



SINOMACH

SQ12



**Features of Guoji Heavy Industry Changlin truck crane products:**

- **Faster:** optimize the design of hoisting machinery to achieve faster lifting speed;
- **Higher:** the extended boom design has a higher lifting height;
- **Stronger:** the structural parts are made of high quality and high strength steel plate from Baosteel, which has high strength, good toughness and light weight;
- **Safer:** the imported balance valve from Italy is used to ensure that the oil circuit can be locked when the pressure is unexpectedly released;
- **Cleaner:** Gates hydraulic pipe and double sealing joint are used to effectively solve the problem of oil leakage and make the surface cleaner;
- **Lighter:** using well-known domestic brands of hydraulic valves, the operation mechanism design is optimized to make the operation lighter.

## Main technical parameters

| project                               | unit                 | numeric value            |
|---------------------------------------|----------------------|--------------------------|
| Maximum lifting torque                | kN·m                 | 300                      |
| Maximum lifting load                  | kg                   | 12000                    |
| Maximum working range                 | mm                   | 14700                    |
| Full retracted length of the boom     | mm                   | 5600                     |
| Maximum lifting height (above ground) | mm                   | About 17,000             |
| The lateral span of the front leg     | mm                   | 2284~5730mm              |
| Maximum and minimum lifting speed     | main hook (One rope) | Rise m/min 55            |
|                                       | desce nd             | m/min 55                 |
| swiveling speed                       | r/min                | ≤2                       |
| The rotation Angle                    | o                    | 360° full rotation       |
| Self-weight of crane                  | kg                   | 5020                     |
| Oil pump type                         |                      | Gear pump + plunger pump |

| project           | unit | parameter            |
|-------------------|------|----------------------|
| Full model number |      | CHL5250JSQ16         |
| Chassis model     |      | CA1250P62K1L3T1A1E6Z |
| wheel base        | mm   | 5800+1350            |
| curb weight       | kg   | 16295                |
| Rated load mass   | kg   | 8575                 |
| engine type       |      | CA6DK1-28E6          |
| engine power      | kw   | 209/284              |
| outline dimension | mm   | 12000×2521×3870      |
| Box size          | mm   | 8510×2405×550        |
| tyre size         |      | 11.00R20             |

## product configuration

## (1) Rotary device

The planetary reducer is used to reduce the speed, so the rotation is more stable. The rotation Angle is 360 degrees and the rotation is full without dead point.

## (2) Support leg system

Front horizontal support leg cylinder: the front support leg of the crane adopts an extended span to increase stability, and the full extension span is 5.7m.

Front vertical support leg cylinder: standard hydraulic support leg, can adapt to a variety of base height.

Reinforced leg: The standard configuration is a fixed rear leg, which is in line with normal working conditions. Hydraulic rear leg can be selected to increase the stability of the vehicle and is suitable for more complex and harsh working conditions.

## (3) Crane arm system

The hexagonal section form is adopted, and the lateral stability and arm tube stiffness are greatly improved compared with the traditional quadrilateral. One basic arm, three telescopic arms, two-stage hydraulic telescopic cylinder, and three and four arms are synchronized.

## (4) Control system

Crane control system: the crane is directly controlled by the main valve, which is located at the seat position.

Support leg control system: The support leg is controlled and operated by the leg valve to avoid misoperation and can realize two-sided operation.

## (5) Safety devices

Standard height limit switch and over-winding alarm device to maximize the protection of working devices.

The optional high-power LED working lighting can be used for lighting in insufficient light or at night.

Optional torque limiter to provide customers with a safer and more reliable working environment.

Shape diagram and characteristic curve diagram of the vehicle-mounted crane:

