

AIR TABLES

Automation Solution for the Printing and Publishing Industry

TCA designed and built these robust air tables to withstand the rigors of continuous use in a printing industry application. Fabricated from structural steel, the tables feature 3/4" thick tops made from black nacolite, chosen because of its durability and low friction properties. The combination of precisely drilled air vents, one-way, spring checked, ball valve nozzles, and a 200-240/400-480 VAC, 3-phase blower guarantees accurate, uniform airflow. The tables also feature leveler feet that enable ± 2 " work height adjustment.



Working closely with the customer, our mechanical design team created the 3D model for these tables, which were manufactured and assembled entirely in-house. Shop-tested for six hours to ensure they operated according to specification, they were delivered to the customer, along with operating and maintenance manuals, in a short 10 weeks after the order was placed.

HIGHLIGHTS

PROJECT DESCRIPTION

We manufactured these Air Tables for use within a printing application.

CAPABILITIES APPLIED / PROCESSES

Mechanical Design

- Design Robust Air Tables
- Created 3-D Models

Manufactured in-house using our CAD/CAM equipment and capabilities.

Installation

Documentation

- Hard Copy and CD-ROM Copy of Machine Manuals
- Warranty
- 1 Year Warranty up to 3,000 Hours Running Time

OVERALL DIMENSIONS

Table Tops: ¾" Thick

Available in a wide range of sizes

OVERALL LEAD TIME

10 weeks

AIR TABLE FEATURES

Fabricated from Structural Steel

Table Tops are Black Nacolite

- Low Friction
- Durable

Adjustable Leveler Feet

Blower

Electrical Specifications

- 200-240/400-480 VAC, 60Hz, 3 Phase
- Air Table Nozzles
- One-Way Spring Checked Ball Valves

Work Height Adjustable ± 2 "

FINISHED PART HANDLING DIAL COMPONENTS

8 Position Electromechanical Rotary Indexer

Hardened Tool Steel Quick Change Nests for LH and RH Parts

Hi-Pot Test Tooling

Continuity Test Tooling

Trim Press

Unload Pick & Place Mechanism

Reject Part Diverter & Reject part Bin

Good Part Discharge Conveyor

ABOUT TCA TECHNOLOGIES

TCA Technologies is a leader in the design and manufacturing of custom industrial automation equipment. Building on 20 years of industry experience, TCA employs the most innovative technological solutions to conceptualize, develop, and execute cutting-edge automated manufacturing systems. A team of experienced engineers have developed manufacturing solutions for a variety of fields such as R&D prototyping, welding, assembly, leak testing, material handling, plastics and composites, vision and accuracy. Catering to some of the world's most successful manufacturers, TCA strives for excellence by developing sophisticated new or improved systems for industries such as automotive, energy, health sciences, electronics, and consumer products.