



LEADING THE INDUSTRY IN DESIGN INNOVATION

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CARBON FIBER TECHNOLOGY

GCI Engineered Solutions is proud to be the first and only in the market, worldwide, to design and build innovative, high capacity 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 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"

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

- 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

• ADAPTICS TOOL TRACKING AVAILABLE
(ENCODER READY)

- 30 - 7,500 NM TORQUE REACTION
- MINIMAL DEFLECTION CRITERIA AT MAXIMUM TORQUE/LOAD
- UP TO 500 LB CAPACITY FOR MATERIAL HANDLING APPLICATIONS

- 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 TORQUE SYSTEMS



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

Machine	Max Torque Reaction (Nm/Ft-lb)	Max Reach (ft)	Smart Arm (Option)
T40S	40/30	2.5	
T50AS	50/36	3	*
T70S	70/50	3	
T100F	100/70	2.5	*
T135S	135/100	5	
T150AL	150/110	4	*
T150S	150/110	5	*
T275S	275/200	5	
T375F	375/275	6	*
T375S	375/275	6	*
T400S	400/300	6	
T550S	550/400	8	*
T600F	600/445	20	*
T1000SLt	1000/750	10	*
T1000S	1000/750	12	*
T1500F	1500/1110	20	*
T3000F	3000/2210	20	*
T3000S	3000/2210	12	*
T4000S	4000/2950	12	*
T7500F	7500/5530	12	*

* Available with Adaptics Smart Arm integration
F - Carbon Fiber **S** - Steel
A - Aluminum **L** - Linear Slide



- 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 world.

We have set the industry standard in innovation since our launch in 1992 by 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, costs and quality.

SCAN TO SEE ARMS IN ACTION



MANIPULATORS

From small to large, our steel or carbon fiber manipulators are available with a multitude of options including, but not limited to, arm, end of hook, floor or overhead mountings, articulating or non-articulating 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. Manipulators can also include variable speed pendant lift control and can be designed for air or electric power sure to suit any of your unique needs.



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