

135-RJ Telescopic Boom Diesel

PRODUCT INTRODUCTION 2025

Program

- Development Rationale
- Big Boom Opportunities
- Key Advantages
- Features & Benefits
- Specifications & Options
- Value & Positioning



Big Boom Opportunities

- Which manufacturer(s) are you using for 135’ telescopic booms?
  - How is it going?
  - What would you change?
- What is involved in delivery and transport?
  - Permits? Logistics?
- How is the reliability and durability?
  - What are the most common repairs?
  - Nuisance calls?
- Who are your most prevalent customers?
  - Trades/Applications
- What do your customers say about their experience? Complaints?
  - Is capacity an issue?
  - Ease of use?
  - Confidence working at height?
  - Hard to reach work areas?
- Do you know your ROI?
  - What are your rates & utilization?
  - Operating costs?

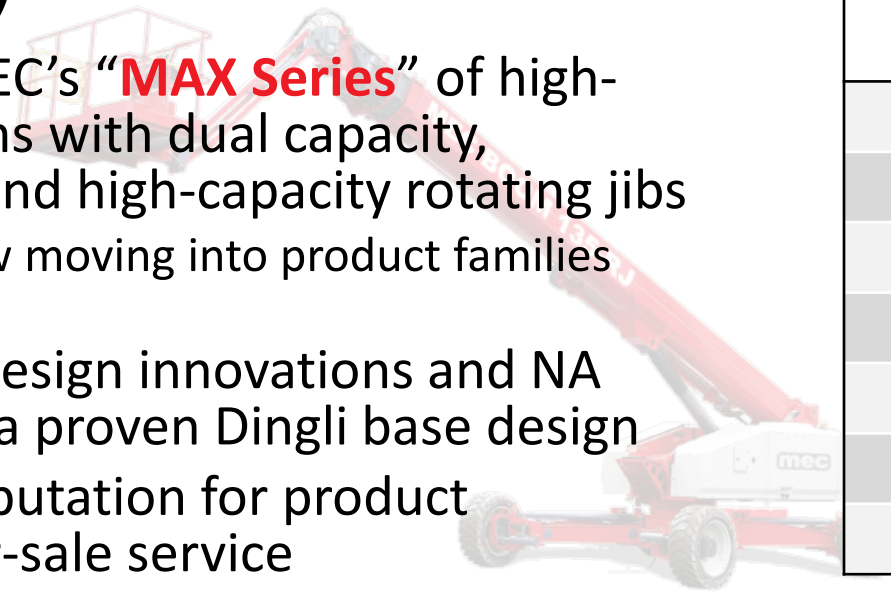
135-RJ Development Rationale

135-RJ Telescopic Diesel

A high-performance, full-featured telescopic boom to provide enhanced access to the job-site, around the job-site and to the work-point. Desired by end-users, the 135-RJ will have unmatched utilization and command a great rate. Coupled with lower operating costs – the 135-RJ will be the most profitable big boom in your fleet.

MEC strategy to grow

- 135-RJ is first in MEC's "**MAX Series**" of high-performance booms with dual capacity, 4 steering modes and high-capacity rotating jibs
  - MEC's booms now moving into product families →
- Integrated MEC's design innovations and NA requirements into a proven Dingli base design
- Leverage MEC's reputation for product reliability and after-sale service



MAX	DUAL REACH	MEC BOOM	TITAN
135-RJ	85-J	65-J	60-S
66-RJ	*85-J hybrid*	*65-J hybrid*	40-S
	65-J	60-J	
	60-J	*60-J hybrid*	
		45-J	
		40-AJ	
		34-J	

Green = Coming Soon 2025

INTRODUCING

MAX



135-RJ – Why MEC? – Key Advantages

"To the Jobsite"

- **44,775 lbs: Can be Transported w/out Permits**

"Around the Jobsite"

- **Set-In-Place Axle Deployment: X-Chassis**
- **Highly Maneuverable: w/4 Steering Modes**

"To the Work-Point"

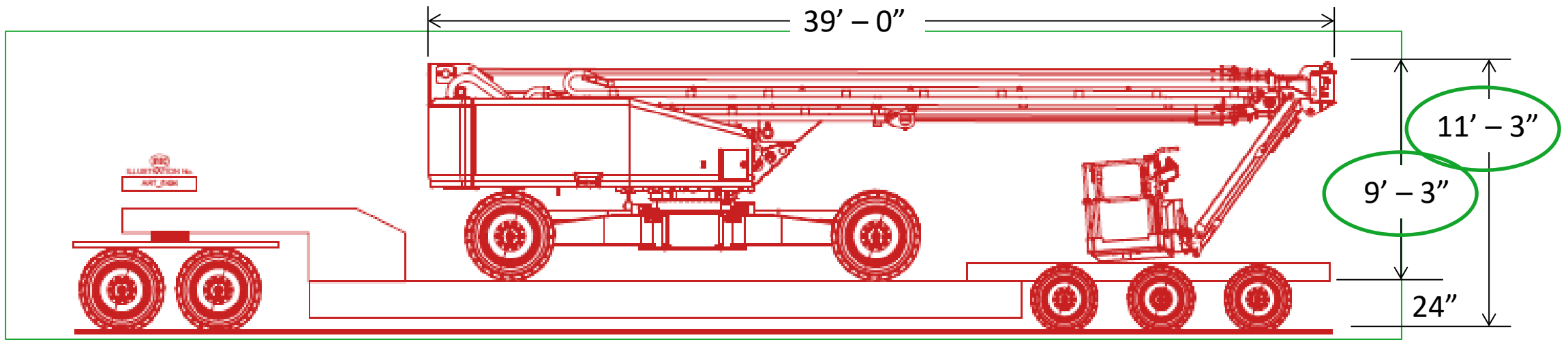
- **Solid, Stable & Smooth: Crane-Style Multi-Keel Boom**
- **Reach Versatility: 8' Multi-Directional, High-Capacity Rotating Jib**
- **Lifts Heavy Loads: Dual Capacity w/Plenty of Workspace**

Can be transported without permits

- 44,775 lbs. Total Weight
  - Allows extra capacity for tie-down chains & accessories
  - Staying under 45,000 lbs is general rule of thumb
- 39’ stowed length with jib tucked underneath main boom
- 9” lower stowed height allows additional Low-Boy trailer types for hauling; 18” or 24”

Permit Burdens

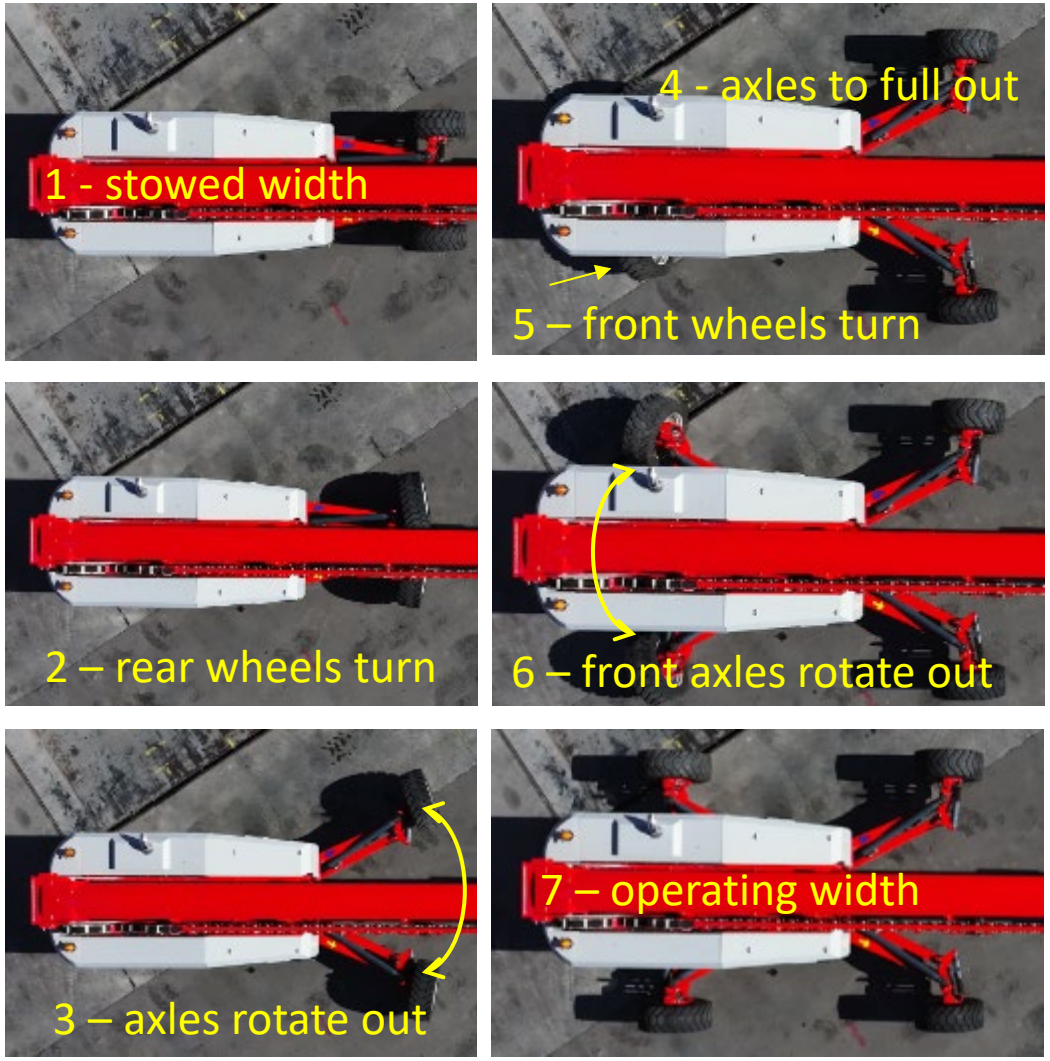
- ❑ Cost (each way)
  - $500 - $800+ / permit
  - Currently passed on to customer – higher rate
- ❑ Time / Delays
  - Often takes more than a day to process
  - Restricted delivery window
- ❑ Complexity
  - Interstate/borders can require multiple
  - Bridges



Set-In-Place Axles

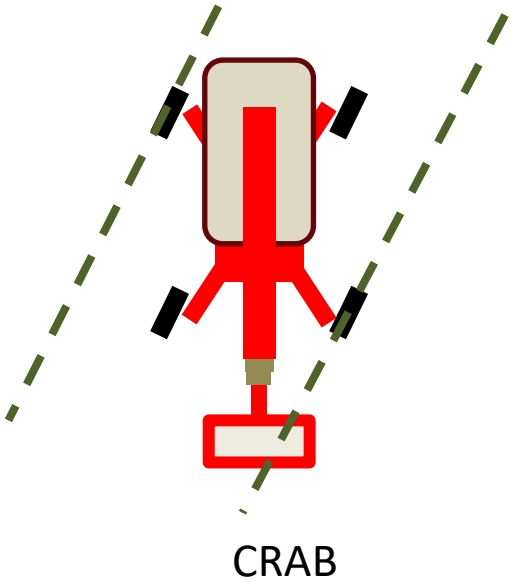
- Deploys from 8’-6” stowed width to 14’-9” operating width without jacks
- X-Chassis Axles – wheels rotate as axles deploy reducing scrub

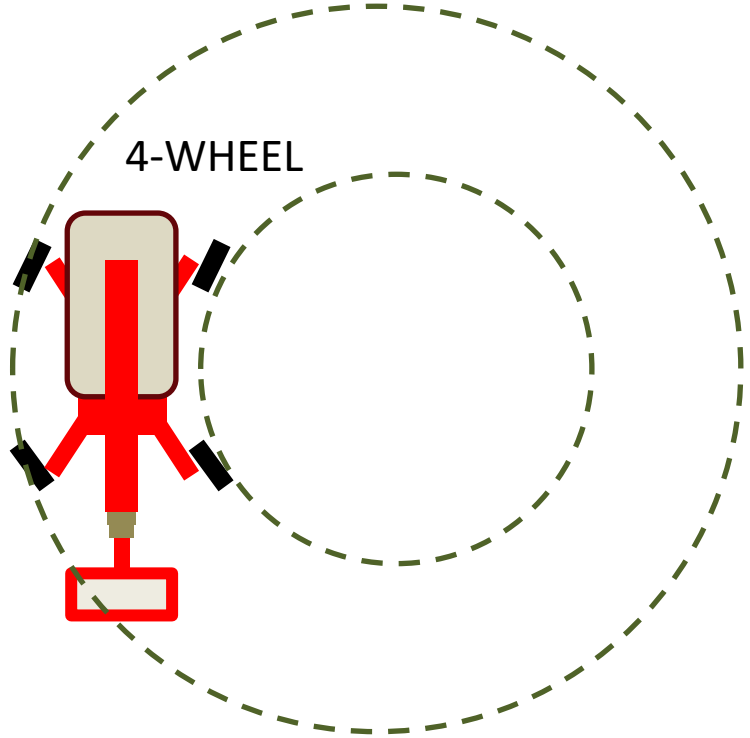
- No driving required
  - Preserves tires
  - No damage to ground
  - No need to have clear space to drive out
    - typically 25’+

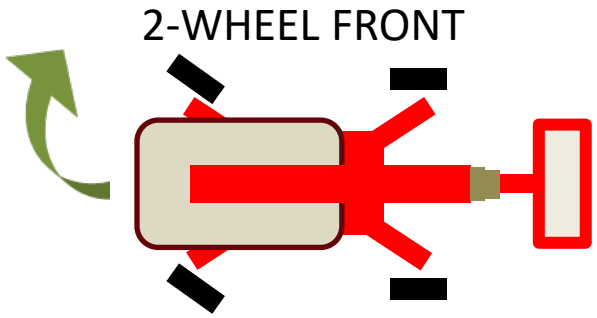


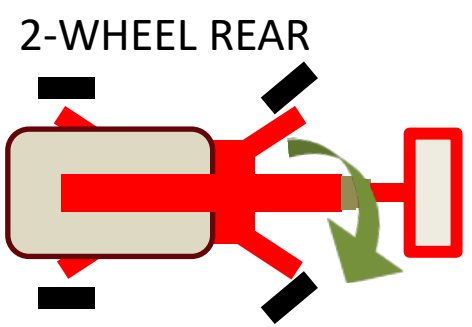
Highly Maneuverable – 4 Steering Modes

- Crab Steer
  - Can get into best position without jockeying
- 4-Wheel “Round” Steer
  - Tightest turning radius
- 2-Wheel Front
  - Normal, traditional for long, open driving
- 2-Wheel Rear
  - Provides adjustment for trailer loading/squaring up
  - Can position the chassis into tight spaces,
  - Can ne preferred when boom is reversed





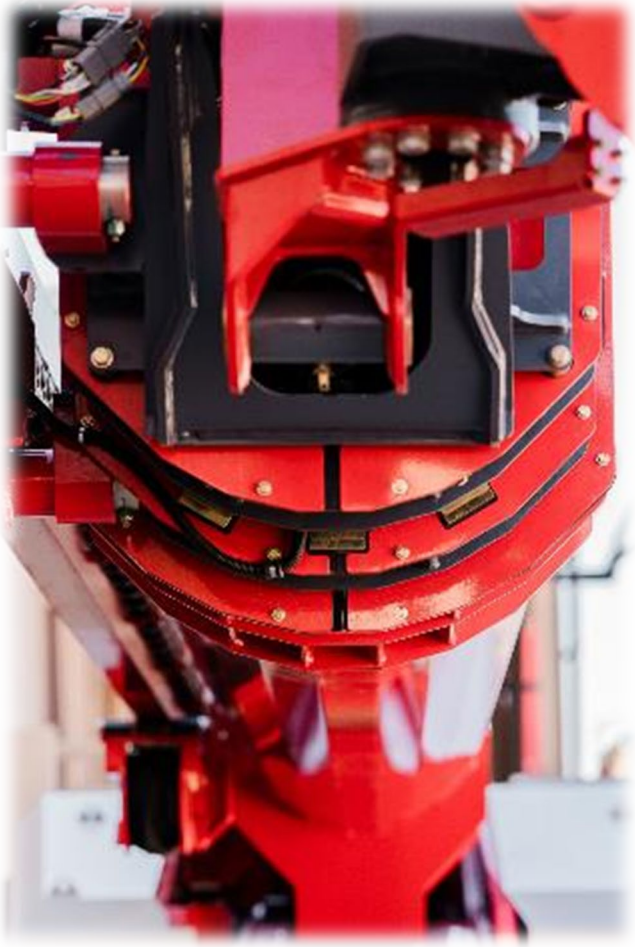




Solid, Stable & Smooth Boom Operation for Operator Confidence

- Crane-Style Multi-Keel Boom
  - Maximized rigidity at extension
  - Provides lateral rigidity for off-center loads
  - Most solid and stable feeling in class
- Super Smooth Parker Control System
  - Can “feather” boom/platform into place







8’ Multi-Directional, Rotating Jib

120º horizontal rotation @ 600 lbs.
60º horizontal rotation @ 900 lbs.



Can reach the back side of obstacles

Can wrap around the workpoint

135º vertical rotation: +80º / -55 º



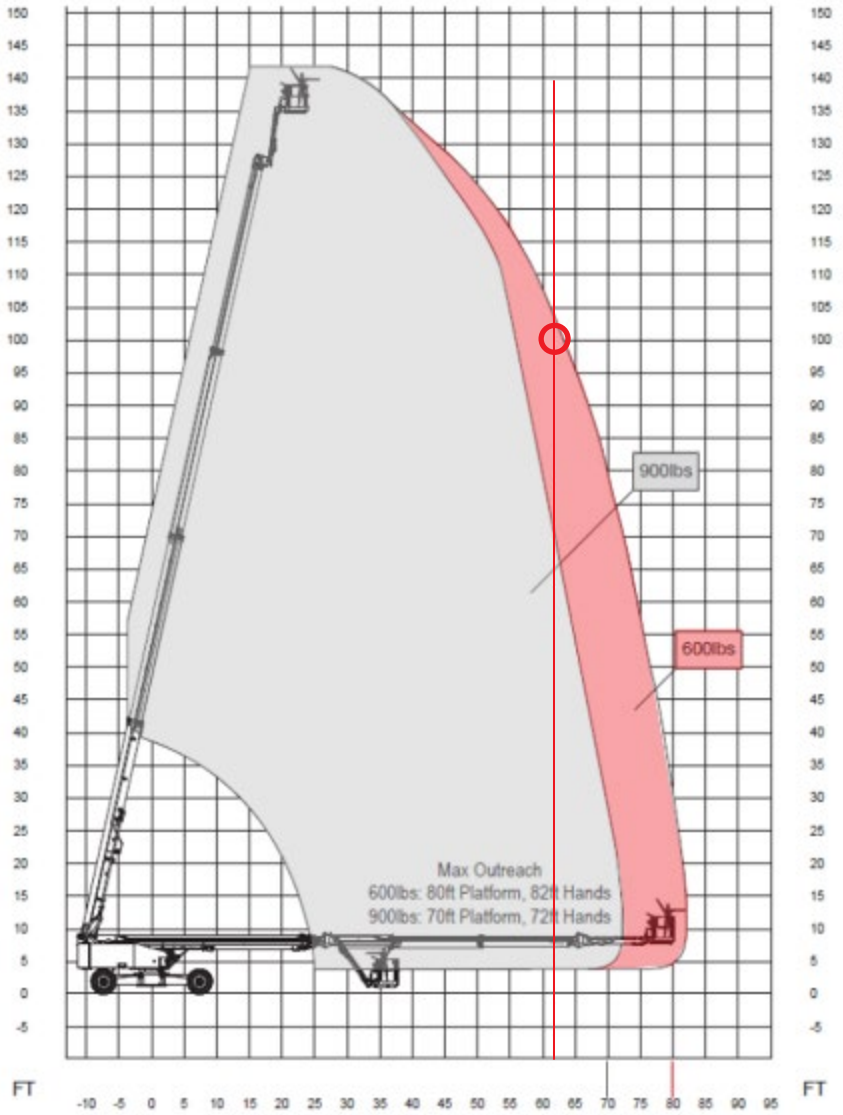
Can get behind obstacles

Full driving visibility position

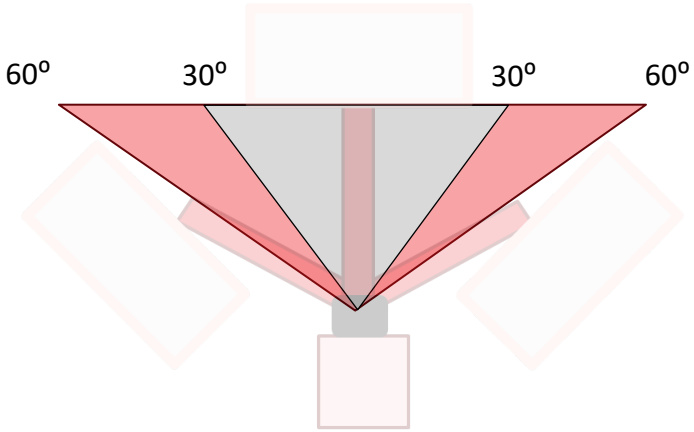
Cushioned Jib Stops at top & bottom via Proximity Switch

Has Plenty of Capacity

- 900 lbs. maximum capacity
  - At full height
  - Up to 70’ outreach
  - Fill jib range vertical
  - Horizontal jib to +/- 30 degrees
- 600 lbs. unrestricted capacity
  - From to 80’
  - Horizontal Jib from +/- 30º – 60 º



Horizontal Jib Range



Top View

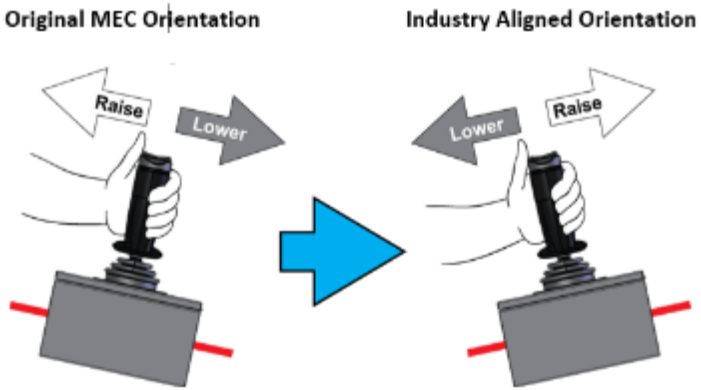
900 lbs.
restricted

600 lbs.
unrestricted

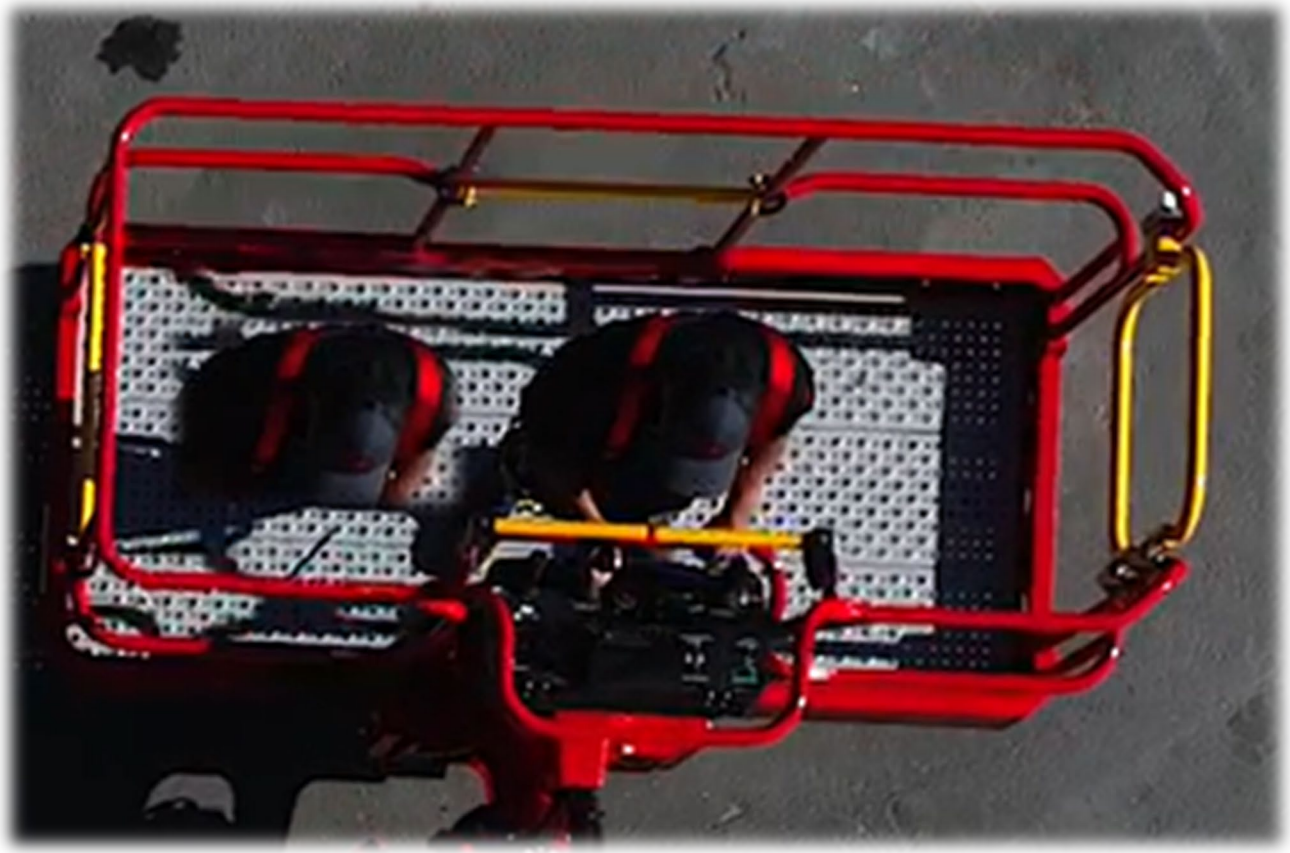
Has Plenty of Productive Workspace

- 40” deep x 90” wide platform
  - Deepest platform on the market, workers can switch comfortably
  - Full gate + 2 slide entries

- Industry Aligned Controls



  - No footswitch required
    - Can face the work while positioning



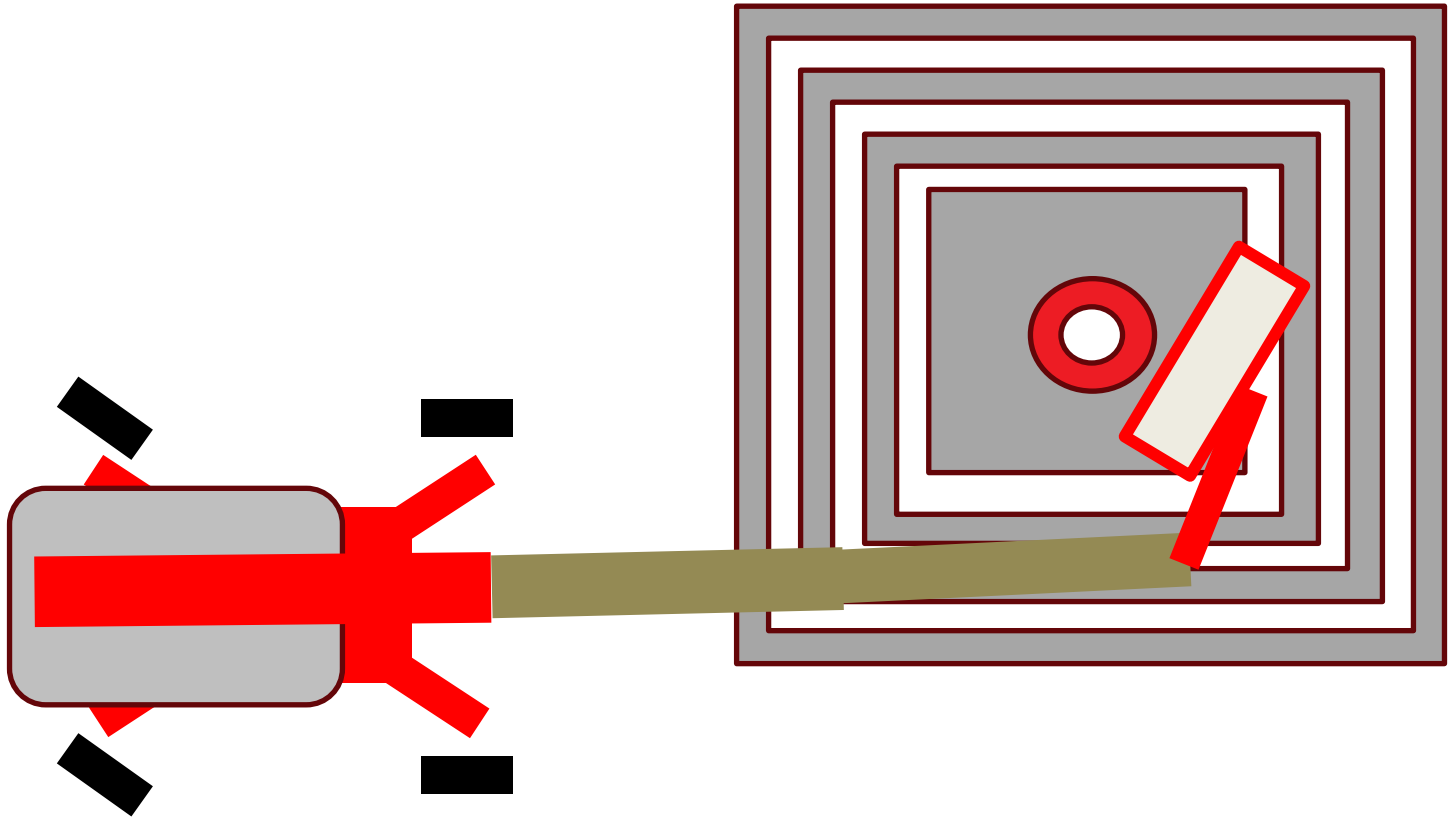
More Capacity on Rotating Jib Makes Cell Tower Access Much More Productive

MEC is 600 lbs. capacity in this position

JLG is 500 lbs. capacity in this position

Genie cannot get into this position

Haulotte has insufficient outreach



Additional Features and Benefits



Productivity Platform

Heavy-Duty Platform with maximum 40” x 90” workspace, ergonomic controls.
No footswitch provides smooth, comfortable lift operation allowing the operator to position at height while facing work point.



Positions Quickly

Dual pumps maintain full flow of hydraulics with 120 seconds to full height via multi-function.

Ergonomic Controls

Smooth precise operation with triple controller interface and fully proportional , multi-function controls. Function enable on controller and secondary guarding to mitigate entrapment.



Deutz TD2-9
Tier 4 Final Engine

High-Performance, Reliable, Low-Maintenance, 74 Hp Power with no DEF Required





Clear Digital Display

Operator is aware of machine operating condition for capacity/work envelope, fault codes and safety devices. Protected from damage and shielded for clarity in sunlight.

Powerful Drive Performance

4WD with 45% Gradeability and drivable fully elevated for outstanding jobsite performance. Closed loop, hydrostatic transmission with a momentary positive traction switch. Variable displacement piston pump.

Designed with the Technician in mind



Steel Covers & Engine Access

Panels open wide to provide technicians access to engine and all components. Swing-out Engine tray provides access to both sides of engine. Covers will not blow off during transport and are durable to resist job site damage from abuse.



More Durable Platform

Less need to repair due to thicker & heavier construction, rounded guardrails and easy-to-replace floor panels. Minimizes operating costs.





Quality Components & EMI Protection

All components are highly proven, and the ultimate in reliability reducing maintenance costs. Sourced to eliminate electrical interference. Steel valve manifold. Dual-Channel switches

Onboard Diagnostics

Complete diagnostic panel at ground controls – No special tools required!! Proven Parker control system for real-time data, fault codes, calibrations, and parameter settings.





Dual Swing Drives

Cuts gear lash by 50% extending life of the slew ring and providing a more precise & comfortable rotational movement



Load Cell Protection

System automatically adjusts to 600 lbs. unrestricted and 900 lbs. restricted capacities. Protected from ground impact. 1 load calibration (any weight) for ease of re-setting.

Popular Options



Xtra-Deck™

Provides access to tighter, overhead spaces – eliminates practice of standing on guardrails.



PPSS (Proactive Platform Safety System)

A Secondary Guarding System that proactively prevents the operator from getting into a crushing situation by sensing overhead obstructions with gradual warning and then cutout (selectable response)

Welder Packages

High-Performance Welding while elevated with no hanging cables maximizing productivity. Allows simultaneous boom movement and generator functions





Glazier Kit

Supports glass along front edge of platform. Easy-to install/uninstall. Maintains 2 platform entrances.

Non-Marking Tires

Foam-filled to meet the needs of today's job site demands while reducing tire puncture downtime and cost's – white rubber construction to preserve job site grounds.



Air Line to Platform

Provides maximum productivity for workers utilizing high-performance tolls and equipment.

Cold Start Package

Easy, efficient engine starting in climates as low as 0 F.

Arctic Package

Helps system performs efficiently in cold climates as low as 0 F to keep the work going.

135-RJ Specifications & Options

Capacity, Platform & Dims	US	Metric
Maximum Platform Capacity	900 lbs	408kg
Unrestricted Platform Capacity	600 lbs	272kg
Maximum Platform Height	135’ – 0”	41m
Maximum Working Height	141’ – 0”	43m
Maximum Outreach @ 900 lbs.	70’ – 0”	21.3m
Maximum Outreach @ 600 lbs	80’ – 0”	24.4m
Jib Length	8’ – 0”	2.4m
Jib Rotation – Vertical	135° | + 80° / -55°	
Jib Horizontal Rotation @ 600 lbs. Capacity	120°	
Jib Horizontal Rotation @ 900 lbs. Capacity	60°	
Turret Rotation	360° Continuous	
Platform Rotation	180°	
Platform Length / Width	40” x 90”	1.0m x 2.3m
Lanyard Attachment Points	2	
Entry: # of Entries | Type	3 | 1 Gate; 2 Bars	
Overall Width – Stowed	8’ – 6”	2.6m
Overall Width – Operating	14’ – 9”	4.5m
Overall Height – Stowed	9’ – 3”	2.8m
Tail Swing	4’ – 0”	1.2m

Drive & Lift Performance	US	Metric
Diesel Power Source	74hp Deutz, Tier IV Final	
Steering Modes	4-Wheel Round; Crab; 2-Wheel Front; 2-Wheel Rear	
Drive Speed	3.7 mph	6.0 km/h
Turning Radius (inside)	86”	2.2m
Gradeability	45%	
Ground Clearance – Chassis	16”	0.4m
Breakover Angle	22°	
Time to Full Height	120 seconds	
Jib Swing Vertical / Horizontal	20 / 30 seconds	
Gross Vehicle Weight	44,775 lbs	20,310kg
Minimum Overall Length – Stowed	39’ – 0”	11.9m
Minimum Overall Length – Operating		
Fuel Tank Capacity	40 gallons	151 L
Hydraulic Tank Capacity	48 gallons	182 L

Competitive Comparisons – Key Specs

	MEC 135-RJ	JLG 1350SJP	Genie SX 135-XC	Haulotte HT132 RT PRO
				
Platform Height	135’	135’	135’	131.1’
Unrestricted Capacity (occupants) – Max Outreach	600 lbs (2) @ 80’	500 lbs (2) @ 80’	660 lbs (2) @ 90’	500 lbs (2) @ 62’
Restricted Capacity (occupants) – Max Outreach	900 lbs (2) @ 70’	1,000 lbs (3) @ 70’	1,000 lbs (3) @ 80’	990 lbs (3) @ 60’
Unrestricted Capacity – Max Outreach at 100’ work height	600 lbs (2) @ 63’	500 lbs (2) @ 65’	660 lbs (2) @ 76’	500 lbs (2) @ 55’
Jib Length – Vertical Range of Motion	8’ - 135°	8’- 130°	18’ to 30’ - 135°	8’ - 140°
Horizontal Jib Rotation Rotated Jib Capacity	Jib Rotate 135° 900 lbs - 60°; 600 lbs – 120°	Jib Rotate 180° 500 lbs only	Jib Rotate **n/a**	Jib Rotate 150° 500 lbs only
Steering Modes	4: Crab, 4-Wheel, 2-Wheel Front, 2-Wheel Rear	3: Crab, 4-Wheel, 2-Wheel Front	4: Crab, 4-Wheel, 2-Wheel Front, 2-Wheel Rear	2: 4-Wheel, 2-Wheel Front
Axle Deployment	Set-In-Place, X-Chassis	Drive-Out, Tubed Axles	Drive-Out, X-Chassis	Drive-Out, Tubed Axles
Operating Width	14’ – 9”	12’ – 6”	13’ – 6”	10’ – 10”
Machine Height	9’ – 3”	10’ – 0”	10’-0”	10’-0”
Weighs < 44,800 lbs for “no-permit” transport	44,775 lbs	44,775 lbs	46,900 lbs	47,187 lbs
Engine	74 HP Deutz Diesel	74 HP Deutz Diesel	74 HP Deutz Diesel	74 HP Deutz Diesel
Key differentiators / USP’s	Set-In-Place axles, solid & smooth feel, higher capacity rotating jib, light GVW	3 person, 1,000 lb max capacity, 180° rotating jib, oscillating axle	18’/30’ Telescopic Jib, 660 lbs. unrestricted, 3 person 1,000 lb max capacity	3 person, 990 lb max capacity, 10’-10” operating width

Competitive Positioning

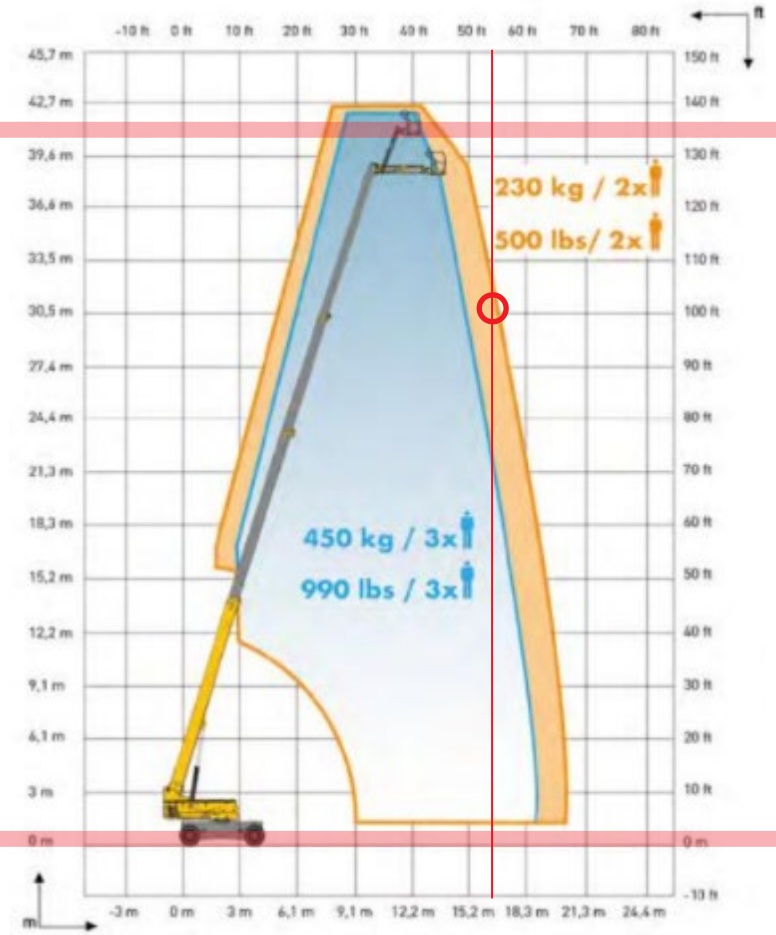


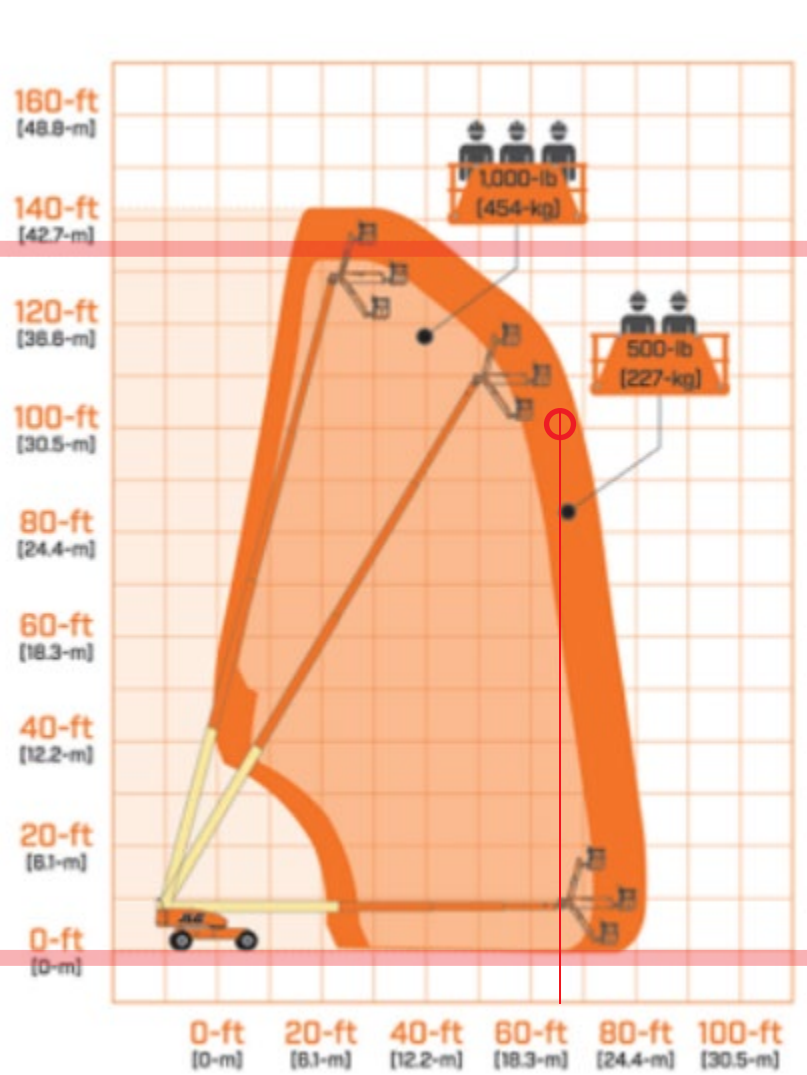




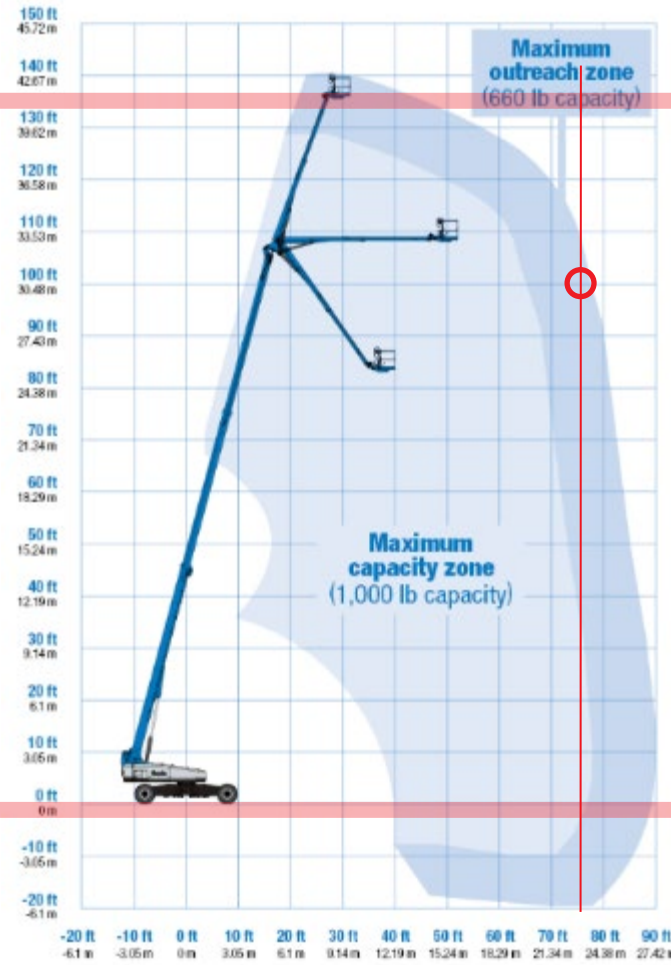
MEC Advantages vs JLG	MEC Advantages vs Genie	MEC Advantages vs Haulotte
Crane-Style Multi-Keel-Boom	Crane Style Multi-Keel-Boom	Crane Style Multi-Keel Boom
100 – 400 lbs more capacity on rotated jib	MEC Rotating jib, Genie n/a	100 – 400 lbs more capacity on rotated jib
100 lbs more restricted capacity (out to 80’)	Set-in-Place axles vs driving	100 lbs more restricted capacity (out to 80’)
Set-in-Place X-axles vs Drive Out, Tubed	Can be transported w/out permit – 3,000 lbs lighter	Set-in-Place X-axles vs Drive Out, Tubed
4” more platform depth	4” more platform depth	Can be transported w/out permit – 3,000 lbs lighter
9” lower for transport height	9” lower for transport height	3’-0” more max height; 13’ – 9” greater outreach
4 steering modes vs 3 (no 2W Rear)	10% More Gradeability	4” more platform depth
Can weld simultaneously with boom positioning	Can weld simultaneously with boom positioning	15% More Gradeability
Xtra-Deck Option	Xtra-Deck Option	Can weld simultaneously with boom positioning
		Xtra-Deck Option

Competitive Reach Diagrams





Outreach at 100’



Why MEC?

Best ROI Big Boom on Market

- **User-preferred features – generate better utilization and rate**
  - More capacity at reach and with rotating jib
  - Most solid feeling and smooth operating boom
  - Set-in-place axles, easy to use
- **Lower operating costs**
  - No extra permit costs
  - Less platform repairs
  - Less maintenance costs, longer service interval
- **Technicians and delivery staff appreciate**
  - X-chassis – less wear and tear on axles
  - Onboard diagnostics – no special analyzers
  - Well protected, proven components
  - Jib into transport position from controls
  - MEC service and parts support
- **Unique MEC Specs**
  - No footrest required
  - Crane-style multi-keel boom
  - Xtra-Deck Option
  - PPSS
- **Other Key Specs**
  - 900 lbs @ 135’ full height
  - 600 lbs @ 80’ outreach
  - 8’ Multi-Directional Jib with 900 lbs. Restricted and 600 lbs unrestricted capacity

MEC 135-RJ Collateral

Why MEC Flyer



Why Buy the 135-RJ Diesel Telescopic Boom from MEC?

1. User-Preferred Features
- Most rigid and smooth big boom
- High-capacity 8' rotating jib
- Set-In-Place axle extension
- Dual capacity (900 lbs/600 lbs)
- Spacious platform – 40" deep
- 4 steering modes – crab; 4-wheel; 2-wheel front; 2-wheel Rear
- Can run weld generator and operate boom simultaneously

2. Lower Operating Costs
- Can be transported without permits with 44,775 gvw
  - Only 9' – 3" high vs 10' others
  - Fits on more trailer types
- Heavy-duty platform minimizes damage; replaceable floor panels
- EMI protection on key components
- Steel covers stay attached during transport
- Less tire wear and axle load

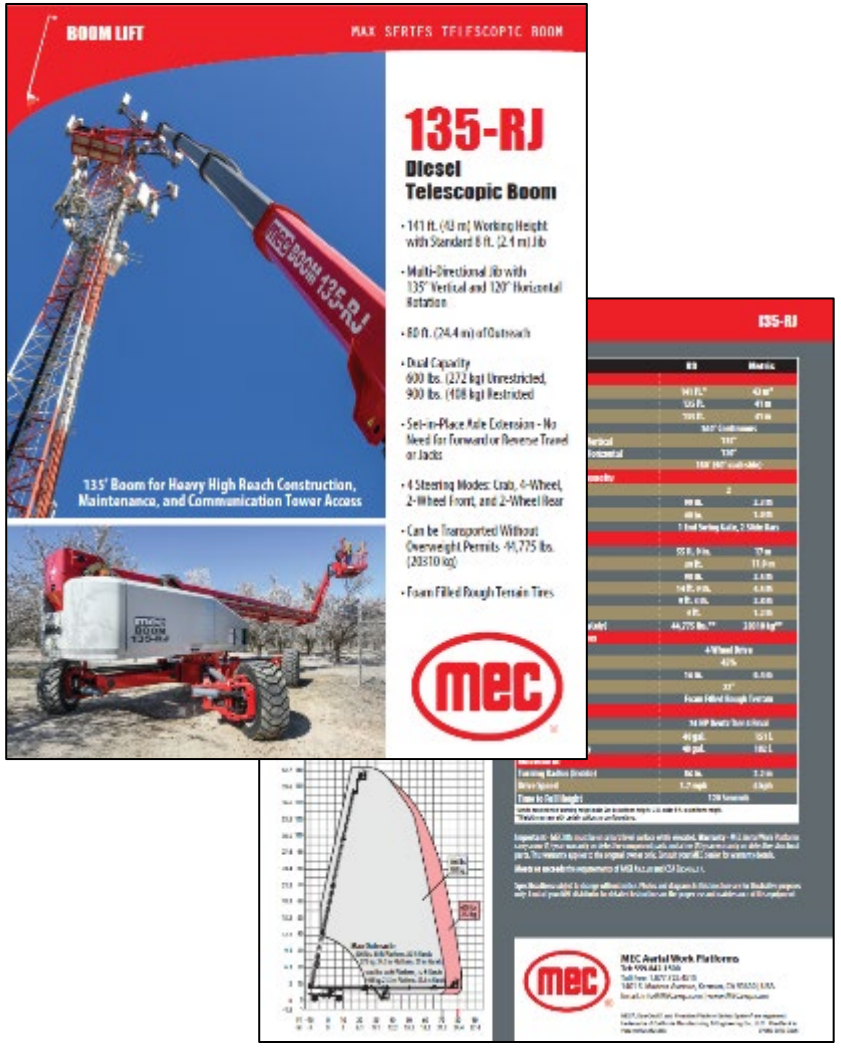
3. Appreciated by Technicians and Delivery Staff
- X-Chassis design for less wear/tear on axle deployment
- Onboard diagnostics -- No special tools or analyzers required
- Service components well protected, proven suppliers
  - Deutz, Parker, RexRoth
- Can put jib in transport position with controls
- Rear-wheel steering for truck-loading adjustments
- MEC parts in stock and in-field support throughout North America

4. Unique MEC Specs
- High-Capacity Rotating Jib
- No footrest required
- Crane-Style Multi-Keel Boom Design
- Xtra-Deck Option (x2)
- Proactive Platform Safety System

5. Other Key Specs
- 900 lbs capacity at 135' full height
- 600 lbs capacity @ 80' outreach
- 8' Jib w/120° horizontal and 135° vertical rotation

www.MECawp.com 1-877-MEC-LIFT

Front/Back Sell Sheet



4-Page Brochure



Contact us for more information

www.MECawp.com



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