

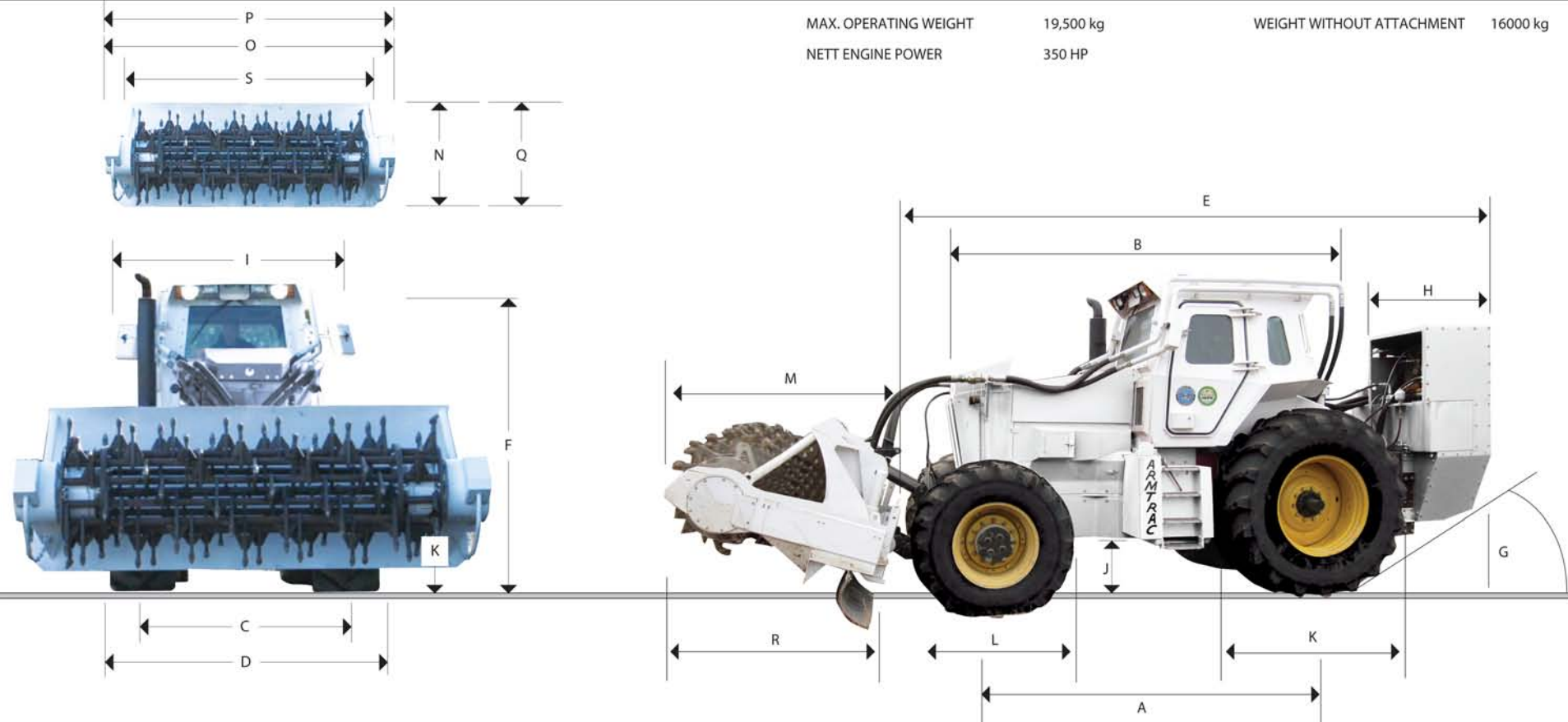
Armtrac 100-350



MAX. OPERATING WEIGHT 19,500 kg

WEIGHT WITHOUT ATTACHMENT 16000 kg

NETT ENGINE POWER 350 HP



STATIC DIMENSIONS

Dimensions in millimetres	Armtrac 400
A Wheel base on ground	3078mm
B Undercarriage overall length	5288mm
C Wheel gauge	2700mm
D Width over wheels	2700mm
E Transport length overall length to front of carriage	7029 mm
F Transport height	4260mm
G Under carriage height	500mm
H Under carriage to rear chassis	1000mm
I Width of superstructure	2000mm
J Ground clearance	750mm
K Lift Height of Header	1000mm

Dimensions in millimetres	Armtrac 400
L Wheel front	600/70 R30
M Tiller Length	1850 mm
N Tiller Height	1500 mm
O Tiller width	3670 mm
P Flail length	2000 mm
Q Flail height	2100 mm
R Flail width	3670 mm
Flail weight	2800 kg
Tiller weight	3500kg
S Tiller and flail clearance path	3000 mm

Armtrac 100-350



DIESEL ENGINE

Latest technology and advanced design provides low fuel consumption, reduced noise, high torque and power output, total reliability and minimal maintenance. Two-stage, dry type air filter with primary and safety elements.

Machine Model	100-350
Type	Six cylinder, four stroke
	Turbocharged 4 valve per cylinder head, air to air aftercooled
Bore	114 mm
Stroke	145 mm
Piston displacement	8.91
Compression ratio	17.8:1
Cylinder sleeves	Wet type, removable
High engine idle	2240 RPM
Rated engine speed	2200 RPM
Low engine idle	900 RPM
Fuel consumption	25 to 35 litres per hour
Working ambient temperatures	55°

FRONT AXLE DIFFERENTIAL AND PLANETARIES-MECHANICAL FRONT DRIVE

Axle type Limited slip hypoid with planetary reduction hub
Standard 4 pin 12 bolt engages with spring pressure clutch

BRAKES

Type Hydraulic, power-assisted, self-adjusting multiple wet plate type differential brakes
Park Brake System
Park brake / Spring applied multiple disc actuated by transmission control lever

LUBRICATION SYSTEM

Oil pressure 296-372 kPa[43-54 psi] with engine warm and operating at rated speed

FUEL SYSTEM

Fuel injection pump
Type Electronic
Make Cummins CCR
Fuel injectors Bosch electronically controlled

AIR INTAKE SYSTEM

Type Dry type, air induction system two stage

COOLING SYSTEM

Type Pressure system, thermostat controlled bypass, impeller type pump
Radiator Aluminum furnace brazed
Fan drive type Cleanfix reversible

TRANSMISSION

Standard 18 speed full power shift with hydraulic actuated clutches
Shift control Electronically controlled switch actuated
Oil cooler Transmission, hydraulic, steering and brake fluid
4 wheel drive Electrically selected from 4 wheel drive to 2 wheel drive

PARK BRAKE SYSTEMS

Park brake Spring applied multiple disc actuated by transmission control lever

POWER STEERING

Type Priority on demand from axil piston pump
Steering pump Hydraulic type
Steering cylinder Double action cylinder
Front Axel Steering only (2 wheel steer)

REMOTE HYDRAULICS SYSTEM

Pump Axial piston, pressure and flow compensated closed centre
Type remote valve
All sections load check B port
Raise variable flow control for each suction
175 l/min [46 US gpm]
22400 kpa [3250psi]
Couplings ISO and SAE compatible fast removal break away type
System flow 2200 RPM

POWER TAKE OFF 1

PTO type Independent of transmission
Clutch type Hydraulic actuated
Rotation Clockwise from rear of tractor
Output shaft size [if required] 540 RPM 6 splines
1000 RPM 21 splines
1000 RPM 20 splines

Armtrac 100-350



CAB DELUXE

Quiet and comfortable cab, constructed of 10mm armoured steel and 37 mm polycarbonate tinted glass, conforming to 7.6 NATO ball ROPS ISO 3471 and FOPS ISO 3449. Front window bars and opening roof escape hatch. Adjustable deluxe suspension seat c/w 4 point safety harness. Full air-conditioning and heating system. Wipers, screen wash and heated screen demister. Audio-visual warning system for coolant temperature, water fuel, engine oil, fuel gauge and clock. Single button gear shift, adjustable steering column with stalk bar, throttle and brake. Noise Level 85.0db(A)

18 SPEED OR 23 SPEED CREEP TRANSMISSION

Ground Speed MPH

	Group 47 480/80R46 18.4-R46	Group 46 420/80R46 16.4-R46
Creep 1	0.57	0.54
Creep 2	0.76	0.72
Creep 3	1.00	0.95
Creep 4	1.33	1.27
Creep 5	1.76	1.67
Forward 1	1.97	1.87
Forward 2	2.26	2.14
Forward 3	2.60	2.47
Forward 4	2.98	2.83
Forward 5	3.42	3.25
Forward 6	3.92	3.73
Forward 7	4.58	4.35
Forward 8	5.25	4.99
Forward 9	6.06	5.75
Forward 10	6.95	6.60
Forward 11	7.97	7.56
Forward 12	9.14	8.68
Forward 13	11.39	10.81
Forward 14	13.06	12.40
Forward 15	15.06	14.30
Forward 16	17.28	16.41
Forward 17	19.82	18.82
Forward 18	22.73	21.59
Creep rev 1	0.82	0.78
Creep rev 2	1.92	1.82
Reverse 1	2.83	2.69
Reverse 2	3.25	3.08
Reverse 3	6.59	6.26
Reverse 4	7.56	7.18

FLAIL AND TILLER DRIVE HYDRAULICS

Operation@1900 rpm	Relief setting	Flow
Flail and tiller drive	350 bar	350 l/min
Radiator Ram air cooling system	100 bar	30 l/min
Oil cooler	100 bar	30 l/min

Filtration	
Intake	90 micron
Main return line	25 micron paper elements
Drive lines	10 micron

Service capacity	Type	Capacity
Water coolant	00Agro Flue	26.5 litres
Engine oil	SAE 15W40	23 litres
Axle front	SAE 85w/140	15.3 litres
Axle Differential	SAE 85w/140	6.5 litres
Hydraulic oil tractor	t-t trans SAE 10W/20	172 litres
Hydraulic oil flail and tiller drive	SAE 20 [ISO 68]	400 litres

FLAIL AND TILLER CLEARANCE CAPACITY

Tools	Tiller	Flail
Diameter	Picks 66	Chains 76
Rotation speed - variable to	Diameter 1200 mm	2200 mm
	400 rpm	400 rpm

Clearance per day	Tiller	Flail
Light soil	21,000 sqm/day	21,000 sqm/day
Medium soil	17,000 sqm/day	17,000 sqm/day
Heavy soil heavy vegetation	12,000 sqm/day	12,000 sqm/day

Explosives charge tested to anti tank 8.8 and fragmentation mines. Damage: chains and picks replaced only
Depth control visual light indicator and engine management system
Beat pattern to 10mm square



A GLOBAL COMMITMENT TO QUALITY

Armtrac's total commitment to its products and customers has helped it grow from a one-man business into Britain's largest privately owned manufacturer of de-mining and construction machines.

By making constant and massive investments in the latest production technology, the Armtrac factory has become one of the most advanced in the demining world.

By leading the field in innovative research and design, extensive testing and stringent quality control, Armtrac machines are becoming renowned all over the world for performance, value and reliability.

With global sales and service network of over 40 distributors, the company exports over 70% of its production to all five continents.

Through setting the standards by which others are judged, Armtrac has become one of Britain's most impressive success stories.

