



GCI

Engineered Solutions

LEADING THE INDUSTRY IN DESIGN FLEXIBILITY

www.GCILIFT.COM

320-834-2211

SALES@GCILIFT.COM



CARBON FIBER TORQUE ARMS

GCI Engineered Solutions is proud to be the first and only in the market to design and build innovative carbon fiber arm systems used in assembly for both torque reaction and material handling applications. The result of over 5 years of R&D, these systems provide the most ergonomic and lightweight solution available in the industry. Constructed using the latest advancements in carbon fiber composite technology, they are far lighter than any metal product while providing the same durability as steel.



LEVELING ON ALL JOINTS TO ACHIEVE "NO DRIFT" AND DISCRETE BRAKE TECHNOLOGY TO LOCK UP BOTH ARM & TOOL

- 48, 60 OR 72 INCH VERTICAL TRAVEL
- 8, 10, 12, 14, 16, 18, 20 FOOT REACH
- VERY CONDUCTIVE FOR PORTABLE USE (ARM MOVES WITH MINIMAL EFFORT REGARDLESS IF IT IS LEVEL)
- >10:1 SAFETY FACTOR ON COMPOSITE MATERIAL
- DESIGNED USING THE LATEST IN FEA ENGINEERING ANALYSIS

MINIMAL ARM INERTIA DUE TO REDUCED WEIGHT RESULTING IN UNPARALLELED PUSH/PULL FORCES EXERTED ON THE OPERATOR

• ADAPTICS TOOL TRACKING AVAILABLE (ENCODER READY)

- 30 - 7,500 NM TORQUE REACTION
- MINIMAL DEFLECTION CRITERIA AT MAXIMUM TORQUE/LOAD

- MODULAR FLOOR, OVERHEAD, LOW-PROFILE AND PORTABLE CONFIGURATIONS
- REDUCED FOOTING REQUIREMENTS (ARMS <10' REACH AND 1000 NM SHOULD NOT REQUIRE FOUNDATIONS ON TYPICAL INSTALLATIONS)

CUSTOMIZED TO YOUR NEEDS

MULTI SPINDLE



RIGHT ANGLE TORQUE WITH BOTH HORIZONTAL & VERTICAL CAPABILITY



HAND HELD TORQUE TOOL WITH DISCRETE BRAKE



TWIN SPINDLE



TORQUE TOOL WITH TILT LOCK AND DISCRETE BRAKE



360 DEGREE ROTATION



8 SPINDLE



ADAPTICS SMART ARMS

Our specialized AdaptiCS Smart Arms can be used for error proofing almost any application including torque, tensioning and part verification. Smart arms are able to guide the operator in programmable torque or tensioning patterns as well as count fasteners required for correct assembly. They error-proof your assembly process by enabling the torque tool to operate only when it is at the correct location, sequence step (optional) and that the appropriate torque or tensioning program is used at each location.



- CONFIGURABLE SECURITY
- BI-DIRECTIONAL ARM TRACKING
- CONSISTENT, INCONSISTENT AND MOVING PARTS CAPABILITIES
- FLEXIBILITY TO INTEGRATE INTO ANY LINE CONTROL (PLS, MES OR OTHER)
- ADAPTICS ENTERPRISE FOR FULL LINE CONTROL, INTERLOCKS & DATA COLLECTION

- OPEN FOR CUSTOM PROGRAMMING BY END-USER VIA ADAPTICS AND OUR PROPRIETARY WINDOWS BASED SOFTWARE
- PROCESS LINKING TO SUPPORT & FORCE PROCESS WORK-FLOW
- MULTIPLE REWORK STRATEGIES TO FIT CUSTOMER REQUIREMENTS

- ENCODED TORQUE TOOL TIP POSITIONING
 - TOOL MANUFACTURER INDEPENDENT
- (ETHERNET OPEN PROTOCOL, OTHER OFFERINGS AVAILABLE UPON REQUEST)
- AIMCO -APEX/CLECO -ATLAS COPCO -DESOUTTER -INGERSOLL RAND -STANLEY
-STURTEVANT RICHMONT -HTI -KEYENCE CAMERAS

THE GCI DIFFERENCE



GCI saves money for numerous Fortune 500 companies on a daily basis. Our commitment to pushing the envelope in creating a more efficient and safe work environment has earned us a reputation as the leading single source provider of torque reaction and custom material handling systems across the globe.

We achieve this reputation through our 27 years of experience in the material handling and torque market utilizing a team consisting of expert mechanical and software engineers and highly skilled mechanical and electrical designers. This allows us to design, fabricate, assemble, test (including FEA) and ship all directly from our Minnesota, USA location benefitting our clients in turnaround and costs.



SEARCH "GCI LIFT" TO SEE ARMS IN ACTION ON OUR YOUTUBE CHANNEL

MANIPULATORS

Carbon fiber or steel manipulators and stackers are available with a multitude of options including, but not limited to, arm, end of hook, floor or overhead mountings and can be built to be compatible with overhead and freestanding bridge systems. They have up to a 20 Ft reach, one-off tooling and upwards of a 10,000 Lb capacity. Our manipulators can be articulating or non-articulating, multidirectional as well as variable speed pendant lift control or hoist capacities and can be built for air or electric power sure to suit any of your unique needs.



IPS WITH BALANCE
HANDLE FOR DRUM



FRAME HANDLER



ROLL HANDLING PROBE



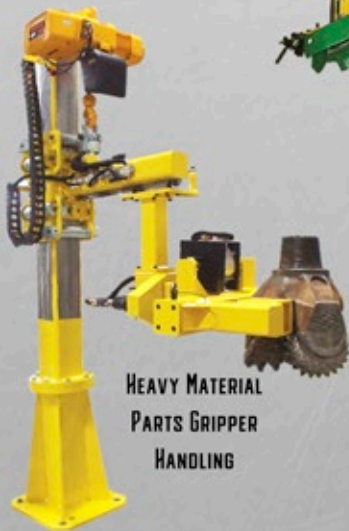
ARTICULATED JIB



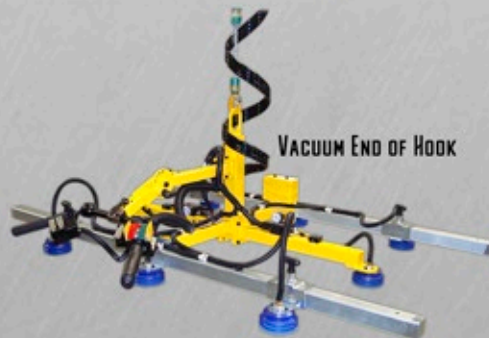
OVERHEAD BODY
PANEL HANDLING



I.D. GRIPPER



HEAVY MATERIAL
PARTS GRIPPER
HANDLING



VACUUM END OF HOOK



ENGINE CASE
ROLLOVER STACKER

GCI

Engineered Solutions

www.GCILIFT.COM • 320-834-2211 • SALES@GCILIFT.COM • 4179 COUNTY ROAD 40 NW, GARFIELD, MN 56332

