



Perkins 1104D-E44T max. power	70 kW / 95 PS @ 2200 rpm	
Torque	399 Nm @ 1400 rpm	
Displacement	4400 ccm (268 cu inches)	
Emission standard	EU Norm 97/68/EC Stage 3A US EPA 40 CFR 89 Tier 3	
Starter	4.5 kW	
Alternator	55 A	
Battery	2x 70 Ah - 760 A	
Sound pressure	L _{pA} 75 dB(A)	
Sound level	L _{WA} 99 dB(A)	
Cooling system	3- circuit cooling system	
Max. ambient temperature	46 °C (115°F)	
Tank capacity diesel (tank/chassis tank)	210 l (110 l / 100 l)	55.5 gal (29.1 gal / 26.4 gal)
Hydraulic system capacity (tank)	200 l (140 l)	52.8 gal (37 gal)
Slewing rate	9 rpm	
Slew torque	40'500 Nm	
Rotation crown wheel	Modul 8	
Working transverse to slope	70 %	
Working longitudinally to slope	100 %	
Turning circle	12 m	
Travelling speed (powerful/fast)	0-4.5 km/h; 0-10 km/h (0-2.8 mph; 0-6.2 mph)	
Climbing ability on roads up to	50 %	
Tensile strength	40 kN (ISO 6015)	
Breakaway torque	63 kN (ISO 6015)	
Lifting power	3 m / 40 kN (4 t)	9' 10" / 40 kN
	5 m / 18 kN (1.8 t)	16' 5" / 18 kN
	6 m / 10 kN (1 t)	19' 8" / 10 kN
Weight	From 8'500 kg (18'740 lb)	
Cab	ROPS / FOPS DIN ISO 3471 und DIN 24090	

Optionen

Front tyres	12.5/60-15 (d=720mm/2' 5"; b=275mm/11") - STANDARD
	385/45-14.25 (d=850mm/2' 9"; b=385mm/1' 3")
Back tyres	46x18.0-20 (d=1120mm/3' 8"; b=440mm/1' 5") - STANDARD
	500-60/16.5 (d=1170mm/4' 1"; b=500mm/1' 7")

233042011 Technical changes are possible without further notice!

Dok-ID 148113F-

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Rugged design

Undercarriage

Solid undercarriage, large dimension bearings, surface treated bolts and bronze bushings guarantee maximum life span. Optimised weight distribution with low gravity center for maximum stability in difficult terrain. Well protected hose guides, generally integrated in steel.

Telefuss

Wide adjustment range to suit varying terrain. Approx. 1m hydraulically extendable telescopic legs. Guide supported with sliding plates and adjustable clearance.

Boom

Heavy Duty boom with long reach and excellent load lifting capacity, which can be fully utilized due to high stability. Centering fix for quick and easy bucket change. Solid connecting rod and shear. All bolts on boom screwed. Advertising board on left and right on boom. Boom piping arranged for optimal protection of hydraulic hoses. Five hydraulic connections for accessories such as hydraulic tilt bucket, hammer and grapple bucket.

Hydraulic cylinders

All boom cylinders are provided with end position damping and spherical joint bearing. Cylinders in undercarriage are provided with spherical joint bearings and hose fracture safety valves to ensure that the excavator maintains its position in the event of a failure.

Top performance

Slewing drive

Torque controlled 360° continuous slewing drive with 40.5kNm. Axial piston variable speed motor with two operating modes for fast (0-9 rpm) and powerful (0-4 rpm) slewing with maximum positioning accuracy. Two-speed planetary gearing with automatic disc brake in oil bath. Rugged ball rotation crown wheel modulus 8 with hardened tooth flanks and integrated rotation crown wheel lubrication.

The KAISER models can be licensed for road use if required.

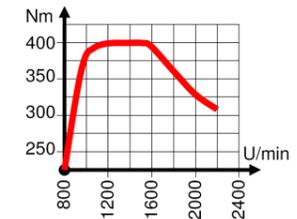
Drive

Closed hydraulic circuit with separate pump for maximum performance. Driving and working movements can be performed simultaneously. Precise handling through power control. Axial piston variable speed motor with two operating modes for fast (0-10 km/h / 0-6.2 mph) and powerful (0-4 km/h / 0-2.8 mph) driving with maximum handling precision. Multi-level planetary gearing with disc brake in oil bath. The parking brake is applied manually via joystick for precise manoeuvring in difficult terrain without damage.

Engine

Perkins (CAT) 4-cyl. diesel engine, type 1104D-E44T. 70 kW (95.2 PS); 399 Nm at 1400 rpm. Electronically controlled; ACERT Common Rail injection system, exhaust standard 97/68/EC Stage IIIA or US EPA Stage 3. Control of injection system by original Perkins (CAT) ECU control system. The most powerful and high-torque diesel engine, thanks to 4-valve technology.

Fig: Torque characteristic Perkins 1104D-E44T



Electrical system

24V, battery 2x70Ah, alternator 55A, starter 4.5kW. Three working lights for excellent illumination. Horn, parallel wipers with washer/wiper system and parking position "Emergency stop switch", radio with CD. Electronic fan, pump and engine management.

Cooling system

3-circuit cooling system for hydraulic oil, cooling water, diesel fuel. The electronic fan management ensures optimal temperatures at all times, reduces fuel consumption and maintains noise at a low level. Worldwide approval up to ambient temperatures of 46°C (115° F) at maximum power. Coarse and fine filters protect the easy to clean radiator.

Precise hydraulics

Bosch Rexroth LUDV Load Sensing Hydraulics. The system operates with a power-controlled swash plate axial piston pump. Operating pressure 280 bar (3770 psi); 190 litres/min. (50.1 gal/min) for powerful movement. Regenerative function for fast and powerful movement, including priority control for slewing mechanism. Drive in 400 bar (5800 psi) closed circuit; 140 litres/min. (37 gal/min) is operated via a swash plate axial piston pump. The geared pump with a capacity of 45 litres/min. (12 gal/min) supplies the hydraulic fan, secondary flow filtration and cooling.



Maximum comfort

Control

Futura® joystick in an optimal ergonomic design for left and right-hand use; guaranteed functionality and reliability. All functions can be selected directly via the joystick, no release of the control necessary (brake, bugle etc.).

Three ergonomically arranged pedals for actuating telescopic, driving and additional connection. Plenty of leg room and foot support options including foot rail.

Instrument panel

Instrument panel with colour display as user interface and for indication of all important operating states.

A large number of user modes are available for work alleviation: operating, sensitivity and steering mode, choice of operation type, language selection management of equipment, etc.

Machine behaviour can be configured to suit customer requirements using the display.

Speed selection, slewing fast/powerful, washer/wiper system, working light, seat heating, etc.

Cab

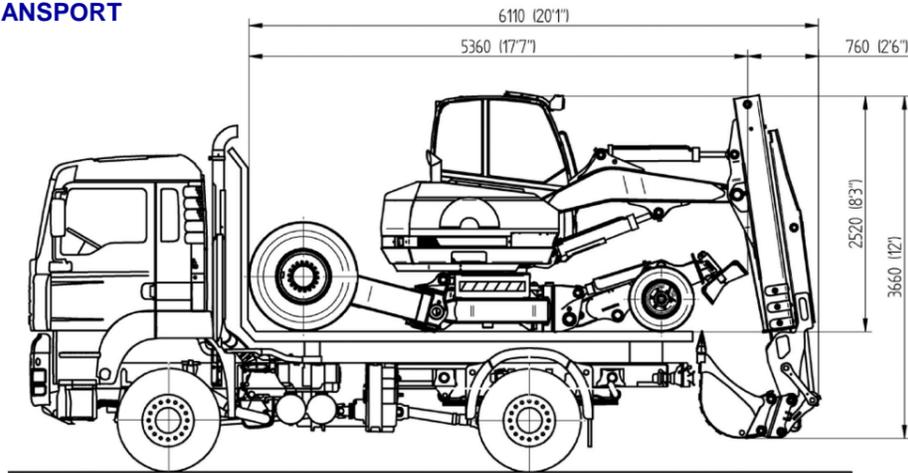
Comfortable, safety cab with wide door, clear all-round view and plenty of legroom. ROPS and FOPS test according to DIN ISO 3471 and DIN 24090. Continuous inward opening windshield, (without cross member) ensures clear all-round view. Glass roof for maximum visibility.

Low vibration and noise level due to hydraulic suspension and hermetic insulation (Engineered in cooperation with research Universities and Institutions). Air-suspension seat with high backrest and numerous adjustment options.

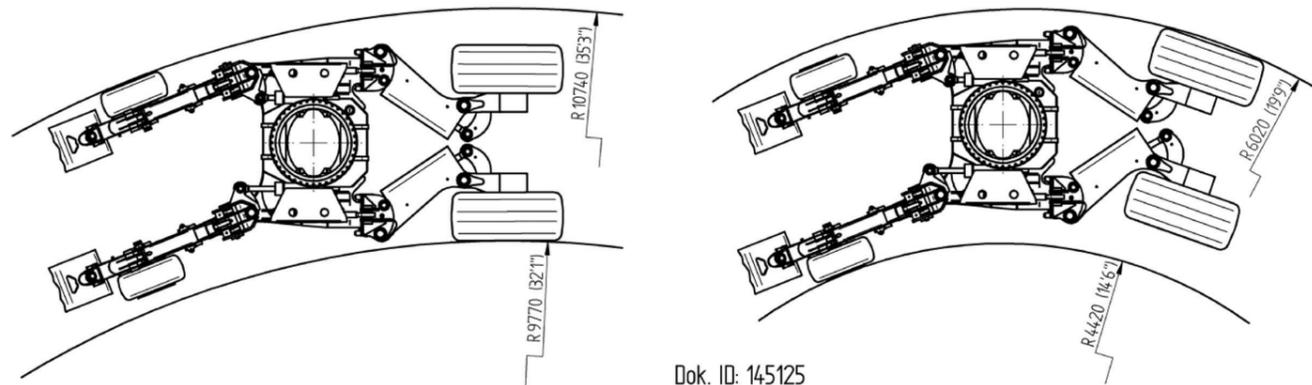
Roof sunblind.

Hydraulic one-hand cab tilting device.

TRANSPORT

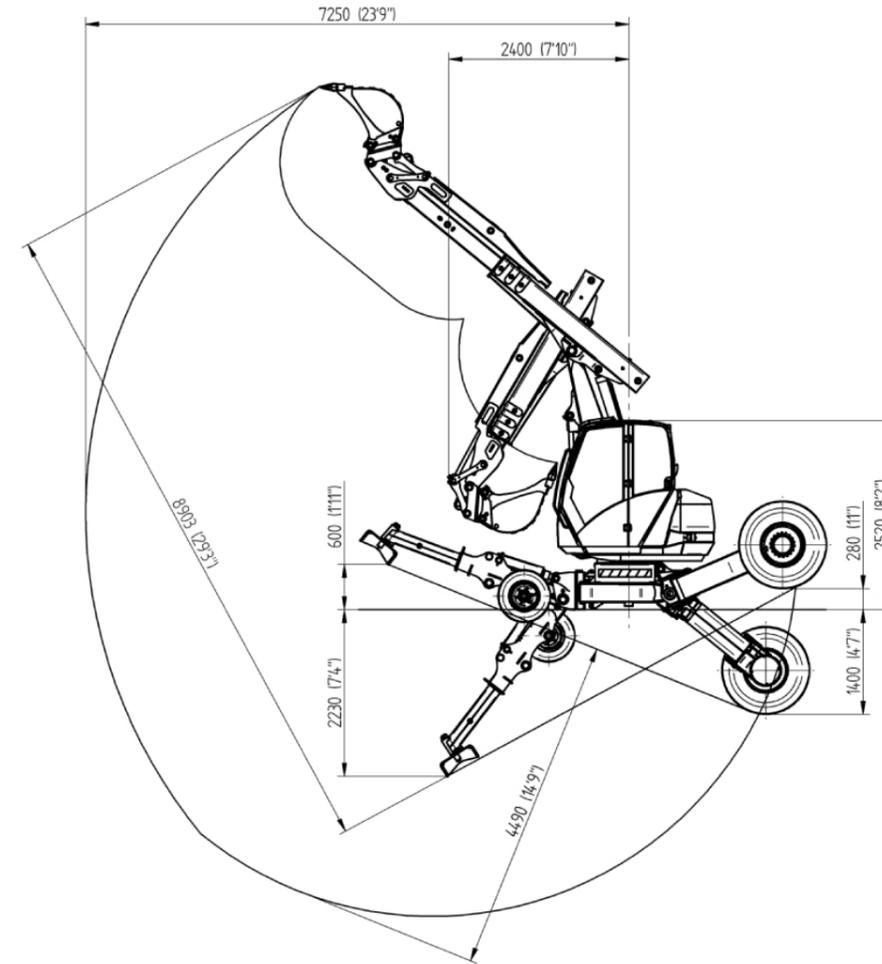


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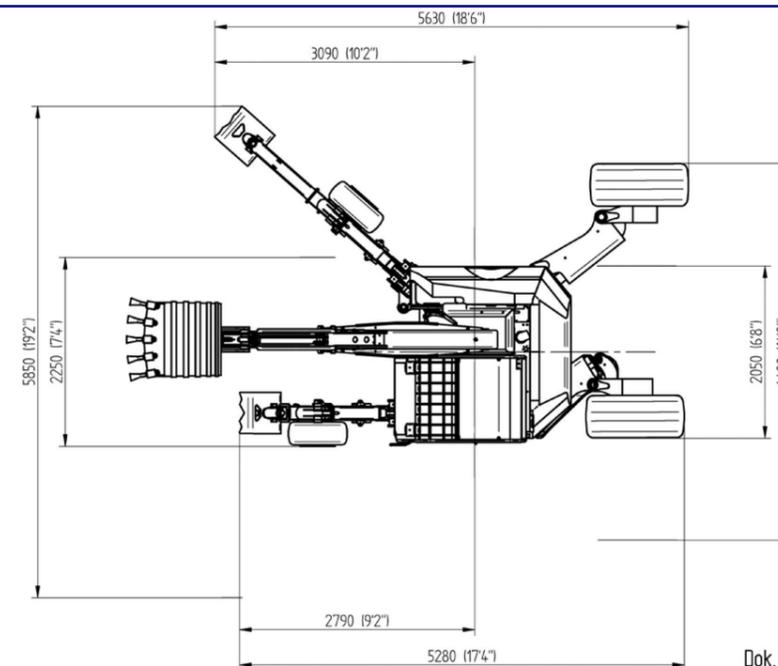
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MOBILITY



OPERATING RANGE

Dok. ID: 144610



ADJUSTMENT RANGE

Dok. ID: 145110