



CMC MODEL

**83HD+**  
ARBOR PRO

# 83HD<sup>+</sup>

ARBOR PRO

## UNIQUE FEATURES

- Only 35" wide when retracted in travel mode
- 46' of unrestricted LATERAL REACH with 507lbs weight capacity
- 83' of vertical reach
- Telescopic lower boom allows for 43' up and over reach
- Upper boom articulates down to the ground and reaches 20' below grade
- Vertically and horizontally adjustable tracks provide 15" of ground clearance while driving the tracks
- Ability to setup and lift itself high enough (43") to self load onto the chassis of a truck and use the lift directly from truck
- Up to 3 boom functions can be used at full speed and same time
- Available one man fiberglass basket. Interchange basket fast with quick connect system
- Radio remote controls for all functions on the ground
- All hydraulic hoses and cables well protected on the entire lift. No outside power tracks on the booms with hoses or cables that can be ripped out or caught
- Boom operation faster than a bucket truck
- Rotating basket that allows full: +/- 90°
- Weight of only 8,500lbs
- Rear mounted booms





## Have questions? Get in touch with us at:

Office: (717) 684-5050

[www.slaymakergroup.com](http://www.slaymakergroup.com)

[info@slaymakergroup.com](mailto:info@slaymakergroup.com)

- **FULL HYBRID AND LITHIUM ION BATTERIES AVAILABLE**  
Gain 10x the number of charge cycles with the highest quality, full hybrid and lithium ion batteries. Plug in anytime, anywhere and get 4,000 to 4,500 charge cycles!
- One button “Go home” feature for automatic boom park
- Independently movable 135° articulating jib

- Greaseless booms with Teflon wear pads, self-lubricating teflon bushings and grease fittings in every pivot point
- Short length of only 19'6" – capable of fitting inside a 20' freight elevator
- Rotating turret +/- 400° (non-continuous)



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## STANDARD FEATURES // AERIAL LIFT

- 83' working height
- 46' of unrestricted lateral reach with 507lbs weight capacity
- Proportional controls allow up to 3 functions at once at full speed
- Two articulating and telescopic booms
- Lower boom with one telescopic extension
- Upper boom with two telescopic extensions
- Hydraulic hoses and control cables covered for complete protection, with easy service access
- Telescoping boom sections with hydraulic cylinders and leaf drive chains
- 135° independently articulating jib
- Greaseless booms
- Rotating turret +/- 400°
- Emergency let down system
- Battery backup for lowering booms

### Aluminum Basket:

- Full 180° rotation system (90 + 90)
- Access the aluminum basket from either side with safety bar and retractable ladder
- Wheels for easy transport
- Easy on and off system allows swapping out baskets, with 3 redundant safety devices
- Automatic basket leveling

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## STANDARD FEATURES // OUTRIGGERS

- Ability to setup on up to 19° or 34% grade
- Automatic outrigger leveling, with individual manual hydraulic override controls
- 4 hydraulic outriggers with the ability to vary the positioning based on work zone requirements: Wide, narrow, wide and narrow.
- Waterproof safety switches placed in well protected positions
- Dual lock valves on all hydraulic cylinders
- Outrigger feet with articulating pad made of special anti-slip polymeric plastic to ensure safety

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## STANDARD FEATURES // CHASSIS

- Wireless remote control for all functions, including track drive, automatic outrigger leveling, and boom controls
- Ultra strong hydraulic motor track drive
- Heavy duty turret rotation motor and gear box

### Rubber tracks:

- High quality steel reinforced rubber tracks
- Vertically and horizontally adjustable tracks allow for up to 15" ground clearance for travel on difficult terrain
- Ability to rotate tracks while machine is stabilized on the outriggers for maintenance or replacement
- Able to climb slopes up to 19° or 34% -- But can also continue on to over 31° / 60% when user overrides the standard setting.
- Cross hill slope travel up to 19° or 34% -- But can also continue to travel 31° / 60% when user overrides the standard setting

### Wide and long tracks for:

- ▶ Superior climbing ability
- ▶ Better weight distribution—low PSI underneath the tracks. No damage to lawns, stone, tile, or other sensitive ground
- ▶ Travel speed up to 3mph

### Track Drive:

- ▶ Slow, for precise movement
- ▶ Slow with torque, for precise movement with power
- ▶ Fast, for traveling long distances quickly
- Fully enclosed and protected hydraulic motor system with easy access for routine maintenance
- Hydraulic tank level sight glass
- Engine key start and stop with hour meter
- Hydraulic hoses protected
- Ability to travel with jib raised to facilitate hill climbing
- 4 tie down points for transport on truck or trailer. Points can also be used for crane lift
- Easy access engine compartment for maintenance
- Easy access battery compartment
- Easy access fuse box containing automotive style fuses
- Weatherproof storage box with:
  - ▶ Storage box to store the radio remote control
  - ▶ Built in remote control battery charger

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## STANDARD FEATURES // CONTROLS

- Proportional controls allow up to 3 functions at once at full speed
- Diesel fuel level indicator in basket and the radio remote control

### Radio Remote Control

- Rugged and extremely durable. Built with high quality components that are waterproof and sealed in gel
- Remote control for all functions including:

#### Boom operations

- Lower boom articulation
- Lower boom telescope
- Upper boom articulation
- Upper boom telescope
- Turret rotation +/- 400°
- Basket rotation 180°
- Jib up and down
- One button “Go home” feature for automatic boom park

#### Track drive operations

- Height and width adjustment
- Three track drive speeds, 0 to 3mph

#### Automatic outrigger stabilization (leveling)

- Ability to automatically setup level on slopes up to 19° or 34%

#### Override standard settings button to override the standard settings for:

- Track drive slope. Standard slope is up to 34%. When you press the override button, it allows for travel to over 60% grade
- Rotate the tracks while the tracks are off the ground (when machine is setup on the outriggers) for service, such as track tension adjustment or track replacement
- Lift the jib while the booms are parked, and when on the tracks. This allows for increased ability to climb slopes and flexibility in travel.
- Rotate the basket while the booms are parked, and when on the tracks. This allows for flexibility in travel.
- Lower the booms in case of emergency, such as the outriggers becoming unlevelled

- Includes 2 lithium ion batteries and charger mounted in an enclosed waterproof cabinet, a fully charged battery is always ready to go
- Built in lit LED screen gives the operator information on lift status
- Wireless connection up to 100'
- Automatically chooses the best radio connection frequency based on location
- Only two joysticks for simple operation

## **FIXED, WIRED CONTROL STATION IN THE BASKET**

- Extremely durable and built with high quality components that are waterproof and sealed in gel
- Operator control station for all functions including:

### Boom operations

- Lower boom articulation
- Lower boom telescope
- Upper boom articulation
- Upper boom telescope
- Turret rotation +/- 400°
- Basket rotation 180°
- Jib up and down
- One button "Go Home" feature for automatic boom park

### Track drive operations

- Three track drive speeds, 0 to 3mph

### Automatic outrigger stabilization (leveling)

- Ability to automatically setup level on slopes up to 19° or 34%

- Engine start, stop
- Electric motor / battery start stop (optional)
- Emergency stop button

### Only two joysticks for simple operation

- Hall effect joysticks with high degree of protection (completely sealed and waterproof)
- Single handed operation with d-tent style joysticks in the basket

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## STANDARD FEATURES // POWER

### **3 CYLINDER KUBOTA DIESEL**

- D902-E3B
- 21.6 HP
- 3200 RPM
- Liquid cooled

### **POWER OPTIONS**

- Lithium ion batteries -- Hybrid -- only the highest quality batteries to last 10-15 years before replacement is required. Plug in anytime, anywhere. 4,000 to 4,500 charging cycles! Leadacid batteries only have 400 to 500 cycles.
- Full battery version (no combustion engine)
- Plug in electric 120V 20A -- Hybrid

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## STANDARD FEATURES // SAFETY

- ANSI (TUV) and CSA certified
- Emergency stop button in reach of operator at all times
- Lock valves on all hydraulic cylinders
- Waterproof safety switches
- Redundant safety system
- Electronic inclinometer
- Basket weight sensor and overloaded alarm
- Lateral reach monitor and alarm for when maximum has been reached
- Self-diagnostic LED display

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## STANDARD FEATURES // GENERAL

- High quality, HSLA (high strength low alloy) steel booms
- All hoses and cables protected on entire machine, ready for rugged outdoor use
- Only high quality, waterproof safety switches are used
- High quality 4 coat paint process: sand blasting, filling, two coats of primer and two coats of paint
- All cables are “plug and play”
- Safety lock valves on all cylinders
- Self-lubricating bushings and grease fittings on every pivot point
- Tight tolerances on pivot points
- Engine hour meter
- Greaseless booms
- Automotive style fuses



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## OPTIONAL FEATURES

### 83HD+ ARBOR PRO INCLUDES THESE ADDITIONAL ITEMS:

- 12v battery emergency let down system
- Set of 4 specialty outrigger pads: \$972
- 4 ratchet straps for transport
- Fall arrest aerial lift safety harness and lanyard kit, including storage bag
- Spare fuses

### 83HD+ ARBOR PRO SPECIAL ORDER OPTIONAL ITEMS:

- Hybrid: Diesel + lithium batteries: \$12,550
- Hybrid: Diesel + Plug in 120v electric motor: \$1,872
- Travel alarm: \$275
- 120v Electric plug in the basket: \$585
- Full battery version: \$ask
- Light tower wiring: \$385
- 8-10 GPM hydraulic tool outlet in basket: \$3,850
- Special paint color. 206 custom colors available: \$1,980
- Two special paint colors, 206 custom colors available: \$2,800

### 83HD+ ARBOR PRO ACCESSORIES:

- Custom lightweight, heavy duty steel tilt bed trailer with ability to use lift directly from the trailer: \$8,250
- Enclosed trailer: \$ask
- Lightweight Aluminum trailer: \$ask
- Single man fiberglass basket instead of aluminum basket: \$750
- Two man fiberglass basket instead of aluminum basket: \$875
- Single man fiberglass basket in addition to aluminum basket: \$2,485 (includes quick connect)
- Two man fiberglass basket in addition to aluminum basket: \$2,685 (includes quick connect)
- Non-marking white rubber tracks (instead of black tracks): \$1,285
- Additional fall arrest aerial lift harness and lanyard kit including storage bag: \$69
- Set of 4 cavity outrigger pads: \$600
- Track Socks: \$298

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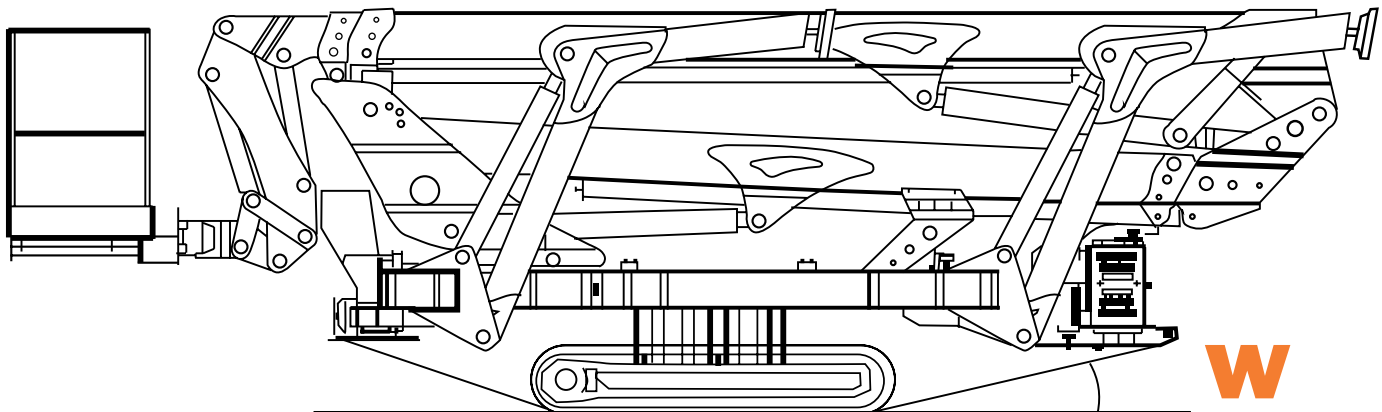
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## TECHNICAL SPECIFICATIONS // PERFORMANCE

	Maximum working height	83'
	Maximum side reach at 507 lbs, unrestricted	46'
	Maximum weight load with standard basket	507lbs
	Maximum weight load with optional single man fiberglass basket	537lbs
	Moveable Jib articulating range	135°
	Turret rotation range	+/-400°
	Basket rotation range	+/-90°
<b>P</b>	Maximum slope to stabilize (deployment)	19° (34%)
	Height / Width tracks adjustment	7"
<b>W</b>	Maximum slope approach angle / slope	14° (25%)
<b>X</b>	Gradeability -- max. travel angle / slope*	19° (34%)
	Gradeability -- max. travel cross hill	19° (34%)
	Maximum crawler travel speed**	3 mph

\*This is the standard setting. The standard setting can be overridden to: 31° (60.1%)

\*\*3 speeds: Slow, Slow with Torque, Fast



Maximum Slope Approach Angel 25%

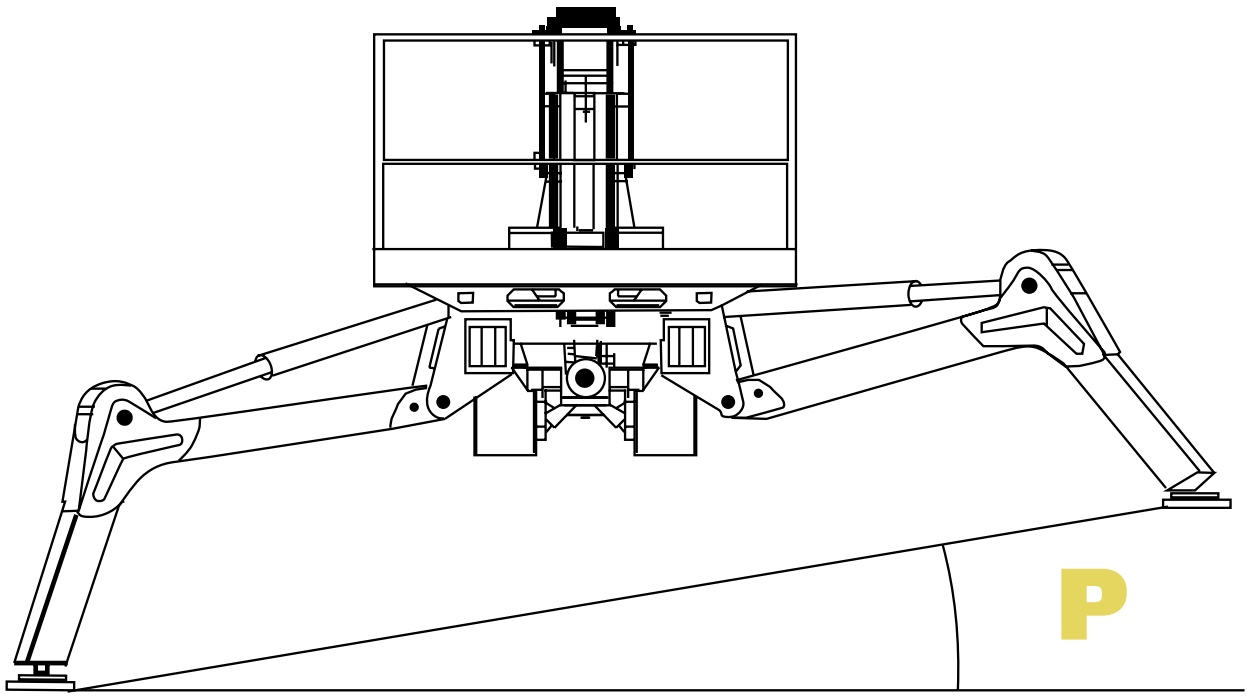


Have questions? Get in touch with us at:

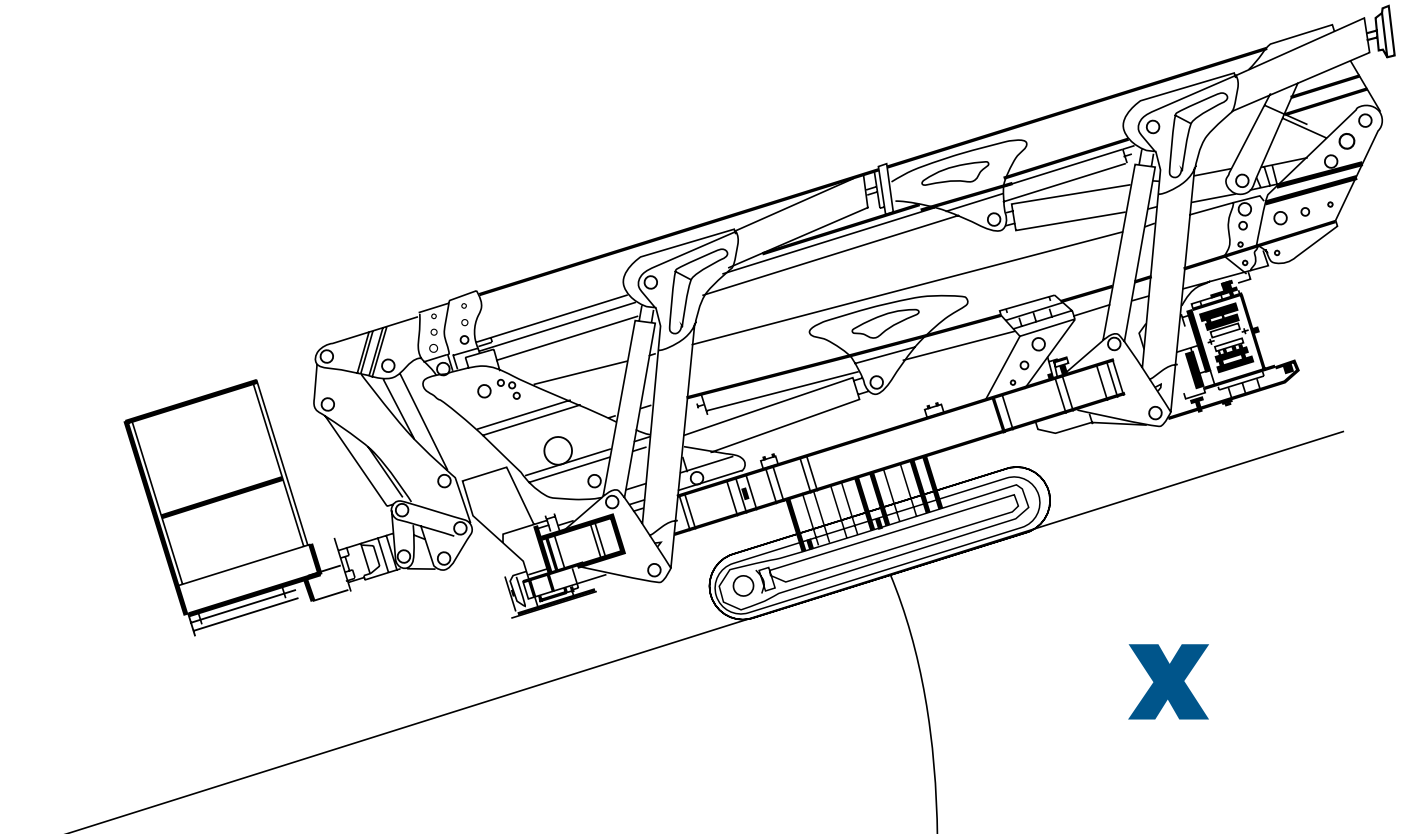
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P



X

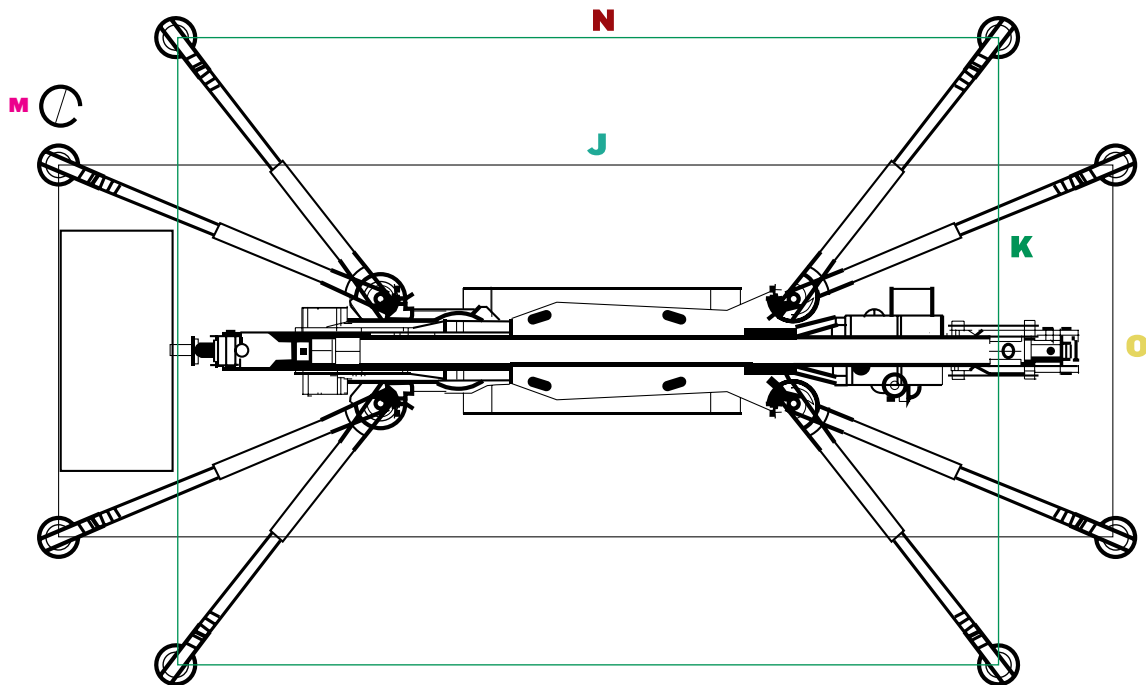
Climbing Maximum 34%

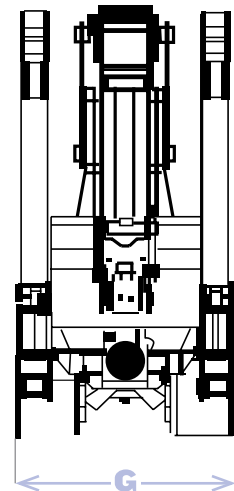
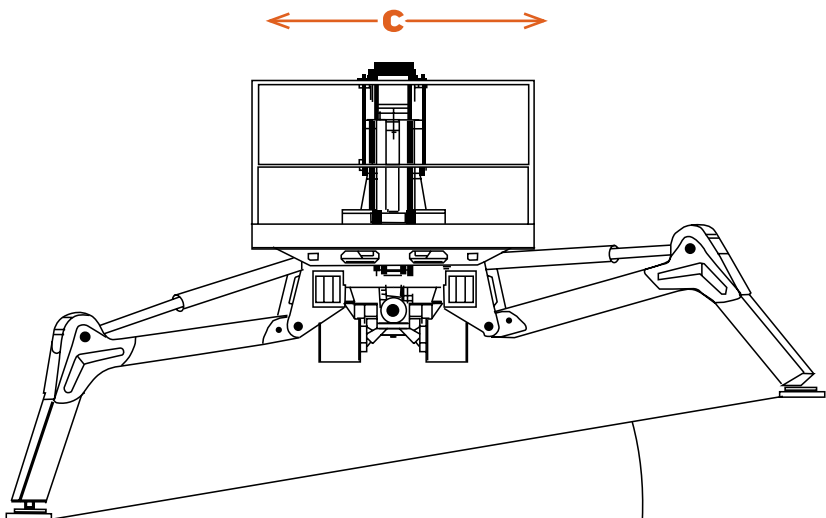
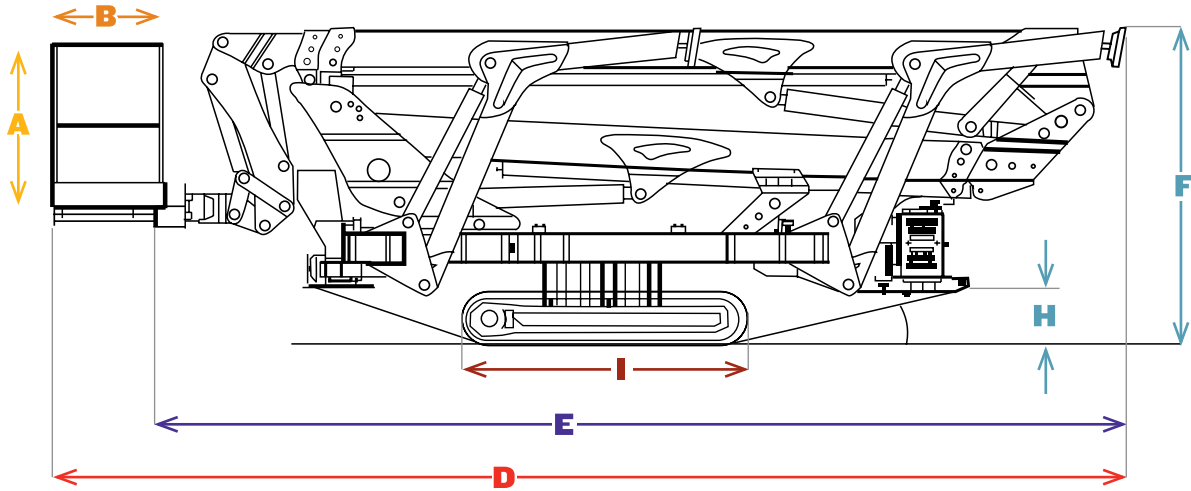
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## TECHNICAL SPECIFICATIONS // DIMENSIONS

<b>A</b>	Basket height (basket is removable, size options available)	43"
<b>B</b>	Basket width	27"
<b>C</b>	Basket length	48"
<b>D</b>	Total length	21' 3"
<b>E</b>	Length without basket	19' 6"
<b>F</b>	Height in transport position	78"
<b>G</b>	Total width (without basket)	35"
<b>H</b>	Free height from the ground	15"
<b>I</b>	Tracks (LxW)	72" x 10"
<b>J</b>	Outrigger spread length in narrow position	21' 10"
	Outrigger spread width in wide position	14' 5"
<b>N</b>	Outrigger spread length in wide position	16' 11"
<b>O</b>	Outrigger spread width in narrow position	8' 10"
<b>M</b>	Outrigger (Stabilizer) plate (foot) diameter	9 1/2"





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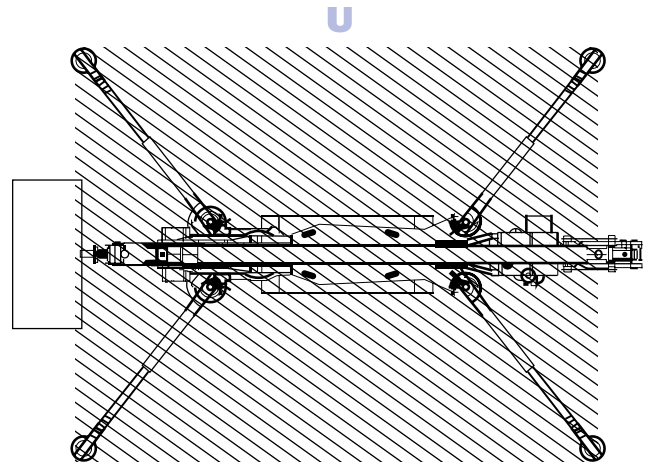
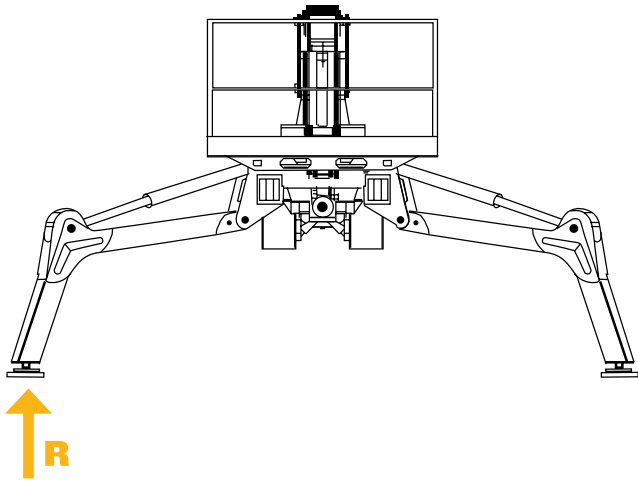
## TECHNICAL SPECIFICATIONS // WEIGHT & POWER

### WEIGHT

	Total weight	8,500 lbs
<b>R</b>	Maximum outrigger foot pressure	75.1 lb/in <sup>2</sup>
<b>S</b>	Maximum track pressure	3.41 lb/in <sup>2</sup>
<b>T</b>	Maximum pressure in travel	146.85 lb/ft <sup>2</sup>
<b>U</b>	Maximum pressure in work (Wide outrigger setup)	26.22 lb/ft
<b>V</b>	Maximum pressure in work (Narrow outrigger setup)	39.12 lb/ft <sup>2</sup>
<b>Z</b>	Maximum pressure in work (One side wide, one side narrow)	31.54 lb/ft <sup>2</sup>

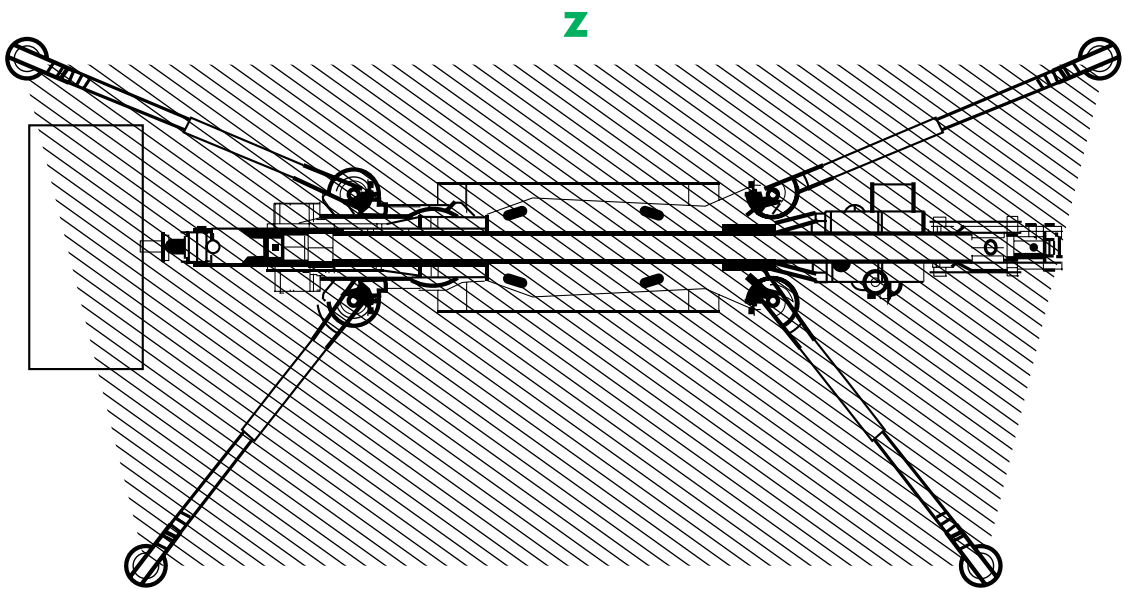
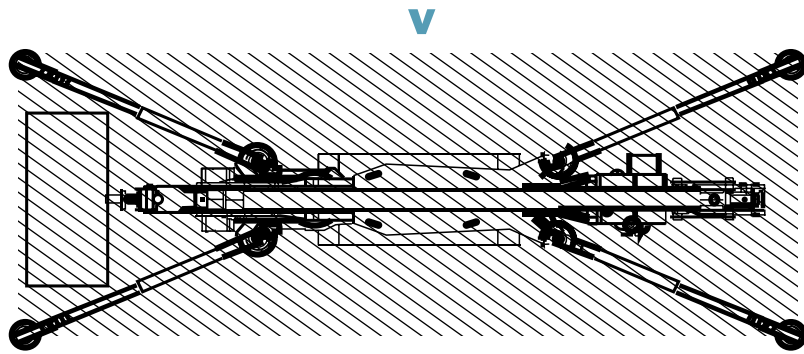
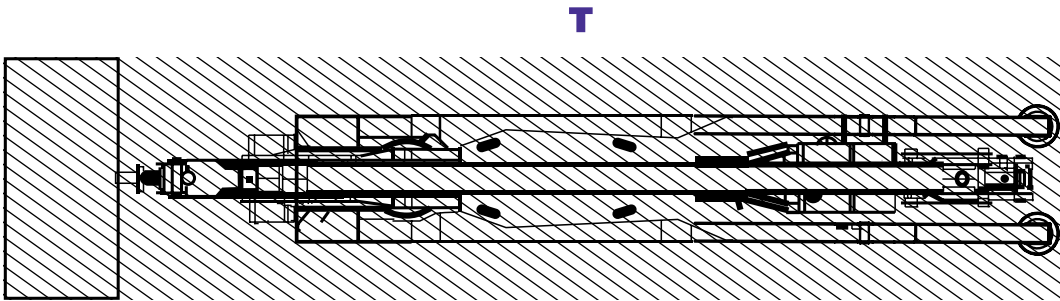
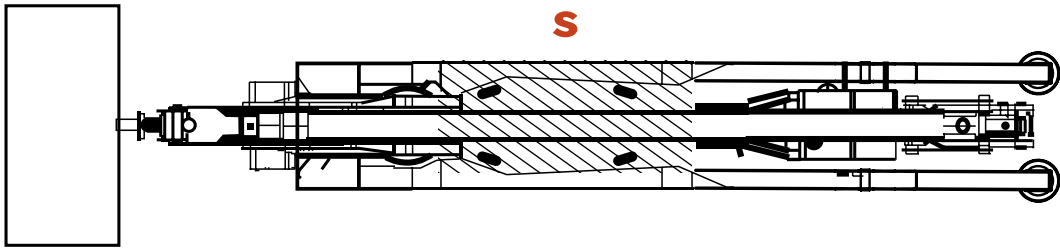
### POWER

Diesel engine. Kubota D-722	21.6 HP
Diesel fuel tank capacity	4 gallons
120V 20A plug in electric	
Lithium ion battery (optional)	



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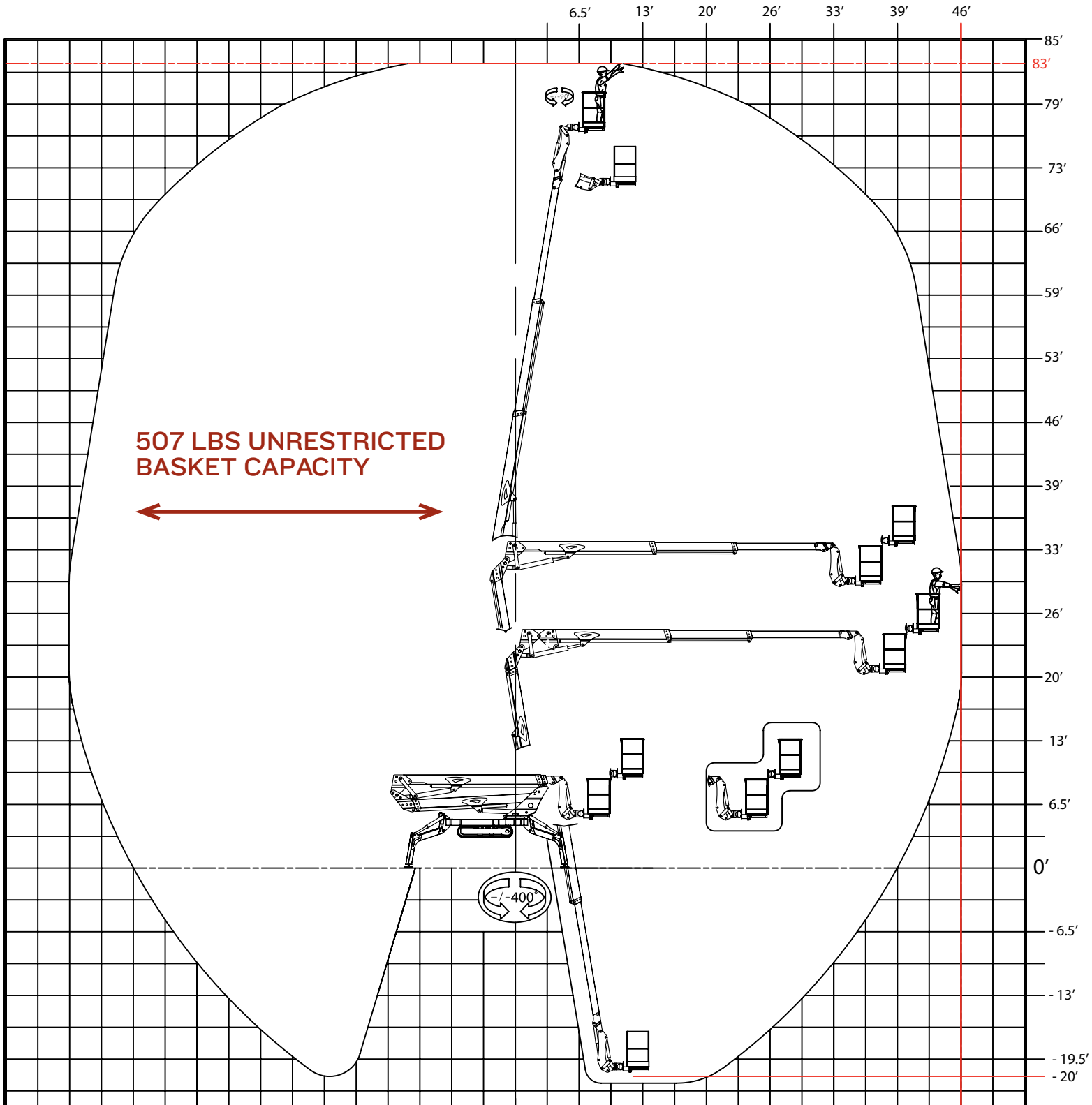




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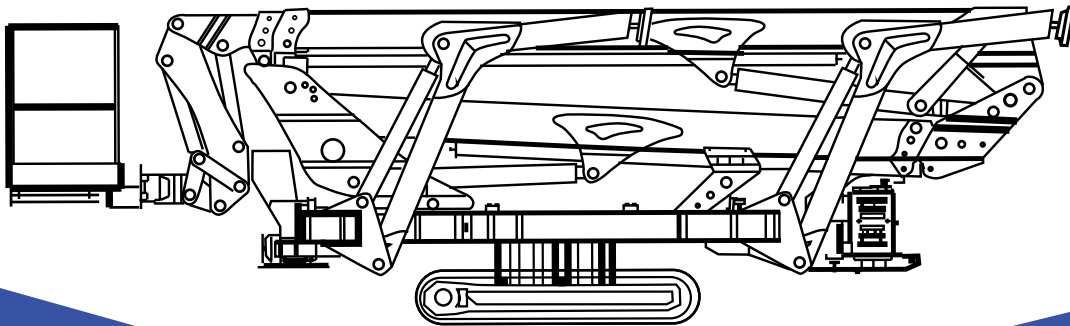
## REACH DIAGRAM WITH MAXIMUM LOAD



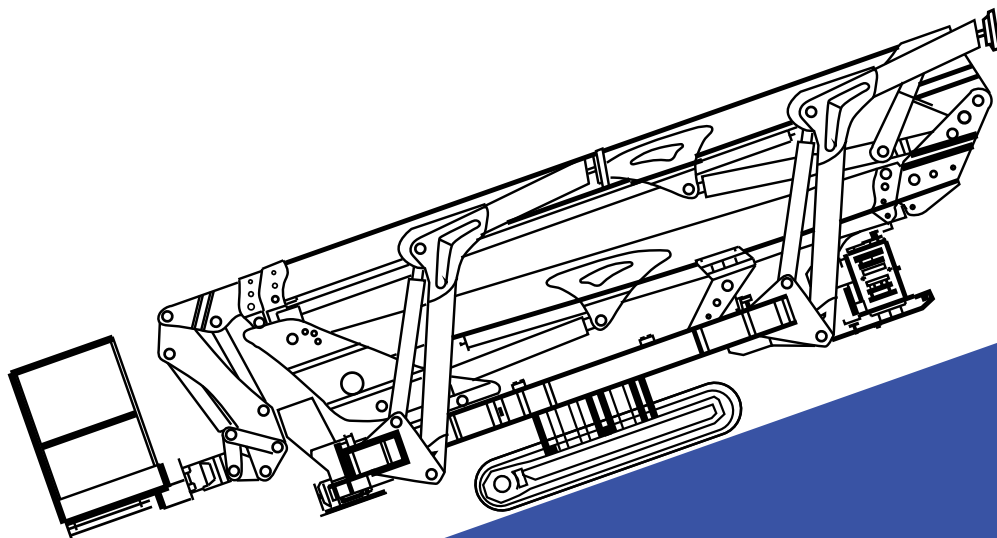
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## CLIMBING ABILITY



Max angle of approach 25%



Climbing Maximum 60.1%

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## A CLOSER LOOK AT THE 83HD<sup>+</sup>



