



Product
Handled:

Hulls & Decks for Watercraft



Problem: The same end effector must pick up both the hull and deck, distinctly different weights and sizes of parts. A vacuum end effector will not work, because of the lack of consistent surfaces between the variety of parts & proven marring by vacuum cups. The products are quite large, limiting the operators ability to easily see the backside of the part when actuating grip.



APPLICATION: Pick up a hull weighing 240 lbs. and a deck weighing up to 80 lbs. with the same end effector, from an "H" frame fixture on a conveyor. The parts are removed from the conveyor for inspection. After inspection the parts are then transferred to a pass or fail cart.

SOLUTION: A pedestal mounted Simple Air Manipulator® (SAM P-112) with 77" of vertical travel and 112" of radial reach. Operator controls are on an air counter balanced "T" handle and provide an Ergonomic interface for the operator. A "C" frame O.D. Grip/Trap end effector to clamp and trap the part. Grip Pressure Regulator to limit the grip forces exerted on the part exterior.

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