



## 937H WHEEL LOADER SPECIFICATIONS

- Equipped with DongFeng Cummins Engine
- 3 forward 3 reverse power shift transmission
- Combined seal cylinder obtains high seal performance and more reliability

| • Overall Dimension          |                                           |          |
|------------------------------|-------------------------------------------|----------|
| 1                            | Length(with bucket on ground)整机长度（铲斗放置地面） | 6920(mm) |
| 2                            | Width(to outside of wheels)整机宽度（轮胎外沿）     | 2305(mm) |
| 3                            | Bucket width 铲斗宽度                         | 2430(mm) |
| 4                            | Height(To the top of the cab)高度（到驾驶室顶）    | 3150(mm) |
| 5                            | Wheel base 轴距                             | 2750(mm) |
| 6                            | Tread 轮距                                  | 1855(mm) |
| 7                            | Min. ground clearance 最小离地间隙              | 360(mm)  |
| Main Technical Specification |                                           |          |

|                          |                                                             |                              |
|--------------------------|-------------------------------------------------------------|------------------------------|
| 1                        | Rated load 额定载重                                             | 3000(Kg)                     |
| 2                        | Operating weight 操作重量                                       | 10200KG                      |
| 3                        | Rated bucket capacity 额定斗容                                  | 1.7(m <sup>3</sup> )         |
| 4                        | Max. breakout force 最大崛起力                                   | 96kN                         |
| 5                        | Max. dump clearance 最大卸载高度                                  | 2934(mm)                     |
| 6                        | Dump reach 卸载距离                                             | 1043(mm)                     |
| 7                        | Dump angle at any position 任意位置卸载角                          | ≥ 45°                        |
| 8                        | Min. turning radius 最小转弯半径                                  |                              |
|                          | (1) Outside of bucket 铲斗外沿                                  | 5695(mm)                     |
|                          | (2) Outside of rear wheel 后轮胎外沿                             | 5185(mm)                     |
| 9                        | Pivot angle frame 铰接角                                       | 38±1°                        |
| 10                       | Oscillating angle of rear axle 后桥摆动角                        | ±11°                         |
| 11                       | Lifting time of bucket 铲斗举升时间                               | ≤5.1(sec.)                   |
| 12                       | Lowering time of bucket 铲斗下降时间                              | ≤3.0(sec.)                   |
| 13                       | Dumping time 翻斗时间                                           | ≤1.1(sec.)                   |
| 14                       | Traveling speed(Km/h), 3 forward and 3 reverse 行驶速度, 前三后三档位 |                              |
|                          | (1) 1st gear forward 前进一档                                   | 7.3                          |
|                          | (2) 2nd gear forward 前进二档                                   | 15.7                         |
|                          | (3) 3rd gear forward 前进三档                                   | 35                           |
|                          | (1) 1st gear reverse 后退一档                                   | 7.8                          |
|                          | (2) 2nd gear reverse 后退二档                                   | 16.8                         |
|                          | (3) 3rd gear reverse 后退三档                                   | 36                           |
| <b>Diesel engine 发动机</b> |                                                             |                              |
| 1                        | Model 型号                                                    | Dongfeng Cummins 6BT5.9-C120 |

|                                  |                                           |                                                            |
|----------------------------------|-------------------------------------------|------------------------------------------------------------|
| 2                                | Type 形式                                   | Direct injection. Turbocharged. Water cooling              |
| 3                                | Rated output 额定功率                         | 87(KW)                                                     |
| 4                                | Inter-bore of cylinder/stroke<br>缸径/行程    | 102/120 (mm)                                               |
| 5                                | Total exhaust of cylinder 排量              | 5.9 (L)                                                    |
| 6                                | Voltage of starting motor<br>启动马达电压       | 24(V)                                                      |
| 7                                | Rated speed 额定转速                          | 2200(r/min)                                                |
| 8                                | Max. Torque 最大扭矩                          | 440(N.M)/1500rpm                                           |
| 9                                | Starting type 启动形式                        | Electric                                                   |
| 10                               | Min. specific fuel consumption<br>最小燃油消耗率 | 220(g/Kw.h)                                                |
| <b>Transmission System 变速系统</b>  |                                           |                                                            |
| <b>(一) Torque Converter 变矩器</b>  |                                           |                                                            |
| 1                                | Model 型号                                  | YJH315A-4(Shanxi Aerospace Power)                          |
| 2                                | Type 形式                                   | 3-elements. Single stage                                   |
| 3                                | Torque ratio 变矩系数                         | 3.1                                                        |
| 4                                | Cooling type 冷却形式                         | Pressure oil circulating                                   |
| <b>(二)、Transmission case 变速箱</b> |                                           |                                                            |
| 1                                | Model 型号                                  | Chinese Changlin                                           |
| 2                                | Type 形式                                   | Power shift, spur gear constantly in mesh<br>动力换挡，圆柱直齿轮平行轴 |
| 3                                | Gear shift position 档位                    | 3 Forward and 3 reverse gears 前三后三档位                       |
| <b>(三)、Axle and Tire 桥轮胎</b>     |                                           |                                                            |

|                                               |                                                             |                                                                  |
|-----------------------------------------------|-------------------------------------------------------------|------------------------------------------------------------------|
| 1                                             | Type of main reducer 主传动形式                                  | spiral bevel gear, single stage<br>螺旋伞齿轮一级减速                     |
| 2                                             | Gear ratio of main reducer<br>主传动速比                         | 3.889                                                            |
| 3                                             | Type of final reducer<br>终传动形式                              | Single stage planetary<br>单级圆柱直齿轮行星传动                            |
| 4                                             | Gear of ratio of final reducer<br>终传动速比                     | 4.941                                                            |
| 5                                             | Total ratios 总速比                                            | 19.216                                                           |
| 6                                             | Max. drawing force 最大牵引力                                    | 83kN                                                             |
| 7                                             | Size of tire 轮胎型号                                           | 17.5-25-12PR                                                     |
| <b>Working Device Hydraulic System 工作液压系统</b> |                                                             |                                                                  |
| 1                                             | Model of oil pump 工作油泵型号                                    | CBGj2100(SAE)                                                    |
| 2                                             | System pressure 系统压力                                        | 160(kgf/cm <sup>2</sup> )                                        |
| 3                                             | Model of multichannel conversion valve 多路换向阀型号              | GDF32D2                                                          |
| 5                                             | (D*L)Dimension of lifting cylinder 举升油缸尺寸                   | Φ125*70*697(mm)                                                  |
| 6                                             | (D*L)Dimension of tilting cylinder 翻斗油缸尺寸                   | Φ150*70*470 (mm)                                                 |
| <b>Steering System 转向系统</b>                   |                                                             |                                                                  |
| 1                                             | Type 形式                                                     | Middle articulated frame. Full-hydraulic Steering<br>车架铰接, 全液压转向 |
| 2                                             | Model of steering pump 转向泵型号                                | CBG2050(SAE)                                                     |
| 3                                             | Model of steering gear 转向器型号                                | BZZ1-E400C+FKA-143020                                            |
| 4                                             | Model of single-channel stable shunt valve 单稳阀<br>单路稳定分流阀型号 | FLD-D30H                                                         |

|                          |                                       |                                                                      |
|--------------------------|---------------------------------------|----------------------------------------------------------------------|
| 5                        | System pressure 系统压力                  | 14MPa                                                                |
| 6                        | Dimension of steering cylinder 转向油缸规格 | Φ70*40*357(mm)                                                       |
| <b>Brake System 制动系统</b> |                                       |                                                                      |
| 1                        | Type of traveling brake 行车制动形式        | Air assisted oil.4 wheel brake 气顶液四轮制动                               |
| 2                        | Air pressure 制动气压                     | 7-8(kgf/cm <sup>2</sup> )                                            |
| 3                        | Type of emergency brake 紧急制动形式        | Automatic cutting air brake 自动断气制动                                   |
| 4                        | Type of parking brake 停车制动            | Drum brake 鼓式制动器<br>Manual control cutting off air brake<br>手动控制断气制动 |
| <b>Oil Capacity</b>      |                                       |                                                                      |
| 1                        | Fuel(diesel)燃油                        | 130(L)                                                               |
| 2                        | Engine lubricating oil 机油             | 13.5(L)                                                              |
| 3                        | Oil for converter and gear box 变速箱油   | 35(L)                                                                |
| 4                        | Oil for hydraulic system 液压系统油        | 120(L)                                                               |
| 5                        | Oil for driving axles ( F/R ) 前后驱动桥油  | 16/15(L)                                                             |