

# 922F

EXCAVATOR

|                           |  |                                   |  |   |
|---------------------------|--|-----------------------------------|--|---|
| ENGINE<br>Cummins<br>B6.7 | OPERATING WEIGHT<br>50,265 lb<br>(22,800 kg) | GROSS POWER<br>158 hp<br>(116 kW) | BUCKET CAPACITY<br>1.44 yd <sup>3</sup><br>(1.1 m <sup>3</sup> ) | MAX. DIGGING DEPTH<br>22 ft<br>(6,700 mm) |
|---------------------------|--|-----------------------------------|--|---|





# SPECIFICATIONS

## ENGINE

High pressure common rail, electronically controlled direct injection fuel system with 3 power modes, auto-idle and auto-shutdown features.

|                     |                                      |
|---------------------|--------------------------------------|
| Emissions rating    | EPA Tier 4 Final/EU Stage V          |
| Make                | Cummins                              |
| Model               | B6.7                                 |
| Aspiration          | Variable-Geometry Turbocharged (VGT) |
| Charged air cooling | Aftercooler                          |
| Cooling fan drive   | (6) Electric motors, reversing       |
| Displacement        | 409 in <sup>3</sup> (6.7 L)          |
| Gross power         | 158 hp (116 kW) @ 2,200 rpm          |
| Net power           | 147 hp (108 kW) @ 2,200 rpm          |
| Peak torque         | 550 lbf-ft (746 N-m) @ 1,300 rpm     |
| Cylinders           | 6-cylinder, in-line, water-cooled    |
| Bore x Stroke       | 4.2 in x 4.9 in (107 mm x 124 mm)    |

## HYDRAULIC SYSTEM

|                               |   |
|-------------------------------|---|
| Main pump, type               | Two variable displacement piston pumps                            |
| Main pump, maximum flow       | 2 x 60 gpm (2 x 228 L/min)  |
| Implement pressure            | Normal: 4,975 psi (34.3 MPa)<br>Power boost: 5,410 psi (37.3 MPa) |
| Auxiliary 1, one-way pressure | 2,610 psi (18.0 MPa)  |
| Auxiliary 1, two-way pressure | 4,350 psi (30 MPa)  |
| Auxiliary 1, maximum flow     | 40 gpm (150 L/min)  |
| Auxiliary 2, two-way pressure | 3,200 psi (22 MPa)  |
| Auxiliary 2, maximum flow     | 12 gpm (45 L/min)   |
| Slew circuit pressure         | 4,000 psi (27.6 MPa)  |
| Travel circuit pressure       | 4,975 psi (34.3 MPa)  |
| Pilot pump, type              | Gear pump   |
| Pilot circuit pressure        | 508-566 psi (3.5-3.9 MPa)   |
| Pilot pump, maximum flow      | 4.6 gpm (17.5 L/min)  |

## OPERATING WEIGHT

|                           |                       |
|---------------------------|-----------------------|
| Operating weight, typical | 50,265 lb (22,800 kg) |
| Operating weight, maximum | 56,220 lb (25,500 kg) |

## SERVICE CAPACITIES

|                        |                   |
|------------------------|-------------------|
| Fuel tank              | 105.7 gal (400 L) |
| Engine oil             | 6.6 gal (25 L)    |
| Final drive, each      | 1.5 gal (5.5 L)   |
| Swing drive            | 0.9 gal (3.4 L)   |
| Cooling system         | 6.6 gal (25 L)    |
| Hydraulic reservoir    | 50.2 gal (190 L)  |
| Hydraulic system total | 79.3 gal (300 L)  |
| DEF tank               | 11.6 gal (44 L)   |

## UNDERCARRIAGE

|                           |                 |
|---------------------------|-----------------|
| Track shoe, each side     | 49              |
| Link pitch                | 7.5 in (190 mm) |
| Track shoe width, typical | 24 in (600 mm)  |
| Bottom rollers, each side | 8               |
| Top rollers, each side    | 2               |

## SWING SYSTEM

Planetary gear reduction driven by high torque axial piston motor, with oil disk brake. Swing parking brake resets within five seconds after swing controls return to neutral.

|              |                            |
|--------------|----------------------------|
| Swing speed  | 10.5 rpm                   |
| Swing torque | 57,680 lbf-ft (78,200 N-m) |

## DRIVE & BRAKES

2-speed axial piston motors with oil disk brakes. Steering controlled by two hand levers with pedals.

|                   |                          |
|-------------------|--------------------------|
| Max. travel speed | High: 3.5 mph (5.6 km/h) |
|                   | Low: 2.0 mph (3.3 km/h)  |
| Gradeability      | 35°/70%                  |
| Max. drawbar pull | 49,458 lbf (220 kN)      |

## ELECTRIC SYSTEM

|                |                          |
|----------------|--------------------------|
| System voltage | 24 V                     |
| Battery        | 2 x 12 V                 |
| Alternator     | 24 V-180 A               |
| Starter motor  | 24 V-10 hp (24 V-7.8 kW) |

## SOUND PERFORMANCE

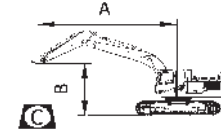
|                                 |          |
|---------------------------------|----------|
| Interior sound level (ISO 6396) | 68 dB(A) |
| Exterior sound level (ISO 6395) | 99 dB(A) |

# SPECIFICATIONS

- A: Load radius
- B: Load point height
- C: Lifting capacity
- Cf: Rating over front
- Cs: Rating over side



Conditions:  
 Boom length: 17 ft 0 in (5,170 mm)  
 Arm length: As specified  
 Counterweight: 8,818 lb (4,000 kg)  
 Shoes: As specified  
 Bucket: None



1. \*Indicates the load is limited by hydraulic capacity rather than the tipping capacity.
2. The below loads are in compliance with the ISO 10567 lift capacity rating standard and do not exceed 87% of the hydraulic lifting capacity or 75% of the tipping load.
3. Rating at bucket lift point.

## 922F WITH 24 IN (600 MM) SHOES, 7 FT 10 IN (2,400 MM) ARM

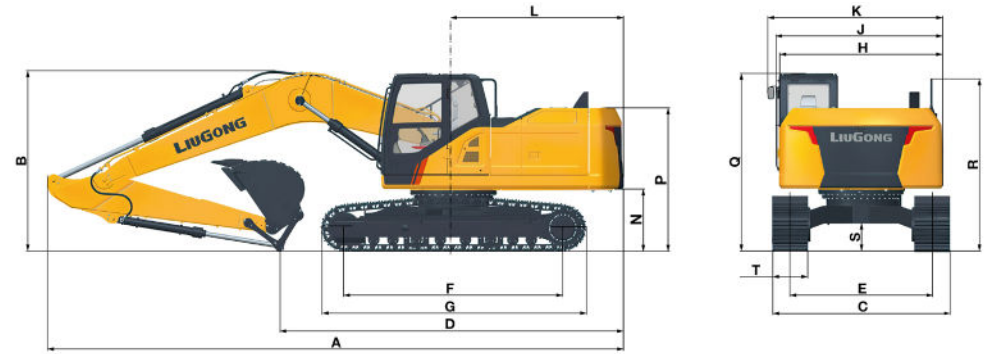
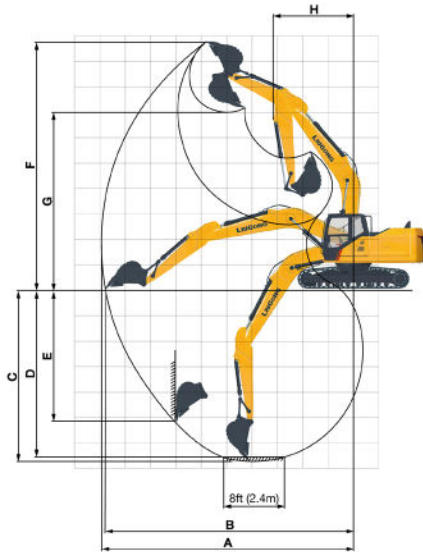
| A Reach: ft (m)       |              |                    |                    |                    |                   |                   |                   |                   |                |             |    |                   |                   |                      |
|-----------------------|--------------|--------------------|--------------------|--------------------|-------------------|-------------------|-------------------|-------------------|----------------|-------------|----|-------------------|-------------------|----------------------|
| B: Height ft (m)      | Weight lb kg | 10 ft (3 m)        |                    | 15 ft (4.5 m)      |                   | 20 ft (6 m)       |                   | 25 ft (7.5 m)     |                | 26 ft (8 m) |    | MAX REACH         |                   |                      |
|                       |              | Cf                 | Cs                 | Cf                 | Cs                | Cf                | Cs                | Cf                | Cs             | Cf          | Cs | Cf                | Cs                | Distance             |
| 25 ft 0 in<br>7.5 m   | lb<br>kg     |                    |                    |                    |                   |                   |                   |                   |                |             |    | *11,720<br>*5,316 | *11,720<br>*5,316 | 18 ft 4 in<br>5.6 m  |
| 20 ft 0 in<br>6 m     | lb<br>kg     |                    |                    |                    |                   | *11,275<br>*5,114 | *11,275<br>*5,114 |                   |                |             |    | *11,398<br>*5,170 | 9,818<br>4,453    | 22 ft 4 in<br>6.8 m  |
| 15 ft 0 in<br>4.5 m   | lb<br>kg     | *19,738<br>*8,953  | *19,738<br>*8,953  | *14,301<br>*6,487  | *14,301<br>*6,487 | *12,218<br>*5,542 | 11,718<br>5,315   |                   |                |             |    | *11,503<br>*5,218 | 8,297<br>3,763    | 24 ft 7 in<br>7.5 m  |
| 10 ft 0 in<br>3 m     | lb<br>kg     |                    |                    | *17,991<br>*8,160  | 16,578<br>7,520   | *13,827<br>*6,272 | 11,152<br>5,058   | *12,010<br>*5,448 | 8,111<br>3,679 |             |    | *11,781<br>*5,344 | 7,490<br>3,398    | 25 ft 1 in<br>7.9 m  |
| 5 ft 0 in<br>1.5 m    | lb<br>kg     |                    |                    | *21,106<br>*9,574  | 15,443<br>7,005   | *15,429<br>*6,999 | 10,600<br>4,808   | *12,730<br>*5,774 | 7,862<br>3,566 |             |    | 11,665<br>5,291   | 7,183<br>3,258    | 26 ft 3 in<br>8 m    |
| Ground Level          | lb<br>kg     |                    |                    | *22,406<br>*10,163 | 14,918<br>6,767   | *16,444<br>*7,459 | 10,23<br>4,642    | 12,616<br>5,722   | 7,684<br>3,485 |             |    | 11,954<br>5,422   | 7,309<br>3,315    | 25 ft 7 in<br>7.8 m  |
| -5 ft 0 in<br>-1.5 m  | lb<br>kg     | *21,182<br>*9,608  | *21,182<br>*9,608  | *22,095<br>*10,022 | 14,829<br>6,726   | *16,493<br>*7,481 | 10,107<br>4,585   |                   |                |             |    | 13,074<br>5,930   | 7,933<br>3,598    | 23 ft 11 in<br>7.3 m |
| -10 ft 0 in<br>-3 m   | lb<br>kg     | *27,730<br>*12,578 | *27,730<br>*12,578 | *20,178<br>*9,152  | 15,050<br>6,826   | *14,938<br>*6,776 | 10,270<br>4,658   |                   |                |             |    | *13,547<br>*6,145 | 9,517<br>4,317    | 21 ft 0 in<br>6.4 m  |
| -15 ft 0 in<br>-4.5 m | lb<br>kg     | *21,015<br>*9,532  | *21,015<br>*9,532  | *15,070<br>*6,836  | *15,070<br>*6,836 |                   |                   |                   |                |             |    | *13,296<br>*6,031 | *13,296<br>*6,031 | 16 ft 1 in<br>4.9 m  |

## 922F WITH 28 IN (700 MM) SHOES, 9 FT 7 IN (2,900 MM) ARM

| A Reach: ft (m)       |              |                    |                    |                   |                   |                   |                   |                   |                |                   |                |                   |                  |                      |
|-----------------------|--------------|--------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------------|-------------------|----------------|-------------------|------------------|----------------------|
| B: Height ft (m)      | Weight lb kg | 10 ft (3 m)        |                    | 15 ft (4.5 m)     |                   | 20 ft (6 m)       |                   | 25 ft (7.5 m)     |                | 26 ft (8 m)       |                | MAX REACH         |                  |                      |
|                       |              | Cf                 | Cs                 | Cf                | Cs                | Cf                | Cs                | Cf                | Cs             | Cf                | Cs             | Cf                | Cs               | Distance             |
| 25 ft 0 in<br>7.5 m   | lb<br>kg     |                    |                    |                   |                   | *9,393<br>*4,260  | *9,393<br>*4,260  |                   |                |                   |                | *8,632<br>*3,916  | *8,632<br>*3,916 | 20 ft 0 in<br>6.1 m  |
| 20 ft 0 in<br>6 m     | lb<br>kg     |                    |                    |                   |                   | *10,123<br>*4,592 | *10,123<br>*4,592 |                   |                |                   |                | *8,506<br>*3,858  | *8,506<br>*3,858 | 23 ft 7 in<br>7.2 m  |
| 15 ft 0 in<br>4.5 m   | lb<br>kg     |                    |                    | *12,749<br>*5,783 | *12,749<br>*5,783 | *11,196<br>*5,079 | *11,196<br>*5,079 | *10,525<br>*4,774 | 8,542<br>3,874 |                   |                | *8,473<br>*3,843  | 7,837<br>3,555   | 25 ft 11 in<br>7.9 m |
| 10 ft 0 in<br>3 m     | lb<br>kg     |                    |                    | *16,442<br>*7,458 | *16,442<br>*7,458 | *12,901<br>*5,852 | 11,436<br>5,187   | *11,263<br>*5,109 | 8,280<br>3,756 | *10,956<br>*4,970 | 7,508<br>3,405 | *8,358<br>*3,791  | 7,083<br>3,213   | 27 ft 3 in<br>8.3 m  |
| 5 ft 0 in<br>1.5 m    | lb<br>kg     |                    |                    | *19,915<br>*9,033 | 15,872<br>7,199   | *14,673<br>*6,655 | 10,811<br>4,904   | *12,149<br>*5,511 | 7,975<br>3,618 | *11,608<br>*5,265 | 7,281<br>3,303 | *8,676<br>*3,935  | 6,784<br>3,077   | 27 ft 7 in<br>8.4 m  |
| Ground Level          | lb<br>kg     | *13,365<br>*6,062  | *13,365<br>*6,062  | *21,838<br>*9,906 | 15,134<br>6,865   | *15,953<br>*7,236 | 10,355<br>4,697   | 12,744<br>5,781   | 7,735<br>3,508 | 11,642<br>5,281   | 7,102<br>3,222 | *9,847<br>*4,467  | 6,874<br>3,118   | 26 ft 11 in<br>8.2 m |
| -5 ft 0 in<br>-1.5 m  | lb<br>kg     | *22,498<br>*10,205 | *22,498<br>*10,205 | *22,119<br>*9,933 | 14,898<br>6,758   | *16,373<br>*7,426 | 10,143<br>4,601   | 12,640<br>5,733   | 7,641<br>3,466 |                   |                | *12,006<br>*5,446 | 7,400<br>3,357   | 25 ft 3 in<br>7.7 m  |
| -10 ft 0 in<br>-3 m   | lb<br>kg     | *29,623<br>*13,437 | 28,228<br>12,804   | *20,850<br>*9,457 | 15,015<br>6,811   | *15,530<br>*7,045 | 10,196<br>4,625   |                   |                |                   |                | *13,253<br>*6,012 | 8,737<br>3,963   | 22 ft 4 in<br>6.8 m  |
| -15 ft 0 in<br>-4.5 m | lb<br>kg     | *24,068<br>*10,917 | *24,068<br>*10,917 | *17,246<br>*7,823 | 15,509<br>7,035   |                   |                   |                   |                |                   |                | *13,925<br>*6,316 | 12,152<br>5,512  | 17 ft 9 in<br>5.4 m  |

# SPECIFICATIONS

DEALER INFORMATION HERE



## WORKING RANGES

| Description                |                                      | Short Arm                                  | Long Arm               |
|----------------------------|--------------------------------------|--|------------------------|
| Boom                       |                                      | 18 ft 9 in (5,710 mm)                      |                        |
| Arm options                |                                      | 7 ft 10 in (2,400 mm)                      | 9 ft 7 in (2,915 mm)   |
| A                          | Max. digging reach                   | 31 ft 3 in (9,530 mm)                      | 32 ft 5 in (9,870 mm)  |
| B                          | Max. digging reach at ground level   | 30 ft 9 in (9,360 mm)                      | 31 ft 11 in (9,720 mm) |
| C                          | Max. digging depth                   | 20 ft 6 in (6,250 mm)                      | 22 ft 0 in (6,700 mm)  |
| D                          | Max. digging depth 8 ft (2.4m) level | 19 ft 10 in (6,050 mm)                     | 21 ft 5 in (6,540 mm)  |
| E                          | Max. vertical wall digging depth     | 17 ft 0 in (5,175 mm)                      | 15 ft 10 in (4,820 mm) |
| F                          | Max. digging height                  | 32 ft 2 in (9,810 mm)                      | 31 ft 11 in (9,740 mm) |
| G                          | Max. dumping height                  | 23 ft 0 in (7,010 mm)                      | 23 ft 0 in (7,000 mm)  |
| H                          | Min. swing radius                    | 10 ft 6 in (3,210 mm)                      | 10 ft 3 in (3,135 mm)  |
| Arm digging force (ISO)    | Normal                               | 26,078 lbf (116 kN)                        | 21,806 lbf (97 kN)     |
|                            | Power Boost                          | 28,326 lbf (126 kN)                        | 23,605 lbf (105 kN)    |
| Bucket digging force (ISO) | Normal                               | 31,473 lbf (140 kN)                        |                        |
|                            | Power Boost                          | 34,283 lbf (152.5 kN)                      |                        |
| Bucket capacity            |                                      | 1.44 yd <sup>3</sup> (1.1 m <sup>3</sup> ) |                        |
| Bucket tip radius          |                                      | 4 ft 10 in (1,478 mm)                      |                        |
| Bucket width               |                                      | 44 in (1,113 mm)                           |                        |

## DIMENSIONS

| Description | Short Arm  | Long Arm              |                       |
|-------------|--|-----------------------|-----------------------|
| Boom        | 18 ft 9 in (5,710 mm)  |                       |                       |
| Arm options | 7 ft 10 in (2,400 mm)  | 9 ft 7 in (2,915 mm)  |                       |
| A           | Shipping length  | 31 ft 9 in (9,670 mm) | 31 ft 7 in (9,620 mm) |
| B           | Shipping height top of boom                                    | 10 ft 4 in (3,150 mm) | 9 ft 10 in (3,000 mm) |
| C           | Undercarriage width, 24 in (600 mm) shoes                      | 9 ft 10 in (2,990 mm) |                       |
| D           | Shipping length on ground                                      | 22 ft 8 in (6,914 mm) | 21 ft 3 in (6,468 mm) |
| E           | Track gauge  | 7 ft 10 in (2,390 mm) |                       |
| F           | Length to center of rollers                                    | 12 ft 0 in (3,650 mm) |                       |
| G           | Track length   | 14 ft 7 in (4,445 mm) |                       |
| H           | Overall width of upper structure                               | 9 ft 1 in (2,760 mm)  |                       |
| J           | Overall width of upper structure including cab handrail        | 9 ft 4 in (2,850 mm)  |                       |
| K           | Overall width of upper structure including cab rearview mirror | 10 ft 1 in (3,070 mm) |                       |
| L           | Tail swing radius  | 9 ft 4 in (2,850 mm)  |                       |
| N           | Counterweight ground clearance                                 | 3 ft 6 in (1,060 mm)  |                       |
| P           | Overall height of counterweight                                | 8 ft 0 in (2,430 mm)  |                       |
| Q           | Overall height of cab  | 9 ft 11 in (3,010 mm) |                       |
| R           | Overall height of platform handrail                            | 10 ft 4 in (3,150 mm) |                       |
| S           | Minimum ground clearance                                       | 19 in (470 mm)        |                       |
| T           | Track shoe width   | 24 in (600 mm)        |                       |
|             |  | 28 in (700 mm)        |                       |
|             |  | 32 in (800 mm)        |                       |
|             |  | 35 in (900 mm)        |                       |

## LGNA-SS-922F-202211-ENG-US

Specifications and designs are subject to change without notice. Machines shown may include optional equipment.

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