

**LIUGONG**

# 4280DE

## ELECTRIC GRADER



|                                |               |
|--------------------------------|---------------|
| <b>BATTERY TYPE</b>            | LFP           |
| <b>RATED STORAGE ENERGY</b>    | 423 kWh       |
| <b>OPERATING WEIGHT</b>        | 24,000 kg     |
| <b>STANDARD MOLDBOARD SIZE</b> | 4270x645x19mm |
| <b>MAX. BLADE PULL</b>         | 123 kN        |
| <b>MINIMUM TURNING RADIUS</b>  | 7,500 mm      |



B A T T E R Y   E L E C T R I C   V E H I C L E

TOUGH WORLD. TOUGH EQUIPMENT.

# 4280DE SPECIFICATIONS >>>

## POWER BATTERY

|  |              |
|--|--------------|
| Battery Type                             | LFP          |
| Rated Storage Energy                     | 423 kWh      |
| Nominal Voltage                          | 618 V        |
| System Voltage                           | DC24V        |
| BMS Protection Level                     | IP67         |
| Recommended Charger                      | 120 ~ 300 kW |
| Charging Time<br>(300 kW Charging Power) | ≤ 80 min     |

## DRIVE MOTOR

|                     |  |
|---------------------|--|
| Peak Power          | 160 kW   |
| Protection Level    | IP67   |
| Ambient Temperature | - 30 ~ 85°C  |
| Cooling Type        | Intelligent temperature control,<br>liquid cooling |
| Altitude            | ≤ 5,000 m  |

## HYDRAULIC MOTOR

|                     |  |
|---------------------|--|
| Peak Power          | 70 kW  |
| Protection Level    | IP67   |
| Ambient Temperature | - 30 ~ 85°C  |
| Cooling Type        | Intelligent temperature control,<br>liquid cooling |
| Altitude            | ≤ 5,000 m  |

## TRANSMISSION

|                             |                                    |
|-----------------------------|------------------------------------|
| Manufacturer                | LiuGong                            |
| Number of Speeds, fwd / rev | 2 / 2                              |
| Maximum Travel Speed, fwd   | 40 km/h                            |
| Maximum Travel Speed, rev   | 28 km/h                            |
| Transmission Type           | Planetary electronic control shift |

## AXLES

|                  |              |
|------------------|--------------|
| Type             | NAF wet axle |
| Axle Oscillation | ± 15°        |
| Tire Size        | 20.5R25 ★L-3 |

## WORKING HYDRAULICS

|               |                                  |
|---------------|----------------------------------|
| System        | Variable single pump             |
| Operation     | Dual electronic-control joystick |
| Work Pump     | Variable pump                    |
| Work Pressure | 21 MPa                           |

## STEERING HYDRAULICS

|                          |              |
|--------------------------|--------------|
| System                   | Load sensing |
| Steering Relief Pressure | 16.7 MPa     |

## BRAKES

|                         |                                     |
|-------------------------|-------------------------------------|
| Service Brake Type      | Dual circuit full hydraulic braking |
| Service Brake Actuation | Hydraulic wet brake                 |
| Service Brake Pressure  | 6.2 MPa                             |
| Parking Brake Type      | Disk (electronic control)           |
| Parking Brake Actuation | Electric-hydraulic control          |

## LOADER ARM PERFORMANCE

|                                   |                |
|-----------------------------------|----------------|
| Operating Weight                  | 24,000 kg      |
| Standard Moldboard Size           | 4270x645x19 mm |
| Max. Blade Pull (f = 0.75)        | 123 kN         |
| Minimum Turning Radius            | 7,500 mm       |
| Maximum Travel Speed, fwd         | 40 km/h        |
| Maximum Travel Speed, rev         | 28 km/h        |
| Steering Angle                    | ±50°           |
| Front Axle, Wheel Lean Angle      | ±18°           |
| Front Axle Oscillation            | ±16°           |
| Ground Clearance-Front Axle       | 545 mm         |
| Maximum Lift Above Ground         | 500 mm         |
| Maximum Depth of Cut              | 838 mm         |
| Maximum Sloping Angle             | 90°            |
| Circle Rotation                   | 360°           |
| Moldboard Side Shift, left /right | 575/825 mm     |
| Bank Cut Angle                    | 28°-71°        |
| Frame Articulation Angle          | ±27°           |

## DIMENSIONS

|                                 |          |
|---------------------------------|----------|
| Ground Clearance                | 422 mm   |
| Wheelbase                       | 6,700 mm |
| Cab Height                      | 3,530 mm |
| Middle and Rear Wheel Wheelbase | 1,632 mm |
| Overall Width Over Tires        | 2,860 mm |
| Length (Standard configuration) | 9,980 mm |

## SERVICE CAPACITIES

|                     |       |
|---------------------|-------|
| Anti-freeze         | 45 L  |
| Hydraulic Reservoir | 110 L |
| Axle, Rear          | 210 L |
| Transmission        | 28 L  |

