

FEATURE		Unit	M642 2WS TR5
Engine Manufacturer and Model			Perkins 904J-E36TA
Engine Standard			TR5
Engine Net Power		KW	74,4 kW / 2400 RPM
Engine Maximum Torque		Nm	430Nm @1500 RPM
Engine Power Curve			See Sheet Engine Power Curve
Aspiration			Turbocharged
Engine Displacement			3,621
Compression Ratio			0,7
Number Of Cylinders			4
Cylinder Bore		mm	98
Stroke		mm	120
Rated Engine		Rpm	2200
Air Filter			Dual elements, two stage, dry type
Cold Start			Pre-Heated
Transmission Manufacturer			Carraro
Transmission Model			TLB2 CD
Gear Selection			Powershift
Torque Converter Ratio			2.64 / 1
Rear PTO / Front PTO			0.804
Max Input Power		KW	81 @ 2200 Rpm
Max Input Torque		Nm	750
Peak Input Speed		Rpm	3000
Speed Gear			4 Fwd + 4 Rev
Transmission Ratio			1. gear 5.533
			2. gear 3.359
			3. gear 1.533
			4. gear 0.811
Max Speed On Road		km/h	40
Tyres Front			405/70-20" 12PR
Tyres Front (Optional)			Not Available
Tyres Rear			16-9-28" 14PR
Rear Axle lock system			Equipped with differential lock on rear axle



	Front axle Static Load	N	225000
	Front axle Dynamic Load	N	90000
	Rear axle Static Load	N	187500
	Rear axle Dynamic Load	N	75000
	Service Brake Type		Hydraulic Boosted Twin Ø 31.75 Compensating self Bleed Master Cylinder
	Boost Ratio		5:1
	Accumulator supported for emergency braking		Available
Brake	Max Operating Pressure	bar	43
	Oil Displacement brakes actuation	cc	16+16
	Max Braking Torque	Nm	46700
	Park Brake Type		Rear axle input, Manually adjusted Caliper, cable
	Hydraulic pump Type		Axial Piston type with variable displacement
	Hydraulic pump Flow rate	l/min	158,4 l/min @2200 RPM (Casappa)
	Piston Pump, Power Mode	Nm	245
	Piston Pump, Eco Mode	Nm	180
	Loader control type		Pilot oil controlled by joystick handle
	Backhoe control type		Pilot oil controlled by joystick handle
	Hydraulic system type		Closed Center (Rexroth TSX14)
Hydraulic System Option1	Auxiliary Valve		1 section (Rexroth) and optional 2. auxiliary section
	System Relief Pressure	bar	240
	Steering Type		Full Power Hydrostatic, Priority Valve
	Emergency Steering		Not Available / Optinal
	Retrun Line Filter	µ	10
	Suction Line Filter	µ	75
	Battery	A/h	135
	Optional Battery	A/h	NA
Electric	Alternator	A	120
	Loader lift capacity at maximum height (kg)	kg	3500
	Loader arm Breakout Force (kgf)	kgf	5905
Loader Performance	Loader bucket Breakout Force (kgf)	kgf	7734
	Backhoe Arm Breakout Force (retracted)	kgf	3461
	Backhoe Arm Breakout Force (extended)	kgf	2506

	V	Dump angle	°	43
	M	Dump height	mm	2800
	N	Load over height	mm	3328
	O	Loader hinge pin height	mm	3481
	U	Roll back at ground	°	44
	T	Dig depth	mm	124
	Q	Reach at ground (toe plate horizontal)	mm	1317
	H	Total kingpost travel	mm	1125
	W	Rear wheel centre to ground	mm	643
	L	Front wheel centre to ground	mm	496
Turning Diameter		Turning Diameter Definition (braked)	m	8075
		Turning Diameter Definition (unbraked)	m	10000
		Fuel Tank	lt	140
		Total Hydraulic System Volume	lt	145
		Hydraulic Tank Volume	lt	62
		DEF Tank	lt	18
Service Refill Capacities		Engine Cooling System	lt	17
		Engine Oil with Filter	lt	10,5
		Differential Oil of the Front Axle	lt	7,5
		Differential Oil of the Rear Axle	lt	16
		Front axles pins	lt	2 x 0,80
		Rear axles pins	lt	2 x 1,5
		Transmission	lt	21
Operating Weight		Operating Weight – Extended dipper	kg	9000
		Operating Weight – Fixed dipper	kg	8720

