

SPICER®



Spicer® Light Vehicle Ring and Pinion Gearing



Spicer® Gearing Trusted for the Dana 44™ and Dana 60™ Axle.

Dana 44™ and Dana 60™ axles provide the strength needed for a wide variety of automotive applications. Even in the most demanding circumstances, Spicer ring and pinion gearing provides quality and unparalleled performance to genuine Dana axles. Visit DanaAftermarket.com to learn how you can get Dana 44™ and Dana 60™ crate axles directly through our approved network of Dana Crate Axle® Specialists—and trust Spicer gearing when repairing or rebuilding your current axles.

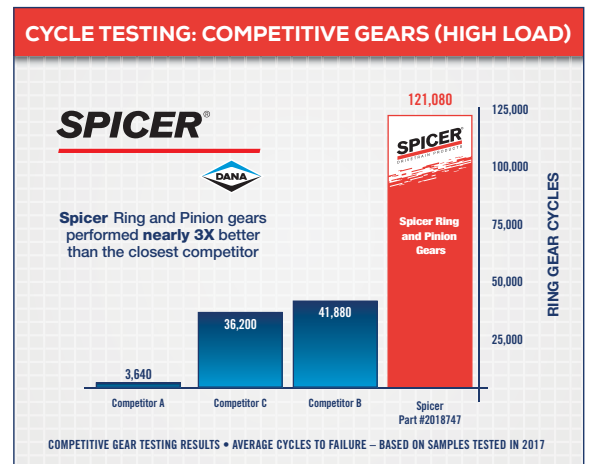
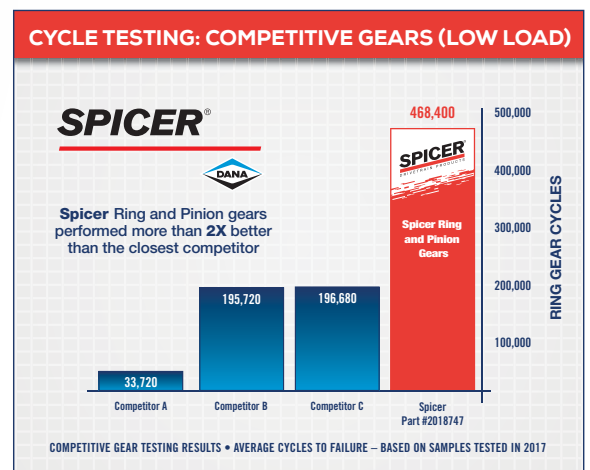





**Made in
USA**

Get the Most out of Your Spicer® Gearing.

What makes Spicer gearing the right choice for your vehicle? We employ a battery of statistically controlled processes throughout the manufacturing of Spicer parts, from heat treatment that delivers optimal hardness, to face hobbing for ideal accuracy of gear tooth spacing, to shot peening that helps ensure maximum strength and life. Only Spicer gearing is engineered to meet the specific original equipment standards of Dana, so you get a perfect fit with less noise, vibration and harshness. With Spicer gearing, you get a longer life from your ring and pinion—up to double the life you would get from non-genuine parts! Bearing/Overhaul and other kits are also available. Visit SpicerParts.com for more information.



The Proof is in the Testing

Like all Spicer® products, we put our ring and pinion gears to the test to see how they measure up against the competition. The result? When it comes to performance and durability, Spicer has no competition!

The Test: During fatigue tests, each gear is installed in a production axle attached to a dyno. The axle runs on the dyno until the gear fractures. The high-load test simulates a loaded vehicle going uphill or carrying extra capacity such as a trailer. The-low load test simulates everyday driving at an accelerated rate.

The Result: Under high-load conditions, Spicer ring and pinion gears lasted an average of 121,080 cycles—nearly three times as many cycles as the closest competitor. And under low-load conditions, Spicer ring and pinion gears performed more than twice as many cycles as the competition!



Engineered for Longer Life and a Smoother Ride in Your Dana 60™ and Dana 44™ Axle.

Dana uses statistically controlled processes to deliver the same durability and performance you get from original equipment parts—a claim that non-genuine parts cannot make. In manufacturing Spicer 3-axis gearing, these processes ensure precise mating of the gear teeth and can double the life of the part. Less noise. Longer life. Why settle for anything less than Spicer in your Dana 60™ or Dana 44™ axle?

Strong. Durable. Quiet. Easy to Set Up.

Dana design, engineering, testing, and manufacturing processes all work in conjunction with one another to ensure unparalleled performance that non-genuine parts simply cannot deliver. Spicer gearing offers the easiest possible set-up, a quieter ride and strength that cannot be beaten. Spicer 3-axis gears are manufactured using a 2-cut continuous process, in which the workpiece/gear and the tooling are continuously turning. The ring gear is fully machined on one machine, the pinion on another. Spicer 2-axis gearing uses a 5-cut milling process in which the ring gear is set up in two machines and the pinion is set up and machined in three different machines, which allows for inconsistent tooth spacing. Spicer 3-axis gearing, however, produces lower indexing errors and provides the flexibility needed to create the desired gear tooth geometry. Check out the other processes we employ below, all of which help provide Spicer quality.



Heat Treatment

- Ensures optimal hardness in Spicer's top-quality steel
- Creates dispersion throughout the part
- Holds back-face runout to very tight tolerances



Face Hobbing

- Cuts gearing to precision spacing between gear teeth
- Ensures continuous indexing so teeth are constantly mated
- Significantly reduces noise, vibration and harshness
- Delivers the smoothest possible ride



Shot Peening

- Adds compressive residual stresses (work hardening) into the root of the gear tooth by shooting controlled micro-beads of steel at the root of the tooth
- Doubles the fatigue life of the gear
- Improves gear set durability



Lapping

- Removes tool cutter marks from tooth contact area
- Reduces noise and heat
- Produces a better contact pattern

Applications



Off Road / Rock Crawlers



Street Rods / Circle Track



Truck Towing and Trailers



Specialty Vehicles



Ring and Pinion for



					Pinion						Ring Gear					
Spicer Part #	Non-genuine Part #	Ratio	Rotation	Ring Gear Pitch Dia. (mm)	Stem Length	Inner Brg. Diameter	Outer Brg. Diameter	Mounting Depth	Spline	Thread Size	Bolt Circle	Bolt Thread	Mounting Depth	Pilot	O.D.	Case Break
80739	N/A	3.07	Std.	226	7.045	1.6262	1.3127	4.312	1.255-29T	7/8"-14	6.625	7/16"-20RH(10)	2.500	5.5625	8.786	None
2005114	N/A	3.21	Std.	226	7.045	1.6262	1.3127	4.312	1.250-24T	7/8"-14	6.625	7/16"-20RH(10)	2.500	5.5625	8.900	None
2007774	N/A	3.21	Std.	226	7.045	1.6262	1.3127	4.312	1.250-24T	7/8"-14	6.625	1/2"-20RH(10)	2.500	5.5625	8.900	None
84212	N/A	3.73	Std.	226	7.045	1.6262	1.3127	4.312	1.255-29T	7/8"-14	6.625	7/16"-20RH(10)	2.500	5.5625	8.900	None
2003488	N/A	3.73	Std.	226	7.045	1.6262	1.3127	4.312	1.250-24T	7/8"-14	6.625	M12x1.25(10)	2.500	5.5625	8.900	None
76542X	N/A	3.73	Std.	226	7.045	1.6262	1.3127	4.312	1.255-29T	7/8"-14	6.625	3/8"-24RH(10)	2.500	5.5625	8.900	None
2008688	N/A	3.73	Std.	226	7.045	1.6262	1.3127	4.312	1.250-24T	7/8"-14	6.625	1/2"-20RH(10)	2.500	5.5629	9.003	None
84213	D44HD-390	3.91	Std.	226	7.045	1.6262	1.3127	4.312	1.255-29T	7/8"-14	6.625	7/16"-20RH(10)	2.500	5.5625	8.900	None
2005116	N/A	4.10	Std.	226	7.045	1.6262	1.3127	4.312	1.250-24T	7/8"-14	6.625	7/16"-20RH(10)	2.500	5.5625	8.814	None
2007772	CHYD44JK-411	4.10	Std.	226	7.045	1.6262	1.3127	4.312	1.250-24T	7/8"-14	6.625	1/2"-20RH(10)	2.500	5.5625	8.834	None
76581X	N/A	4.10	Std.	226	7.045	1.6262	1.3127	4.312	1.255-29T	7/8"-14	6.625	3/8"-24RH(10)	2.500	5.5625	8.835	None
76582X	N/A	4.30	Std.	226	7.045	1.6262	1.3127	4.312	1.255-29T	7/8"-14	6.625	3/8"-24RH(10)	2.500	5.5625	8.811	None
2018737	D44-456JK	4.56	Std.	226	7.045	1.6262	1.3127	4.312	1.250-24T	7/8"-14	6.625	1/2"-20RH(10)	2.500	5.5629	8.760	None
2018747	D44-488JK	4.88	Std.	226	7.045	1.6262	1.3127	4.312	1.250-24T	7/8"-14	6.625	1/2"-20RH(10)	2.500	5.5629	8.760	None
2018756	D44-513JK	5.13	Std.	226	7.045	1.6262	1.3127	4.312	1.250-24T	7/8"-14	6.625	1/2"-20RH(10)	2.500	5.5629	8.760	None



Ring and Pinion for



					Pinion						Ring Gear					
Spicer Part #	Non-genuine Part #	Ratio	Rotation	Ring Gear Pitch Dia. (mm)	Stem Length	Inner Brg. Diameter	Outer Brg. Diameter	Mounting Depth	Spline	Thread Size	Bolt Circle	Bolt Thread	Mounting Depth	Pilot	O.D.	Case Break
24813X	D60-354	3.54	Std.	248	7.656	1.6262	1.2502	5.000	1.248-29T	7/8"-14	7.500	1/2"-20RH(12)	2.531	6.375	9.792	4.10 down
76089X	D60-373	3.73	Std.	248	7.656	1.6262	1.2502	5.000	1.248-29T	7/8"-14	7.500	1/2"-20RH(12)	2.531	6.375	9.820	4.10 down
76047X	D60-410	4.10	Std.	248	7.656	1.6262	1.2502	5.000	1.248-29T	7/8"-14	7.500	1/2"-20RH(12)	2.531	6.375	9.833	4.10 down
70907X	D60-456T	4.56	Std.	248	7.656	1.6262	1.2502	5.000	1.248-29T	7/8"-14	7.500	1/2"-20RH(12)	2.531	6.375	9.547	4.10 down
2019214	D60-488T	4.88	Std.	248	7.656	1.6262	1.2502	5.000	1.248-29T	7/8"-14	7.500	1/2"-20RH(12)	2.531	6.375	9.779	4.10 down
2019217	D60-513T	5.13	Std.	248	7.656	1.6262	1.2502	5.000	1.248-29T	7/8"-14	7.500	1/2"-20RH(12)	2.531	6.375	9.792	4.10 down
84677	D60-538R	5.38	Rev.	248	7.656	1.6262	1.2502	5.000	1.248-29T	7/8"-14	7.500	1/2"-20RH(12)	2.343	6.375	9.901	4.56 up
25784X	D60-586	5.86	Std.	248	7.656	1.6262	1.2502	5.000	1.248-29T	7/8"-14	7.500	1/2"-20RH(12)	2.343	6.375	9.769	4.56 up
26628X	D60-617	6.17	Std.	248	7.656	1.6262	1.2502	5.000	1.248-29T	7/8"-14	7.500	1/2"-20RH(12)	2.343	6.375	9.767	4.56 up
26756X	D60-717	7.17	Std.	248	7.656	1.6262	1.2502	5.000	1.248-29T	7/8"-14	7.500	1/2"-20RH(12)	2.343	6.375	9.762	4.56 up

Tested. Proven. Trusted. Driven. That's the Spicer Difference.

Spicer manufactures a range of parts that deliver original equipment quality to the aftermarket. Only Spicer parts meet the exacting specifications of Dana, the global leader in OE technology.

Automotive Driveshaft Components



Automotive Axle Components



CRATE AXLE®



Talk to your Spicer parts representative today or visit SpicerParts.com.

Products shown are representative of Spicer®, Spicer® Select™, and Dana Crate Axle® product lines. Additional parts are available.

SpicerParts.com//RingAndPinions

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