

## Double Sideshifting Carriages

- Allows positioning of two loads at once; 8 to 12" total shift
- Can be installed as either independent or simultaneous sideshift
- Popular, durable Ball-O-Matic® top linear ball bearing & hardened steel heel rollers
- Variety of widths, capacities, and sideshift ranges available

### Hook Type, 1 or 2 Functions<sup>1</sup>

Model Number	Capacity @ 24" (lb)	Fork Bar Class	Overall Width <sup>2</sup> (in)	Single Carriage Width (in)	Shift Each (in)
TDSA110B40	11,000	III	88	40.0	8
TDSA110B48			104	48.0	8
TDSA150C40	15,000	IV	92	40.0	12
TDSA150C48			108	48.0	12

### Pin Type, 1 or 2 Functions<sup>1</sup>

Model Number	Capacity @ 24" (lb)	Overall Width <sup>2</sup> (in)	Single Carriage Width (in)	Shift Each (in)
TDSA080P40	8000	91	41.5	8
TDSA080P48		107	49.5	8
TDSA120P40	12,000	96	42.0	12
TDSA120P48		112	50.0	12

<sup>1</sup> Specify function at time of order (simultaneous or independent sideshift movement).

<sup>2</sup> Overall width is with sideshifters touching in the center of the base carriage. For maximum carriage width add 8" sideshift x 2 or 12" sideshift x 2 as appropriate.

<sup>3</sup> Prices do not include carriage rollers, forks or load backrest.

### ! Important Notes

- Sideshift cylinders are unhosed. Installation will require hosing to cylinders for either simultaneous or independent sideshift. Other hosing options available. Consult factory.
- Horizontal and vertical center of gravity dimensions will be determined and provided at the time of order. These dimensions are dependent on the specific forklift and mast into which the integral unit will be installed.

### Recommended Hydraulic Supply

Model Number	Min	Max	Recommended Max psi
5,500/Class II	3.2	4.1	2,200-3,000
10,000/Class III	2.9	6.4	2,200-3,000
15,500-36,000/Class IV, V & Pin	4	12	2,200-3,000

Hydraulic flow less than minimum will reduce operating speed and cause irregular arm movement. Higher flows may result in heat build up, erratic operation and damage to the unit. Consult factory for recommended flow control valve and available tank line kits.

