

Avon Engineering Model MDC mold and die carts are designed to move tooling efficiently for stamping and injection/blow molding applications. The major components are a Straddle Truck and a Tool Deck. Benefits include:

- Allows mold/die changeover in minutes.
- Reduces chance of tool damage.
- Improves productivity and safety.
- Reduces stored part inventory.

Features

The walkie straddle truck is a free-ranging 24VDC battery powered vehicle. It includes an ergonomically designed control handle and a separate pendant control station for safely transferring tools on/off of the cart. Speed control is electronic variable speed.

- “Dead-man” braking when spring loaded control handle is released.
- “Tool-on” limit switch prevents cart movement unless tool is securely on the back of the deck.

Heavy duty industrial batteries are provided and properly sized for the cart capacity and travel cycle. Cart includes a built-in 115v single phase input charger, gauge-type battery discharge indicator, hour meter and key switch.

Tool deck/end payoff with low friction full width gravity rollers, raised sides, lever-operated safety gate. Available options include hydraulically powered high force tool transfer with extended pusher arm, hand wheel operated tool centering guide and side payoff.



Specifications

Structural

- Forged high strength steel forks feature a taper for ease of entry.
- Continuously welded low profile chassis.
- The mast is constructed with interlocked channel and I-beam of premium rolled steel.
- Welded steel tool deck frame with fork pockets. Tool deck is removable.

Drive System

- Direct drive, full oil bath transmission.
- High-torque, class H insulated drive motor with disc brake.
- Wheels- 10” to 10-1/2” dia. drive wheel, 4” dia. load wheels.
- Drive speed (unloaded/loaded) - 2.7/2.2 mph for MDC 1200; 3.5/3.0 mph for MDC 2500/3400.

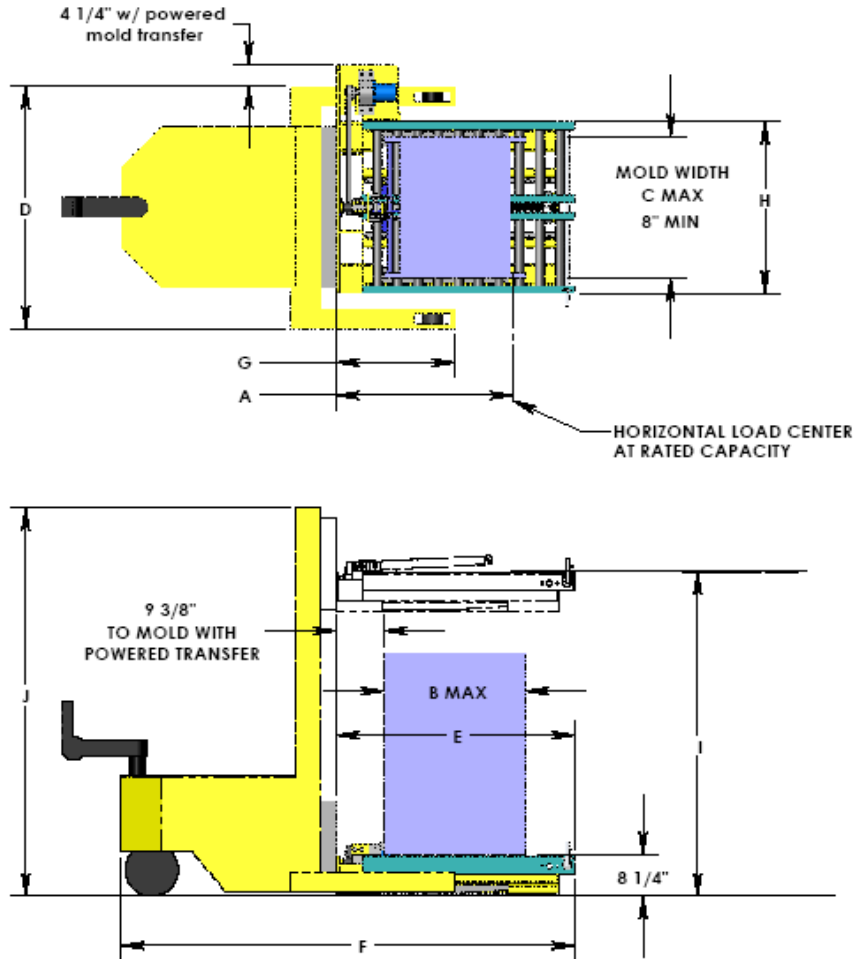
Hydraulic System

- Hydraulic pump motor specially selected for peak electrical efficiency.
- Single acting hydraulic cylinder with chrome plated cylinder rod.
- Built-in relief valve, pressure compensated flow control valve, removable reservoir.

Electrical System

- NEMA 12 enclosure.
- Color coded wires and cabling.
- Premium, industrial grade contactors.
- Full fuse protection of power and control circuits.

MDC MOLD CART DESIGN



Max Mold Dim. – in/mm

Cart Dimensions – in

Model	Max Mold Weight Lbs / kg	HLC* A	B	C	D	E	F	G	H	I	J	Cart Weight Lbs / kg
MDC 1200	1,200 / 545	24 / 610	30 / 762	20 / 508	34	40	71	29	24	64	79	1,800 / 818
MDC 2500/24	2,500 / 1,136	24 / 610	36 / 914	31 / 787	48	47	90	26	34	64	77	2,850 / 1,295
MDC 2500/35	2,500 / 1,136	35 / 889	36 / 914	31 / 787	48	47	90	26	34	64	77	2,950 / 1,340
MDC 3400/24	3,400 / 1,545	24 / 610	36 / 914	31 / 787	48	47	97	28	34	64	77	3,600 / 1,636
MDC 3400/35	3,400 / 1,545	35 / 889	36 / 914	31 / 787	48	47	97	28	34	64	77	3,800 / 1,727

*HLC- Horizontal Load Center is the maximum allowable distance from the fork face to the load center-of-gravity when the tool deck is unsupported during tool transfer.

Consult factory for special requirements, options or dimensions not shown above.