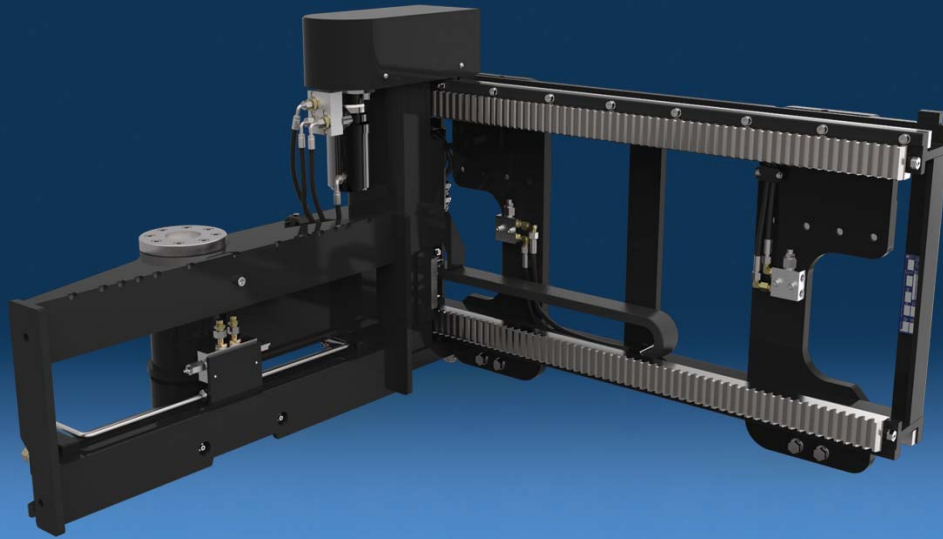


Precise Pallet Handling in Narrow Aisle Racking Systems



Full length traversing function left and right - swing functioning 90° left and right for versatility



Motor with brake maintains the position of the load during the movement of the truck for secure handling



Adjustable racks, pinion and wear plate are heat treated for longer life



Rotation rack cylinder with end dampener reduces the impact at the end of swing stop



Eccentric roller pins adjust tolerance between rack & pinion to maintain smoothness

APPLICATIONS

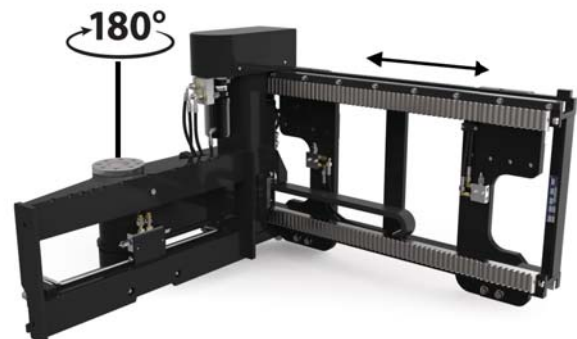
The Cascade Trilateral Head attachment is the perfect solution for handling pallets in applications with narrow aisle racking systems. The Trilateral Head attachment is designed for trucks being used in narrow aisle warehouses, featuring a traversing fork system allowing you to retrieve pallets from shelving while your truck remains at a 90° angle to the load.

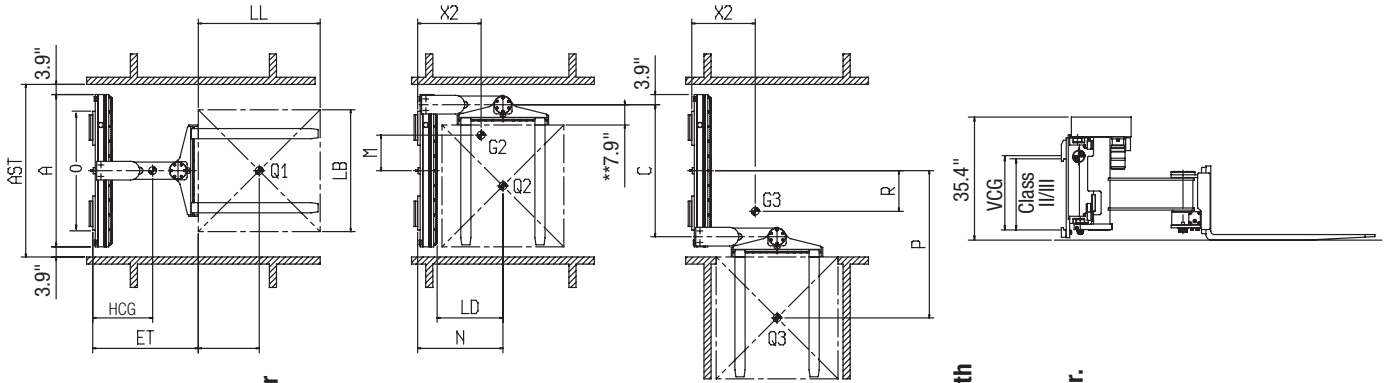
FEATURES

- Swing function allows for handling loads from either center, left or right hand of the truck.
- Traversing Head allows forks to enter and pickup/deposit from either center, left or right hand side of the truck.
- Uses Class 2 ITA fork mounting (hook-on forks as option).
- Motor brake maintains the position of the load during truck movement.
- Eccentric pins allow for adjusting tolerance between rack & pinion for smooth operation.
- Rack and pinions heat treated to ensure longer life and reliability.
- Rack cylinder with end dampener to reduce impact at the end of swing stop.
- Optimized design to allow easy and fast maintenance.

OPTIONS

- 0°/ +3° tilting fork carriage.
- Fork positioner on fork carriage.
- Custom designs for stacker crane.
- Load backrest upon request.
- Available with special optimized mast upon request.





Catalog Order No.	Q1-Capacity @Load Center	Pallet dimensions	Frame width	G2/Q2	G3/Q3	Stroke	Min. Truck Carriage Width	Effective thickness	Horizontal Ctr. of gravity	Vertical Ctr. of gravity	Mounting Class ①	Weight
	lbs@in	LL/LB	A/AST	M/N/X2	P/R	C	O	ET	HCG	VCG		lbs kg
8A-AST-2A-1010	1750@20"	40"/40"	51"/59"	11.4" / 29.1" / 13.2"	49.2" / 14.2"	43.3"	43.3"	37.0"	13.6"	13.4"	II	1,190 540
8A-AST-2A-1210	1750@24"	48"/40"	59"/67"	13.4" / 29.1" / 13.0"	57.1" / 15.8"	51.2"	43.3"	37.0"	13.4"	13.4"	II	1,235 560
8A-AST-2A-1012	1750@20"	40"/48"	51"/59"	11.6" / 33.1" / 14.0"	49.2" / 14.4"	43.3"	43.3"	40.9"	14.8"	13.4"	II	1,208 548
8A-AST-2A-1212	1750@24"	48"/48"	59"/67"	13.6" / 33.1" / 13.8"	57.1" / 15.9"	51.2"	43.3"	40.9"	14.6"	13.4"	II	1,252 568
12A-AST-2A-1010	2650@20"	40"/40"	51"/59"	11.4" / 29.1" / 13.2"	49.2" / 14.2"	43.3"	43.3"	37.0"	13.4"	13.4"	II	1,230 558
12A-AST-2A-1210	2650@24"	48"/40"	59"/67"	13.4" / 29.1" / 13.0"	57.1" / 15.8"	51.2"	43.3"	37.0"	13.2"	13.4"	II	1,274 578
12A-AST-2A-1012	2650@20"	40"/48"	51"/59"	11.6" / 33.1" / 14.0"	49.2" / 14.4"	43.3"	43.3"	40.9"	14.6"	13.4"	II	1,248 566
12A-AST-2A-1212	2650@24"	48"/48"	59"/67"	13.6" / 33.1" / 13.8"	57.1" / 15.9"	51.2"	43.3"	40.9"	14.4"	13.4"	II	1,292 586
12A-AST-3A-1010	2650@20"	40"/40"	51"/59"	11.4" / 29.1" / 13.2"	49.2" / 14.2"	43.3"	43.3"	37.0"	13.4"	13.4"	III	1,230 558
12A-AST-3A-1210	2650@24"	48"/40"	59"/67"	13.4" / 29.1" / 13.0"	57.1" / 15.8"	51.2"	43.3"	37.0"	13.2"	13.4"	III	1,274 578
12A-AST-3A-1012	2650@20"	40"/48"	51"/59"	11.6" / 33.1" / 14.0"	49.2" / 14.4"	43.3"	43.3"	40.9"	14.6"	13.4"	III	1,248 566
12A-AST-3A-1212	2650@24"	48"/48"	59"/67"	13.6" / 33.1" / 13.8"	57.1" / 15.9"	51.2"	43.3"	40.9"	14.4"	13.4"	III	1,292 586
16A-AST-3A-1010	3500@20"	40"/40"	51"/59"	12.0" / 29.3" / 13.6"	49.2" / 14.2"	43.3"	43.3"	37.2"	16.3"	13.4"	III	1,400 635
16A-AST-3A-1210	3500@24"	48"/40"	59"/67"	14.2" / 29.3" / 13.4"	57.1" / 15.8"	51.2"	43.3"	37.2"	16.1"	13.4"	III	1,444 655
16A-AST-3A-1012	3500@20"	40"/48"	51"/59"	12.2" / 33.3" / 14.4"	49.2" / 14.6"	43.3"	43.3"	41.1"	17.1"	13.4"	III	1,422 645
16A-AST-3A-1212	3500@24"	48"/48"	59"/67"	15.0" / 33.3" / 14.2"	57.1" / 16.1"	51.2"	43.3"	41.1"	16.9"	13.4"	III	1,466 665

- ▶ Consult truck OEM to assure proper mast and tire setup to get a rated data plate created.
- ① Integral mounting available.
- ▶ Forks are not included.
- ▶ When ordering, specify truck mounting.
- ▶ Supplied with double acting relief valves for both functions.
- ▶ Front Class 2 carriage.
- ▶ Minimum hydraulic flow 3.2 gpm.
- ▶ Available with special optimized mast upon request.
- ▶ ET includes fork thickness of 1.6"

Warehousing Equipment as Stacker Crane

**Warehousing Equipment
Stacker Crane - LGV market**

AGV/LGV applications

