

# XS400J



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## Vibratory Roller

XS400J is a 4-ton mechanical single drum vibratory roller featuring mechanical driven rear wheel, hydraulic vibration of front drum and hydraulic steering, etc. It is predestined for applications in compacting base layers and hydraulic bound layers and filling materials as well as pebbles, sandy soils, moraine, blasting rocks and cohesive soils in small and medium job sites. Due to its high flexibility and maneuverability, performing unique superiority in limited working site and trench fill foundations. The machine is powered by Changchai ZN490B four-cylinder water-cooled engine, apply to the working conditions of above -10 °C and below 2000 meters, complies with China Stage III emission standards.

## Performance and characteristics

- Changchai diesel engine provides high power and easy starting performance.
- Rear axle providing high traction torque allowing operation at high inclinations.
- No-clutch design, easy to operate, effectively reduce labor intensity;
- Power shift box has compact structure for accessible maintenance;
- Compact design with small turning radius for high maneuverability.
- Gas-over oil disc brake with big braking force and high reliability;
- Optional cabin; China stage III engine.

## Main specifications

| Item                          | Content                          | Unit  | XS400J                            |
|-------------------------------|----------------------------------|-------|-----------------------------------|
| <b>Weights</b>                | Operating weight                 | kg    | 4000                              |
|                               | Front axle weight                | kg    | 1800                              |
|                               | Rear axle weight                 | kg    | 2200                              |
|                               | Static linear load               | N/cm  | 140                               |
| <b>Maneuverability</b>        | Operating speed                  | km/h  | 1.8/6.3                           |
|                               | Theoretical gradeability         | %     | 35                                |
|                               | Minimum turning radius           | mm    | 4500                              |
|                               | Minimum ground clearance         | mm    | 310                               |
|                               | Wheelbase                        | mm    | 2230                              |
|                               | Steering angle                   | °     | ±20                               |
|                               | Oscillation angle                | °     | ±5                                |
| <b>Compaction Performance</b> | Vibration frequency              | Hz    | 50                                |
|                               | Nominal amplitude                | mm    | 0.5                               |
|                               | Excitation force (H/L frequency) | kN    | 60                                |
|                               | Drum diameter                    | mm    | 1000                              |
|                               | Drum width                       | mm    | 1270                              |
| <b>Engine</b>                 | Model                            |       | Changchai ZN490B                  |
|                               | Type                             |       | Inline four-cylinder water-cooled |
|                               | Rated power                      | KW    | 36                                |
|                               | Rated speed                      | r/min | 2400                              |
| <b>Miscellaneous</b>          | Drive method                     |       | Hydraulic drive                   |
|                               | Vibration method                 |       | Hydrostatic open-loop             |
|                               | Service brake                    |       | Mechanical                        |
|                               | Park brake                       |       | Mechanical                        |
|                               | Secondary brake                  |       | Mechanical                        |
|                               | Steering system                  |       | Articulated                       |
|                               | Steering control                 |       | Hydraulic                         |

| Designation               | Model and Specification                   | Filling Part                                             | Capacity (L) |
|---------------------------|-------------------------------------------|----------------------------------------------------------|--------------|
| <b>Engine Oil</b>         | Summer CF 15W /40; Winter CF 10W /30      | Engine                                                   | 3.5          |
| <b>Hydraulic oil</b>      | XCMG dedicated 40-1                       | Hydraulic System                                         | 60           |
| <b>Diesel</b>             | 0# (ambient temperature 0℃ ~40℃)          | Diesel tank                                              | 60           |
|                           | -10# (ambient temperature -10℃ ~0℃)       |                                                          |              |
| <b>Coolant</b>            | XCMG dedicated -45# antifreeze            | Radiator                                                 | 7.6          |
| <b>Lubricating grease</b> | General lithium grease for automobile use | Oil cups at articulation mechanism and steering cylinder |              |

### Notes:

Specifications and configurations may vary depending on options and regional regulations. XCMG reserves the right to make changes to specifications without prior notice.



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