



Air Systems International, Inc.

821 Juniper Crescent
Chesapeake, Virginia 23320
Telephone (757) 424-3967
Toll Free 800-866-8100
FAX No. (757) 424-5348

Ergonomic Performance Specifications

Large Cylinder Carts

Test Date: 2-6-01

Test Performed by: Shane Intravotola, V.P. Engineering

Test Equipment: Dyna-Link load scale, Model No. MSI-7200, Calibrated 11-20-00

Test - 1

Air Systems, Inc. Model MP-2300ENB, Multi-Pak large 2-cylinder air cart loaded with 2 each 300cf air cylinders each weighing approximately 135lbs., total load 270lbs.

Pull Down Pressure--lbs. of force required to lower cart to "roll position"=50lbs.

Balance Pressure--lbs. of force required to maintain a balance point during cart
Movement=5 lbs.

Lift Pressure--lbs. of force required to upright the cart from balance point=15lbs.

Movement Pressure--lbs. of force required to move/push the cart=20lbs.

Test - 2

Air Systems, Inc. Model EAC-23ENB, Ergo-Air Cart loaded with 2 each 300cf air cylinders with a total weight of 270lbs.

Pull Down Pressure=35lbs.

Balance Pressure= 0 lbs.(load supported by cart frame design)

Lift Pressure=15lbs.

Movement Pressure=10lbs.

Dwayne S. King, V. P. Production

David F. Angelico, President