

NDS 41/56/80 Non-Driven Steer Axles

A Full Range of Durable, Lightweight Axles for On-Highway, City Delivery, and Bus Applications



SPICER®

Drivetrain Products



Spicer® Non-Driven Steer (NDS) axles come standard with industry-proven features exclusive to Dana. Both standard and deep drop power rib forged steel beams minimize axle weight and improve alignment.



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Features	Benefits
Forged NDS steel beams and steering knuckles	Minimize the weight of the axle
Large diameter king pins	Longer life and longer time between maintenance periods
Compressible king pin inserts	Improve grease retention
Sealed thrust bearings	Increase time intervals between maintenance periods
Sealed-for-life tie rod ends	Maintenance free
Dual-drawkey and spring washer kingpin tensioning system	Improved axle durability and vehicle alignment capability; reduced maintenance
Lightweight power rib beams designed for optimum deflections	Improved alignment capability
Reduced steering radius	Increased maneuverability in confined areas
Offset spindle knuckle design	Reduces bushing loads

Optional Features:

- Low-floor and extra-low floor options available
- Hydraulic, air disc, or S-cam air brakes available for a variety of applications
- Both right-hand and left-hand top levers for steering drag link connection are available
- Extra narrow beams available for maximum maneuverability
- Available with either conventional wheel hubs or "unitized" hubs featuring pre-adjusted cartridge type hub bearings
- Available with optional ABS wheel-speed sensing hardware

Axle Type	Axle Model	Load Capacity (Tonnes)	Beam Drop (mm)	Camber Angle (°)	King Pin Angle (°)	Back Lock Angle (°)	Brake Type	Wheel Fixing	Minimum Rim Size (Inch)	Approximate Total weight (kg)
NDS	NDS41	4.8	104	0° 75'	7° 15'	56	Air/Disc or S-Cam Air/Drum	6 x M18 on 275 PCD or 10 x M22 on 285,75 PCD	17.5	282
NDS	NDS56	6.0	82	0° 75'	7° 15'	53	Air/Disc or S-Cam Air/Drum	8 x M20 on 275 PCD or 10 x M22 on 285,75 PCD	19.5	346
NDS	NDS56LF	5.0	165	0° 75'	7° 15'	53	Air/Disc or S-Cam Air/Drum	8 x M20 on 275 PCD or 10 x M22 on 285,75 PCD	19.5	348
NDS	NDS56XLF	5.0	180	0° 75'	7° 15'	53	Air/Disc or S-Cam Air/Drum	8 x M20 on 275 PCD or 10 x M22 on 335 PCD	19.5	350
NDS	NDS80	8.0	85	0° 75'	7° 15'	55	Air/Disc or S-Cam Air/Drum	10 x M22 on 335 PCD or 10 x 7/8 or 1 1/8 on 285,75 PCD	22.5	480
NDS	NDS80LF	8.0	80/212	0° 75'	7° 15'	55	Air/Disc or S-Cam Air/Drum	10 x M22 on 335 PCD or 10 x 7/8 or 1 1/8 on 285,75 PCD	22.5	480

Nomenclature: NDS Axles

NDS	LF	XLF
Non-Driven Steer Rigid	Low-Floor Bus	Extra-Low Floor Bus

Dana CVP Europe-Axle
 Poligono Industrial Landaben
 Calle E, S/N
 31012 Pamplona – Spain
 T: +34 948 289 100
 F: +34 948 188 164

www.dana.com/commercial_vehicle_systems



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All applications must be approved by the Dana Application Engineering Department. Specifications and/or design are subject to change without notice or obligation.