

# 10.23E

## CENTRAL PIVOT MULTIFUNCTIONAL MACHINE ARTICULATED

**VENIERI**



### DIESEL ENGINE

Engine: inline-four cylinder, turbocharged, charge air cooling, Common Rail injection system electronically controlled, external exhaust gas recirculation, water cooled, dry filtration, oxidation catalyst (DOC) diesel particulate filter (DPF), selective catalytic reduction (SCR). Emissioned according to CEE 97/68 - Stage V/Tier 4F.

Type	Deutz TCD 3.6 L4
Max power	78 kW - 106 HP
Rated RPM	2.300
Power ISO/TR 14396	74,4 kW - 101 HP
Power EEC 80/1269	74,4 kW - 101 HP
Max torque	lbf ft 302.4
Bore	in 3.86
Stroke	in 4.72
Displacement	in³ 221



### ELECTRIC SYSTEM

Battery	12 Volt
Capacity EN 60095-1	110 Ah - 1100 A
Alternator rating	95 A
Reverse warning	Standard
Wiring according with	IP 67 DIN 40050



### TRANSMISSION

Hydrostatic transmission with automatic power regulation and closed circuit with variable displacement pump and motor. Gearbox with 2 mechanical selections: 2 work speeds (fwd/rev) and 2 road speeds (fwd/rev).

#### Work speed

	Forward	Reverse
1 <sup>st</sup> gear mph	0÷4	0÷4
2 <sup>nd</sup> gear mph	0÷8	0÷8

#### Road speed

1 <sup>st</sup> gear mph	0÷11	0÷11
2 <sup>nd</sup> gear mph	0÷25	0÷25



### AXLES

Designed for Heavy Duty • All-wheel drive • Planetary final drives in each wheel.

Front axle: rigid • Rear axle: oscillating up to a total angle of 20° and "Limited Slip" differential. Hydraulic locking device on the rear oscillating axle.



### BRAKES

Service: hydraulic multi-disk oil brakes on each wheels with two separate circuits.

Parking: band-type on the split outlet hand-operated.



### TYRES

Standard	17.5L 24
Option	15.5-25 • 15R 25 • 405/70 R24 • 19.5L 24



### STEERING

Central articulated frame with servo assisted through LOAD SENSING.

Total steering angle	70°
Inner tyres turning radius	ft in 9'11.29"
Outer tyres turning radius	ft in 17'5.13"
Outer bucket turning radius	ft in 18'6.91"
Outer stabilizer turning radius	ft in 18'2.97"



### HYDRAULIC SYSTEM

Composed of two gear pumps, the first for the loader circuit and steering, the second for the circuit of the fan, having a double speed of rotation. "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 type, with unloading valve for reducing consumption during transfer. Double acting hydraulic cylinder. Cylinder 1st backhoe arm with brake at maximum height. Hydraulic oil cooling radiator: Full-flow oil filter on the leakage pipe.

Standard flow	gpm	27.74
Max flow	gpm	38.3
Loader relief valve pressure	psi	3,626
Steering relief valve pressure	psi	2,538
Lift cylinder	in	3.54x26.18
Bucket cylinder	in	4.33x17.52

#### 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.



### SERVICES CAPACITIES

Engine	gal	2.11
Front axle	gal	3.12
Rear axle	gal	3.12
Gear box	gal	0.42
Hydraulic circuit	gal	22.45
Brake system	gal	0.53
Fuel	gal	31.17
Water cooling	gal	6.34
AdBlue	gal	5.28



### TECHNICAL FEATURES

#### Loader

Standard bucket capacity	yd³	1.70
Bucket width	ft in	7'8.52"
Breakout force	lb	23,810
Max hydraulic lifting capacity at maximum height	lb	12,787
Dump clearance	ft in	11'5.8"
Dump height at 42°	ft in	9'2.24"
Reach at 42°	ft in	2'6.51"

#### Backhoe loader

Type	VF	4.65B
Standard bucket capacity	gal	52.83
Bucket width	in	23.62
Dipperstick max penetration capacity	lb	10,362
Max breakout force on the bucket type	lb	13,448
Lifting capacity on the bucket pin up to max height	lb	4,850
Rotating		180°
A - Max digging depth	ft in	16'4.85"
B - Standard digging depth (SAE)	ft in	15'1.1"
C - Max digging depth with telescopic (opt.)	ft in	19'8.22"
D - Standard digging depth with telescopic (opt)	ft in	18'4.47"



### DIMENSIONS AND WEIGHT

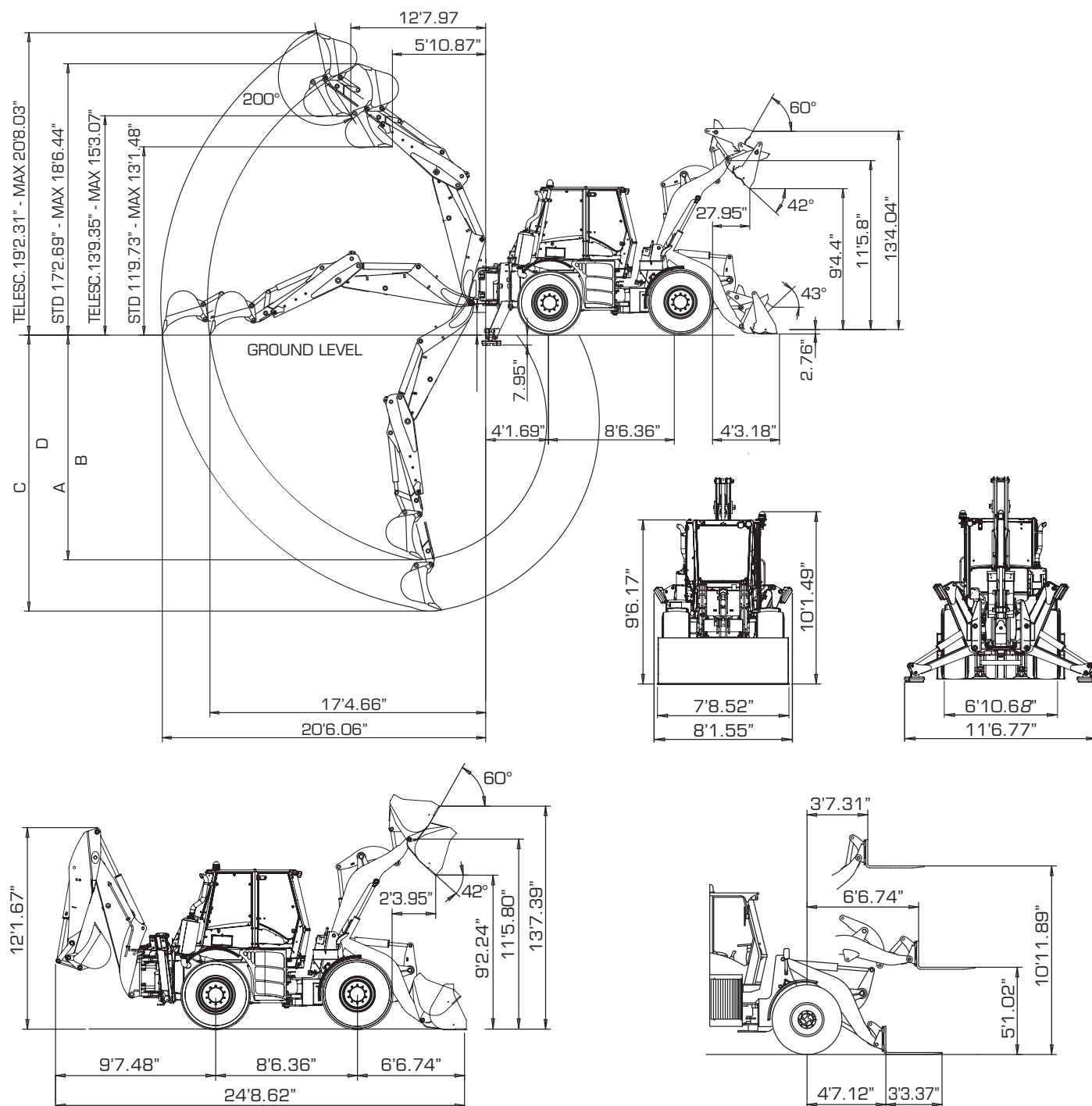
Max lenght in transfer position	ft in	24'8.62"
Max width in transfer position	ft in	8'1.55"
Width across tyres	ft in	6'10.68"
Tracks width	ft in	5'4.96"
Max height (Standard arm)	ft in	12'1.67"
Ground clearance	in	17.72
Max weight	lb	22,000

### Loading bucket (lb)

Static tipping load, full turn	13,558
Payload (50%)	6,779

### Loading fork (lb) - centre of gravity 19.69"

Static tipping load, full turn	10,692
Payload EN 474-3 (80%)	8,554
Payload EN 474-3 (60%)	6,415
Payload DIN 24094 (50%)	5,344



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