | Spanner, used for filter element | φ60-φ140 | 1 | piece | |
| 6 | Cross screw driver | 150×7 | 1 | Piece | |
| 7 | Cross screw driver | 200×8 | 1 | Piece | |
| 8 | Screw driver | 150×7 | 1 | Piece | |
| 9 | Screw driver | 300×9 | 1 | Piece | |
| 10 | Adjustable wrench | 12" | 1 | Piece | |
| 11 | Combination pliers | 8" | 1 | Piece | |
| 12 | Hammer | 1.5 Pound | 1 | Piece | |
| 13 | Grease gun | 400 g | 1 | Piece | |
| III Spare part | | | | | |
| 1 | Filter element, hydraulic oil absorption | TFX-250×80 | 2 | Piece | |
| 2 | Oil absorption filter element, hydraulic oil | WU-100×80-J | 1 | Piece | |
| 3 | Fine filter element, diesel | 1117050-D142 | 1 | Piece | |
| 4 | Oil filter | 1012010-D142 | 1 | Piece | |

| | | | | | |
|-----------------------|------|-----------------------|---|-------|--|
| 5 | Fuse | 8JS 711 690-002 (30A) | 1 | Piece | |
| 6 | Fuse | 8JS 711 688-002 (20A) | 1 | Piece | |
| 7 | Fuse | 8JS 711 686-002 (10A) | 2 | Piece | |
| 8 | Fuse | 8JS 711 684-002 (5A) | 3 | Piece | |
| IV Seals, 1set | | | | | |

YZ25C vibratory roller seals list

| Index | Code | Name or description | Number | Remarks |
|-------|---------------|-----------------------|--------|---------|
| 1 | GB3452.1 - 82 | O-ring 10×1.8 | 6 | |
| 2 | GB3452.1 - 82 | O-ring 13.2×1.8 | 12 | |
| 3 | GB3452.1 - 82 | O-ring 20×1.8 | 1 | |
| 4 | GB3452.1 - 82 | O-ring 25×1.8 | 1 | |
| 5 | GB3452.1 - 82 | O-ring 18×2.65 | 4 | |
| 6 | GB3452.1 - 82 | O-ring 21.2×2.65 | 8 | |
| 7 | GB3452.1 - 82 | O-ring 53×2.65 | 2 | |
| 8 | GB3452.1 - 82 | O-ring 30×3.55 | 8 | |
| 9 | GB3452.1 - 82 | O-ring 50×3.55 | 2 | |
| 10 | | O-ring 20.3×2.4 | 12 | |
| 11 | | O-ring 32.92×3.53 | 6 | |
| 12 | JB982-77 | Combination gasket 12 | 2 | |
| 13 | JB982-77 | Combination gasket 14 | 3 | |
| 14 | JB982-77 | Combination gasket 18 | 9 | |
| 15 | JB982-77 | Combination gasket 22 | 2 | |
| 16 | JB982-77 | Combination gasket 27 | 4 | |
| 17 | JB982-77 | Combination gasket 33 | 3 | |
| 18 | JB982-77 | Combination gasket 42 | 4 | |

Roller Technical Standards

1. PRC standard Vibratory Roller

Standard No. GB/T8511-2005

2. PRC standard Design Standard for the Isolating System of Vibratory Roller

Standard No. JG/T5076.1-1996

3. PRC standard Test Standard for the Isolating System of Vibratory Roller

Standard No. JG/T5076.2-1996

4. PRC standard General Requirement for Rollers

Standard No. GB/T13328-2005

5. PRC standard Earthmover Term and Commercial Specification for Roller and Landfill
Compactor

Standard No. GB/T7920.5-2003

6. Zoomlion Heavy Industry Science & Technology Development Co., Ltd Self-propelled
Vibratory Roller

Standard No. Q/QKAM 103007-2002

The logo for ZOOMLION, featuring the word "ZOOMLION" in a bold, dark blue, sans-serif font. The text is centered within a light green parallelogram that has a slanted right edge.

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