Underride and Jackknife Crashes: How They Happen and Who May Be Responsible

Underride and jackknife crashes are two kinds of tractor-trailer collisions that frequently cause severe injuries. An underride crash happens when a smaller vehicle slides partly or completely beneath a trailer or truck body. A jackknife occurs when the tractor and trailer fold toward each other, often across several lanes. Each one raises distinct evidence questions for a truck accident attorney.

How underride happens

According to the Insurance Institute for Highway Safety (IIHS), large trucks are taller and have greater ground clearance than cars, so a lower vehicle can slide beneath a trailer, and strong underride guards can stop that from happening. When a car goes under a trailer, the trailer can strike the passenger compartment, bypassing much of the crash protection built into the front of the car.

Rear impact guards on trailers fall under Federal Motor Vehicle Safety Standards No. 223 and No. 224, found at 49 CFR 571.223 and 571.224, and 49 CFR 393.86 addresses rear impact guards on vehicles already in service. IIHS reports that NHTSA finalized a stronger rear guard rule in 2022. In a June 2024 report to Congress under the Bipartisan Infrastructure Law, NHTSA estimated an average of 89 deaths a year among light passenger vehicle occupants in two-vehicle crashes in which the passenger vehicle strikes the side of a trailer or semi-trailer and goes under it. A truck accident lawyer will look at whether the trailer had a compliant guard and whether it was damaged before the crash.

How jackknife crashes happen

A jackknife usually starts with a loss of traction. Commercial driver manuals explain that when trailer wheels lock, the trailer tends to swing around, and that this is more likely when the trailer is empty or lightly loaded. Hard braking, excessive speed for conditions, wet or icy pavement, poorly adjusted brakes and shifting cargo can each play a part. Federal Motor Vehicle Safety Standard No. 121 covers air brake systems, including antilock brakes, but antilock brakes reduce wheel lockup rather than preventing every skid.

A photograph of the folded rig shows where the vehicles ended up, not which unit lost control first. A tractor skid and a trailer swing can look alike after the fact, so reconstruction depends on tire marks, ECM speed and brake data, brake adjustment readings and the load records. A tractor-trailer crash lawyer typically asks for the brake inspection history and the bill of lading for that reason.

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Rollovers and blocked lanes

FMCSA's Large Truck and Bus Crash Facts 2022 reports that overturn, or rollover, was the first harmful event in 4 percent of fatal crashes involving large trucks. A jackknifed or overturned rig can block several lanes, which can lead to secondary collisions with vehicles that cannot stop in time. Poor trailer visibility at night is another factor in underride cases, which is why the retroreflective sheeting required on many trailers under 49 CFR 393.11 gets a close look. A truck wreck attorney may review the police crash report and scene photos for lighting and visibility problems.

Building the evidence

Responsibility may reach beyond the driver: the trucking company for maintenance and training, the loader for cargo securement under 49 CFR Part 393, and the manufacturer if a guard or brake component was defective. A truck accident lawyer will usually ask that the trailer, the guard and the brake components be preserved before any repairs. Each state sets its own statute of limitations and fault rules, and this general information is not legal advice or a prediction about any claim.