



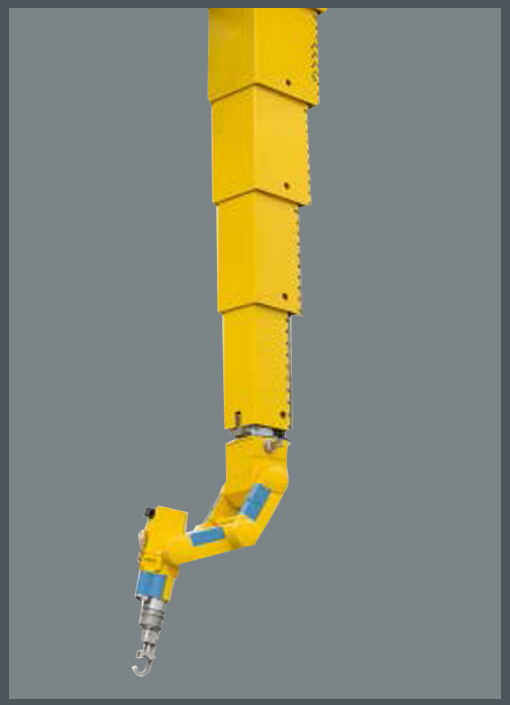
TELESCOPING MAST TECHNOLOGY FOR MANIPULATOR SYSTEMS

PAR SYSTEMS

PAR offers a variety of telescoping timed mast design options, built to fit the needs of your unique application. We offer several option for recoverability to improve the quality and safety of your remote handling operations. An option to fit any need and any budget.



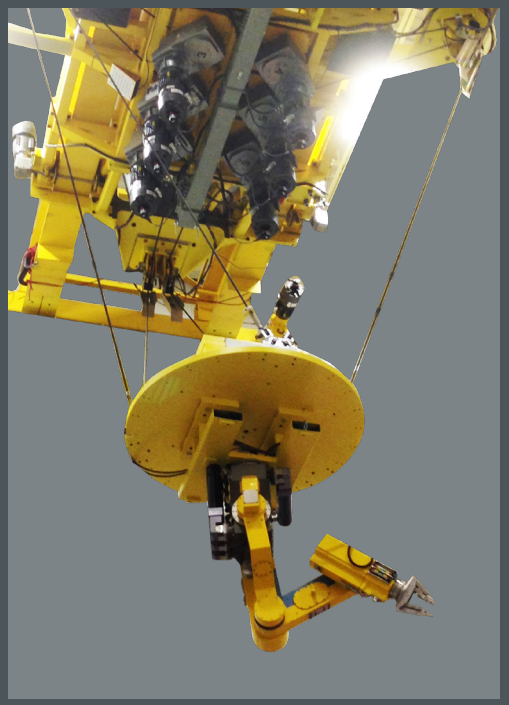
ROUND MAST
For Shorter Reach



SQUARE MAST
Longer Reach Applications



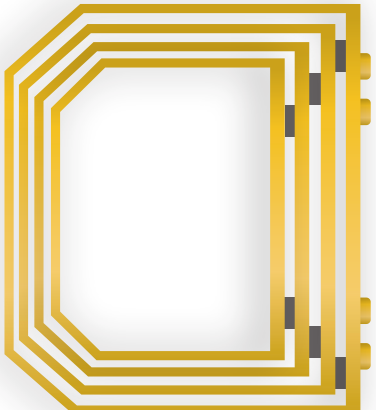
D MAST
Longer Reach and Higher Stiffness Requirements



TENSILE TRUSS™
Maximum Travel Capacity *

VARIABLE MAST COMBINATIONS FLEXIBLE TO FIT YOUR NEEDS

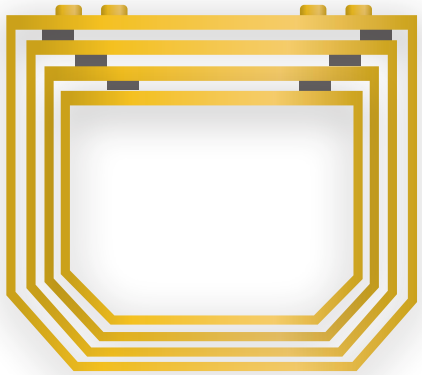
- Variable length of moving tubes
- Variable number of moving tubes
- Variable materials of moving tubes
- Variable diameter and sizes of moving tubes



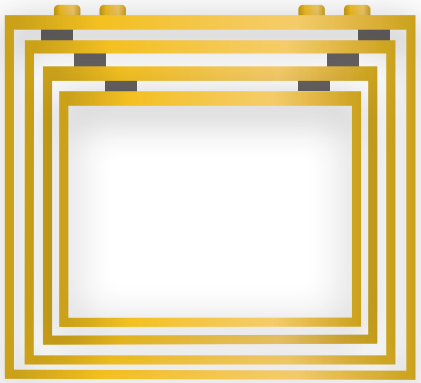
IT'S A GAME CHANGER

PAR's patented back plate design allows you to maintain higher productivity by giving you access to the timing belts to allow for easier repair and less downtime.

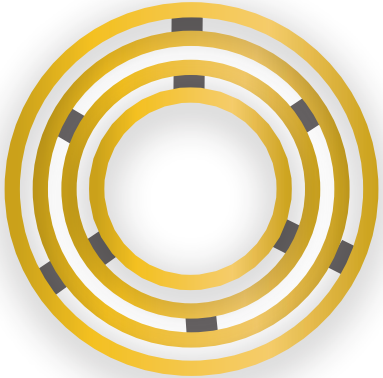
VARIETY OF MAST DESIGNS OPTIONS



D MAST



SQUARE MAST



ROUND MAST

PAR offers different hoist and motor configurations to fit your unique needs.

Highest Level Recoverable Single Failure Proof

- Dual Hoist, Dual Hoist Drive
- Single Failure Drive Train
- D Mast
- Hoist, motor, gearbox and cable failures all recoverable



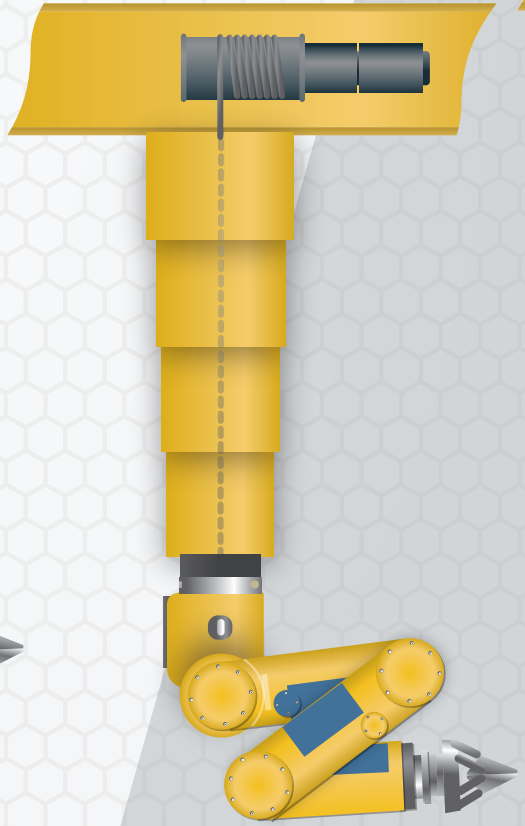
Hoist Failure Recoverable

Single Motor / Dual Hoist



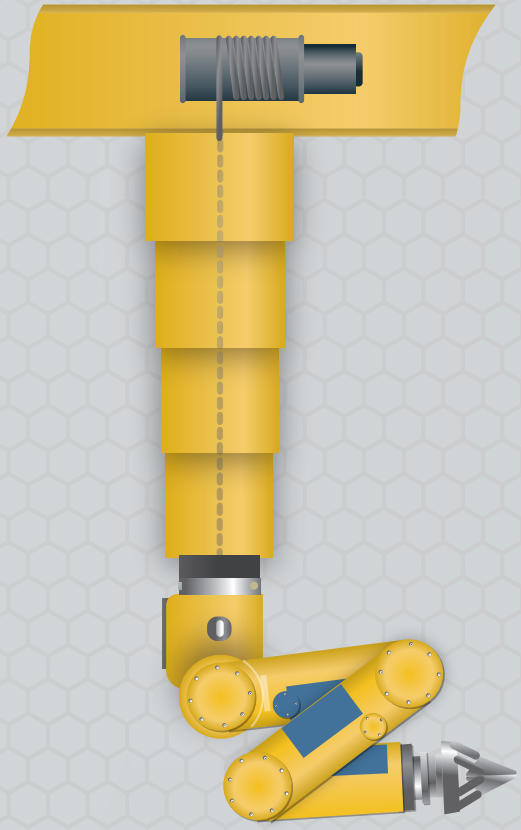
Motor Failure Recoverable

Dual Motor / Single Hoist



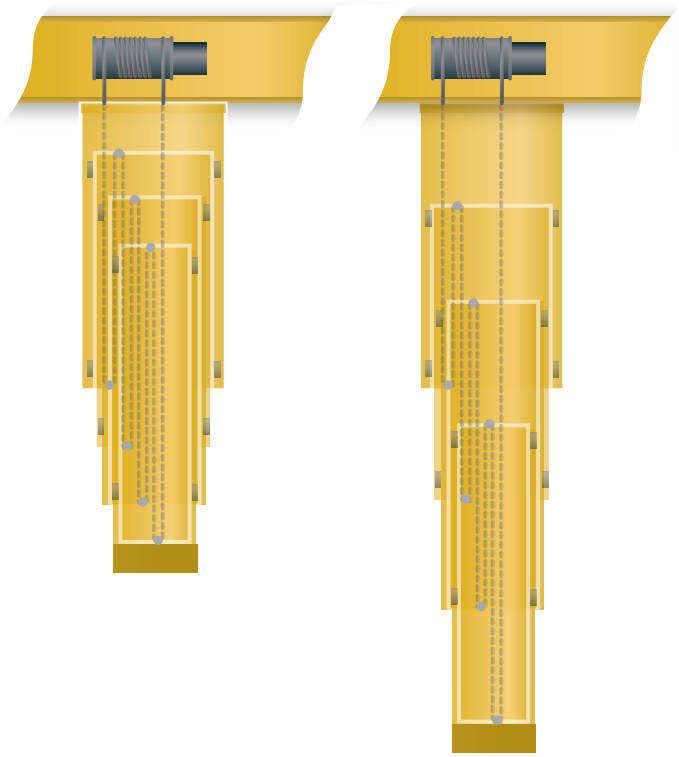
Non-Recoverable Non-Timed

Single Motor / Single Hoist



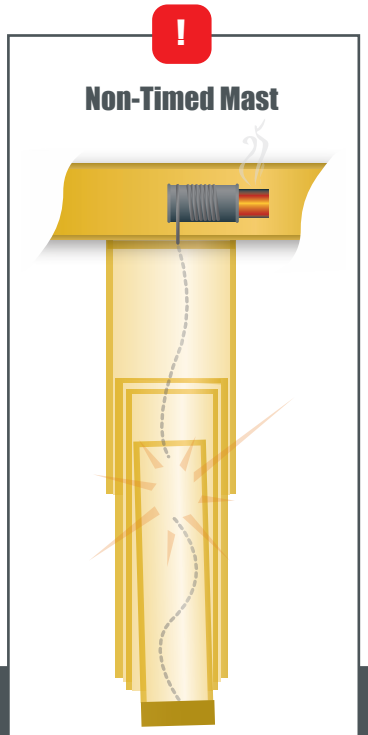
PAR's unique timed mast design improves the reliability and safety of your operations. Our patented design allows the mast to extend evenly while reducing your risk in your cell. Our timed mast design offers much more reliability than traditional coil cord design.

Unique Timed Mast Design

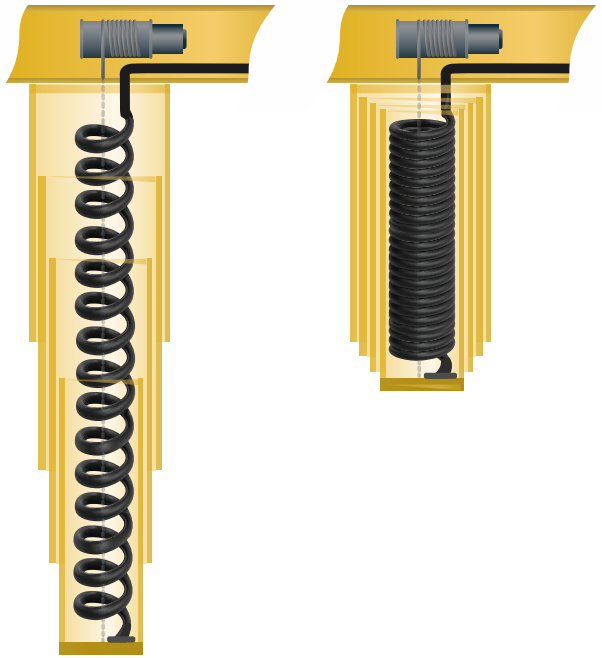


VS.

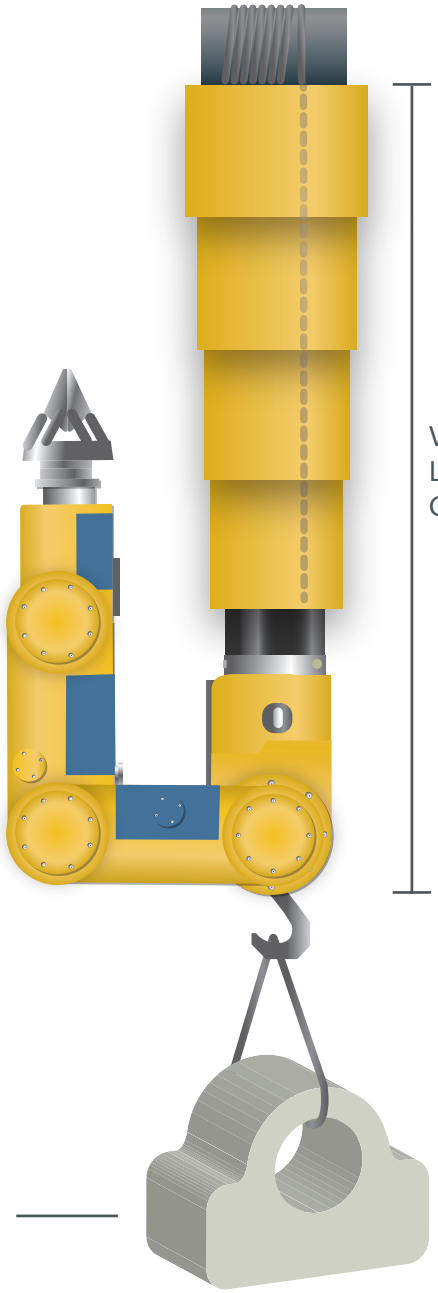
Non-Timed Mast



Traditional Coil Cord Design



HOIST CAPACITY



Variable Length Capacity

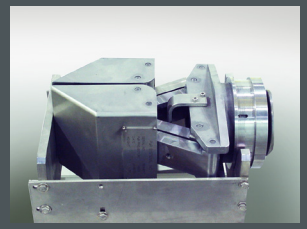
Variable Weight Capacity

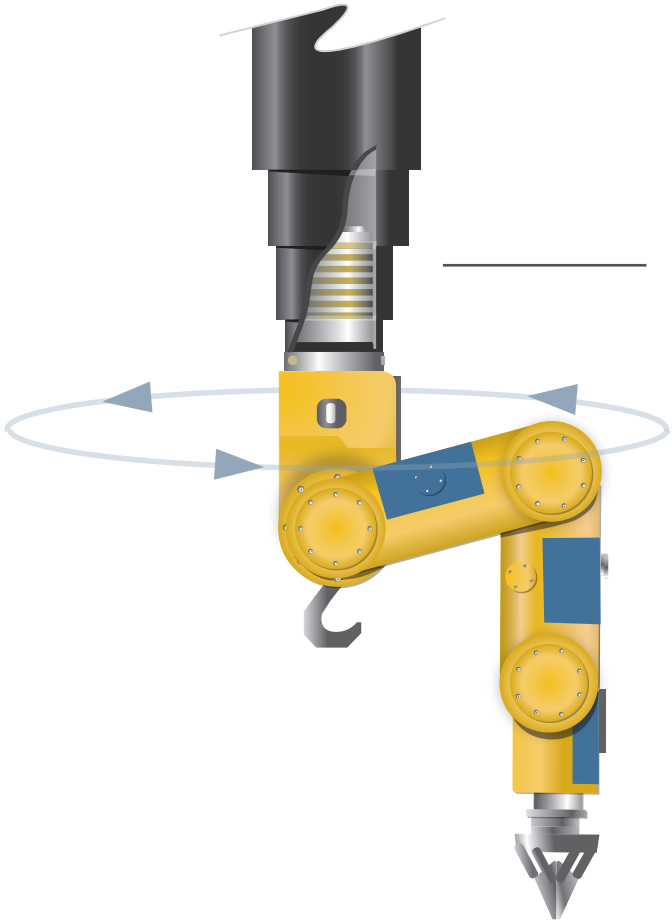
Weight load capacity is typically between 1000 lbs. and 4000 lbs.

Many different tools can be mounted to the end of the telescoping mast, not just a manipulator arm, some examples of tools below









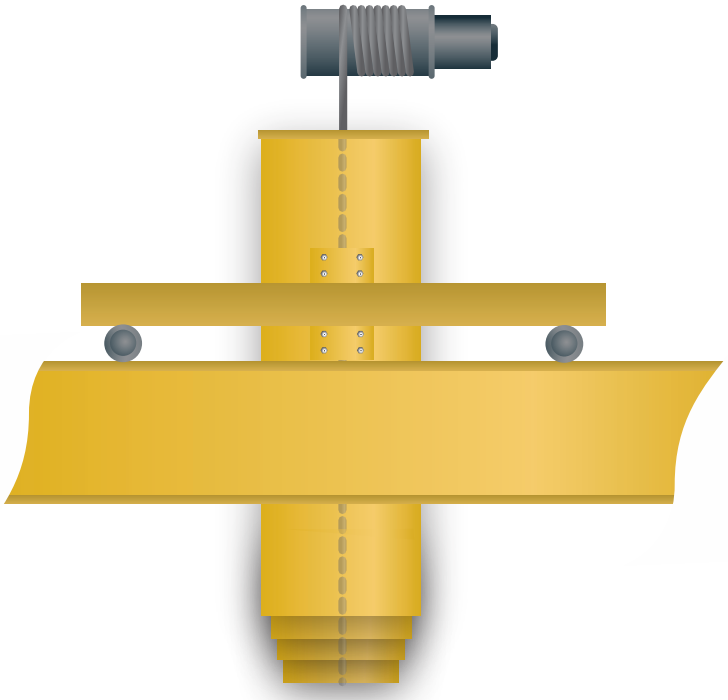
Continuous Rotation

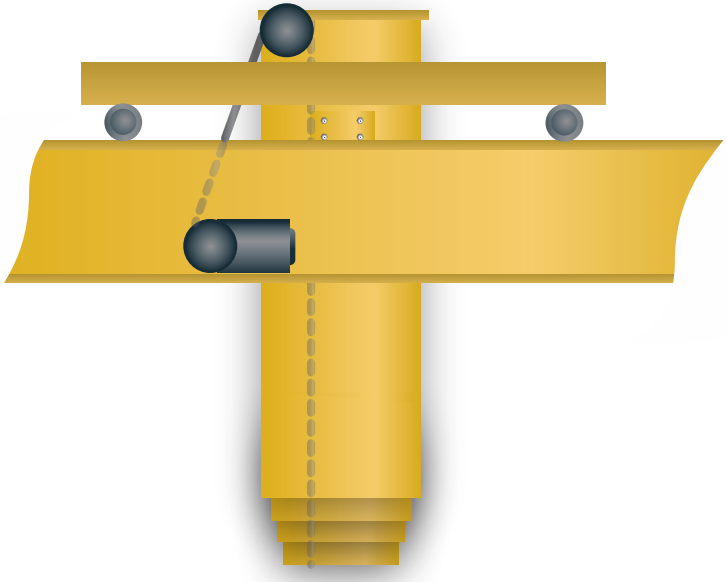
Features:

- Internal cable
- Slip rings
- Continuous rotation without cable management issues

LOW HEADROOM CONFIGURATION

The design of our telescoping mast can be customized even for low ceiling height applications such as certain hot cell environments. PAR can deliver a tailored solution to for your unique needs no matter what your environment restrictions might be.







PAR SYSTEMS

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Rev. B
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