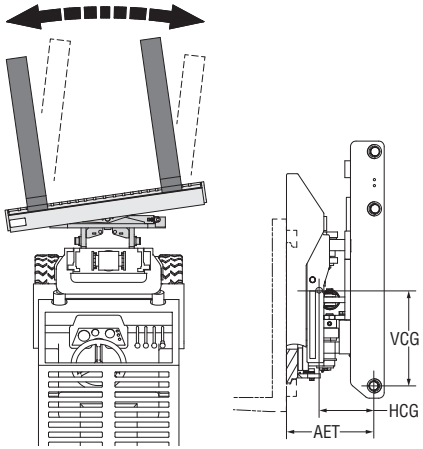
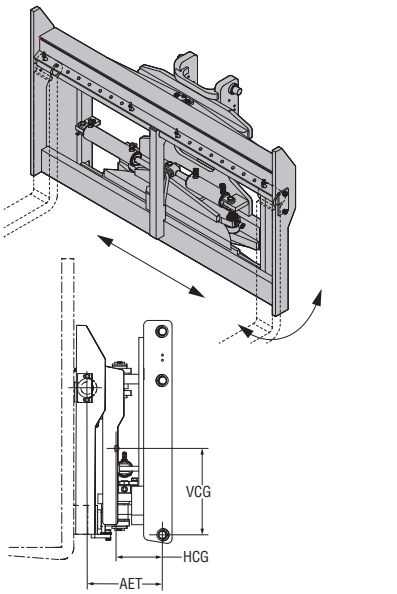
Pivot/Align Integral Carriages

- Swings the forks 12° to the side for placing loads in tight places
- Popular, durable Ball-O-Matic® construction
- Wide range of widths capacities, and swing amounts available
- Also available with fork positioning



Hook Type, Sideshifting, 2 Functions

Model Number	Capacity @ 24" (lb)	Fork Bar Class	Fork Spread ITO (in)	Total Shift (in)	Total Swing (°)
TPSA055A38	5,500	II	0–38	8	12
TPSA055A42			0–42	8	12
TPSA055A46			0–46	8	12
TPSA055A50			0–50	8	12
TPSA100B44	10,000	III	0–44	8	12
TPSA100B50			0–50	8	12
TPSA100B56			0–56	8	12
TPSA100B62			0–62	8	12
TPSA155C48	15,500	IV	0–48	12	12
TPSA155C60			0–60	12	12
TPSA155C72			0–72	12	12
TPSA155C84			0–84	12	12
TPSA177C48	17,700	IV	0–48	12	12
TPSA177C60			0–60	12	12
TPSA177C72			0–72	12	12
TPSA177C84			0–84	12	12
TPSA250F60	25,000	V	0–60	12	12
TPSA250F72			0–72	12	12
TPSA250F84			0–84	12	12
TPSA250F96			0–96	12	12



Pin Type, Sideshifting, 2 Functions

Model Number	Capacity @ 24" (lb)	Overall Width	Fork Spread ITO (in)	Total Shift (in)	Total Swing (°)
TPSA100P60	10,000	62	2–60	10	12
TPSA155P72	15,500	74	2–72	12	12
TPSA180P80	18,000	82	2–80	12	12
TPSA225P80	22,500	82	2–80	12	12
TPSA250P80	25,000	82	2–80	12	12
TPSA300P80	30,000	82	3–80	12	12
TPSA360P80	36,000	82	3–80	12	12

[1] Prices do not include carriage rollers, forks or load backrest.

Important Notes

- Swingshift and sideshift cylinders are unhosed. Installation will require hosing to cylinder ports located near center of unit. Other hosing options available.
- 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.