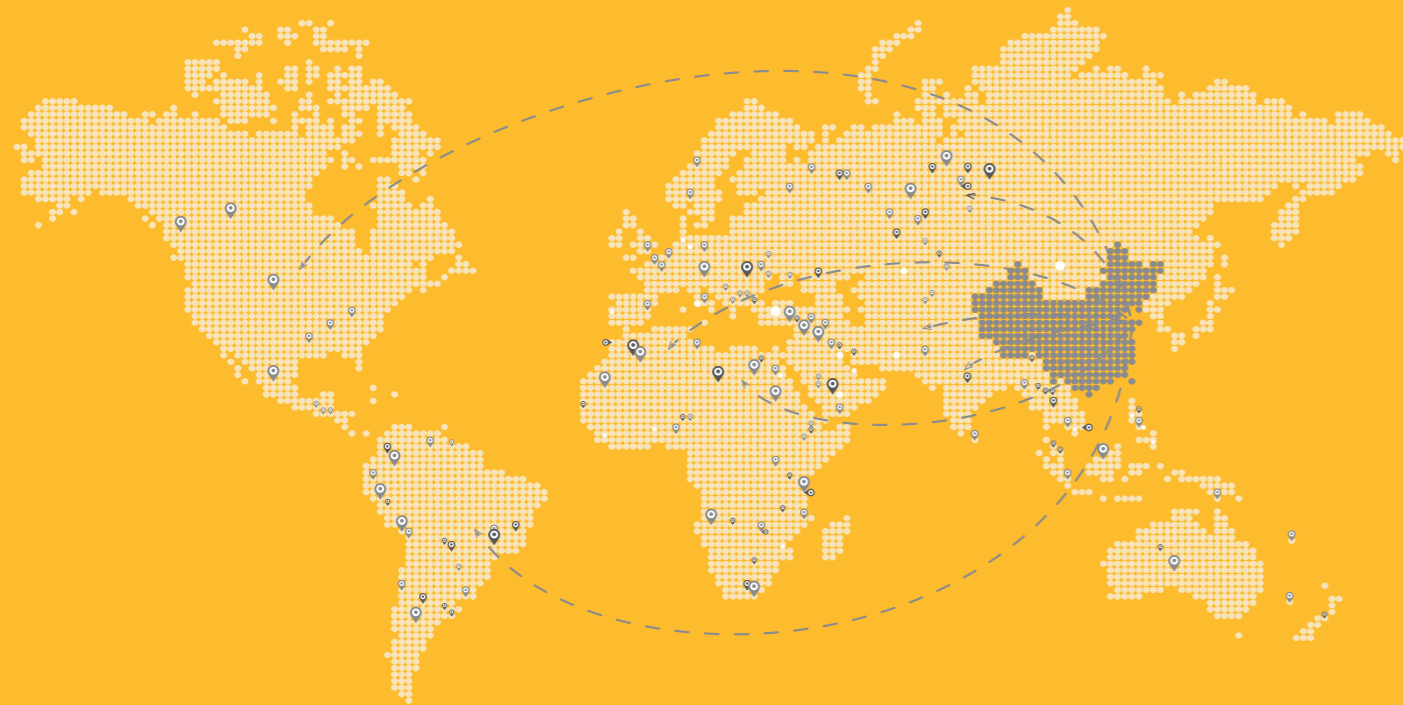


# LOVOL

# FB878M BACKHOE LOADER

|   |                                       |
|---|---------------------------------------|
| Rated payload/kg                        | 2000kg                                |
| Rated power/kW                          | 74kW                                  |
| Standard bucket capacity/m <sup>3</sup> | 1.0m <sup>3</sup> /0.18m <sup>3</sup> |



**ADDRESS:** No. 75, Huanghe East Road, Huangdao District, Qingdao City, Shandong Province, China.

**TEL:** +86-532-86907190

**E-MAIL:** lovol\_overseas@global.lovol.com

**WEB:** en.wlovol.com

**LOVOL HEAVY INDUSTRY GROUP CO.,LTD.**



**Machine Parameters**

|   |                |
|---|----------------|
| Rated payload/kg  | 2000           |
| Curb weight/kg  | 8230           |
| Maximum traction force/kN                                 | 80             |
| Maximum breakout force of arm cylinder at loading end/kN  | 44             |
| Maximum breakout force of boom cylinder at loading end/kN | 30             |
| Overall dimensions (L×W×H)/mm                             | 7330×2420×3500 |
| Minimum ground clearance/mm                               | 350            |
| Wheel base/mm   | 2170           |
| Front wheel track/mm                                      | 1880           |
| Rear wheel track/mm                                       | 1730           |
| Departure angle°  | 17             |
| Front axle swing angle°                                   | 11             |
| Minimum turning radius of bucket outside/mm               | 6340           |
| Minimum turning radius of tire center/mm                  | 5120           |

**Loading Working Device**

|   |                |
|---|----------------|
| Maximum discharging height/mm   | 2710           |
| Discharging distance/mm   | 770            |
| Hinge pin height/mm   | 210            |
| Boom length/mm  | 2500           |
| Discharging angle°  | 45             |
| Bucket rollback angle°  | 45             |
| Standard bucket capacity/m³   | 1.0            |
| Standard bucket dimensions (L×W×H)/mm (hinge joint to bucket teeth front) | 2420X1918X1221 |
| Bucket weight/kg  | 1064           |

**Excavation Working Device**

|                               |           |
|-------------------------------|-----------|
| Maximum excavation height/mm  | 5110/5815 |
| Maximum excavation depth/mm   | 4340/5500 |
| Maximum excavation radius/mm  | 5370/6460 |
| Maximum discharging height/mm | 3470/4170 |
| Standard bucket capacity/m³   | 0.18      |
| Bucket weight/kg              | 143       |

**Engine**

|   |                       |
|---|-----------------------|
| Model   | WEICHAI WP4.1G100E311 |
| Emission standard                                   | Tier II / III         |
| Engine intake method                                | Supercharger          |
| Number of cylinders - cylinder diameter × stroke/mm | 4-105×118             |
| Displacement/L                                      | 4.088                 |
| Rated power/kW                                      | 74                    |
| Rated speed/rpm                                     | 2200                  |
| Maximum torque/N·m                                  | 420                   |

**Transmission**

|                          |  |
|--------------------------|--|
| Brand                    | CARRARO  |
| Transmission type        | Oil bath brake(Wet Brake)                            |
| Type of torque converter | Single-stage single-phase hydraulic torque converter |
| Torque coefficient       | 2.64   |
| Gear shift               | 4/4  |
| Forward speed ratio      | 5.603/3.480/1.584/0.793                              |
| Reverse speed ratio      | /  |
| Forward I (km/h)         | 5  |
| Forward II (km/h)        | 8  |
| Forward III (km/h)       | 18   |
| Forward IV (km/h)        | 28   |
| Reverse I (km/h)         | 5  |
| Reverse II (km/h)        | 8  |
| Reverse III (km/h)       | 18   |
| Reverse IV (km/h)        | /  |

**Front Axle**

|                                       |                    |
|---------------------------------------|--------------------|
| Type                                  | 4 Wheel drive(4WD) |
| Input torque/speed/transmission ratio | 04 1800/3000/14.77 |

|                                       |                     |
|---------------------------------------|---------------------|
| <b>Rear axle</b>                      |                     |
| Type                                  | 4 Wheel drive(4WD)  |
| Input torque/speed/transmission ratio | 04 2000/3000/16.154 |

|                         |                 |
|-------------------------|-----------------|
| <b>Front Tire</b>       |                 |
| Specifications          | 14-17.5-14PR TL |
| Ply rating              | 14              |
| Front tire pressure/Mpa | 0.29±0.01       |

|                        |                 |
|------------------------|-----------------|
| <b>Rear Tire</b>       |                 |
| Specifications         | 19.5-24-12PR TL |
| Ply rating             | 12              |
| Rear tire pressure/Mpa | 0.29±0.01       |

**Steering Hydraulic System**

|                                |   |
|--------------------------------|---|
| Steering hydraulic system type | Load sensing full hydraulic steering system/ single pump split flow |
| System working pressure/Mpa    | 16  |
| Steering pump model            | HP3V80  |
| Displacement/L                 | 75  |

**Loading End**

|   |   |
|---|---|
| Control mode                                    | Mechanical manipulation   |
| Hydraulic working system type                   | Load sensing full hydraulic steering system/ single pump split flow |
| System working pressure/Mpa                     | 25  |
| Working pump model                              | HP3V80  |
| Displacement/L                                  | 75  |
| Multi-way valve model                           | MX12-C18-XB02   |
| Pilot working pressure/Mpa                      | /   |
| Boom cylinder - cylinder diameter × stroke/mm   | 75-50×713   |
| Bucket cylinder - cylinder diameter × stroke/mm | 70-40×733   |
| Boom lifting time/s                             | 4.6   |
| Discharging/s                                   | 2.0   |
| Boom lowering time/s                            | 3.2   |
| Total time/s                                    | 9.8   |

**Excavator End**

|   |                               |
|---|-------------------------------|
| Control mode                                    | Pilot manipulation            |
| Hydraulic working system type                   | Load sensing hydraulic system |
| System working pressure/Mpa                     | 25                            |
| Working pump model                              | HP3V80                        |
| Displacement/L                                  | 75                            |
| Multi-way valve model                           | MX18-G61-XA00                 |
| Pilot working pressure/Mpa                      | 4                             |
| Boom cylinder - cylinder diameter × stroke/mm   | 110-60×971                    |
| Arm cylinder - cylinder diameter × stroke/mm    | 100-60×748                    |
| Bucket cylinder - cylinder diameter × stroke/mm | 90-60×687                     |

**Braking**

|                    |                                       |
|--------------------|---------------------------------------|
| Service brake      | Hydraulic power brake                 |
| Parking brake      | Mechanical caliper disc parking brake |
| Brake pressure/Mpa | 4.1-5.3                               |

**Air Conditioner**

|                            |               |
|----------------------------|---------------|
| Working medium (heat/cool) | Coolant/R134a |
| Cooling capacity/kW        | 4.5           |

**Appliances**

|                               |       |
|-------------------------------|-------|
| System voltage/bulb voltage/V | 12    |
| Battery                       | 180Ah |

**Body**

|                                   |                |
|-----------------------------------|----------------|
| Cab overall dimensions (L×W×H)/mm | 2063X2270X1947 |
| Cab weight/kg                     | 813            |

**Oil**

|   |   |
|---|---|
| Fuel tank (geometric volume)/L                | 120   |
| Hydraulic oil tank (midline of level gauge)/L | 100   |
| Engine oil/L                                  | 10  |
| Transmission oil/L                            | 14  |
| Front axle/L                                  | Final reduction drive: 5.7, hub reduction gear: 0.7X2 |
| Rear axle/L                                   | Final reduction drive: 10, hub reduction gear: 1.5X2  |
| Antifreeze/L                                  | 14  |

**FB878M**

