Kingpinless Casters with Dual Sealed Precision Bearing Wheels are rapidly replacing all other type of casters in Industrial Medium and Heavy Duty Manual or Towing applications.

The swivel section in figure #1 is of the Offset Precision Full Contact Ball Race Design and surface-hardened to reduce premature wear and brinelling.

In direct static loading, as a load is placed on the caster, the forces are initially transmitted to the rearward balls. Due to the fact that the balls ride on an incline, they tend to climb up the incline. This pulls the yoke to the rear of the caster. As this occurs, part of the load is transmitted around the bearing to the front of the caster. This gives distribution of the load over the entire swivel bearing instead of just the rear balls.

When thrust forces occur, as when the caster is swiveled or it hits an obstruction, these forces will push the yoke backwards in an attempt to rotate the yoke. The yoke is pulled down on the front part of the bearing and pushed up in the back. In this way, the thrust is distributed over the entire bearing.

KINGPINLESS™ DESIGN BENEFITS

1. Reduction in caster failures
2. Greater caster service life
3. Easier swivel motion
4. Eliminates kingpin tightening and maintenance
5. Reduced caster shimmy and shake
6. Optional top plates, OAH, Hub Lengths and Swivel Radius in both USA and EURO standards.

KINGPINLESS RACEWAY DESIGN
Diameters and Ball Bearings Sizes

- **CATEGORY 04**
  - 4-71™ SERIES
  - Load Capacity to: 1,800 lb
  - Raceway: 2-3/8” diameter with 3/8” ball bearings

- **CATEGORY 05**
  - 5-72™ SERIES
  - Load Capacity to: 4,000 lb
  - Raceway: 2-3/4” diameter with 1/2” ball bearings

- **CATEGORY 06**
  - 6-81™ SERIES
  - Load Capacity to: 6,000 lb
  - Raceway: 3” diameter with 1/2” ball bearings

- **CATEGORY 07**
  - 7-90™ SERIES
  - Load Capacity to: 6,000 lb
  - Raceway: 4-1/4” diameter with 5/8” ball bearings

- **CATEGORY 08**
  - 8-94™ SERIES
  - Load Capacity to: 10,000 lb
  - Raceway: 4-1/2” diameter with 5/8” ball bearings

- **CATEGORY 09**
  - 9-95™ SERIES
  - Load Capacity to: 20,000 lb
  - Raceway: 4-1/2” diameter with 3/4” ball bearings

- **CATEGORY 10**
  - 10-98™ SERIES
  - Load Capacity to: 40,000 lb
  - Raceway: 7” diameter with 3/4” ball bearings
Heavy Duty Kingpinless Casters are the Best Value Choice
for performance ergonomics, safety and less cost in use for AGV Stabilizing Casters, Gantry Crane Casters, Dual Wheel Casters, Swivel-Eaz™ Casters, Nylacron™ Casters or Pneumatic Casters.

**Swivel-EAZ™**
(Dual-in-One)
80A Durometer

**Vulkollan™ Tread**
Dual Wheel AGV Precision

**Nylacron™**
NY/MD, NY/HC, NY/HSB, NY/GF

**DUAL SEALED PRECISION BEARING WHEELS FOR ALL KINGPINLESS CASTERS**
All precision bearing wheels are equipped with end caps to fit hub length and axle sizes.

- **Nylacron™ (NY/MD)**
- **Vulkollan™ (VU)**
- **Urethane 93A UR/CA**
- **Urethane Soft 80A URS/CA**
- **SWIVEL-EAZ™ (SWE)**
- **Elastic Rubber (SF)**