WCM WORLDWIDE CONSTRUCTION MACHINERY PTY LTD.

FT254 | FT404 | FT824

WORLDWIDE CONSTRUCTION MACHINERY

FT404

GENERAL TECHNICAL SPECIFICATIONS

Model	FT404
Type	4 x 4 (4WD)
Rated traction force kN	12
Overall Dimensions	
Length (with front ballast)	3513
Width	1750
Height (to the exhaust vent)	2130
Wheel base (mm)	1924
Front wheel tread (mm)	1250
Rear wheel tread (mm)	1250~1450
Min. ground clearance (mm)	325
Applicable ground	375
Turning radius: m (one side braking)	3.5
(no braking)	4.2
Complete tractor weight (kg)	
Structure weight	1890
Minimum operational weight	2080
Ballast Weight (kg)	
Front	144
Rear	360
Speed - Theoretical speed: km/h (normal gear / creep gear)	
F I	2.43 / 0.32
F II	3.53 / 0.46
F III	4.81 / 0.63
F IV	7.42 / 0.97
F V	10.45 / 1.36
F VI	15.16 / 1.98
F VII	20.69 / 2.70
F VIII	31.88 / 4.16
Parameters	
R I	3.61 / 0.47
R II	5.23 / 0.68
R III	7.14 / 0.93
R IV	11.01 / 1.44
ENGINE	
Engine model	SL3105BT
Engine type	Three cylinder, vertical type, water cooling, four stroke diesel engine
Bore x strokes (mm)	105 x 110
Rated power (kW)	29.4
Rated speed (r/min)	2200
Fuel consumption (g/kWah)	<243
Engine oil consumption (g/kWah)	<2.04
TRANSMISSION SYSTEM	
Clutch	10 inch dry type single or double action
Gearbox	2 axis 2 x (2+1) gear group type, sleeve gear shifting
Central transmission	Helical bevel gear
Differential gear	Double planetary wheels, closed type
Differential lock	Pin type
Final transmission	Planetary wheel type
Front driving axle	Whole sealing bevel gear type
Transfer case assembly	Straight teethed cylindrical gear
FRONT AXLE, STEERING BRAKE	
Frame type	No frame
Front axle type (front driving axle)	Bevel gear reducer tri-section separable type axle housing
Front axle swinging angle of	+ 11°
Front wheel toe-in (mm)	4 ~ 11
Front wheel chamber	3°
King pin inclination	8°
Front wheel tyre size	8.3 - 20
Rear wheel tyre size	12.4 - 28 / 14.9 - 24
Front wheel tyre pressure (kPa)	90 ~ 120
Rear wheel tyre pressure (kPa)	80 ~ 120
Steering type	Inner feedback hydrostatic steering
Brake type	Double wet disc

WORKING EQUIPMENT	
Lifter type	Semi-separating type
Hydraulic pump tyre	CBT-E310FBL3 (left)
Distributor type	Built-in unloading control type
Hydraulic cylinder (diameter x stroke) mm	Single action 80 x 110
System & hydraulic cylinder's safety valve	Gapping damping delivery valve direct action type, and cone valve direct action type
System safety valve adjusted pressure Mpa	16.0 + 0.5
Tilling depth controlling method	Draft position control and floating control
Maximum lifting force at the place 610mm backed from the lower suspending point (kN)	6.7
Lifting hydraulic output adaptor	
Size	M16 x 1.5
Quantity	1
Output flow rate (L/min)	22
Selector valve hydraulic output adaptor	
Quantity	2
Pressure rate (Mpa)	16
Output flow rate (L/min)	50
Type of lifting system	Rear three points linkage
Three point linkage traingle (mm)	460 x 683 + 15
Upper link rod's joint hole diameter (mm)	19.3 – 19.51
Lower link rod's joint hole diameter (mm)	22.4 – 22.73
Power take-off shaft type	Semi - independent
Speed (r/min)	540; 1000
Revolving direction	Clockwise
Shaft extension type and size	Spline type (35 x 6 teeth or 38 x 8) [GB1592-89]
Traction device	
Drawbar diameter (mm)	40
Drawbar height from the ground (mm)	577
AIR BRAKING UNIT (OPTIONAL)	
Type	Air-in brakes
Air cylinder volume (L)	15.8
Air cylinders rated pressure (kPa)	700
Air braking valve type	QFJ - 10/0.63
Air braking valve's working pressure (kPa)	630
ELECTRIC SYSTEM	
Electric system type	12V single line, with negative-pole grounded
Battery	3-Q-135 lead acid battery
Engine	JF131
Starter motor	QD134SX
Starter relay	JD133D
Head light	45/40W double filaments bulbs
Rear light	35W
Horn	Single sound horn
Front turning light	21W
Rear light assembly	Turn light 21W, brake light 21W and width indicating light 10W
Instrument assembly	Tachometer, water tachometer, oil meter
Fuse box	Ten line winding type fuse box
CAPACITIES	
Fuel tank volume (L)	38
Engines sump volume (L)	7
Gearbox, rear axle, transfer case and final drives volume (L)	27
Front driving axles volume (L)	7
Steering volume (L)	0.8
Lifter volume (L)	12
Cooling water volume (L)	9