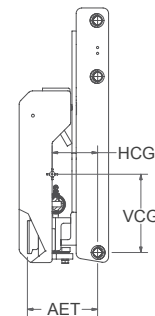
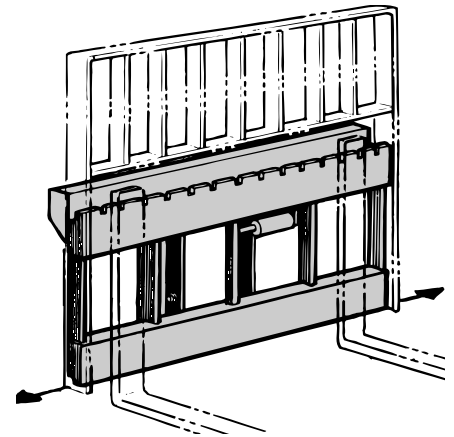


# Sideshifting Integral Carriages

- ▶ Popular, durable top linear ball bearing & hardened steel heel rollers
- ▶ Wide range of widths and capacities available
- ▶ Additional sideshift stroke available
- ▶ Utilizes your truck's forks

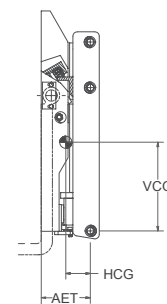
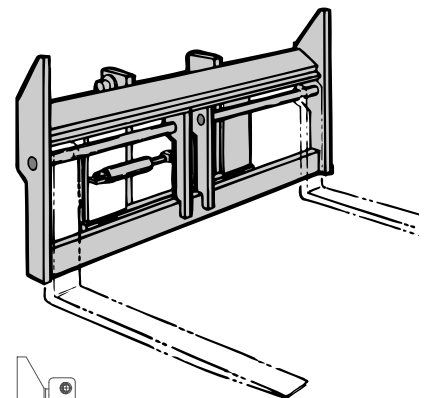
## Hook Type, Sideshifting, 1 Function

Model Number	Capacity @ 24" LC (lb)	Fork Bar Class	Fork Spread <sup>1</sup> (in)	Additional Lost Load <sup>2</sup> (in)	Total Shift (in)	List Price <sup>3</sup>
TNSA055A38	5,500	II	0-38	3.4	8	Consult Factory
TNSA055A42			0-42			
TNSA055A46			0-46			
TNSA055A50			0-50			
TNSA100B44	10,000	III	0-44	3.4	8	Consult Factory
TNSA100B50			0-50			
TNSA100B56			0-56			
TNSA100B62			0-62			
TNSA155C48	15,500	IV	0-48	5.0	12	Consult Factory
TNSA155C60			0-60			
TNSA155C72			0-72			
TNSA155C84			0-84			
TNSA177C48	17,700	IV	0-48	Consult Factory	12	Consult Factory
TNSA177C60			0-60			
TNSA177C72			0-72			
TNSA177C84			0-84			
TNSA250D60	25,000	V	0-60	Consult Factory	12	Consult Factory
TNSA250D72			0-72			
TNSA250D84			0-84			
TNSA250D96			0-96			



## Pin Type, Sideshifting, 1 Function

Model Number	Capacity @ 24" LC (lb)	Fork Spread <sup>1</sup> (in)	Total Shift (in)	List Price
TNSA100P60	10,000	2-60	10	Consult Factory
TNSA155P72	15,500	2-72	12	
TNSA180P80	18,000	2-80	12	
TNSA225P80	22,500	2-80	12	
TNSA250P80	25,000	2-80	12	
TNSA300P80	30,000	3-80	12	
TNSA360P80	36,000	3-80	12	



<sup>1</sup> Fork spread is from inside of fully closed forks to outside of fully opened forks. Inside may change based on lift truck.

<sup>2</sup> Additional Lost Load dimension is an estimate of the thickness of the integral unit added to the thickness of a standard truck carriage.

<sup>3</sup> Prices do not include carriage rollers and attaching pieces.



### Important Notes

- 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.
- Sideshift cylinder is unhosed. Installation requires hosing to cylinder ports located near center of carriage. Other hosing options are available.



### Recommended Hydraulic Supply

Model Number	Recommended Flow (gpm)	Recommended psi
All Models	8-10	2,000-2,500

Hydraulic flow less than minimum may reduce operating speed. Higher flow may result in heat build-up, erratic operation and shortened hydraulic system life.