

Press release

Neu-Isenburg, November 2011

TRIDEC TD-O: The intelligent drawbar for heavy off-road trailers

TRIDEC, the specialist for axle steering and suspension systems, will present the first fixed drawbar with integrated hydraulic frame suspension and automatic load-dependent traction improvement for heavy off-road trailers at Agritechnica 2011, on 15-19 November 2011 in Hanover.

With the newly developed, hydraulically assisted TD-O drawbar, TRIDEC is setting new benchmarks for safety, convenience, manoeuvrability and traction in the use of heavy trailers in agriculture and forestry. The fixed drawbar has been conceived specifically for heavy-duty off-road use. Not only is it designed to be particularly stable, it also has a unique combination of hydraulic suspension, hydraulic steering and automatic traction improvement. All functions are controlled by the integrated TRITRONIC electronic control, which has been developed by TRIDEC and proven time and again. Moreover, it allows easy operation of all trailer functions – such as dumping, levelling or supporting feet – from the driver's seat. An additional feature of the new TRIDEC TD-O: TRIDEC has developed a special adapter system in partnership with the towing hitch specialists at its sister company, ROCKINGER. This system allows both the axle steering system and the top-mounted pressure cylinder to be linked to the tractor via the drawbar bracket for improved traction. The adapter plates with the cylinder hookups for the hydraulic systems can therefore be quickly and easily mounted on and removed from the drawbar bracket in just a few steps for easy coupling

and uncoupling. Thanks to this new adapter system, the TRIDEC TD-O is suitable for any tractor with a ROCKINGER drawbar bracket without additional conversion measures.

The hydraulically assisted TD-O drawbar from TRIDEC has been designed as an especially robust fixed drawbar for all heavy trailers for off-road use. The drawbar is connected to the vehicle frame from below by means of two hydraulic spring elements at the front and two cylinder hookups at the end of the drawbar. All bearings require only minimal maintenance. The unique system of supporting the vehicle frame against the drawbar ensures the highest level of stability even in extreme situations, and therefore the greatest degree of safety. This construction also considerably increases driving comfort. The TRIDEC TD-O can also be equipped with a top-mounted pressure cylinder. The pressure cylinder rests against the drawbar bracket on the tractor and is connected to the hydraulic cylinders in the frame suspension. When the load on the drawbar increases, thereby increasing the pressure on the springs, the top-mounted pressure cylinder presses up against the drawbar bracket, ensuring improved traction at the front axle of the tractor.

The new TRIDEC drawbar also has an integrated hydraulic axle steering system, the master cylinders of which are located in the protected area at the side of the drawbar. Standard equipment also includes a hydraulic supporting foot, which, like all other hydraulic functions, is controlled via the convenient central TRI-TRONIC control unit in the driver's cab. The control unit is also used to adjust the height of the drawbar and align the steering axles. All hydraulic circuits can be depressurised for coupling and uncoupling.

The TRIDEC TD-O uses a modular structure and is delivered with all necessary mounting hardware. It is attached to the vehicle frame using only screw fastenings, which makes mounting it to the vehicle frame extremely simple and straightforward.

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JOST is the worldwide leading producer of vehicle connection components for systems, modules and components for truck & trailer. Under the umbrella brand name of JOST, the comprehensive range of products is broken down into four areas. The JOST brand includes fifth wheel couplings, telescoping landing gears and accessories for semi-trailers, ball bearing turntables, king pins and container locks and components for alternating systems. Under the traditional brand name of ROCKINGER, the company produces towing hitches and drawbar eyes for both transporters and trucks, as well as for use in the agricultural industry. With REGENSBURGER ZUGGABEL, JOST completes its range of products for coupling technology with towing drawbars for both road and agricultural use. TRIDEC is the leading provider of steering systems and single wheel suspensions for trailers.

JOST is the only supplier that can provide its products and services all around the world. The company is located on all continents, with distribution, production and development. With production plants in Germany, Spain, Hungary, Poland, Romania, the US, Brazil, Australia, South Africa, China and India, JOST is the global partner of choice for the commercial vehicle industry. JOST employs around 2000 employees worldwide.