



Tel-29

*Insulated & Non-Insulated
Telescopic Aerial*



FEATURES INCLUDED IN THE TEL-29

PLATFORM

The standard fiberglass platform is 24 in. x 24 in. x 42 in. (.61m x .61m x 1.07m). Hydraulic leveling is standard on the Tel-EI/EIH/IH/NE models and optional on the Tel-I/N models. Walk-in and splicing platforms are available.

OUTER/LOWER BOOM ASSEMBLY

The major components of the outer/inner boom assembly includes an outer boom, a telescoping inner boom, an extension cylinder, a hose carrier system, and slide pads mounted on the inner and outer boom. The outer boom consists of a 6in. x 8in. (.15m x .20m) rectangular steel section and a 9 1/2 x 7 1/2 in. (.24m x .19m) fiberglass section (Electrogard) that maintains a 42 in. (1.07m) insulation gap. The telescoping inner boom is a 5in. x 7in. (.13m x .18m) aluminum (non-insulated) or fiberglass (insulated) housed within the outer boom. The inner boom does not have to be removed to service the extension cylinder and slide pads. The extension system consists of a hydraulic cylinder with wear rings on the piston and end gland and a holding valve mounted to the cylinder base. The hose carrier system is a multi-link assembly with adequate space to carry hoses and wiring to the upper control station. A boom support cradle and a boom tie-down strap are included.

CONTROL VALVES

The system pressure relief, hydraulic leveling (if applicable), and the hydraulic boom function valves are a single integrated system mounted on the turret wing.

CYLINDERS

The extension cylinder has wear rings on the piston and end gland for extended seal life. A double acting holding valve is mounted at the extension cylinder base to prevent the boom from creeping during travel or uncontrolled movement in case of hydraulic hose failure. The extension cylinder can be removed without removing the inner boom. The boom elevation cylinder has a single acting holding valve.

ROTATION

Rotation is 360° (with an electric limit switch) to 370° (with a mechanical limit switch) non-continuous to prevent hose and wiring damage. Continuous unrestricted rotation is available as an option. Rotation is accomplished by a hydraulically driven worm and spur gear and a shear-ball rotation bearing. The critical bolts holding the lift to the rotation bearing and the rotation bearing to the pedestal meet SAE grade 8 specifications. These critical bolts are Torque Seal marked to provide a quick means to inspect for loosening. An adjustment screw is provided to adjust pinion and rotation gear clearances.

HYDRAULIC SYSTEM

The hydraulic system can be powered by the chassis-engine, a chassis-transmission power take-off or more advanced options.

LUBRICATION

Non-lube bearings are used at all pivot points. The rotation bearing is the only component that requires lubrication.



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GENERAL SPECIFICATIONS - (INSULATED MODELS)

(Based on 40 in. (1.02m) Frame Height)

	TEL-29-I	TEL-29-EI	TEL-29-IH	TEL-29-EIH
Horizontal Reach Overcenter	21 ft. 8 in. (6.60 m)	23 ft. 5 in. (7.14 m)	20 ft. 11 in. (6.37 m)	23 ft. 5 in. (7.14 m)
Standard Platform Capacity	300 lbs. (136 kg)	300 lbs. (136 kg)	300 lbs. (136 kg)	300 lbs. (136 kg)
Outer Boom Travel	-8° to +80°	-8° to +80°	-14° to +74°	-8° to +80°
Inner Boom Extension	116 in. (2.95 m)	116 in. (2.95 m)	116 in. (2.95 m)	116 in. (2.95 m)
Insulation Gap	42 in. (1.07 m)	42 in. (1.07 m)	42 in. (1.07 m)	42 in. (1.07 m)

With Standard Pedestal

Height to Bottom of Platform	29 ft. 11 in. (9.12 m)	30 ft. 7 in. (9.32 m)	29 ft 6 in. (9.0 m)	29 ft. 1 in. (8.86 m)
Working Height	34 ft. 11 in. (10.64 m)	35 ft. 7 in. (10.85 m)	34 ft 6 in. (10.52 m)	34 ft. 1 in. (10.4 m)
Stowed Travel Height	9 ft. 9 in. (2.97 m)	9 ft. 9 in. (2.97 m)	10 ft. 6 in. (3.20 m)	10 ft. 6 in. (3.2 m)
Weight of Lift w/ Mounting Hardware	1510 lbs. (686 kg)	1530 lbs. (695 kg)	1560 lbs. (710 kg)	1580 lbs. (715 kg)

Hydraulic System

Operating Pressure	2000 PSI (141 kg/cm ²)	2000 PSI (141 kg/cm ²)	2250 PSI (158 kg/cm ²)	2250 PSI (158 kg/cm ²)
Flow Rate	2 GPM (8 lpm)	2 GPM (8 lpm)	3 GPM (12 lpm)	3 GPM (12 lpm)
Filtration	10 micron return	10 micron return	10 micron return	10 micron return
.....	100 mesh suction	100 mesh suction	100 mesh suction	100 mesh suction
System Type	Open Center	Open Center	Open Center	Open Center

NON-INSULATED MODELS

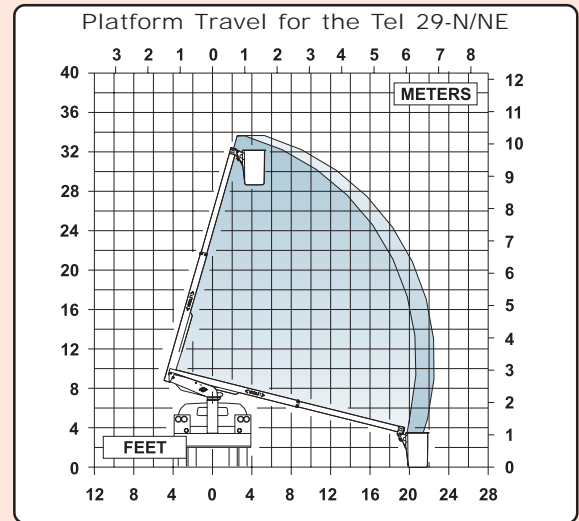
	TEL-29-N	TEL-29-NE
Horizontal Reach Overcenter	20 ft. 8 in. (6.30 m)	22 ft. 7 in. (6.88 m)
Standard Platform Capacity	350 lbs. (160 kg)	300 lbs. (136 kg)
Outer Boom Travel	-14° to +74°	-14° to +74°
Inner Boom Extension	116 in. (2.95 m)	116 in. (2.95 m)

With Standard Pedestal

Height to Bottom of Platform	28 ft. 11 in. (8.81 m)	29 ft. 9 in. (9.07 m)
Working Height	33 ft. 11 in. (10.34 m)	34 ft. 9 in. (10.6 m)
Stowed Travel Height	9 ft. 9 in. (2.97 m)	9 ft. 9 in. (2.97 m)
Weight of Lift w/ Mounting Hardware	1465 lbs. (664 kg)	1485 lbs. (674 kg)

Hydraulic System

Operating Pressure	2000 PSI (141 kg/cm ²)	2000 PSI (141 kg/cm ²)
Flow Rate	2 GPM (8 lpm)	2 GPM (8 lpm)
Filtration	10 micron return	10 micron return
.....	100 mesh suction	100 mesh suction
System Type	Open Center	Open Center



NOTE: 1. Specifications may vary without prior notification.
2. Required GVWR can vary significantly with chassis, lift mounting location, service body, accessories, and desired payload.

Options

- Continuous Rotation
- Extra Control Circuit from the Platform
- Taller Pedestal
- Emergency Lowering
- Two-Speed Manual Throttle-Control
- Hydraulic Pump Power Selections
- Torsion Bar
- Platform Variations
- Capacity Variations

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Hydraulic leveling allows for simplified clean out.



Remote electric control allows operation from the ground.

