



DETROIT™ DRIVE AXLES

TECHNICAL SPECIFICATIONS

WEIGHT RATINGS **13,000-23,000 lb.**

BACKED BY MANY YEARS OF MANUFACTURING EXPERTISE, THESE INNOVATIVE DETROIT™ AXLES PROVIDE MARKET-LEADING PERFORMANCE AND VALUE. HERE ARE SOME OF THE BENEFITS:

Driving Innovation for Your Driving Performance

- Precision-cut gear sets allow higher torque applications and quieter operation
- Elimination of the pinion head bearing allows for larger differential, for added stability and durability

- Significant weight advantage
- Increased ground clearance (Model 2)
- Easy maintenance and less oil capacity reduce lifecycle costs
- Compatible with all brakes offered by Freightliner Trucks and Western Star Trucks
- Warranty is based on truck application, up to 2 years, unlimited miles



DETROIT™ SINGLE REAR AXLES ARE MORE THAN DURABLE.

THEY'RE PRECISE. We precision-machine the gears for more efficient operation. Our rear axle design features fewer parts allowing us to increase the size of our differential. What this means to you is greater stability on the road and improved durability. Are you looking for weight savings without sacrificing payload? With our single rear axles you can choose a lighter axle model depending on your torque application. This allows for larger payloads and improved fuel efficiency.

Optional Equipment

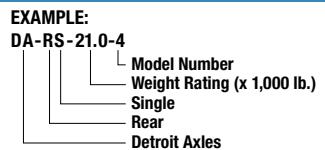
- More grip when you need it: Our single rear axle can be spec'd with a driver-controlled differential lock (DCDL)
- An alternative to the DCDL is an automatic locking differential (NoSpin)
- A driveline-mounted parking brake can be spec'd for applications using hydraulic brakes

Detroit Drive Axle Specifications



Precision-cut provides quiet operation and higher performance.

UNDERSTANDING A MODEL CODE



	DATA CODE	MODEL CODE	GAWR ¹ (LB / KG)	MAX GCWR ² (LB / KG)	HOUSING WALL THICKNESS (MM / IN)	RING GEAR SIZE (IN / MM)	OIL CAPACITY (QT / LITERS)	MAXIMUM TORQUE ³ (LB-FT / NM)	AVAILABLE RATIOS
MODEL 2	420-1C3	DA-RS-13.0-2	13,000 / 5,896	42,000 / 19,051 (Pick-up & Delivery) 36,000 / 16,329 (all other vocations)	9.5 / 0.37	12.8 / 325	7.4 / 7.0	660 / 895	2.923 3.154 3.636 3.909 4.100 4.300 4.556
	420-1GF	DA-RS-13.5-2	13,500 / 6,123						
	420-1CY	DA-RS-15.0-2	15,000 / 6,803						
	420-1C4 420-1C6	DA-RS-17.5-2	17,500 / 7,937						
	420-1GJ 420-1F9	DA-RS-19.0-2	19,000 / 8,617						
	420-1JB 420-1GA	DA-RS-20.0-2	20,000 / 9,072						
	420-1GX	DA-RS-21.0-2 ⁴	21,000 / 9,525						
MODEL 4	420-1GH	DA-RS-17.5-4	17,500 / 7,937	80,000 / 36,287 (line-haul) 55,000 / 24,948 (vocational)	9.5 / 0.37	15.35 / 390	12.7 / 12.0	1,100 / 1,491	2.846 3.077 3.308 3.583 3.909 4.100 ⁶ 4.300 4.556 ⁶ 4.778 5.222 5.875 6.143 ^{4,5} 6.857 ^{4,5,6}
	420-1C7	DA-RS-19.0-4	19,000 / 8,617		11.0 / 0.43				
	420-1G7	DA-RS-20.0-4	20,000 / 9,072		12.7 / 0.5				
	420-1C8	DA-RS-21.0-4	21,000 / 9,525		11.0 / 0.43 12.7 / 0.5				
	420-1GK	DA-RS-23.0-4	23,000 / 10,431		12.7 / 0.5				

1- Gross Axle Weight Rating

3- Max engine torque – dependent on application and selected ratio – may require application approval

2- Gross Combination Weight Rating – dependent on application

4- Requires application approval and selected ratio – may require application approval

5- 860 lb-ft (1166Nm) norm / 800 lb-ft (1084 Nm) vocational maximum torque

6- Release pending

Note: Consult your local dealer representative for complete listing of available rear axle configurations.

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