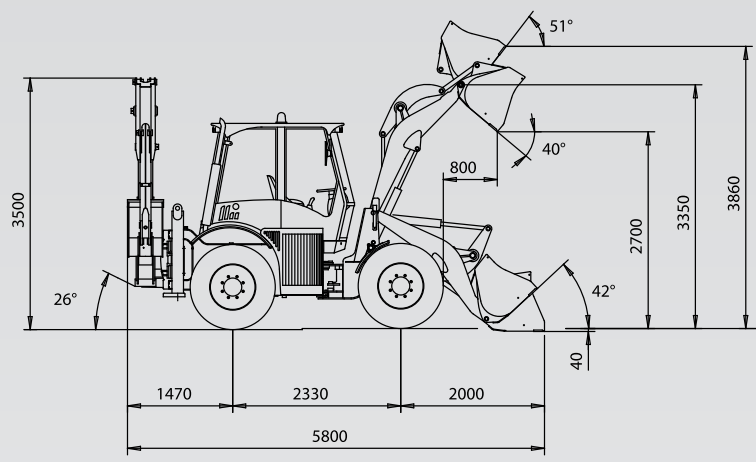
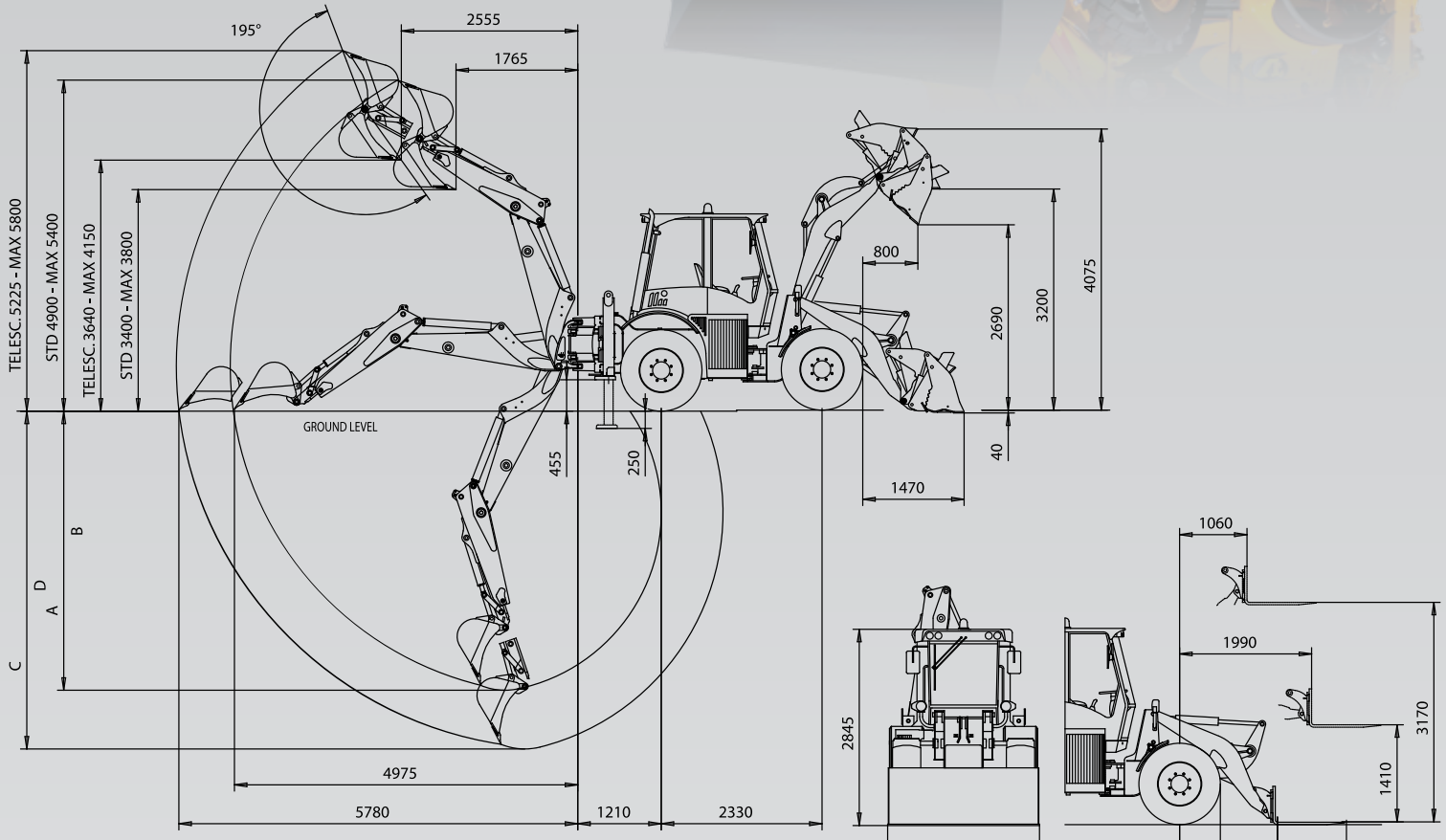




# 8.23E

## ARTICULATED BACKHOE LOADER

- › Max power 105 HP
- › Bucket capacity 1.1 - 1.4 m<sup>3</sup>
- › Max digging depth 4.60 m (5.40 m)
- › Max permissible weight 8.490 kg
- › Hydrostatic transmission
- › 4 wheel drive



### Loading bucket (kg)

Static tipping load, full turn	4.950
Payload (50%)	2.475

### Loading fork (kg) - centre of gravity 500 mm

Static tipping load, full turn	3.900
Payload EN 474-3 (80%)	3.120
Payload EN 474-3 (60%)	2.340
Payload DIN 24094 (50%)	1.950

## DIESEL ENGINE

Engine: 4 cylinder, turbocharged, direct injection diesel engine, water-cooled, paper dry filter. Emissioned engine according the CEE 97/68 stage IIIA.

Type .....	Perkins 1104 D 44T
Max power .....	77 kW - 105 HP
Rated rpm .....	2.200
Net power ISO/TR 14396 .....	70 kW - 95 HP
Net power EEC 80/1269 .....	70 kW - 95 HP
Bore .....	mm 105
Stroke .....	mm 127
Displacement .....	cm <sup>3</sup> 4.400

## ELECTRIC SYSTEM

Battery .....	12 Volt
Capacity EN 60095-1 .....	100 Ah - 1080 A
Alternator rating .....	65 A
Reverse warnig .....	Standard
Wiring according width .....	IP 67 DIN 40050

## TRANSMISSION

Hydrostatic transmission with automatic power regulation and closed circuit with variable displacement pump and motor.

Gearbox with two mechanical selections: two work speeds (fwd/rev) and two road speeds (fwd/rev). Automatic gearshift for travelling.

Work speed	forward	reverse
1 <sup>st</sup> gear km/h	0÷6	0÷6
2 <sup>nd</sup> gear km/h	0÷12	0÷12

Road speed	forward	reverse
1 <sup>st</sup> gear km/h	0÷18	0÷18
2 <sup>nd</sup> gear km/h	0÷40	0÷40

## AXLES

Axles designed for heavy duties. All wheel drive. Planetary final drives in each wheel. Front axle: rigid. Rear axle: oscillating up to a total angle of 20° with "Limited Slip" differential. Hydraulic locking device on rear oscillating axle.

## BRAKE SYSTEM

Service: multi disc oil brakes on rear axle working on all the wheels. Parking: mechanical brake operating on the transmission shaft manually actuated.

## TYRES

Standard .....	16/70 - 24
Option .....	15-22.5 • 405/70 R24

## STEERING

Central articulated frame with servo assisted through DAN-FOSS OSPC 315 hydraulic LOAD SENSING steering unit.

Total steering angle .....	80°
Inner tyres turning radius .....	mm 2.500
Outer tyres turning radius .....	mm 4.600
Outer bucket turning radius .....	mm 5.100

## HYDRAULIC SYSTEM

Two hydraulic gear pumps, the first controlling the shovel and power steering circuit and the second controlling the

cooling fan. "Combined Flow" circuit for feeding the rear control valve. Modular two-element control valve for the loader, modular six-element control valve for the backhoe. Regenerative function.

Double acting hydraulic cylinders. Hydraulic oil cooling radiator.

Full-flow oil filter on the leakage pipe.

Max flow .....	lt/1'	120
Loader relief valve pressure .....	bar	230
Steering relief valve pressure .....	bar	175
Lift cylinders .....	mm	85x580
Bucket cylinder .....	mm	90x402
Cycle time .....	sec	8.6

## Loader control

Single lever arm-control with 4-position lifting system and with 3-position bucket system.

## Backhoe control

Two levers backhoe control, "cloche" type.

Two hydraulic-control independent stabilizers.

Side translation with four hydraulic locking devices.

## SERVICES CAPACITIES

Engine .....	lt	8
Front axle + gear box .....	lt	10,5
Rear axle .....	lt	9,2
Hydraulic circuit .....	lt	114
Brake system .....	lt	0,6
Fuel .....	lt	82
Water cooling .....	lt	24

## TECHNICAL FEATURES

### Loader:

Standard bucket capacity .....	m <sup>3</sup>	1,10
Bucket width .....	mm	2.200
Breakout force .....	kg	6.900
Max hydraulic lifting capacity at maximum height	kg	4.100
Dump clearance .....	mm	3.350
Dump height at 40° .....	mm	2.700
Reach at 40° .....	mm	800

### Backhoe:

Type .....	VF	4.35C
Standard bucket capacity .....	lt	150
Standard bucket width .....	mm	500
Dipperstick max. penetration capacity .....	kg	2.550
Max. breakout force on the bucket tip .....	kg	4.560
Max hydr. lifting capacity on the bucket pin up .....	kg	1.400
Rotation .....		180°
A - Max digging depth .....	mm	4.600
B - Standard digging depth (SAE) .....	mm	4.300
C - Max digging depth with telescopic (opt.) .....	mm	5.400
D - Standard digging depth (SAE) with telesc. (opt.) .....	mm	5.100

## DIMENSIONS AND WEIGHTS

Max length in transfer position .....	mm	5.900
Max width in transfer position .....	mm	2.200
Width across tyres .....	mm	2.060
Tracks width .....	mm	1.650
Maximum height .....	mm	3.500
Ground clearance .....	mm	320
Standard weight in running order .....	kg	7.500
Max permissible weight .....	kg	8.490



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