



Air & Electronic Tools
 Tool Balancers
 Torque Arms & Torque Tubes
 Torque Testers & Monitors
 Sockets, Bits & Attachments
 Adjustable Workbenches
 Assembly Stations

CORPORATE HEADQUARTERS
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 (248) 442-8550 • FAX (248) 442-8555
 DUNS # 13-946-8136

**KRAMER AIR TOOL
 SALES AND SERVICE**

www.kramerairtool.com

GRAND RAPIDS BRANCH
 GRAND RAPIDS, MI
 (616) 243-7725 • FAX (616) 243-4105
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Tool Repair Services & Programs
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 Error-Proofing Systems



UNIFIED INDUSTRIES, INC.

LANSING BRANCH
 1415 RENSEN ST. • LANSING, MI 48910
 (517) 393-7273 • FAX (517) 393-3299
 DUNS # 13-946-8136

RFQ FORM

Complete the RFQ form below and [e-mail to RFQ@kramerairtool.com](mailto:RFQ@kramerairtool.com)

Request # (internal use only): _____

Attention: _____
 Salesman: _____

Date: _____
 Quote Due By: _____

Customer Information:

Customer Code (Important): _____
Customer/Plant Name: _____ **End-user:** _____
Contact: _____ **Phone:** _____
Fax: _____ **Email:** _____
Program/Project Name: _____

Quote Requirements: (Description of Application, existing structure, weight restrictions, dimensions, power source, production rate, environment, etc.):

Quantity Required LH/RH Units Required?

Customer Design Standard: (Autocad, UG, Solid Works, Catia, Other (specify)?)

Manuals: Hard Copy or CD required? _____ Qty: _____

Also included: Photos Drawings Parts Layouts
 (Check or Highlight all that apply)

Application Data: (Check all that are needed)

Overhead Bridge & Rail Systems

Ceiling Mounted Freestanding Jib Crane Working Height: _____
 Unified Gorbelt Zimmerman Knight Demag Other (specify)

Runway Rail(s): Single Dual Working Length: _____
 Size/Type 4" Aluminum 8" Aluminum 4" Steel 8" Steel Other (specify)
 Hangers Block Beam Clip Adjustable Flush Mount Other (specify)
 Airline Festooning Loop Coilhose Filter/Regulator Lubricator Other (specify)

Bridge Rail(s): Single Dual Working Length: _____
 Size/Type 4" Aluminum 8" Aluminum 4" Steel 8" Steel Other (specify)
 End Trucks Single Dual Rigid Other (specify)
 Airline Festooning Loop Coilhose Filter/Regulator Lubricator Other (specify)

Accessories:

Tractor Drive Pneumatic Electric Pendant Runway Bridge
 Cable Festooning Trolleys Runway Bridge
 Redundant end stops Yes No Note: These items are automotive standard
 Safety Cables Yes No Note: These items are automotive standard

Additional data (List - special cantilevers, telescoping rails, etc.): _____

Any Obstructions? (Explain- lights, beams, cords, columns, etc.): _____

Suspension Systems (From overhead rail to tool(s) and/or end effector)

| | | | | | |
|---|---|--|--|---|--|
| <input type="checkbox"/> Torque Tube | <input type="checkbox"/> Vertical Travel (in) | <input type="checkbox"/> Lift Capacity (lbs) | <input type="checkbox"/> Fixed OH Mount | <input type="checkbox"/> Single Trolley | <input type="checkbox"/> Dual Trolley |
| | <input type="checkbox"/> Quad Trolley | <input type="checkbox"/> Rotate w/stops | <input type="checkbox"/> Disc Brake | <input type="checkbox"/> Horton Clutch | <input type="checkbox"/> Lower Swivel |
| | <input type="checkbox"/> Up/Down Controls | <input type="checkbox"/> Fixed Toolholder | <input type="checkbox"/> Rotate Toolholder | <input type="checkbox"/> Mounting Plate | <input type="checkbox"/> Other (specify) |
| <input type="checkbox"/> Articulating Arm | <input type="checkbox"/> Reach (ft) | <input type="checkbox"/> Lift Capacity (lbs) | <input type="checkbox"/> 18" Carriage | <input type="checkbox"/> 24" Carriage | <input type="checkbox"/> 36" Carriage |
| | <input type="checkbox"/> Disc Brake | <input type="checkbox"/> Horton Clutch | <input type="checkbox"/> Line Tracking | <input type="checkbox"/> Up/Down Controls | <input type="checkbox"/> Other (specify) |
| | <input type="checkbox"/> Fixed Toolholder | <input type="checkbox"/> Rotate Toolholder | | | |
| <input type="checkbox"/> Pneumatic Hoist | <input type="checkbox"/> Lift Capacity (lbs) | <input type="checkbox"/> Vertical Lift (ft) | <input type="checkbox"/> Cable | <input type="checkbox"/> Chain | <input type="checkbox"/> Pendant (ft) |
| | <input type="checkbox"/> Lift Speed (fpm) | <input type="checkbox"/> Chain Bucket | <input type="checkbox"/> Other (specify) | | |
| <input type="checkbox"/> Electric Hoist | <input type="checkbox"/> Lift Capacity (lbs) | <input type="checkbox"/> Vertical Lift (ft) | <input type="checkbox"/> Power | <input type="checkbox"/> Phase | <input type="checkbox"/> Pendant (ft) |
| | <input type="checkbox"/> Lift Speed (fpm) | <input type="checkbox"/> Single Speed | <input type="checkbox"/> Dual Speed | <input type="checkbox"/> Chain Bucket | <input type="checkbox"/> Other (specify) |
| <input type="checkbox"/> Zero-G Balancer | <input type="checkbox"/> Air | <input type="checkbox"/> Spring | <input type="checkbox"/> Other (specify) | | |

Additional data (List - hoist manufacturer, custom carriages, custom controls, etc.): _____

Fastening Tooling: (Information is for engineered tooling quote purposes only. Nutrunners, controllers, cables, etc. to be quoted by sales)

| | | | | | |
|---|--|--|--|--|--|
| <input type="checkbox"/> Single Spindle | <input type="checkbox"/> Prevailing Torque | <input type="checkbox"/> Self-tapping | <input type="checkbox"/> Socket tray (specify) | | |
| <input type="checkbox"/> Trombone | <input type="checkbox"/> Pivot w/ Spring | <input type="checkbox"/> Powered Pivot | <input type="checkbox"/> THK w/ Spring | <input type="checkbox"/> Powered THK | <input type="checkbox"/> Other (specify) |
| <input type="checkbox"/> Multiple | <input type="checkbox"/> # of Spindles | <input type="checkbox"/> Open Frame | <input type="checkbox"/> Enclosed | <input type="checkbox"/> Rigid Mount | <input type="checkbox"/> Rotating Mount |
| Nutrunner Brand | <input type="checkbox"/> Atlas Copco | <input type="checkbox"/> CP | <input type="checkbox"/> Bosch | <input type="checkbox"/> Cooper | <input type="checkbox"/> Other (specify) |
| Nutrunner Type | <input type="checkbox"/> DC Electric | <input type="checkbox"/> Pneumatic | Model Number (specify): _____ | | |
| Nutrunner Style | <input type="checkbox"/> Right Angle | <input type="checkbox"/> In Line | <input type="checkbox"/> Pistol | <input type="checkbox"/> Other (specify) | |
| Fastener Orientation | <input type="checkbox"/> Vertical | <input type="checkbox"/> Horizontal | <input type="checkbox"/> Angled (specify) | | |
| Torque | <input type="checkbox"/> Min | <input type="checkbox"/> Target | <input type="checkbox"/> Max | <input type="checkbox"/> N-m | <input type="checkbox"/> Ft-Lb |

Additional data (List - clearance issues, custom configurations, socket tray data, multiple bolt pattern, etc.): _____

Lift Assist End Effector: (please attach a sketch of suggested idea, if possible)

| | | | | | |
|--|---|--------------------------------------|--|--|--|
| Part weight(s) to be suspended: Minimum pick up height: _____ | Number of product variations: Maximum drop off height: _____ | | | | |
| <input type="checkbox"/> Manual Hook | <input type="checkbox"/> # of Hooks | <input type="checkbox"/> Chains | <input type="checkbox"/> Spreader Bar | <input type="checkbox"/> Other (specify) | |
| <input type="checkbox"/> Manual Clamp | <input type="checkbox"/> Length | <input type="checkbox"/> Width | <input type="checkbox"/> # of Clamps | <input type="checkbox"/> Manual Tilt | <input type="checkbox"/> Manual Rotate |
| | <input type="checkbox"/> Other (specify) | | | | |
| <input type="checkbox"/> Powered Gripper | <input type="checkbox"/> Length | <input type="checkbox"/> Width | <input type="checkbox"/> # of Grippers | <input type="checkbox"/> Powered Tilt | <input type="checkbox"/> Powered Rotate |
| | <input type="checkbox"/> Powered CG shift | <input type="checkbox"/> Manual Tilt | <input type="checkbox"/> Manual Rotate | <input type="checkbox"/> Manual CG Shift | <input type="checkbox"/> Other (specify) |
| <input type="checkbox"/> Vacuum | <input type="checkbox"/> Length | <input type="checkbox"/> Width | <input type="checkbox"/> # of Cups | <input type="checkbox"/> Powered Tilt | <input type="checkbox"/> Powered Rotate |
| | <input type="checkbox"/> Powered CG shift | <input type="checkbox"/> Manual Tilt | <input type="checkbox"/> Manual Rotate | <input type="checkbox"/> Manual CG Shift | <input type="checkbox"/> Other (specify) |
| <input type="checkbox"/> Air Magnet | <input type="checkbox"/> Length | <input type="checkbox"/> Width | <input type="checkbox"/> # of Magnets | <input type="checkbox"/> Powered Tilt | <input type="checkbox"/> Powered Rotate |
| | <input type="checkbox"/> Powered CG shift | <input type="checkbox"/> Manual Tilt | <input type="checkbox"/> Manual Rotate | <input type="checkbox"/> Manual CG Shift | <input type="checkbox"/> Other (specify) |
| <input type="checkbox"/> Power Clamp | <input type="checkbox"/> Length | <input type="checkbox"/> Width | <input type="checkbox"/> # of Clamps | <input type="checkbox"/> Powered Tilt | <input type="checkbox"/> Powered Rotate |
| | <input type="checkbox"/> Powered CG shift | <input type="checkbox"/> Manual Tilt | <input type="checkbox"/> Manual Rotate | <input type="checkbox"/> Manual CG Shift | <input type="checkbox"/> Other (specify) |
| <input type="checkbox"/> Other: (describe in detail) | _____ | | | | |

End Effector Controls:

| | | |
|------------------------------------|--|--|
| <input type="checkbox"/> Pneumatic | <input type="checkbox"/> Kramer Standard | <input type="checkbox"/> Customer Standard (submit standards with RFQ worksheet) |
| <input type="checkbox"/> Electric | <input type="checkbox"/> Kramer Standard | <input type="checkbox"/> Customer Standard (submit standards with RFQ worksheet) |

Communication Protocol:

| | | | |
|-----------------------------------|-----------------------------------|---------------------------------|--|
| <input type="checkbox"/> Ethernet | <input type="checkbox"/> Profibus | <input type="checkbox"/> Modbus | <input type="checkbox"/> Other : _____ |
|-----------------------------------|-----------------------------------|---------------------------------|--|

End Effector Options:

| |
|---|
| <input type="checkbox"/> Lift Certification |
| <input type="checkbox"/> Weld Certification |
| <input type="checkbox"/> PE Certification |

Additional data/Information (List - clearance issues, custom configurations, dunnage information, pallet information, sketches, drawings, photos, math data, parts, customer supplied material, etc.):

Other Material Handling/Engineered Products (To be quoted by Sales)

Lift Tables

| | | | | |
|-------------------------------|---------------------------------|---------------------------------|----------------------------------|-------|
| <input type="checkbox"/> Lift | <input type="checkbox"/> Tilt | <input type="checkbox"/> Rotate | <input type="checkbox"/> Custom: | _____ |
| Weight to be lifted: | _____ | Dimensions: | H _____ W _____ D _____ | |
| Tilt Degrees: | _____ | Rotate Degrees: | _____ | |
| | <input type="checkbox"/> Manual | <input type="checkbox"/> Power | How? _____ | |