

RHOCT-**R**

Retail truck series

YUNLIHONG

Shiyan Yunlihong Industrial & Trade Co., Ltd.

十堰市郢利宏工贸有限公司

|               |                                   |
|---------------|-----------------------------------|
| CHASSIS MODEL | R42GV20E3D5.9 Retail truck series |
| TRUCK NAME    | 15 tons Cargo Truck               |
| DRIVE TYPE    | 4×2                               |

# RHOCT- R Model Range

R42GV20E3D5.9 Retail truck series - GCW 24 tons

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**Chassis Dimensions [mm]**

|           |                                      |
|-----------|--------------------------------------|
| <b>WB</b> | <b>Wheelbase</b>                     |
| C         | Cargo box Length space               |
| A         | Overall Chassis Length               |
| D         | Center of rear axle to front of body |
| T         | Theoretical Wheelbase                |
| N         | Rear Overhang                        |

**Plated Weights [kg]**

|                          |
|--------------------------|
| Gross Vehicle Weight     |
| Gross Combination Weight |
| Front Axle               |
| Rear Axle                |
| Support Axle             |

| Plated | Design |
|--------|--------|
| 20000  | 24000  |
| -      | -      |
| 7000   | 8400   |
| 13000  | 15600  |

- Due to the large gap in laws and regulations in various countries, 'plated GCW' is not displayed. Please select a vehicle according to local regulations and 'Design GCW'.

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## TRUCK USE

|          |                                                |
|----------|------------------------------------------------|
| OC-ONWC  | Operating class on road, wet concrete pavement |
| PRE-TIPP | Tipper vehicle preparation                     |

## CORE COMPONENTS

|           |                                                                                                                                                                                                                                                                                                |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CHH-S     | Chassis height S High - Standard height. For a specific loading height always check the unique BEP chassis drawing                                                                                                                                                                             |
| FS-L90    | 90mm 'S' parabolic front springs                                                                                                                                                                                                                                                               |
| RDS-L90   | 90mm 'S' parabolic rear springs                                                                                                                                                                                                                                                                |
| R-CR      | Comfort Rest cab - with steel safety cage design<br>One bed resting package - bed width 600 mm<br>Designed and built to Swedish impact and ECE R29 regulations<br>High Power Audio system: RDS radio - also playing MP3/WMA files, with USB/Line inputs. FM/AM antenna, speakers in dashboard, |
| E3D5.9    | Emission level - Euro 3 engine 5.9L displacement                                                                                                                                                                                                                                               |
| B170-33   | Cummins B170-33 5.9 litre engine developing 170hp at 2500rpm. Peak torque 560Nm at 1300rpm.                                                                                                                                                                                                    |
| 8JS85F    | Fast (Eaton Technology) 8-speed direct manual mechanical gearbox suitable for engines with maximum torque not exceeding 850Nm, maximum horsepower not exceeding 210hp,                                                                                                                         |
| SF-7000   | Front steer axles design capacity 8.4 tonnes - 8.4 tonne Front steer axles.                                                                                                                                                                                                                    |
| DRS-13000 | Rear drive axles design capacity 15.6 tonnes - 15.6 tonne rear drive axles. Maximum output torque 50000N.m                                                                                                                                                                                     |
| None      | No support axle                                                                                                                                                                                                                                                                                |

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## CHASSIS

|                   |                                                                                                                   |
|-------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>FS-PAR8</b>    | 8 leaf springs suspension, 90mm wide springs                                                                      |
| <b>HPSP-FIX</b>   | Hydraulic power steering pump with fixed displacement                                                             |
| <b>RDS 10+7</b>   | 10+7 leaf springs suspension, 90mm wide springs                                                                   |
| <b>FROB</b>       | Front brake -Drum brake is standard configuration, optional disc brake                                            |
| <b>REAB</b>       | Rear brake -Drum brake is standard configuration, optional disc brake                                             |
| <b>BAA</b>        | Brake adjusting arm, optional auto brake adjusting arm                                                            |
| <b>APB</b>        | Auxiliary parking brake - Additional spring brakes                                                                |
| <b>FRAME280</b>   | Frame rail section external height 280 mm                                                                         |
| <b>FW80</b>       | Frame width - 80mm                                                                                                |
| <b>FST84</b>      | Frame thickness - flange 8 mm and web 4 mm                                                                        |
| <b>BBOX</b>       | Battery box located on whichever side based on final chassis layout                                               |
| <b>BAT</b>        | 2 x 165 Ah capacity batteries is standard configuration, optional 2 x 180 Ah capacity batteries,                  |
| <b>MSWI-C</b>     | Main switch - Chassis mounted toggle switch by battery box                                                        |
| <b>FT280S</b>     | Steel fuel tank, 280 litres volume. Min volume 125l, Max volume 400l                                              |
| <b>ADTP-NO</b>    | No AdBlue tank                                                                                                    |
| <b>FCAP</b>       | Locking fuel filler cap is option.                                                                                |
| <b>FF</b>         | You can install both fuel filling anti-theft and anti-spillage devices, or you can choose one of them. (optional) |
| <b>SEO-HR</b>     | Tow member - High mounted in centre of frame                                                                      |
| <b>TOWF-NO1</b>   | Front towing device - One pin in bumper                                                                           |
| <b>TOWR-ONE L</b> | Light trailer coupling - Pintle type hitch attached to rear cross member for an unbraked trailer. (optional)      |
| <b>SEO-HR</b>     | Horizontal silencer, rear exhaust outlet. Exhaust outlet located on whichever side based on final chassis layout  |
| <b>LPB-F</b>      | Front lower position bumper                                                                                       |
| <b>DAN</b>        | Some modified for transportation of dangerous goods on the road. (optional)                                       |

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## CAB EXTERIOR & INTERIOR

|                  |                                                                                                                                                         |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>WLIFT-EDP</b> | Electrical window lift, automatic up/down driver side & passenger side                                                                                  |
| <b>ISV-BS</b>    | Side interior sun visor on both sides                                                                                                                   |
| <b>BUPALARM</b>  | Reverse alarm                                                                                                                                           |
| <b>UPHTRI10</b>  | Seats: Black embossed textile insert with light grey sides, black side bolster insert.<br>Interior trim: light grey bunk, curtains & textile side walls |
| <b>DST</b>       | Driver seat, comfort, airbag suspended, belt in cab                                                                                                     |
| <b>PST</b>       | Passenger seat - Fixed non suspended fold up with seatbelt mounted in cab                                                                               |
| <b>BEDW</b>      | Bed width 600 x 1850mm                                                                                                                                  |
| <b>FCABS-M</b>   | Front cab suspension - Mechanical spring                                                                                                                |
| <b>RCABS-M</b>   | Rear cab suspension - Mechanical spring                                                                                                                 |
| <b>CTILTP</b>    | Manually operated hydraulic cab tilt                                                                                                                    |
| <b>AUXFS</b>     | Lower swinging cab step                                                                                                                                 |
| <b>BUMP-MD</b>   | Heavy duty front bumper                                                                                                                                 |
| <b>HL-ADJ</b>    | Headlight adjustment - Switch in cab                                                                                                                    |

## WHEELS & TYRES

|                 |                                                                                                                                                                                                                                                                                    |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>RIM</b>      | Steel rims on all axles is standard configuration, optional alcoa Dura-Bright aluminium rims - standard holes for long stud fixing                                                                                                                                                 |
| <b>SPWT</b>     | Spare wheel tyre & front wheel & rear wheel tyre with same pattern                                                                                                                                                                                                                 |
| <b>SWCP</b>     | Side mounted spare wheel carrier                                                                                                                                                                                                                                                   |
| <b>TIRE-PER</b> | Wide tread design, better service life;<br>Combination of TMS technology and special formula, better abrasion resistance;<br>Special pattern design concept, with excellent partial wear resistance;<br>Single guide pattern design, better driving force and control performance. |

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## OPTIONAL CONFIGURATION

|          |                           |
|----------|---------------------------|
| AF-TS    | Two stage air filter      |
| PRIM-MAN | Manual priming pump       |
| FLEH     | Fuel line electric heater |
| PTO      | Full power PTO            |
| STGW-ADJ | Adjustable steering wheel |
| AD-ROOF  | Roof air deflector        |
| HLP-ST   | Headlamp protection       |

## OPTIONAL TOOL

|          |                                                                    |
|----------|--------------------------------------------------------------------|
| TOOL     | Toolkit                                                            |
| JACK-12T | 12 tonne bottle jack / 15 tonne bottle jack / 20 tonne bottle jack |
| INFLAHOS | Tyre inflation hose                                                |
| GAUGE-TP | Tyre pressure gauge                                                |
| WHC-FIX2 | Two fixed wheel chocks                                             |
| SC       | Snow chains                                                        |
| SCH      | Snow chain hooks                                                   |
| TOW      | One heavy duty front towing device                                 |
| FIREXT3S | 3kg fire extinguisher mounted on seat base                         |
| WARNVEST | High visibility warning vest - no sleeves                          |
| AIDKIT   | First aid kit                                                      |
| WARNLAMP | Portable warning lamp                                              |
| LAMP-IN  | Inspection lamp                                                    |
| BULBKIT  | Bulb and fuse kit                                                  |
| WRITEPAD | Writing pad                                                        |

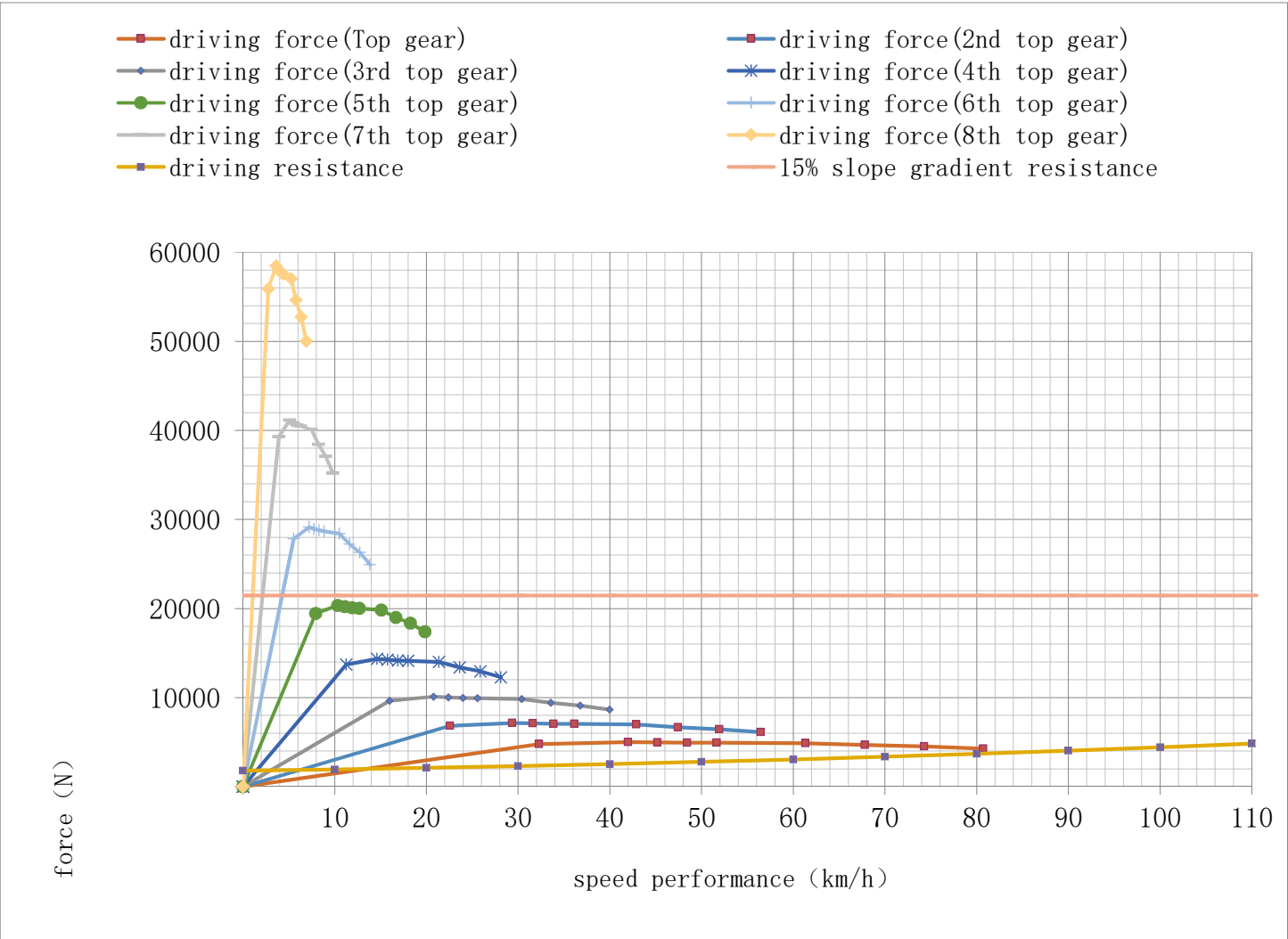
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## PERFORMANCE



When the GCW of the vehicle is 24 tons,  
The maximum gradeability of the vehicle is 25.67%, and the angle is about 14.4°.  
When the gradeability of the vehicle is 15%, the angle is about 8.53°, and the maximum speed at this time is 14km/h.  
The top speed of the vehicle is 81km/h, and the economic speed is 42km/h.

### Test Conditions

|                              |                   |                                        |      |
|------------------------------|-------------------|----------------------------------------|------|
| Road surface                 | Concrete pavement | Wind resistance area (m <sup>2</sup> ) | 5.59 |
| Coefficient of road adhesion | 0.85              | Altitude (m)                           | 0    |

### Test vehicle configuration

|              |          |              |           |
|--------------|----------|--------------|-----------|
| Engine       | B170-33  | Front axle   | SF-7000   |
| Transmission | 8JS85F   | Rear axle    | DRS-13000 |
| Tire         | 11.00R20 | Support axle | None      |

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## ASSEMBLY PERFORMANCE

### Engine

B170-33

|        |      |      |      |      |      |      |      |      |      |  |  |  |
|--------|------|------|------|------|------|------|------|------|------|--|--|--|
| Speed  | 2500 | 2300 | 2100 | 1900 | 1600 | 1500 | 1400 | 1300 | 1000 |  |  |  |
| Torque | 479  | 505  | 523  | 546  | 551  | 553  | 556  | 560  | 535  |  |  |  |

### Transmission

8JS85F

|       |     |      |      |      |      |      |      |      |  |  |  |  |
|-------|-----|------|------|------|------|------|------|------|--|--|--|--|
| Gear  | 1st | 2nd  | 3rd  | 4th  | 5th  | 6th  | 7th  | 8th  |  |  |  |  |
| Ratio | 1   | 1.43 | 2.02 | 2.87 | 4.07 | 5.83 | 8.23 | 11.7 |  |  |  |  |

### Tire

11.00R20

| Model    | Speed<br>(km/h) | Width<br>(mm) | Diameter<br>(mm) | 层级 | Capacity (kg) |        | Pressure (kPa) |        |
|----------|-----------------|---------------|------------------|----|---------------|--------|----------------|--------|
|          |                 |               |                  |    | Single        | Double | Single         | Double |
| 11.00R20 | 110             | 293           | 1085             | 16 | 3350          | 3075   | 830            | 830    |

## Dimension

|                |              |              |              |              |              |              |              |
|----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Wheelbase      | 3800         | 4500         | 4700         | 5000         | 5600         |              | 7100         |
| Cargo Length   | 5150         | 5750         | 6200         | 6750         | 7650         | 8000         | 9600         |
| Cargo Height   | 600/800/1000 | 600/800/1000 | 600/800/1000 | 600/800/1000 | 600/800/1000 | 600/800/1000 | 600/800/1000 |
| Overall Length | 7350         | 7950         | 8450         | 8950         | 9850         | 10350        | 11990        |

# YUNLIHONG

Yunlihong Truck Corporation  
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Ref: R42GV20E3D5.9















