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# UTEM SKYTEL UTLN41/UTLN46



-  Exclusive 540 degree boom rotation with hourglass worm gear drive  
Provides smooth and self locking rotation with a mechanical stop
-  Non-Lube bearings at all points of boom movement
-  One hand joystick control standard  
Single handle proportional control is optional
-  Outer boom is high strength steel, with steel inner boom  
Provides maximum strength and durability

Strength, innovation and service from UTEM

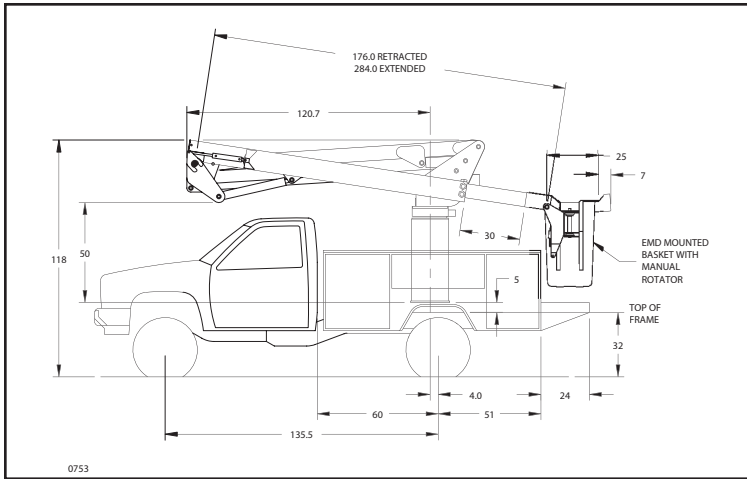


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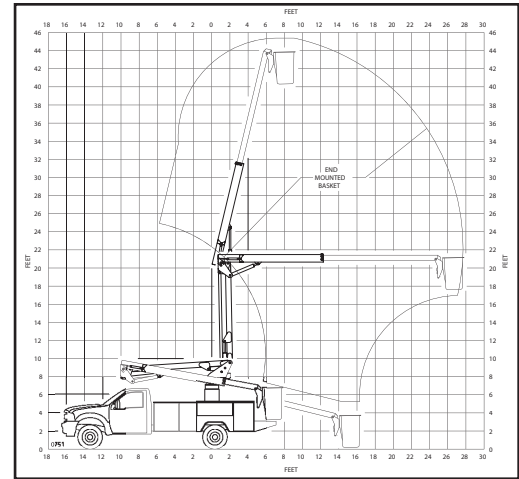
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# UTEM SKYTEL UTLN41/46



UTLN 46 Dimensional Outline



UTLN 46 Operating Area Diagram

## Dimensional Specifications

	UTLN41	UTLN46
Horizontal side reach - side mount	25 ft 9 in (7.86 m)	25 ft 8 in (7.84 m)
Horizontal side reach - end mount	27 ft 9 in (8.46 m)	27 ft 8 in (8.43 m)
Height to bottom of basket*	36 ft 9 in (11.19 m)	40 ft 9 in (12.41 m)
Working height*	41 ft 9 in (12.72 m)	45 ft 9 in (13.94 m)
Stowed height*	10 ft 2 in (3.10 m)	10 ft 2 in (3.10 m)
Upper boom articulation in degrees	-14° to 77°	-14° to 77°
Lower boom articulation in degrees	-6° to 90°	-4° to 90°
Standard basket capacity	300 lbs (136 kg)	300 lbs (136 kg)
Maximum basket capacity	400 lbs (181 kg)	400 lbs (181 kg)
UTLN41 and UTLN46 meet or exceed ANSI A92.2-2001 and OSHA requirements		
* Based on 36 in (0.91m) chassis frame height.		

## Mechanical Specifications

- 540° Boom rotation with mechanical stop
- Rotation drive is hourglass worm gear acting on a shear ball bearing
- Gravity leveled side mount basket includes infinite position brake
- All hoses and controls cables are enclosed within the booms
- Boom elevation and extension by hydraulic cylinders
- Boom and extension cylinders have load holding valves
- Outer boom is high strength steel with screw in wear pads
- Inner boom is high strength steel
- Lower boom consists of a parallelogram linkage
- Pedestal is welded structure with reservoir mounted inside
- Standard color is UTEM white enamel over an epoxy primer
- Body harness with adjustable length shock absorbing lanyard included

## Recommended Chassis Requirements - UTLN41

Vehicle GVWR	15,000 lbs
Front axle GAWR	6000 lbs
Rear axle GAWR	11,000 lbs
Frame section modulus	6.5 in <sup>3</sup>
RBM of frame	234,000 in lbs
Approx. weight for stability	11,000 lbs

## Controls

- Electric over hydraulic on/off joystick basket controls
- Joystick and all electric switches are environmentally sealed
- Engine stop/start provided with "HE" and "DP" hydraulics
- Emergency stop is provided at basket controls
- Upper control override is included
- Lower controls have keyed master switch

## Hydraulic Specifications

UTLN41 operating pressure	2200 PSI (155 kg/cm <sup>2</sup> )
UTLN46 operating pressure	2500 PSI (176 kg/cm <sup>2</sup> )
Reservoir capacity with sight gauge	15 Gallons (57 l)
Suction strainer mounted in reservoir	100 Mesh
Return line filter with bypass	10 Micron
Flow rate	3 GPM (11.4 lpm)

## Optional Equipment

- Proportional upper controls with single handle actuator
- Metal, fiberglass and polyethelene baskets
- Basket door, tent, top and heater
- Hydraulic leveling for side mount basket
- End mount basket with hydraulic leveling
- Electric tool outlet at basket
- Hydraulic tool outlet at basket
- Continuous rotation
- 12VDC powered emergency lowering
- Bridge mount pedestal and remote reservoir
- Manual basket rotator
- Outriggers for increased stability
- Torsion bars for increased stability

## Recommended Chassis Requirements - UTLN46

Vehicle GVWR	17,500 lbs
Front axle GAWR	6000 lbs
Rear axle GAWR	13,500 lbs
Frame section modulus	6.5 in <sup>3</sup>
RBM of frame	234,000 in lbs
Approx. weight for stability	11,000 lbs



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