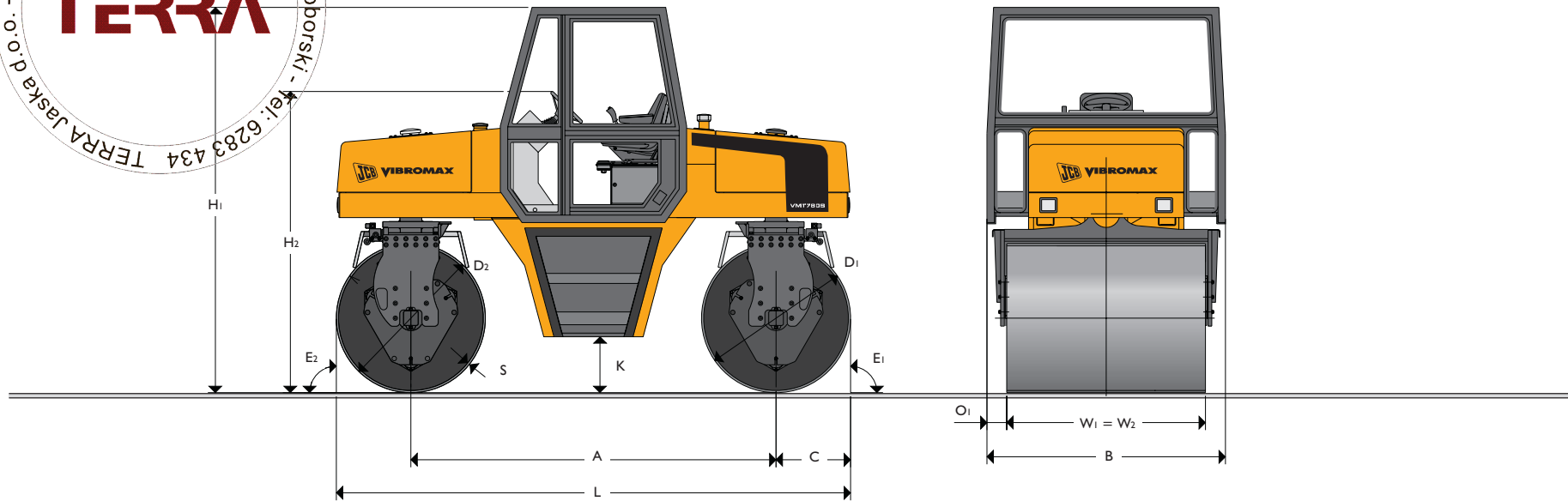




JCB VIBROMAX – COMPACTION EQUIPMENT TANDEM VIBRATORY ROLLER VMT780S



MAX. DRUM WIDTH: 1400mm (55.1in)
MAX. OPERATING WEIGHT: 7600kg (16755lb)



STATIC DIMENSIONS

Dimensions in millimetres (in)		
A	Wheelbase	2840 (112)
B	Overall width	1580 (62.2)
C	Axle to rear face	630 (24.8)
D ₁ =D ₂	Drum diameter	1100(43.3)
H ₁	Total travel clearance	2270 (89.4)
H ₂	Height to top of seat	3020 (119)
K	Ground clearance	300 (11.8)
L	Total travel length	4100 (161)
O	Overhang	90 (3.5)
S	Drum thickness	15 (0.6)
W ₁ =W ₂	Drum width	1400 (55.1)
E ₁ =E ₂	Front / rear departure angle	84°

OPERATING DATA

Operating weight	kg (lb)	7600 (16755)	
Operating weight (max.)	kg (lb)	8600 (18960)	
Operating axle load front / rear	kg (lb)	3800 (8377) / 3800 (83770)	
Operating linear load front / rear	kg/cm (lb/in)	27.1 (152) / 27.1 (152)	
Vibration stage		1	2
Exciter frequency	Hz (vpm)	33.3 (2000)	50 (3000)
Nominal amplitude	mm (in)	0.9 (0.035)	0.4 (0.016)
Centrifugal force per drum	kN (lbf)	45.5 (10228)	43 (9666)
Centrifugal force / drum width	N/cm (lbf/in)	325 (186)	307 (175)
Travel speed (forward/reverse) max.	km/h (mph)	9 (5.6)	
Drum offset up to	mm (in)	900 (35.4)	
Steering lock angle	degrees	±20	
Vertical oscillation	degrees	±5	
Inner turning radius	m (in)	3 (118)	
Gradeability up to	degrees (%)	16.5 (30)	



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ENGINE

Four-cylinder, naturally aspirated, four-stroke diesel engine.

Make		Deutz
Model		F 4M 2011
Piston displacement	cm ³ (in ³)	3108 (190)
Performance – DIN 6271	kW (hp)	42.5 (58)
Operating speed	min ⁻¹ (rpm)	2300 (2300)
Starting device		Electric motor
Air cleaner		Dry cartridge plus safety cartridge
Fuel filter		Cartridge
Fuel consumption	l/h (US gal)	10.5 (2.8)

PROPULSION

Infinitely variable hydrostatic direct drive on all four drum segments.

EXCITER DRIVE

Electrically controlled hydrostatic direct drive on both drums for double vibration or vibration rear drum only.

EXCITER

Single-shaft circular exciter with overturning weights.

STEERING SYSTEM

Servo-assisted double yoke steering with drum offset and oscillation facility.

SERVICE CAPACITIES

Fuel	litres (US gal)	110 (29)
Engine oil (engine)	litres (US gal)	14 (3.7)
Gear oil (each exciter)	litres (US gal)	2.5 (0.7)
Hydraulic oil	litres (US gal)	85 (22.4)
Sprinkler water, front	litres (US gal)	370/370 (98/98)

BRAKING SYSTEM

Service brake: Hydrostatic propulsion system.
Parking brake: Hydrostatically released multi-disk brake on drum and wheel motors.

ELECTRICAL SYSTEM

Voltage	V	12
Battery capacity	Ah	88
Alternator	A	max. 55

INDICATORS AND SWITCHES

Hour meter, fuel, engine temperature, engine oil pressure, battery charging current, hydraulic oil and air filter condition, parking brake, neutral position control lever, speed range selection, frequency, lighting, sprinkling system, neutral position rear drum.



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