

HERCULES

160^{EXPORT}



SAME

HERCULES 160

EXPORT

Technical data

Engine

Type	SAME 1056 P turbo-charged	Piston displacement	380.21 cu. ins. (6231 cm ³)
Cycle	Diesel	Compression ratio	17:1
Strokes	4	Max. horsepower HP-DIN/kW	160/117.6
Injection	direct	Max. power ratio	2200 r.p.m.
Number of cylinders	6	Cooling system	air and oil
Cylinder arrangement	vertical, in line	Lubrication	forced
Bore	4.133 ins. (105 mm)	Injection pump	in line, immersed type (2)
Stroke	4.724 ins. (120 mm)	Air filter	desert type, dry
		Silencer	vertical

Transmission clutch: Single dry plate made with «cermetallik» inserts. Mechanically operated by foot pedal.

P.T.O. clutch: Fully independent. Hydraulically actuated. 7 Oil-immersed discs made of sintered-friction material.

Transmission: Fully synchronized: 12 forward speeds, 4 reverse. Gear shift lever fitted with safety interlock device preventing engine from starting when gears are engaged.

Differential lock: Mechanically operated (foot pedal). Automatic disengagement upon pedal release.

Service brakes: Hydrostatically operated oil-immersed disc (6 per side) brakes made of sintered material, located on final drive shafts.

Parking brake: Independent mechanical control operating the service brakes.

Steering: Hydrostatic with 2 jacks (1 per side).

Front wheel drive: With central differential and direct central drive shaft. Planetary reductions in wheel hubs.

Power take Off (P.T.O.)

- Two propeller shafts.
- Independent 540 r.p.m., 6 spline 1 3/8" dia. P.T.O. stub (interchangeable with 1 3/4").
- Independent 1000 r.p.m., 21 spline 1 3/8" dia. P.T.O. stub.

Automatic control unit (A.C.U.): Fully independent system. Lower link depth control sensing. Position, float and depth control. Two assistor rams, Ø 50 mm. Max. Lifting capacity: 11000 lbs. (5000 Kg.). SAME original piston radial pump giving: 10.5 US Gals./min. (40 l/min.). Independent pump capacity 15.8 US Gals (60 l/min). Hydraulic circuit setting pressure 2489 psi (175 Kg/cm²). Cat. II 3 point linkage with automatic hitch and telescopic stabilisers. Three 2-way auxiliary distributors (total 6-ways).

Standard tyres

4-wheel drive 16.9/14-30 front wheels 20.8-38 rear wheels

Body: Driver's cabin isolated on rubber mountings, approved according to OECD norms. Suspended pedals. Soundproofing, athermic windows, forced ventilation, heating. Side gear shift levers. All hydraulic levers on console on driver's right. Driver seat with arms (Sablé) and safety belt. Fuel tank capacity: 63.4 US Gals (240 l.) (two tanks under the platform on sides).

Electrical equipment: 12 V. 660 Watt alternator with built-in regulator. 176 amp./h battery, 776 amp. quick discharge. 4 h.p. starter. Front grill incorporated read lamps. Side lights and tail lights. Swinging rear headlight, 2 rear beams on cab's roof for night work.

Towing components: Front clevis. Drawbar with clevis attachment. SAE cat. «A» oscillating.

Optional extras: 15.5 m.p.h. (25 Km/h) max. speed gear box. • Air conditioning. • Front ballasts. • Rear continuous track variation drive shafts. Superreducer: 24 forward + 8 reverse speeds. Self-locking, no-spin front differential.

Performances (speeds)

Forward speeds in M.P.H. (Km/h) at 2200 r.p.m.

Standard gear	Super-reduced gear	18.6 M.P.H. (30 km/h) VERSION 20.8-38	15.5 M.P.H. (25 km/h) VERSION 20.8-38
1 R	1 R	0.678 (0,421)	0.592 (0,368)
	2 R	0.840 (0,522)	0.733 (0,455)
	3 R	1.029 (0,639)	0.898 (0,558)
	1 L	1.391 (0,864)	1.215 (0,755)
	2 L	1.723 (1,071)	1.504 (0,935)
	3 L	2.111 (1,312)	1.843 (1,145)
2 R	1 N	2.477 (1,539)	2.163 (1,344)
	2 N	2.639 (1,640)	2.304 (1,432)
3 R	3 N	3.067 (1,906)	2.678 (1,664)
	3 N	3.268 (2,031)	2.853 (1,773)
1 L	1 V	3.758 (2,335)	3.281 (2,039)
	1 V	4.004 (2,483)	3.495 (2,172)
2 L	2 V	5.082 (3,158)	4.437 (2,793)
	2 V	5.415 (3,365)	4.727 (2,937)
3 L	3 V	6.293 (3,910)	5.494 (3,414)
	3 V	6.704 (4,166)	5.853 (3,633)
1 N		7.709 (4,790)	6.730 (4,182)
		8.214 (5,104)	7.171 (4,456)
2 N		9.639 (5,989)	8.415 (5,229)
		11.935 (7,416)	10.420 (6,475)
3 N		14.622 (9,086)	12.766 (7,932)
		19.775 (12,288)	17.264 (10,727)
1 V		24.485 (15,214)	21.376 (13,282)
		29.997 (18,639)	26.188 (16,272)
2 V			
3 V			
RM R	RM R	0.835 (0,519)	0.729 (0,453)
	RM L	1.712 (1,064)	1.495 (0,929)
RM L	RM N	3.049 (1,895)	2.662 (1,654)
	RM V	3.248 (2,018)	2.836 (1,762)
RM N		6.254 (3,886)	5.460 (3,393)
		6.664 (4,141)	5.818 (3,615)
RM V		11.863 (7,371)	10.357 (6,936)
		24.337 (15,122)	21.247 (13,202)

Dimensions (with 20.8-38 rear tyres)

	(A)	ins. (mm)	173.22 (4400)
Overall length (without linkage)			
Overall length (with linkage)	(A)	ins. (mm)	184.25 (4680)
Overall width	(B)	ins. (mm)	94.48 = 110.23 (2400 ÷ 2800)
Overall height (with safety frame)	(C)	ins. (mm)	110.23 (2800)
Overall height (with safety cab)	(C)	ins. (mm)	113.38 (2880)
Engine hood height	(D)	ins. (mm)	70.86 (1800)
Ground clearance	(E)	ins. (mm)	21.65 (550)
Wheel base	(F)	ins. (mm)	112.48 (2857)

Front track:

– minimum	ins. (mm)	70.86 (1800)
– normal	ins. (mm)	70.86 (1800)
– maximum	ins. (mm)	83.86 (2130)

Rear track:

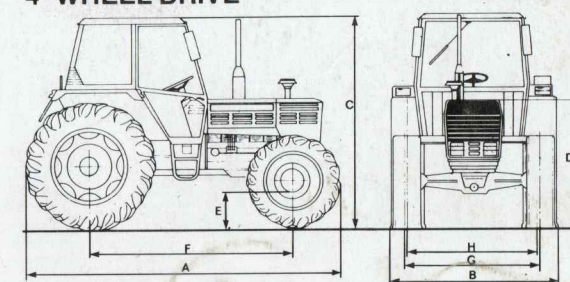
– minimum	ins. (mm)	70.86 (1800)
– normal	ins. (mm)	70.86 (1800)
– maximum	ins. (mm)	86.61 (2200)

Weight (in running order):

– with safety cab	lbs. (kg)	13.558 (6150)
– without ballast		

Minimum turning radius (with brakes)	ins. (mm)	177.16 (4500)
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4-WHEEL DRIVE



Technical data and illustrations are approximations only. SAME, in its effort to give you the product that you require, reserves the right to update this information at any time without notice.

Our tractors are lubricated with AGIP products.



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