

# Bus and Coach Single Reduction Solo Drive Axle MC-13-17X



The Meritor® complete transit bus and coach portfolio encloses a wide range of bus and coach drive axles, braking systems, drivelines and ride control products including independent wishbonetype suspension systems. ArvinMeritor also offers electric drive axles for mid- and full-size buses as part of collaborative partnerships. Meritor components provide proven reliability in meeting the extremes of transit operating conditions – from stop-and-go city bus applications to high-speed, long-distance coach operations. All Meritor bus and coach components are backed by the

industry's finest sales, service and support network, including complete aftermarket service with a full inventory of genuine OEM-quality parts.

Since 1909 ArvinMeritor has been leading the axle market with reliable, long-life axles and advanced gearing technology. The company's nearly 100 years of axle-producing experience has led the group to become the world's largest independent manufacturer of heavy-duty truck axles for a vast range of vehicle applications. European production sites are located in Cameri, Italy, St. Priest, France and Lindesberg, Sweden.

## MC-13-17X Technical Data

Load Ratings <sup>1</sup>	
Gross Axle Weight (GAW)	11.5 - 13.0 tonnes
Gross Vehicle Weight (GVW)	18.0 - 19.0 tonnes
Gross Combined Weight (GCW)	44.0 tonnes

Dimensional Data	
Ring Gear Pitch Diameter	461 mm
Pinion Stand Out <sup>2</sup>	381 mm
Pinion Offset <sup>3</sup>	78 mm
Housing <sup>4</sup> Spring Seat Section	134 x 117 mm
Housing <sup>4</sup> Thickness at Spring Seat	13 mm
Spindle Unitized Bearing Bore Dia.	90 mm
Axle Shaft Body Diameter	55.5 mm

Weight Data	
Carrier Ferrous Min <sup>5</sup> .	165 kg
Carrier Ferrous Max <sup>5</sup> .	170 kg
Carrier Drive Flange	3,5 kg
Housing <sup>6</sup> with Brake Flange	116 kg
Hubs <sup>7</sup> (Two Ferrous)	80 kg
Axle Shafts (Two)	50 kg

### MC-13-17X Single Reduction Solo Drive Axle

The Meritor® single reduction hypoid axle is designed for on-highway applications and represents ArvinMeritor's latest product generation for European bus and coach applications. The MC-13-17X has been developed with quiet ride bevel set to improve noise performance and offers higher efficiency, improved structural rigidity, all at a reduced weight.

The MC-13-17X Axle has the following technical features:

- GAWR: 13 tons
- GCW Rating: 44 tons
- Ratios from 2.64 to 6.17
- Available with cast or stamped housing
- Driver controlled differential lock option

Quiet Ride Ratios
2.64 - 2.85
3.08 - 3.36 - 3.70
4.11 - 4.63
5.29 - 5.63
6.17

- 1 - Capacity ratings vary with application and service. Application must be approved by ArvinMeritor Heavy Vehicle Systems
- 2 - Pinion stand out is to face of pinion nut
- 3 - Without housing offset
- 4 - Stamped steel housing configuration
- 5 - Carrier weights are minimum weights for fast ratios and maximum for slow ratios
- 6 - Housings includes carrier to housing fasteners, bearing lock nuts and washers, excludes spring seats or suspension brackets
- 7 - Hubs includes bearings, seals, seal races, axle shafts to hub fasteners and wheel fixing studs and nuts for steel wheels

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