



MSJA ENGINEERS PVT. LTD.

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Heavy Duty Job Work, Precision CNC Machining & Specialized Tractor Containerization Racks

1. Executive Summary & Capabilities

MSJA Engineers Pvt. Ltd. provides turnkey custom engineering, precision fabrication, and heavy-duty industrial job work. We specialize in designing and manufacturing high-density structural framing systems engineered exclusively for safe, damage-free, and highly optimized Tractor Transportation inside standard ISO Shipping Containers.

Core Plant Infrastructure:

- **Advanced CNC Laser Cutting:** Automated high-tolerance systems for clean, complex geometric profiles and heavy structural plate detailing.
- **Industrial Bending & Forming:** High-tonnage press brakes to structurally reinforce stress points and structural chassis.
- **Heavy Structural Welding:** Certified high-penetration MIG/Stick welding designed to handle massive dynamic load shifts during maritime transit.
- **Surface Treatment & Finishing:** Professional multi-coat anti-corrosive Red Oxide priming to resist high-humidity marine environments.

2. Engineered Solutions for Tractor Containerization

Shipping high-tonnage agricultural tractors requires infrastructure that handles severe shifting, vibrating, and acceleration forces. Our custom job-work framework bridges the gap between raw transport demands and absolute structural safety.

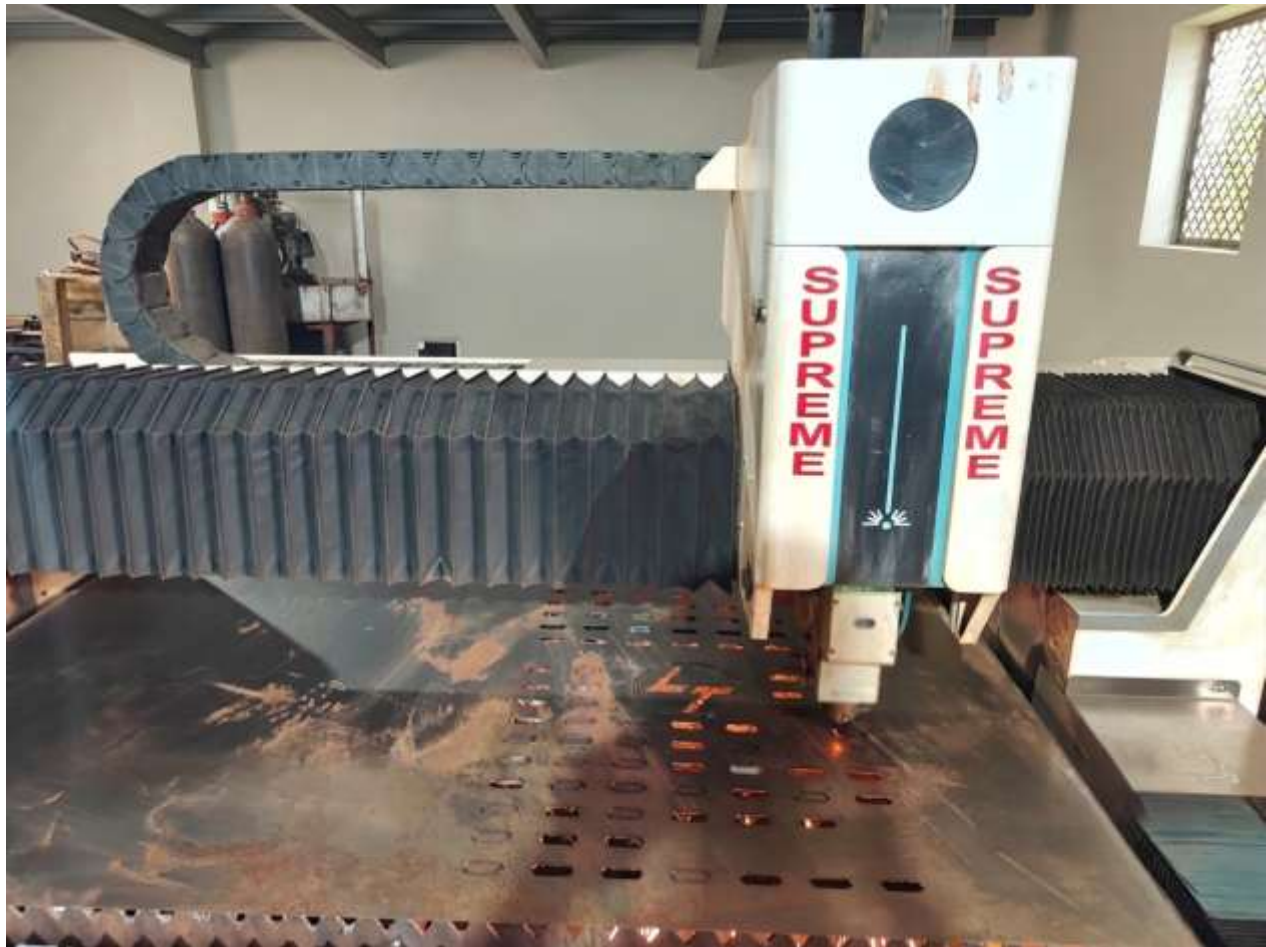
Optimized Structural Stacking & Support Bars: Engineered hollow-section heavy steel frameworks designed to hold tractors rigid, allowing optimized tilting or vertical nesting configuration inside 20ft and 40ft containers.

- **CNC-Machined Heavy Mounting Flanges:** High-precision circular mounting configurations featuring exact multi-hole bolt circles for flawless anchoring directly to tractor wheel hubs or main chassis points.
- **Dual-Slot Adjustable Bracket Plates:** Slotted lock-channels welded seamlessly to heavy structural tubes, facilitating universal tie-down adjustment for varying tractor wheelbases and weight distributions.
- **Integrated Rigging Loops:** Solid steel U-links strategically welded on frames to handle heavy overhead crane positioning, container loading, and secure lashing.

3. Production & Visual Quality Showcase

A. High-Precision CNC Laser Production Floor

Automated CNC laser processing cuts custom layouts, bolt-hole matrices, and precision slots directly out of heavy plate steel, guaranteeing 100% component repeatability and flawless edge geometry.



B. Precision Slotted Bracket Plate Components

Heavy-wall rectangular steel sections equipped with custom CNC-cut dual-slotted brackets. These pieces provide heavy-duty tie-down and fastening alignment channel.



C. Symmetrical Hub Alignment & Anchor Flanges

Heavy circular backing plates featuring a precision-cut center bore and eight-hole mounting layout, designed to withstand intense shear and tension during multi-axis shipping acceleration.



D. Structural Stacking Framework Fabrication (In-Progress)

Heavy-gauge main chassis frame stacks built from high-tensile rectangular hollow profiles. Features integrated alignment plates, solid lifting eyelets, and balanced cross-bracing.



4. Why Choose MSJA Engineers?

- **Maximize Container Capacity:** Custom engineering allows you to fit more tractor units per container, drastically slashing global logistics overheads.
- **Precision Machinery:** No outsourced workflows. CNC cutting and advanced bending machines ensure exact adherence to your technical CAD specifications.
- **Structural Dependability:** Built exclusively for heavy industrial loads, ensuring zero-yielding structural joints under extreme conditions.

MSJA Engineers Pvt. Ltd.

Quality Job Work • Custom Infrastructure • Advanced CNC Fabrication Solutions