

G-FORCE TOOLING

Gorbel G-Force® and Easy Arm® Intelligent Lifting Devices are high speed, high precision, intelligent lifting devices that often require end tooling to complete a total solution that will grip, lift, move, lower and release a load and allowing the full benefit of increased productivity, reduced product damage and superior ergonomics. Choosing the right end-effector tooling to complement your G-Force® and Easy Arm® is the key to maximizing your lifting solution. End-effector tooling engages the load so it can be lifted and manipulated in whatever way your application requires – whether the load needs to be flipped, turned, or rotated. Gorbel dealers utilize our worldwide network of tooling integrators to provide the best solution for your application. This gallery of solutions shows different examples of Gorbel G-Force® and Easy Arm® units with end effectors to help you visualize the range of potential solutions for your lifting applications.



OD GRIPPER

Remote mounted pendant handle for gripping wheel and tire assemblies. Utilizes anti-drop intelligence feature of iQ model which doesn't allow release of the load in the air.



PLATE GRIPPER

Vertical to horizontal pitch function. In-line slide handle. May be used for steel plate or any other material.



BOX OR BUCKET LIFTER

Vacuum cups with Force Sensing Hub grips from side and top of boxes or buckets to maintain integrity of the package and allow high and low layer palletizing/de-palletizing.



TWO JAW GRIPPER

Remote pendant handle integrated pneumatic gripper, with manual rotate and adjustable center of gravity. Jaws can be customized to fit the geometry of any part.



TUBE LIFTER

Permanent magnet with pneumatic release. In-line slide handle. Also works with any round ferrous bar stock or cylindrical objects.



PLATE/SHEET LIFTER

Permanent magnet with pneumatic release. In-line slide handle. Size of magnets and configuration of magnet array can be customized to fit larger ferrous plates or sheets.



CASTING LIFTER

Force Sensing Hub. Magnetically grips and lifts coated metal castings from molds. Also includes a feature that uses high pressure air to release part from mold.



PLATE PICKER

Extended remote mounted pendant handle allows reaching over a plasma cutting table to remove cut parts or other applications where an extended reach is needed.



DRUM LIFTER

Force sensing hub vacuum with quick-change adapter and 3 different vacuum heads to lift drums, bags, and cardboard boxes with the same system.



PLATE PICKER

Magnet gripper with air actuated release and force sensing handle allows lifting and lowering without bending over to pick or place the load.



VACUUM CLAMP

Two-cup vacuum tool on two linear actuators use both clamping and vacuum to pick or place cabinets, enclosures, or other large box-type loads.



SPOOL GRIPPER

Pneumatic OD clamp with remote mounted pendant handle grips spools of wire, cable, or other material. A pitch function positions the spool horizontally or vertically.



ID GRIPPER

Pneumatic two-jaw ID gripper with automatic (button-less) clamp/unclamp function combines well with the Force Sensing Hub for high speed pick and place applications.



WHEEL LIFTER

Remote pendant handle pairs with a pneumatic OD gripper to lift and move car, truck, or heavy equipment wheels.



TIRE/WHEEL PICKER

Expanding air bladder is attached to an automatic clamp/unclamp unit with the Force Sensing Hub to pick and place wheels, with or without tires. Dual handles allow ergonomic high/low lifting.



PNEUMATIC CLAMP

Versatile clamping tool with in-line slide handle grips any load with flat sturdy sides such as car batteries, blocks, or metal blanks.



BIN LIFTER

Gripper with remote mounted pendant handle has rotate function to allow lifting and dumping of bins.



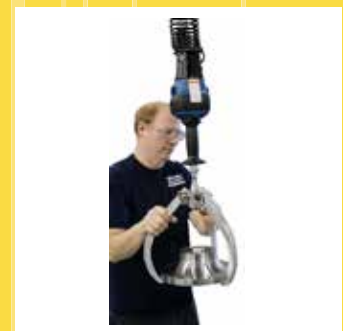
ROLL TURNER

Simple non-powered, mechanical ID roll lifter engages the core of the roll. Combined with the remote mounted slide handle, this unit also effortlessly rotates from vertical to horizontal.



SLEEVE PICKER

Manually actuated ball-lock pin engages the steel sleeve for lifting. Paired with a remote mount slide handle.



MANUAL TONG

Flexible three way tong grab with in-line slide handle allows lifting of a range of different diameter loads.

SOFT TOUCH CONTROL HANDLES

Use our Soft Touch Control Handles to control any air or electric powered equipment, such as end-effector tooling for the G-Force® or Easy Arm®. A common handle base for air or electric applications gives you design commonality and flexibility, whether your application requires air valves for direct control of end tooling, or electric switches to activate your G-Force® or Easy Arm® inputs.

MAKE TOOLING INTEGRATION EASIER

- Flexible design easily integrates into new equipment layouts
- Easy replacement of any standard pneumatic or electric handles
- Engineered for easy use to reduce potential for fatigue and repetitive stress injuries
- Offers more flexibility in tooling choices and the ability to customize tooling for applications
- Costs less than most comparable handles



CASE STUDIES

G-FORCE® IN ACTION: PAPER PLANT

This manufacturer of paper products replaced their air balancers with a Gorbelt® Easy Arm® to change out roll cores in their plant. The switch has enabled the production process to run smoother and they've increased productivity.



URL: <https://www.gorbel.com/solutions-center/ergonomic-lifting/paper-manufacturer-benefits-from-intelligent-lifting-solution>



G-FORCE® IN ACTION: POWDER COATING OPERATION

This powder coating company turned their two person operation into a one person job by replacing a forklift with a G-Force® Intelligent Lifting Device.



URL: <https://www.gorbel.com/solutions-center/ergonomic-lifting/powder-coating-g-force-intelligent-lifting-device-reduces-labor-costs-and-provides-safe-solution>

