

# ***TIMBERPRO***

A Komatsu forestry brand

**TL745D**  
feller buncher



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Photo may include optional equipment

**Operating weight**  
71,911 lbs. (32,618 kg)

**Rated horsepower**  
350 HP (261 kW) @ 1,800 rpm

# Specifications

## Engine

|                                     |                                         |        |
|-------------------------------------|-----------------------------------------|--------|
| Model                               | Cummins L9                              |        |
| Type                                | Water cooled, 4-cycle, XPI fuel system  |        |
| Aspiration                          | eVGT, after cooled                      |        |
| No. of cylinders                    | 6                                       |        |
| Bore                                | 4.49 in                                 | 114 mm |
| Stroke                              | 5.86 in                                 | 145 mm |
| Engine displacement                 | 543 in <sup>3</sup>                     | 8.9 L  |
| Horsepower                          |                                         |        |
| SAE J1995                           | Rated 350 HP (261 kW) @ 1,800 rpm       |        |
| Fan drive type for radiator cooling | Hydraulic, variable speed, auto reverse |        |
| Governor                            | All-speed control, electronic           |        |
| Peak engine torque                  | 1,151 lb-ft (1,561 Nm)                  |        |

U.S. EPA Tier 4 Final emission certification

## Hydraulic system

Type: load sense, pressure compensated, open loop system and dedicated closed loop systems

|                         |                                                                  |           |
|-------------------------|------------------------------------------------------------------|-----------|
| Hydraulic control modes | SAE/US/US mod, custom attachment settings                        |           |
| Pumps                   | Implement, swing, attachment, dual track, charge, fan, auxiliary |           |
| Main pump type          | Variable displacement piston type                                |           |
| Saw flow                | 39 gpm                                                           | 108 L/min |
| Implement flow          | 115 gpm                                                          | 435 L/min |

## Coolant (refilling) and lubricant capacity

|                |          |        |
|----------------|----------|--------|
| Fuel tank      | 220 gal  | 833 L  |
| Coolant        | 13.5 gal | 51 L   |
| Engine         | 6.25 gal | 23.6 L |
| Hydraulic tank | 64 gal   | 242 L  |
| DEF tank       | 15 gal   | 56.8 L |

## Operating weight

|                  |             |           |
|------------------|-------------|-----------|
| Operating weight | 71,911 lbs. | 32,618 kg |
|------------------|-------------|-----------|

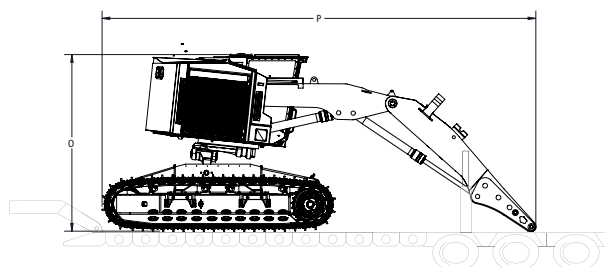
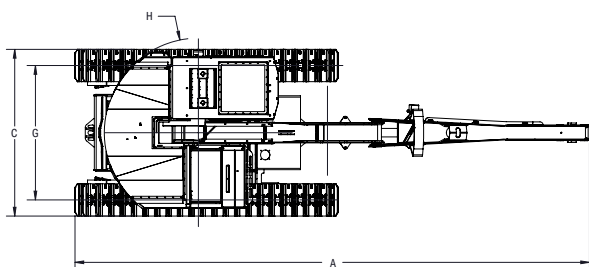
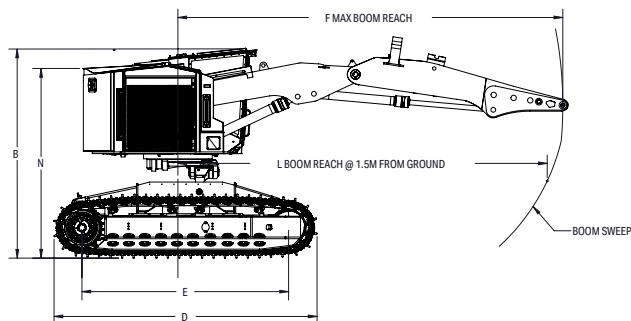
## Swing system

|                                                            |                                                        |
|------------------------------------------------------------|--------------------------------------------------------|
| Drive method                                               | Hydrostatic                                            |
| Swing reduction                                            | Planetary gear                                         |
| Swing circle, lubrication                                  | Internal tooth, greased                                |
| Holding brake/swing lock                                   | Oil bath multi-disk, spring applied, hydraulic release |
| Swing speed                                                | 6.7 rpm                                                |
| Swing torque                                               | 57,800 lbs.-ft (78.4 kN/m)                             |
| Maximum reach to pin                                       | 23' 10" (7,275 mm)                                     |
| Max cutting swath                                          | 15' 10" (4,837 mm)                                     |
| Max tail swing radius                                      | 5' 10" (1,778 mm)                                      |
| Lift capacity @ 20' (6.1 m), @ 4' 11" (1.5 m) above ground | 14,500 lbs. (6,590 kg)                                 |
| Cutting radius - minimum, @ 4' 11" (1.5 m) above ground    | 8' (2,438 mm)                                          |
| Bare pin lift at full reach, @ 4' 11" (1.5 m) above ground | 10,000 lbs. (4,545 kg)                                 |

## Frame, drive and axles

|                                          |                                                                                |
|------------------------------------------|--------------------------------------------------------------------------------|
| Center frame type/design                 | HD boxed frame structure with flat bottom, storage trunk, integrated fuel tank |
| Track frame type/design                  | HD boxed structure, with shoe support                                          |
| Drive/travel motor type                  | Hydrostatic                                                                    |
| Final drive                              | Planetary gear                                                                 |
| Track link type                          | Greased, sealed                                                                |
| Track adjuster type                      | Grease adj, spring tension                                                     |
| Link pitch                               | 8.5" (216 mm)                                                                  |
| Number of links (per side)               | 48                                                                             |
| Number of lower track rollers (per side) | 10                                                                             |
| Track carrier type, how many (each side) | Slider, dual                                                                   |
| Travel speed                             | Two speed ranges                                                               |
| Parking brake method                     | Oil bath multi-disk holding brake, spring applied, hydraulic release           |
| Steering controls                        | Pedals                                                                         |
| Shoe width (std)                         | 600 mm                                                                         |
| Shoe width (max)                         | 700 mm                                                                         |
| Maximum drawbar pull                     | 71,476 lbf (32,489 kgf)                                                        |
| Cab leveling front/rear/side, degrees    | 24/7/24                                                                        |

## Dimensions

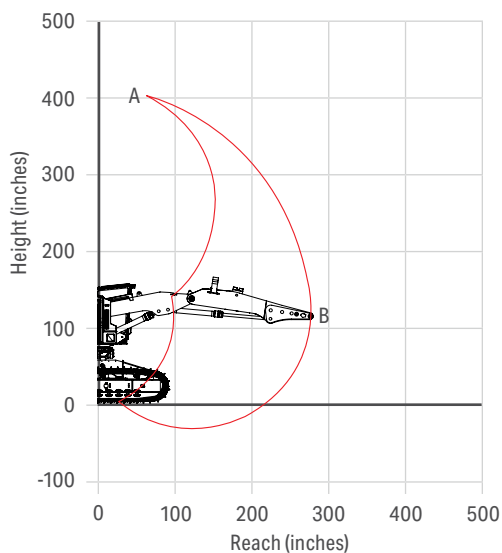
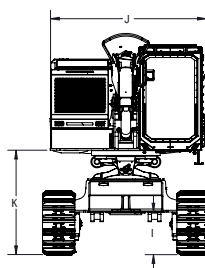


Transport dimensions: See C, O and P

### Dimensions and weights

|    |                                          |                                    |
|----|------------------------------------------|------------------------------------|
| A  | Overall length full reach                | 31' 10" (9,728 mm)                 |
| B  | Overall height highest point body        | 13' 0" (3,692 mm)                  |
| C* | Overall transport width                  | 10' 4" (3,150 mm)                  |
| D  | Track length - overall                   | 16' 5" (5,000 mm)                  |
| E  | Track length on ground                   | 12' 10" (3,910 mm)                 |
| F  | Max boom reach                           | 23' 10" (7,275 mm)                 |
| G  | Track gauge                              | 8' 4" (2,539 mm)                   |
| H  | Max tail swing radius                    | 5' 10" (1,778 mm)                  |
| I  | Ground clearance, center frame (std GR)  | 2' 8" (806 mm)                     |
| J  | Overall body width, widest point         | 9' 8" (2,950 mm)                   |
| K  | Ground clearance, revo frame (std GR)    | 6' 6" (1,981 mm)                   |
| L  | Boom reach @ 4' 11" (1.5 m) above ground | 22' 11" (6,985 mm)                 |
| N  | Machine height, rear of engine hood      | 11' 9" (3,581 mm)                  |
| O  | Overall height for transport (std)       | 12' 3" (3,734 mm)                  |
| P  | Length on ground for transport           | 30' 4" (9,246 mm)                  |
|    | Ground pressure                          | 9.2 psi (0.64 kg/cm <sup>2</sup> ) |

\*With 600 mm tracks



### Range of motion chart TL745D feller buncher

|   |                                                  |
|---|--------------------------------------------------|
| A | 33' 5" (10,180 mm)                               |
| B | 23' 10" (7,275 mm) @ 4' 11" (1.5 m) above ground |

# Equipment

## Engine and related components

|                                                        |   |
|--------------------------------------------------------|---|
| 350 HP (261 kW) Cummins QSL9 (Stage V)                 | ● |
| 1,151 lb-ft (1,561 Nm) @ 1,800 rpm                     |   |
| Single module DOC/DPF/SCR                              | ● |
| eVGT, after cooled                                     | ● |
| Hydraulic variable speed cooling fan with auto reverse | ● |
| Air cleaner, dual element with dust collector          | ● |

## Operator environment

|                                                                                           |   |
|-------------------------------------------------------------------------------------------|---|
| ROPS/FOPS/OPS certified cabin with three egress routes                                    | ● |
| Reinforced roof hatch, removal tool                                                       | ● |
| Skylight                                                                                  | ● |
| 1.25" (32 mm) front window                                                                | ● |
| Digital climate control system, filtered fresh air intake and pressurized cabin           | ● |
| AM/FM/WB radio with Bluetooth® and USB input                                              | ● |
| IQAN MD4 HD control system with 10" touchscreen                                           | ● |
| Left and right joystick electrohydraulic proportional controls for machine operation      | ● |
| Coordinated boom operations                                                               | ● |
| 4-way leveling                                                                            | ● |
| Automatic leveling control                                                                | ○ |
| Variable speed travel control                                                             | ● |
| Standard seat – air ride and heated, high back with lumbar adjust, folding armrests       | ● |
| Deluxe seat – air ride, heated and cooled, high back with lumbar adjust, folding armrests | ○ |
| 4 pt seat belt harness                                                                    | ● |
| Rear mounted camera system with dedicated monitor                                         | ● |
| Travel alarm                                                                              | ● |
| Auxiliary power port connector, 12V                                                       | ● |
| Interior LED lights                                                                       | ● |
| Fire extinguisher                                                                         | ● |
| English decals                                                                            | ● |
| Paint - TimberPro red                                                                     | ● |
| Paint - custom color                                                                      | ○ |

## Serviceability

|                                                                                                       |   |
|-------------------------------------------------------------------------------------------------------|---|
| Rearward open engine hood, power raise                                                                | ● |
| Perforated panel, heavy duty service doors and side-hinged cooler doors with tool-less latch closures | ● |
| Retractable step for operators cabin                                                                  | ● |
| Hydraulic tank electric vacuum system                                                                 | ● |
| Electric hydraulic oil fill transfer pump                                                             | ● |
| Storage trunk, ground level access                                                                    | ● |

## Electrical system

|                                               |   |
|-----------------------------------------------|---|
| 24V electrical system with battery disconnect | ● |
| Alternator, 100 ampere, 24V                   | ● |
| Batteries, 2×12V                              | ● |
| Battery disconnect switch                     | ● |
| Working lights - LED high intensity lighting  | ● |
| LED lighting on work equipment, guarded       | ● |

Standard equipment ●

Optional equipment ○

TimberPro Inc reserves the right to change specifications without notice or obligation. Product illustrations may be equipped with optional equipment.

## Hydraulic system

|                                                                         |   |
|-------------------------------------------------------------------------|---|
| Implement pump                                                          | ● |
| Combination hydraulics, valves and plumbing for harvester configuration | ○ |
| Charge filter non-bypass, 6 micron                                      | ● |
| Return filters with bypass, 10 micron                                   | ● |
| Case drain filter with bypass, 10 micron                                | ● |
| Hydraulic air-to-oil cooler                                             | ● |
| Feller buncher standard hydraulics, hot saw only                        | ● |
| Feller buncher combination hydraulics                                   | ○ |
| Harvester hydraulics, telescopic arm                                    | ○ |
| Hydraulics for other attachments                                        | ○ |

## Guards and covers

|                                           |   |
|-------------------------------------------|---|
| Work equipment cylinder guards, deflector | ○ |
| Sliding protective cover, boom to chimney | ○ |
| Carbody debris shields, rubber            | ● |
| Boom lines debris shields, rubber         | ○ |
| Track rail rock guards, full length       | ● |
| Engine air intake deflector               | ● |

## Frame, undercarriage and tracks

|                                                                                          |   |
|------------------------------------------------------------------------------------------|---|
| TL carbody, leveling                                                                     | ● |
| Standard width boxed frame flat bottom forestry carbody with storage trunk and fuel tank | ● |
| Wide width boxed frame flat bottom forestry carbody with storage trunk and fuel tank     | ○ |
| Wide width carbody with integrated tethering points                                      | ○ |
| Heavy duty towing attachment point                                                       | ● |
| 24" (600 mm) single grouser track shoes                                                  | ● |
| 28" (700 mm) single grouser track shoes                                                  | ○ |
| Track carrier sliders, dual                                                              | ● |
| Track rollers, heavy duty, 10 per side                                                   | ● |
| 48 links per side, sealed                                                                | ● |
| Heavy duty spring track tensioner                                                        | ● |
| Parking/travel brake, wet multi-disk, hydraulic release                                  | ● |

## Upper swing system, work equipment and attachments

|                                                                                |   |
|--------------------------------------------------------------------------------|---|
| Continuous rotation upper, dual-ball, lubricated swing mechanism               | ● |
| Planetary gear swing reduction drives, with wet multi-disk swing holding brake | ● |
| Hydraulic swing energy recovery system                                         | ● |
| Feller buncher boom and arm work equipment, tool tilt                          | ● |
| Feller buncher HD boom and arm, west coast, tool tilt                          | ○ |
| Processor (forwarder boom) and arm, telescopic arm                             | ○ |

## Optional equipment

|                                                                            |   |
|----------------------------------------------------------------------------|---|
| Komtrax monitoring system                                                  | ○ |
| Fire suppression system                                                    | ○ |
| Diesel Espar pre-heater with timer                                         | ○ |
| 120V AC plug-in engine block pre-heaters and plug-in hydraulic tank heater | ○ |
| Uptime kit                                                                 | ○ |

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