

Automatic Guided Vehicles & AMRs

Load Rating (ea.): 600 – 15,000 lbs.

AGV/AMRs can dramatically lower operating costs – so long as the casters can keep up under continuous, heavy use. That’s why we created HPI™ (Hamilton Precision Integrated) swivel technology. With more than double the number of contact points, HPI outperforms conventional CNC-machined ball raceways, kingpinless and unit load-bearing swivel constructions. Plus, it features 45% harder raceways and an ultra-smooth 16 micro-inch surface.

Industries & Applications:

- AGV | AMR manufacturers
- Automation
- Warehouse & distribution
- Picking systems
- Line stock delivery



Endurance | UltraGlide®

Load Rating (ea.): up to 900 lbs.

- CNC machined forgings
- Small, compact design
- Wheel Diameters: 3-1/4" - 5"



Endurance | DuraGlide®

Load Rating (ea.): up to 1000 lbs.

- CNC machined forgings
- Small, compact design
- Wheel Diameters: 3-1/4" - 5"



Endurance Dual Wheel

Load Rating (ea.): up to 1000 lbs.

- Higher loads achieved w/ smaller wheels
- Provide more stability, load distribution
- Wheel Diameters: 3-1/4" - 5"



Enhanced Heavy Service

Load Rating (ea.): up to 2400 lbs.

- HPI Swivel Technology
- Higher speed, power- towed apps
- Continuous duty applications



Extra Heavy Duty

Load Rating (ea.): up to 5000 lbs.

- CNC machined raceways
- Twelve wheel types offered
- Wheel Diameters: 6" - 12"



Extra Heavy Duty Dual

Load Rating (ea.): up to 7000 lbs.

- Lower height, more capacity
- Built on EHD platform
- Wheel Diameters: 6" - 12"

A Tread for 24/7 Applications

All Hamilton AGV & AMR polyurethane treads feature a 95(A) dynamic responsive polyurethane specially formulated to run much cooler than other industrial polyurethanes and therefore endures less stress fatigue for longer life. The extra thick tread is also impervious to moisture and Hamilton's best performer in moist or outdoor applications.

- More energy lost to roll the tire
- Higher internal temperature



Common heavy load compound

- Less energy lost to roll the tire
- Lower internal temperature



UltraGlide™ & DuraGlide® poly compound



UltraGlide® AGV/AMR | 2" Wide

Load Rating (ea.): up to 2400 lbs.

- Diameter range: 3-1/2 - 8"
- Twin-wheel minimizes scrubbing while turning
- Integrated precision ball bearings



DuraGlide® AGV/AMR | 2" Wide

Load Rating (ea.): up to 1750 lbs.

- Diameter range: 3-1/2 - 8"
- Economic alternative to UltraGlide
- Press-fit bushings to eliminate play & reduce noise



UltraGlide® AGV/AMR | 3" - 5" Wide

Load Rating (ea.): up to 6500 lbs.

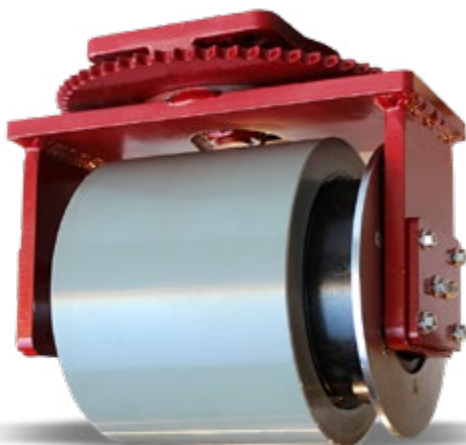
- Multi-wheel design for higher capacity
- Heavy Duty Die-Cast Aluminum Cores
- Easy turning under heavy loads



DuraGlide® AGV/AMR | 3" - 5" Wide

Load Rating (ea.): up to 7700 lbs.

- 1" & 2" thick treads for high loads
- Heavy duty cast iron & forged steel cores
- Press-fit bushings to eliminate play & reduce noise



When boilerplate won't do, Hamilton designs and builds custom casters and wheels to conquer the heaviest, grittiest, and most complex jobs.



Scan to learn how Hamilton's casters and wheels lift AGV manufacturers.

