

**BACKHOE LOADER****820****Specification**

|                  |                 |
|------------------|-----------------|
| Operating Weight | 7165 kg         |
| Net Engine Power | 70 kW (93.8 hp) |
| Dig Depth        | 4471 – 5815 mm  |

**Benefits**

- Engine emission compliant to EU Stage 3A, US EPA Tier 3
- 500 hours service period
- 4 speed synchro shuttle gearbox
- High transport speed for reduced highway journey times
- Foot operated differential lock for ease of operation
- High capacity long life sealed wet disc brakes
- Selectable 2 or 4 wheel braking
- Closed centre flow sharing hydraulics
- Cleanable hydraulic oil coolers

## Specification

### Engine

|  |                      |
|--|----------------------|
| Engine Model   | 1104D-44T            |
| Capacity   | 4.4 ltr              |
| Rated Speed  | 2200 rpm             |
| Gross Power @ 2200 rpm Cert. Rating to UN/ECE R120     | 70 (93.8*) kW (hp)   |
| Derived Net Rating @ 2200 rpm to ISO/80/1269/EC        | 65.7* (88.1*) kW(hp) |
| Max Torque @ 1400 rpm<br>UN/ECE R120<br>ISO 80/1269/EC | 392 Nm<br>372*Nm     |

\*Nominal Non-Certified Values

### Transmission

| Tyres         | Front:                    | Rear:                  |
|---------------|---------------------------|------------------------|
|               | 12.5 / 80x18<br>12.5 x 18 | 12.5 x 18<br>16.9 x 30 |
| Travel Speeds | Forward:                  | Reverse:               |
| 1st           | 5.8 km/h                  | 6.1 km/h               |
| 2nd           | 9.4 km/h                  | 9.9 km/h               |
| 3rd           | 19.6 km/h                 | 20.6 km/h              |
| 4th           | 37.0 km/h                 | 38.9 km/h              |

### Loader Performance

|                              | Standard Shovel | 7-in1 Shovel |
|------------------------------|-----------------|--------------|
| Shovel Breakout              | 46,640 N        | 44,915 N     |
| Arms Breakout                | 45,945 N        | 42,610 N     |
| Lift Capacity To Full Height | 3449 kg         | 3058 kg      |

### Loader Attachments

|          | Standard Shovel    | 7-in1 Shovel       |
|----------|--------------------|--------------------|
| Width    | 2311 mm            | 2311 mm            |
| Capacity | 1.0 m <sup>3</sup> | 1.0 m <sup>3</sup> |
| Weight   | 400 kg             | 730 kg             |

### Backhoe Attachments

| Attachments    | Width   | Capacity | Weight |
|----------------|---------|----------|--------|
| Trench Bkts    | 305 mm  | 83 ltrs  | 94 kg  |
|                | 450 mm  | 124 ltrs | 112 kg |
|                | 600 mm  | 184 ltrs | 134 kg |
|                | 600 mm  | 233 ltrs | 143 kg |
|                | 750 mm  | 248 ltrs | 155 kg |
|                | 900 mm  | 312 ltrs | 177 kg |
| Ditch cleaning | 1525 mm | 220 ltrs | 145 kg |
|                | 1830 mm | 300 ltrs | 176 kg |
| Sq hole bucket | 900 mm  | 125 ltrs | 160 kg |

### Backhoe Performance

|   | Standard Dipper | Deep Dig Dipper |           |
|---|-----------------|-----------------|-----------|
|   |                 | Ret             | Ext       |
| Slew Torque                                   | 16,100 Nm       | 11,875 Nm       | 16,100 Nm |
| Dipper Tearout                                | 85,025 Nm       | 38,700 Nm       | 25,930 Nm |
| Bucket Tearout                                | 51,585 Nm       | 51,585 Nm       | 51,585 Nm |
| Hydraulic Lift Capacity<br>(Including Bucket) | 1384 kg         | 1148 kg         | 812 kg    |

### Total Machine Weight

|                                 |         |
|---------------------------------|---------|
| Total Machine Weight            | 7165 kg |
| <i>Add/Delete</i>               |         |
| 7 in 1 Multi - Purpose          | +330 kg |
| 7 in 1 Multi - Purpose Fork Kit | +150 kg |
| Deep Dig Dipper                 | +217 kg |
| ROPS Frame                      | -192 kg |

### Axles and Brakes

| Axle Ratings | Tyres     | SAE J43 |
|--------------|-----------|---------|
| Front        | 12.5 x 18 | 6207 kg |
| Rear         | 16.9 x 28 | 6155 kg |

### Hydraulics

|                                       |           |
|---------------------------------------|-----------|
| Main Pump @ 2200 rpm                  | 80 lpm    |
| Secondary Pump @ 2200 rpm             | 62 lpm    |
| System Main Relief Setting @ 2200 rpm | 225 bar   |
| Unloader Settings @ 2200 rpm          | 207 bar   |
| Combined flow                         | 142 l/min |

### Electrics

|  |
|--|
| 12 volt system                           |
| Battery step mounted for good access     |
| Low maintenance battery                  |
| 100 A alternator                         |
| Connectors sealed against water and dust |
| 33 circuit fuses                         |
| 25 circuit relays                        |
| Battery isolator                         |

### Forks

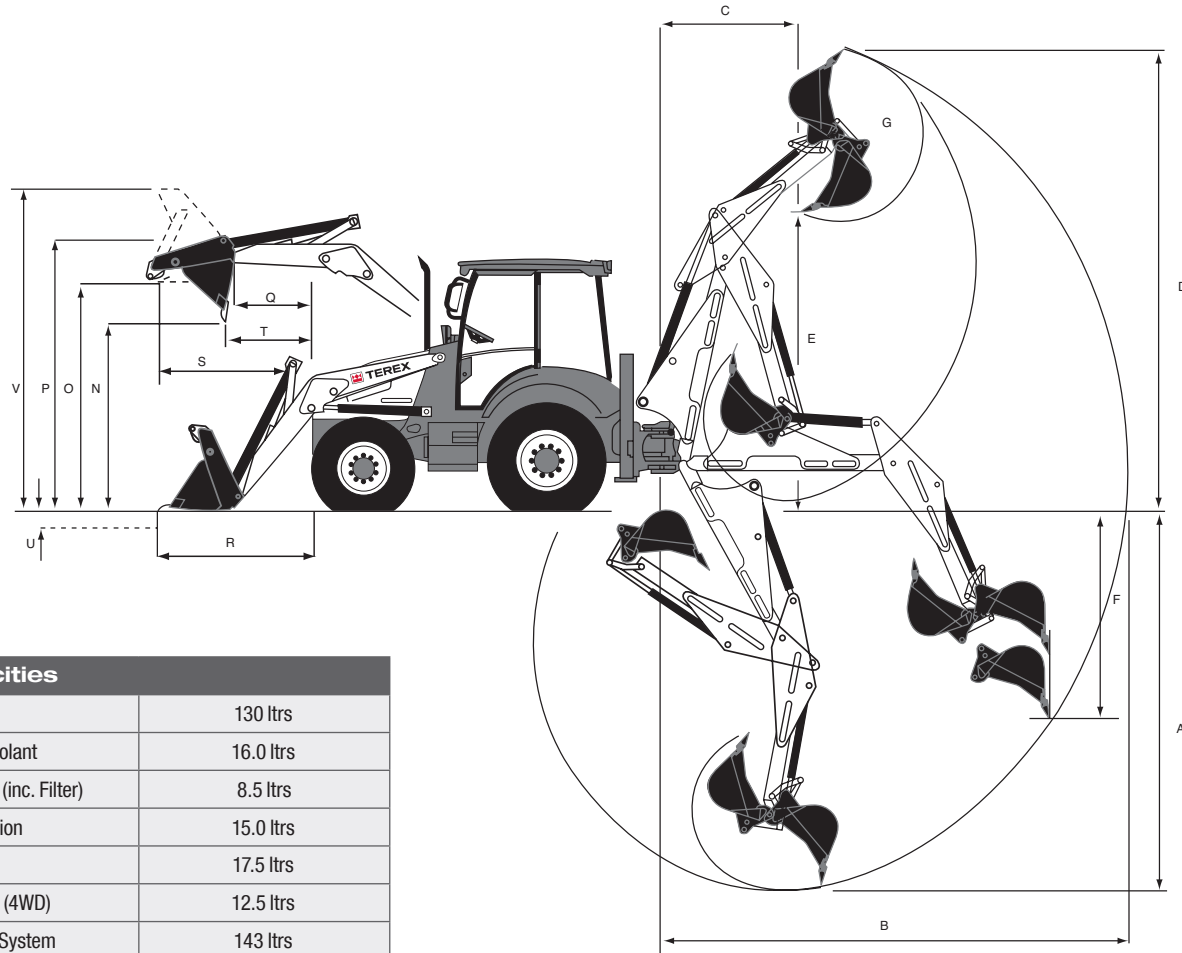
|                              |         |
|------------------------------|---------|
| Fork Length                  | 1067 mm |
| Section Width                | 80 mm   |
| Assembly Weight              | 150 kg  |
| Max. Operating Height        | 3097 mm |
| Reach at Ground Level        | 2697 mm |
| Reach at Full Height         | 2232 mm |
| S.W.L. at 500 mm Load Centre | 1000 kg |

### Turning Circles

|                | Over Tyres | Over Bucket |
|----------------|------------|-------------|
| Without Brakes | 7.7 m      | 10.7 m      |
| With Brakes    | 6.8 m      | 10.0 m      |

Depending on tyre size

## Working Ranges



### Capacities

|                          |           |
|--------------------------|-----------|
| Fuel Tank                | 130 ltrs  |
| Engine Coolant           | 16.0 ltrs |
| Engine Oil (inc. Filter) | 8.5 ltrs  |
| Transmission             | 15.0 ltrs |
| Rear Axle                | 17.5 ltrs |
| Front Axle (4WD)         | 12.5 ltrs |
| Hydraulic System         | 143 ltrs  |

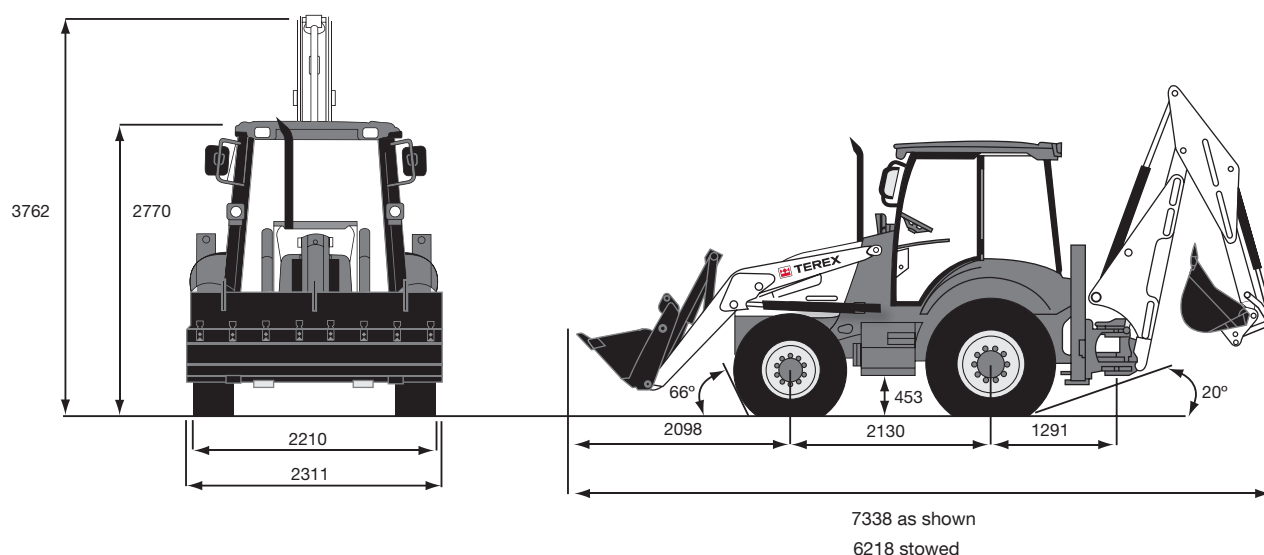
### Backhoe Dimensions

|          |  | Standard Dipper | Deep Dig Dipper |         |
|----------|--|-----------------|-----------------|---------|
|          |  |                 | Ret             | Ext     |
| <b>A</b> | Dig Depth - Maximum SAE<br>2ft Flat Bottom SAE | 4471 mm         | 4471 mm         | 5815 mm |
|          |  | 4455 mm         | 4455 mm         | 5804 mm |
| <b>B</b> | Reach - Ground Level to Slew                   | 5730 mm         | 5730 mm         | 7020 mm |
| <b>C</b> | Loading Reach                                  | 1996 mm         | 1996 mm         | 2924 mm |
| <b>D</b> | Operating Height                               | 5659 mm         | 5659 mm         | 6637 mm |
| <b>E</b> | Loading Height SAE<br>Max Load Height          | 3553 mm         | 3553 mm         | 4531 mm |
|          |  | 3871 mm         | 3871 mm         | 4849 mm |
| <b>F</b> | Maximum Straight Wall Dig Depth                | 2602 mm         | 2602 mm         | 3991 mm |
| <b>G</b> | G Bucket - Rotation                            | 194°            | 194°            | 194°    |
|          | Total Side Shift                               | 1286 mm         | 1286 mm         | 1286 mm |
|          | Stabiliser Spread                              | 2115 mm         | 2115 mm         | 2115 mm |
|          | Max Levelling Angle                            | 8°              | 8°              | 8°      |

### Loader Dimensions

|          |   | Standard 7 Shovel  | 7-in-1 Shovel      |
|----------|---|--------------------|--------------------|
|          |   |                    |                    |
| <b>N</b> | Dump Clearance at 45°<br>Dump Height (Fully Dumped)             | 2708 mm<br>2629 mm | 2708 mm<br>2629 mm |
| <b>O</b> | Loadover Height   | 3310 mm            | 3319 mm            |
| <b>P</b> | Hinge Pin Height  | 3550 mm            | 3550 mm            |
| <b>Q</b> | Pin Forward Reach   | 352 mm             | 352 mm             |
| <b>R</b> | Reach at Ground   | 1622 mm            | 1622 mm            |
| <b>S</b> | Max. Reach at Full Height                                       | 1282 mm            | 1282 mm            |
| <b>T</b> | Reach at Full Height- 45°<br>Reach at Full Height- Fully Dumped | 829 mm             | 829 mm             |
|          |   | 645 mm             | 645 mm             |
| <b>U</b> | Dig Depth   | 156 mm             | 156 mm             |
|          | Rollback at Ground  | 45°                | 45°                |
|          | Max Dump Angle  | 57°                | 57°                |
| <b>V</b> | Overall Operating Height  | 4230 mm            | 4580 mm            |

## Dimensions



## Specifications

| Cab  |   |
|--|---|
| Low internal noise level of just 78 dBA  | Instrumentation easy to clean   |
| Large areas of tinted glass allow superb all round visibility  | Heavy duty easy to clean rubber floor mat   |
| Spacious interior giving ample room to the operator at both work stations  | Twin externally mounted rear view mirrors   |
| Low line curved hood enhances forward visibility   | Wide door opening, self-cleaning steps and large grab rails make access easy  |
| Hazard warning and full lighting controls  | Full depth rear window for comprehensive visibility to the trench   |
| Adjustable tilt steering wheel to suit all operating styles  | Fully adjustable suspension seat with lap belt maximises operator comfort   |
| Audible/visual warning covering park brake, transmission oil temp, engine coolant, engine oil pressure, hydraulic oil filter and air cleaner | Visual indication on 4wd engagement, hazard lights, main beam, battery charge, direction indicators and front / rear wipers |
| In the raised position the rear window provides ventilation yet gives protection from rain   | ROPS canopy version available   |
| Vandal covers for the instrumentation consoles on the ROPS canopy  | Door windows can be partially or fully opened for maximum ventilation   |
| Air re-circulation enables quick warm up on cold days  | Adjustable rear working lights  |
| Cab is ROPS and FOPS approved for operator comfort   | Two front and two rear defrosting vents   |
| Well laid out controls for ease of operation   | Powerful 3 speed heater supplies a further two forward and three rear vents   |
| Touch operated switches for operator convenience   | Air conditioning option available   |
| Extensive stowage facilities   |   |

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