

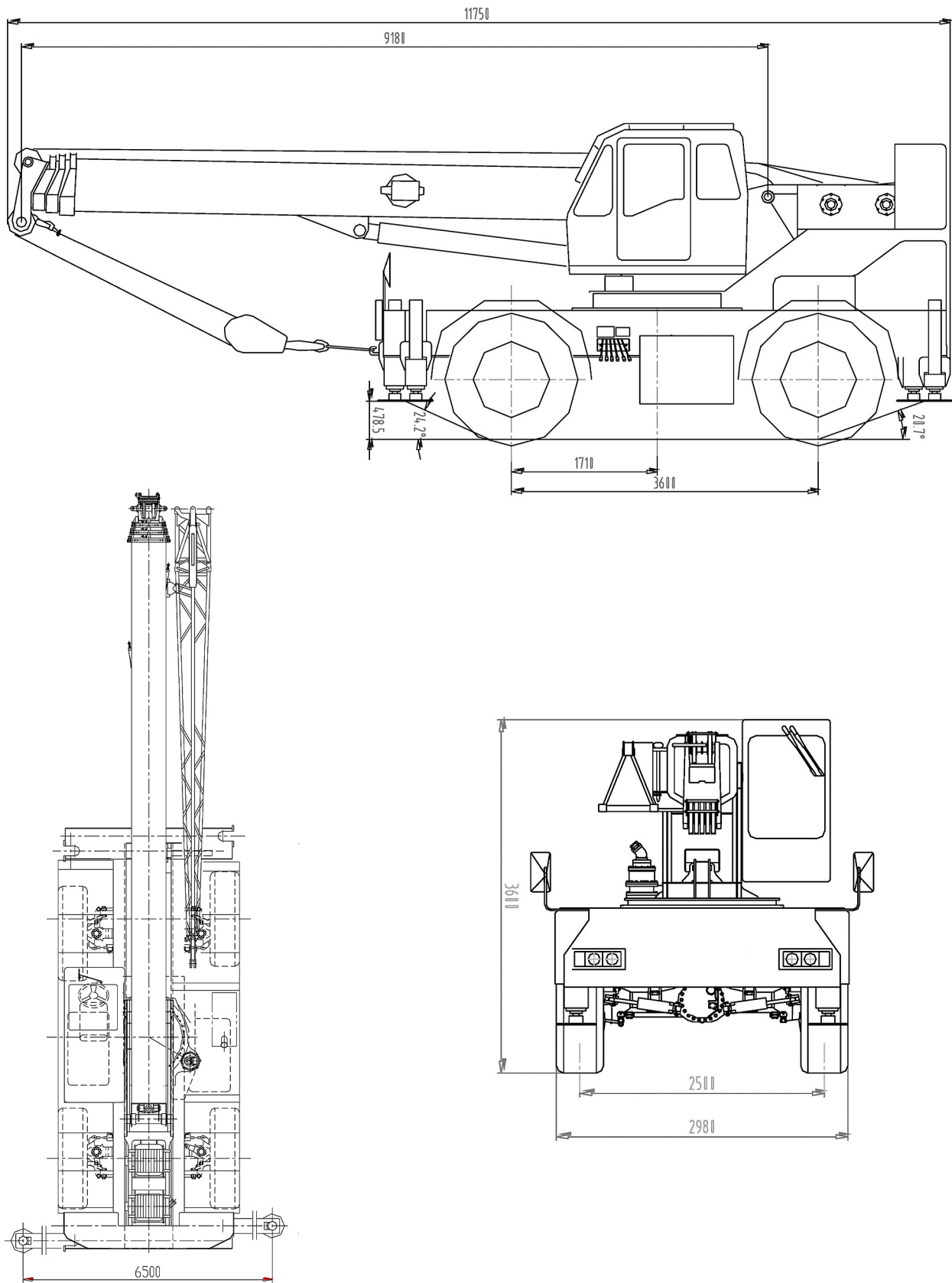


**POWERPLUS**  
POWERPLUS GROUP INC., USA



**ROUGH TERRAIN CRANE**  
**PRTC300S-V**

DIMENSION



## SPECIFICATION

Overall length: (mm) 11750

Overall width: (mm) 3080

Overall height: (mm) 3600

Axle base: (mm) 3600

Tread: (mm) 2500

Weight: (kg) 27700

Min. ground clearance: (mm) 400

Max. speed: (km/h) 40

Max. gradeability: (%) 55

Approach angle: (°) 21

Departure angle: (°) 21

## ENGINE

Model: Cummins ISDe 230 30

Max. power: (HP) 230

Rated speed: (rpm) 2500

Max. torque: (N.m/rpm) 900/1400

## PERFORMANCE

Max. total rated lifting load: (T) 30

Min. rated working radius: (m) 3

Min. turning radius: (m) 5.1

Swing speed: (r/min) 2

Outrigger span (Longitudinal): (m) 6.08

Outrigger span (Lateral): (m) 6.5

Base boom: (m) 9.18

Fully extended boom: (m) 27.78

Fully-extended boom+jib: (m) 35.1

Base boom: (kN.m) 920

Fully extended boom: (kN.m) 560

## BRAKE

Service / Parking brake: Hydraulic disc brake (MICO)

## WORKING SPEED

### Boom Derricking

Boom elevating: (sec) 75

Boom descending: (sec) 75

### Boom telescoping

Boom fully extended: (sec) 80

Boom fully retracting: (sec) 50

## TRANSMISSION

Model: ZF 4WG180 (L)

No. of Gears: 4 Forward, 3 Reverse

Drive Axle: 4 Wheel Drive

## AXLE

Brand: Kessler (Germany)

Front axle weight: (kg) 14280

Rear axle weight: (kg) 13420

## TIRE

Size: 20.5-25-24PR



TOTAL RATED LIFTING LOAD FOR BOOM

| Radius (m)    | Full-extend outriggers, 360° swing |                       |                       |                         |
|---------------|------------------------------------|-----------------------|-----------------------|-------------------------|
|               | Base Boom 9180                     | Mid-extend boom 15300 | Mid-extend boom 21300 | Fully-extend boom 27780 |
|               | Lifting load (kg)                  | Lifting load (kg)     | Lifting load (kg)     | Lifting load (kg)       |
| 3             | 30000                              |                       |                       |                         |
| 3.5           | 27800                              | 19700                 |                       |                         |
| 4             | 24200                              | 19500                 | 12800                 |                         |
| 4.5           | 21700                              | 19100                 | 12800                 | 8200                    |
| 5             | 20100                              | 18400                 | 11900                 | 8200                    |
| 5.5           | 18200                              | 16900                 | 11200                 | 8200                    |
| 6             | 16500                              | 15800                 | 10700                 | 8200                    |
| 6.5           | 15200                              | 14700                 | 10000                 | 7800                    |
| 7             |                                    | 13800                 | 8900                  | 7200                    |
| 8             |                                    | 12700                 | 7900                  | 6400                    |
| 9             |                                    | 11200                 | 7200                  | 5800                    |
| 10            |                                    | 8700                  | 6500                  | 5300                    |
| 11            |                                    | 7200                  | 5700                  | 4900                    |
| 12            |                                    | 5800                  | 4800                  | 4500                    |
| 13            |                                    | 4900                  | 4200                  | 4200                    |
| 14            |                                    | 4200                  | 3700                  | 3900                    |
| 15            |                                    |                       | 2900                  | 3600                    |
| 16            |                                    |                       | 2700                  | 3200                    |
| 17            |                                    |                       | 2200                  | 2800                    |
| 18            |                                    |                       |                       | 2500                    |
| 19            |                                    |                       |                       | 2200                    |
| 20            |                                    |                       |                       | 1800                    |
| 22            |                                    |                       |                       | 1500                    |
| 24            |                                    |                       |                       | 1200                    |
| Rate          | 10                                 | 8                     | 6                     | 4                       |
| Hook standard | For 30T                            |                       |                       |                         |
| Hook weight   | 280Kg                              |                       |                       |                         |

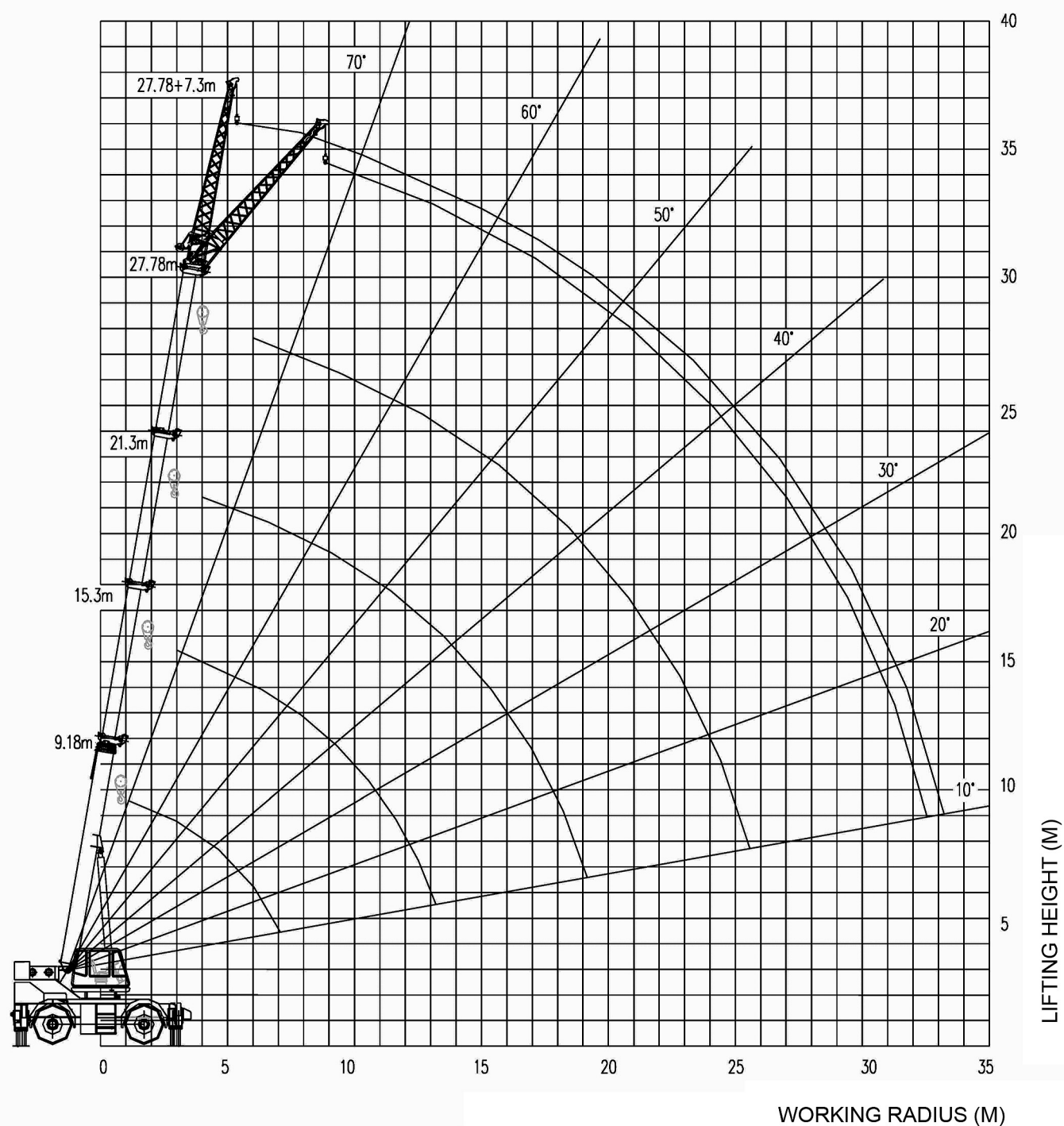
| Radius (m)    | Without outriggers, 360° swing |                       |                       |
|---------------|--------------------------------|-----------------------|-----------------------|
|               | Base boom 9180                 | Mid-extend boom 15300 | Mid-extend boom 21300 |
|               | Lifting load (kg)              | Lifting load (kg)     | Lifting load (kg)     |
| 3             | 8500                           |                       |                       |
| 3.5           | 7600                           | 7200                  |                       |
| 4             | 6500                           | 6400                  | 4800                  |
| 4.5           | 5800                           | 5300                  | 4600                  |
| 5             | 5100                           | 4600                  | 4100                  |
| 5.5           | 4500                           | 3900                  | 3700                  |
| 6             | 3700                           | 3200                  | 3200                  |
| 6.5           | 2800                           | 2500                  | 2700                  |
| 7             |                                | 2100                  | 2300                  |
| 8             |                                | 1800                  | 1900                  |
| 9             |                                | 1400                  | 1600                  |
| 10            |                                | 1000                  | 1200                  |
| 11            |                                |                       | 860                   |
| Rate          | 8                              | 6                     | 4                     |
| Hook standard | For 30T                        |                       |                       |
| Hook weight   | 280Kg                          |                       |                       |

TOTAL RATED LIFTING LOAD FOR JIB

| Radius (m)    | Without outriggers, lifting travel, Drive with load: ≤2Km/h |                       |                       |
|---------------|-------------------------------------------------------------|-----------------------|-----------------------|
|               | Base boom 9180                                              | Mid-extend boom 15300 | Mid-extend boom 21300 |
|               | Lifting load (kg)                                           | Lifting load (kg)     | Lifting load (kg)     |
| 3             | 11000                                                       |                       |                       |
| 3.5           | 11000                                                       | 8200                  |                       |
| 4             | 10200                                                       | 8200                  | 6000                  |
| 4.5           | 9700                                                        | 8100                  | 6000                  |
| 5             | 8500                                                        | 7400                  | 6000                  |
| 5.5           | 7300                                                        | 6500                  | 5400                  |
| 6             | 6300                                                        | 5800                  | 5100                  |
| 6.5           | 5400                                                        | 5200                  | 4700                  |
| 7             |                                                             | 4700                  | 4300                  |
| 8             |                                                             | 3800                  | 3800                  |
| 9             |                                                             | 3000                  | 3200                  |
| 10            |                                                             | 2500                  | 2800                  |
| 11            |                                                             | 2000                  | 2300                  |
| 12            |                                                             | 1600                  | 2000                  |
| 13            |                                                             | 1200                  | 1700                  |
| 14            |                                                             |                       | 1200                  |
| 15            |                                                             |                       | 1000                  |
| 16            |                                                             |                       | 850                   |
| 17            |                                                             |                       | 700                   |
| 18            |                                                             |                       | 500                   |
| Rate          | 8                                                           | 6                     | 4                     |
| Hook standard | For 30T                                                     |                       |                       |
| Hook weight   | 280kg                                                       |                       |                       |

| Boom angle (°) | Boom 27.78m      |                   |            |                   |
|----------------|------------------|-------------------|------------|-------------------|
|                | Jib 7.3m         |                   |            |                   |
|                | Offset angle (°) |                   |            |                   |
|                | 0°               |                   | 30°        |                   |
|                | Radius (m)       | Lifting load (kg) | Radius (m) | Lifting load (kg) |
| 80             | 4.77             | 3000              | 8.19       | 1600              |
| 76             | 7.16             | 3000              | 10.46      | 1600              |
| 72             | 9.51             | 3000              | 12.68      | 1600              |
| 70             | 10.67            | 2800              | 13.76      | 1600              |
| 65             | 13.49            | 2350              | 16.38      | 1500              |
| 60             | 16.2             | 2000              | 18.87      | 1350              |
| 55             | 18.77            | 1500              | 21.2       | 1200              |
| 50             | 21.19            | 1100              | 23.37      | 1000              |
| 45             | 23.45            | 800               | 25.34      | 750               |
| 40             | 25.51            | 600               |            |                   |
| 35             | 27.37            | 450               |            |                   |
| 30             | 29               | 300               |            |                   |

# LIFTING CHART



[www.powerplus.us](http://www.powerplus.us)

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