

SELF-PROPELLED SPRAYER TYMAN-3 SPECIFICATION

DIMENSIONS

LENGTH	275 in. (7000 mm)
WIDTH:	
Narrow wheels (240/90 R42)	94 in. (2400 mm)
Wide wheels (600-55x21 LT)	114 in. (2900 mm)
HEIGHT:	
Narrow wheels	126 in. (3200 mm)
Wide wheels	118 in. (3000 mm)
WHEEL TRACK ADJUSTMENT	78 3/4 in. / 84 2/3 in. / 88 1/2 in. / 90 in. (2000 mm / 2150 mm / 2250 mm / 2288 mm)
CLEARANCE (not less):	
Narrow wheels	20/32 in. (50/80 cm)
Wide wheels	15 in. (37 cm)
LATERAL ANGLE OF THE STATIC STABILITY	30
TURNING RADIUS (NOT MORE)	37 ft. 4 1/5 in. (12 m)
DRY WEIGHT	7,716 LBS (3500 KG)
GROUND PRESSURE:	
Narrow wheels	adjustment: 22,0-29,4 psi (1,5-2,0 at) recommended: 22,0 psi (1,5 at)
Wide wheels	adjustment: 5,8-11,8 psi (0,4-0,8 at) recommended: 5,8-8,8 psi (0,4-0,6 at)

ENGINE

MAKE	KUBOTA Turbo Diesel
POWER	115 hp (86 kW)
DISPLACEMENT	230 cu. in. (3.769 L)
FUEL TANK CAPACITY	21 gal. (80 L)
FUEL CONSUMPTION	26-93 acres per gallon (0,1-0,35 L/Ha)

DRIVETRAIN

TYPE	Mechanical drive
TRANSMISSION	Manual, five-speed with synchronizers on all gears
CLUTCH	Dry single-plate clutch with diaphragm spring and hydraulic drive
WHEEL FORMULA	6x4
AXLES	front steering axle / middle driven axle / rear driven steering axle
SUSPENSION	Independent, pneumatic
TIRES	240/90 R42 / 600-55x21 LT
BRAKE SYSTEM	Dual-circuit with hydraulic drive
BRAKE MECHANISMS	Disc, 12 in. (300 mm)
TOP ROAD SPEED	32 mph (52 km/h)



SPRAYER

CAPACITY	680 gal. (2 600 L)
TANK MATERIAL	Polyethylene
BOOM WIDTH	92-ft. (28 m)
BOOM ADJUSTMENT HEIGHT	20-83 in. (50-210 cm)
BOOM MATERIAL	Aluminum
BOOM LOCATION	Rear
BOOM SECTIONS	5; 7; 9; 11
PUMP	Piston Diaphragm, 8-75,3 gpm (30-285 L/min)
NUMBER OF NOZZLES	48; 56
NOZZLE SPACING	20 in.
COVERAGE PER HOUR	up to 200 acres per hour (80 Ha/hour)
TOP SPRAY SPEED	22 mph (35 km/h)

FAN SPRAYER

DIAMETER OF FAN	32 in. (185 cm)
NUMBER OF BLADES	4
RANGE OF SPRAYING	109-218 yd. (50-100 m) – in the calm
NUMBER OF NOZZLES	20
OPERATING PRESSURE	10 bar

SPREADER

CAPACITY	91,8 cu. ft. (2,6 cu. m)
SPREAD WIDTH	33-92 ft. (10-28 m)
TANK MATERIAL	Stainless steel
COVERAGE PER HOUR	up to 200 acres per hour (80 Ha/hour)
TOP SPREAD SPEED	22 mph (35 km/h)

MULTI INJECTOR

WIDTH	21 ft. (6,3 m)
NUMBER OF DISCS	18
NEEDLES PER DISC	12
TOP INJECTION SPEED	9 mph (15 km/h)

CONVERTING TIME – 4 HOURS

COMPARISON OF TUMAN-3 WITH OTHER SPRAYERS

MODEL	Weight LBS / KG	Tank capacity gal. / L	Weight / Tank capacity KG/L / LBS/gal.	Fuel consumption acres per gallon / L/Ha
Tuman 3	7,716 / 3 500	687 / 2 600	1,3 / 11,2	26-93 / 0,1-0,35
Hagie DTS10	20,200 / 9 160	1000 / 3 785	2,4 / 20,2	Less than 15 / More 0,6
Challenger RG700	19,500 / 8 850	700 / 2 650	3,3 / 27,9	
Challenger RG900	29,500 / 13 380	900 / 3 400	3,9 / 32,8	
Case Patriot 2250	21,030 / 9 540	660 / 2 500	3,8 / 31,9	
Case Patriot 3240	23,480 / 10 650	800 / 3 030	3,5 / 29,4	
New Holland SP300R	30,900 / 14 016	1000 / 3 785	3,7 / 30,9	
Apache AS730	19,700 / 8 940	750 / 2 840	3,1 / 19,7	

MODEL	Ground pressure PSI / AT	Power HP / kW	Power to weight ratio HP/t / kW/t	Sprayer	Spreader	Injection tools	Fan sprayer	Seeder
Tuman 3	5,8-29,4 / 0,4-2,0	115 / 86	32,9 / 24,6	●*	●	○	○	○
Hagie DTS10	16,2-44 / 1,1-3,0	225 / 167	24,6 / 18,1	●	○	○	X	X
Challenger RG700		173 / 127	19,35 / 14,3	●	X	X	X	X
Challenger RG900		280 / 209	20,9 / 15,4	●	X	X	X	X
Case Patriot 2250		175 / 131	18,3 / 13,7	●	X	○	X	X
Case Patriot 3240		250 / 187	23,5 / 17,5	●	X	○	X	X
New Holland SP300R		300 / 224	21,4 / 16,0	●	○	○	X	X
Apache AS730		173 / 127	19,4 / 14,3	●	X	X	X	X

● – standard; ○ - option.

