



TEKNE EXTRA HEAVY DUTY DUMP TRUCK 106.54 is based on Astra Truck, fitted by TEKNE, in Italy.

TEKNE EXTRA HEAVY DUTY DUMP TRUCK 106.54 meets the requirements of mining operations guaranteeing the safety of facilities and personnel, allowing the transport of products efficiently.

EXTRA HEAVY DUTY DUMP TRUCK

10X6 5 AXLES
Dump Truck

FIVE AXLES MINING
Dump Truck
by TEKNE
made in Italy



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EXTRA HEAVY DUTY DUMP TRUCK

FIVE AXLES MINING Dump Truck

EFFICIENCY IN THE PRODUCTION PROCESS

Transporting high quantities of material in a safe and continuous way are the added value to optimize costs and revenues.

ADVANCED AUTOMOTIVE TECHNOLOGY

The engineering of the TEKNE EXTRA HEAVY DUTY DUMP TRUCK is based on advanced technologies in the automotive field, gained thanks to the thirty-year experience of Tekne in the quarry-yard and mine sector.

PRODUCT RANGE

The 5 AXLES TEKNE EXTRA HEAVY DUTY DUMP TRUCK range is divided into two types of Dump Trucks, with a capacity of 70 and 80 tons.





EXTRA HEAVY DUTY DUMP TRUCK

FIVE AXLES MINING Dump Truck

Type	EXTRA HEAVY DUTY DUMP TRUCK 106.54 - 70	EXTRA HEAVY DUTY DUMP TRUCK 106.54 - 80
Configuration		

TECHNICAL DETAILS

Weights		
GVW	73.500 Kg	84.000 Kg
1st + 2nd axle	21000 Kg	21000 Kg
3rd axle + 4th axle	42000 Kg	42000 Kg
5th axle	10500 Kg	21000 Kg
Nominal axles loads Technical data and general specifications - validity to be checked according to each individual country		
Chassis and mechanics		
Drive	LHD or RHD	
Driveline	10x6	
Chassis Frame	Bolted	
Engine	Iveco, 6 in-line cylinders CURSOR 13 turbo intercooler euro 3 diesel injection/cycle with electronic unit injection pumps	
Fuel Tank	300L (600L - opt)	
Transmission	Allison HD4700 , Automatic 7 speed + 1RM Transmission oil cooler	
Transfer case	ZF STEYR VG 2700 Differential lockable by pneumatic control. Mechanical with two ratios.	
Axles	1st, 2nd steering type. 3rd, 4th KESSLER drive axles in tandem.	
	5th steering axle, single, induced	5th axis fixed, twin, induced
Brakes	Differential lockable by pneumatic control from driver's seat. Tandem assembled to the chassis by reaction rods with silent-block.	
	Service brake: Pedal controlled air brake, acting on all wheels Solo vehicles: Two independent circuits, one for 1st and 2nd and 5th, one for 3rd and 4th axle Emergency brake: Integrated in service brake Parking brake: Mechanical spring-type with pneumatic control acting on 3rd & 4th axle wheels Engine Brake: IVECO BRAKE TURBO engine brake (braking power 300Kw) Complementary Braking System: available AXIAL SLOW MOTORS (electric retarders) from 3000 to 3600 Nm	
Suspensions	1st axle: Parabolic springs, 4 leaves 26x90 mm, hydraulic shock absorbers. Stabilizer bar. 2nd axle: Parabolic springs, swiveling on central pin: 5 leaves 40X100mm. 3rd & 4th axle: Parabolic springs, swiveling on central pin: 5 leaves 40x100 mm. Supplemented by torque bars and stiffening brackets. Stabilizer bar. 5th axle: Parabolic springs. Stabilizer bar.	
Tires	1st, 2nd axles: 14.00R20 Pirelli PS 22 Single tubeless	
	3rd 4th: 14.00R20 Pirelli PS 22 Twin tubeless	
	5th axle: 14.00R20 Pirelli PS 22 Single tubeless	5th axle: 14.00R20 Pirelli PS 22 Twin tubeless

Steering	Hydraulic power steering ZF 8099 with variable ratio 1:22.2/1:26.2, with 3 auxiliary cylinders mounted on axles. Hydraulic pumps hanged to engine. Steering linkage with self lubricating oating joints. Emergency steering pump on transfer box. Mechanical adjustable steering wheel for height and angle
Electrical System	Dual system 12-24V
	90 A - 28 V (2520W) Alternator generator
	2 in series , 170Ah Accumulators
	24V 5,5Kw Starter
	ABS with 4 conduits and 4 electric valves electronic system
	Glow plug for cold start
Cab	
Exterior	Standard white short cab built in galvanized pressed steel with hydraulic tilting up to 60°. Cab suspension with 4 helicoidal springs with coaxial-shock absorbers and integrated dampers, anti roll-bar and end-of-stroke pads. central locking (2 keys). Tinted electric powered door windows. Rear view mirrors, wide angle and front view mirrors. External sun-visor. Rotating lights on top of the cab.
Interiors	Internal panels completely washable and fireproof. Compressed air quick coupling for cab cleaning. 4 speed ventilation and heating system with air recirculation system. Air suspended 3 way adjustable driver seat with seat belts. Mechanical passenger seat with seat belts.
Instrument panel	Dashboard and ergonomic instrument board contain the function buttons and the identification commands. Indicator lights: engine oil low pressure, alternator charging low, main beam lights, side lights, engine warm-up, rear fog light, hazard lights, tractor turn indicators, trailer turn indicators (if applicable), rotating lights, cab lifted, axles differential locked, differential lock, front brakes air pressure low, rear brakes air pressure low, trailer brakes air pressure low (if applicable), parking brake engaged, splitter (reduction on), slow speeds, power take-off on (if applicable) air filters clogged, power steering oil level low, rear view mirrors heated (if applicable), ABS, trailer ABS (if applicable), main steering circuit failure, steering auxiliary circuit failure.
Performances	
Max power	540 Hp / 397 kW @ 1900rpm
Max torque	2350Nm @ 1000-1690rpm
Engine coolin	Heavy duty engine cooling
Speed	Loaded: Limited at 40 km/h
	Unloaded: Limited at 60 km/h

Optional equipments

ZF Astronic 16 AS 2601 TO semi-automatic transmission (16+2 speeds)	Additional central seat
17" ceramic clutch	Air conditioning with anti-pollen filter
Rapid attachment for compressed air for tyres' inflation	Anti-fog lights;
Rear underrun bar in set back position	Cab rear window
Rear manoeuvring hook	Car radio RDS, CD
Rear automatic towing hook	Car radio RDS, CD, MP3, Blue Tooth technology
Rubber mudguards on 2nd, 3rd & 5th axle	Centralized closing of the doors with remote control
Front bumper climbing step	External sun visor
220 Ah accumulators	Heated and electric powered rear view mirrors
70 Ah tropicalised accumulators	Roof hatch
Reverse alarm	Self-recovery winch
Rear view camera	Electrically controlled main current circuit breaker
ROPS compliance to ISO 3471	FOPS compliance to ISO 3449

