Jackknife and Underride Crashes in Truck Accident Claims

Underride and jackknife crashes are two kinds of tractor-trailer collisions that frequently cause severe injuries. In an underride crash, a smaller vehicle slides partly or fully under a trailer or truck body. In a jackknife, the tractor and trailer fold toward each other, often blocking several lanes. Each type raises its own evidence questions for a truck accident lawyer.

How underride happens

According to the Insurance Institute for Highway Safety (IIHS), large trucks are taller and have greater ground clearance than cars, which means 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, which bypasses much of the crash protection built into the front of the car.

Rear impact guards on trailers are governed by 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 an upgraded rear guard standard in 2022. In a June 2024 report to Congress under the Bipartisan Infrastructure Law, NHTSA put the annual average at 89 deaths among light passenger vehicle occupants in two-vehicle crashes in which the passenger vehicle strikes the side of a trailer or semi-trailer and underrides it. A truck accident lawyer will look at whether the trailer had a compliant guard and whether it was damaged before the crash.

The mechanics of a jackknife

Most jackknife crashes begin with a loss of traction. State commercial driver manuals explain that locked trailer wheels make the trailer tend to swing around, which is more likely with an empty or lightly loaded trailer. Hard braking, speed too fast for conditions, wet or icy pavement, out-of-adjustment brakes and shifting cargo can all contribute. 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, but not which unit lost control first. A tractor skid and a trailer swing can look similar at rest, so reconstruction depends on tire marks, ECM speed and brake data, brake adjustment readings and the load records. A tractor-trailer crash lawyer typically truckaccidentlawyers.wiki asks for the brake inspection history and the bill of lading for exactly that reason.

Rollovers and secondary crashes

FMCSA's Large Truck and Bus Crash Facts 2022 states that overturn, or rollover, was the first harmful event in 4 percent of fatal crashes involving large trucks. A jackknifed or overturned trailer can block multiple lanes, leading 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 can extend 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 usually asks that the trailer, the guard and the brake parts be kept before any repairs. Each state has its own statute of limitations and fault rules, and this general information is not legal advice or a prediction about any claim.