Specifications 743 and 743 FWD

(* applicable only to 743)
(**applicable only to 743 FWD)

Engine

Make and model	International D-239	
Type	4 cyl. direct start, direct injection diesel	
Max. output, kW (hp)	49	(66)
Rated speed, 1/s (rev/min)	38,3	(2300)
Max. torque, Nm/kgm (ft, lbs)	235/24	(173)
at speed, 1/s (rev/min)	26,7	(1600)
Bore, mm (in)	98,4	(3.875)
Stroke, mm (in)	128,5	(5.06)
Displacement, cm^3 (in^3)	3911	(239)

Electrical System

Battery, dry precharged	12 V, 88 Ah
Alternator	14 V, 33 A

Clutch

Dual with cerametallic linings

Diameter, mm (in)	280	(11)

Transmission

8 + 4 synchronized transmission (25 km/h or 30 km/h)
16 + 8 synchronized transmission (25 or 30 km/h) with speed reducer, or
16 + 8 synchronized transmission (25 or 30 km/h) with Super creep speed,

Capacities

Fuel tank, l (gal)	74	(19.5)
Cooling system, l (gal)	19,5	(5.2)
Crankcase, l (gal)	9	(2.4)
Transmission case, l (gal)		
Standard	42* (11.1*)	45,5** (12**)
Hydraulic system, l (gal)	17,5	(4.6)

Weight

w/standard equipment,

with cab, kg	3115*	3510**
with cab, lb	6867*	7738**
without cab, kg	2880*	3270**
without cab, lb	6349*	7209**

Dimensions	743*	
Length, mm (in)	3770	(148.4)
Width, mm (in)	2040	(80.3)
Height, steering wheel, mm (in)	1772	(69.8)
Wheelbase, mm (in)	2220	(87.4)
Ground clearance, front axle, mm (in)	550	(21.7)
Tread, front, mm (in)	1443-1743	(56.8-68.6)
rear, mm (in)	1577-1979	(62.1-77.9)

Dimensions	743 FWD**	
Length, mm (in)	3810	(150)
Width, mm (in)	2040	(80.3)
Height, steering wheel, mm (in)	1825	(71.8)
Wheelbase, mm (in)	2186	(86.1)
Ground clearance, front axle, mm (in)	415	(16.3)
Tread, front, mm (in)	1645-1813	(64.8-71.4)
rear, mm (in)	1577-1979	(62.1-77.9)

Regular Equipment

Accelerator
foot
Air Cleaner
dry type with safety element
Brakes
foot; double disc dry type; dual pedal with safety latch, hydraulically actuated; hand: independently operated band type;
Differential Lock
foot operated;
Drawbar
swinging, with clevis;
Engine
D-239 4 cyl. direct injection diesel (53 kW/71 max. engine hp);
Electrical Equipment
one 12 V, 88 Ah battery, dry precharged; 14 V 33 A high-capacity cranking motor alternator;
Fenders
semi crown type
Fuel Filter
dual spin-on type with water seperator
Front Axle
straight, adjustable, 457 mm (18 in) clearance*
Front Axle Drive
with differential**
Hydraulics
fully live EXACT hydraulics; draft and position control; lower link sensing; cat. II three point linkage, outside telescopic side supports;
Instruments
tractormeter incl. hourmeter, tachometer and indicating engine and p.t.o. revolutions; combimeter incl. coolant thermometer, fuel gauge and warning lamps for alternator charging, oil pressure, headlamp beam and directional signal lights for tractor and two trailers;
Lights
2 head, 2 tail, 2 side and 2 reflectors;
Muffler
vertical;
Power Take Off
fully independent, 9 1/s (540 rev/min); ground speed**
Seat
De-Luxe, height and length adjustable;
Steering
mechanical*; hydrostatic**
Wheels
front: 4.00 E x 16 with 6.00 x 16,6 ply tires*; 8.00 x 24 non adj. with 9.5/9 x 24, 6-ply tires**;
rear: W 11 x 36 with 12.4/11 x 36, 6-ply R 1 tires*; W 15 L x 30 adj. with 16.9/14 x 30, 6-ply R 1 tires**;

Optional Tires

Front:
7.50 x 16, 6-ply
7.50 x 18, 6-ply
(with and without tubes*)
11.00 x 16, 6-ply**
12.4/11 x 24, 6-ply**
Rear:
13.6/12 x 36, 6-ply R 1*
13.6/12 x 38, 6-ply R 1 and R 2
16.9/14 x 34, 6-ply R 1 and R 2
16.9/14 x 30, 6-ply R 1 and R 2
18.4/15 x 30, 6-ply R 1 and R 2
14.9/13 x 38, 6-ply R 1*

Special Equipment

Axle, Front and Steering*
adjustable, with hydrostatic steering; non-adjustable, with mechanical or hydrostatic steering;
Axle**
Heavy duty
Cab
Iso-mounted safety cab „Comfort 2000"
Differential**
Self-locking
Electrical Equipment
12 V, 110 Ah battery, dry precharged; directional signal lights with warning flasher system, position and tail light, brake lights
Fenders, Rear Wheel
crown-flat top, with or without OECD approved safety frame;
Power Take Off, Rear
9 1/s (540 rev/min) and ground speed*; 8 + 16.7 1/s (540 + 1000 rev/min)*; 8 + 16.7 1/s (540-1000 rev/min) and ground speed; (shafts 1000 rev/min optionally in serrated or splined version)
Seats
driver seat, Super De-Luxe version;
Auxiliary Valves
single and double acting; Break-away Couplings – for auxiliary valves;
Drawbars
short cross bar type; quick coupler for use with three point hitch
Dust Sealings
for dual clutch
Splash Shields
front
Rear Working Light
for semi-crown and crown-top flat fenders
Weights
front bolster weight, 180 kg (397 lb); suitcase weight, single unit, 38 kg (84 lb); centre part of 3 suitcase weights with draw clevis; retaining rod for suitcase weights; rear wheel weights 120 kg (265 lb); rear wheel weights 240 kg (530 lb);
Miscellaneous
trailer hitch, height adjustable; rear view mirror; co-driver seat;
drive shaft safety shield, front + rear.

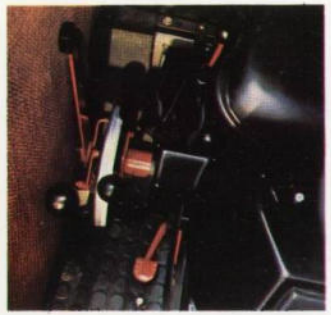
Speeds with std rear tires 16.9-30, 30 km/h version

	Speed	Low	High	Reverse
8 + 4, km/h	1	1.8	6.2	3.6
	2	3.1	10.7	6.2
	3	5.2	18.0	10.4
	4	8.0	27.9	16.1
w/speed reducer engaged	1	1.5	5.0	2.9
	2	2.5	8.8	5.1
	3	4.3	14.8	8.5
	4	6.6	22.8	13.2
w/super creep speed enganged	1	0.56	1.93	1.12
	2	0.97	3.37	1.95
	3	1.53	5.66	3.27
	4	2.52	8.75	5.05

GER 42-J/E

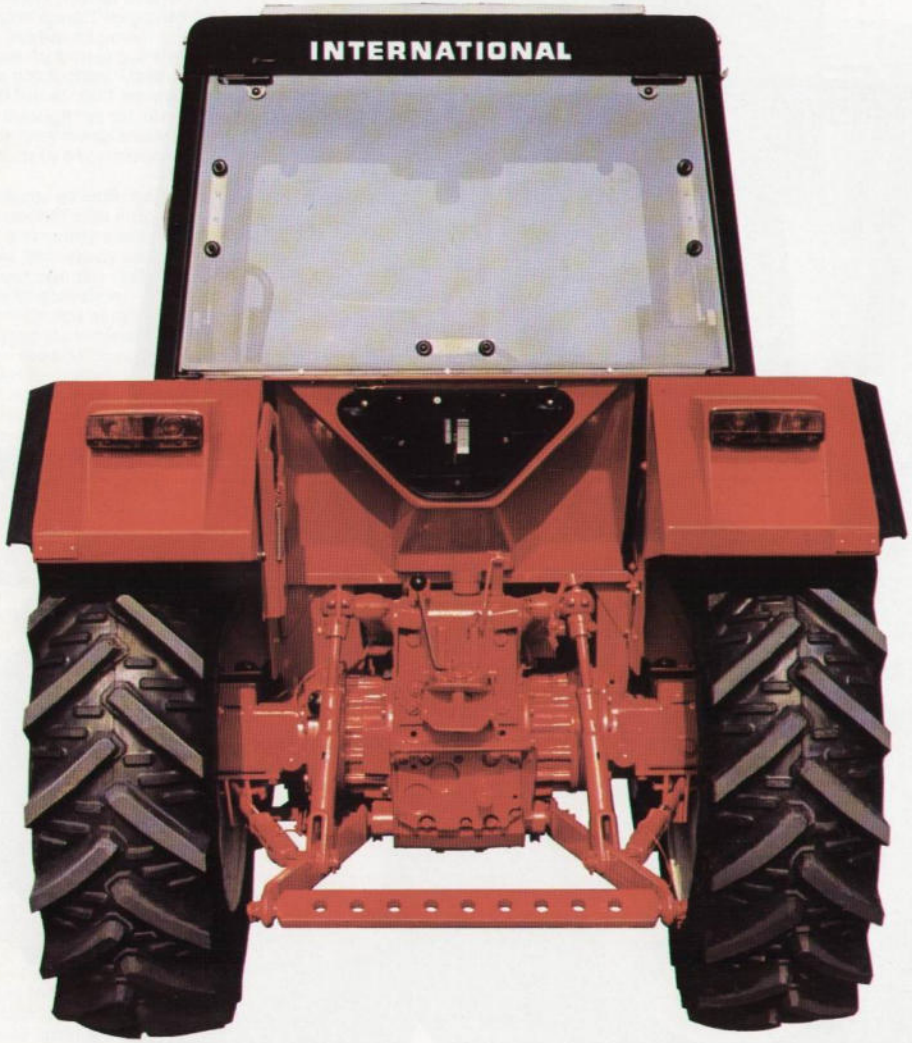
743

International 743 is a versatile, all-purpose tractor power-packed to handle with ease all field, chore or transport operations in the 70/80 hp class. It has a reputation for exceptional performance as a result of the constant attention International engineers pay to improving overall reliability, economy, and durability.
The D-239 diesel engine has been time-tested and proven in a multiple of applications throughout the world under every conceivable condition. Three choices of transmissions for maximum versatility . . . a responsive set-and-forget hydraulic system . . . independent power take-off . . . all-seasons COMFORT 2000 cab . . . two + four wheel drive versions PLUS excellent handling maneuverability.
Before you take on another tractor test-drive the 743 you'll enjoy and appreciate all its features.

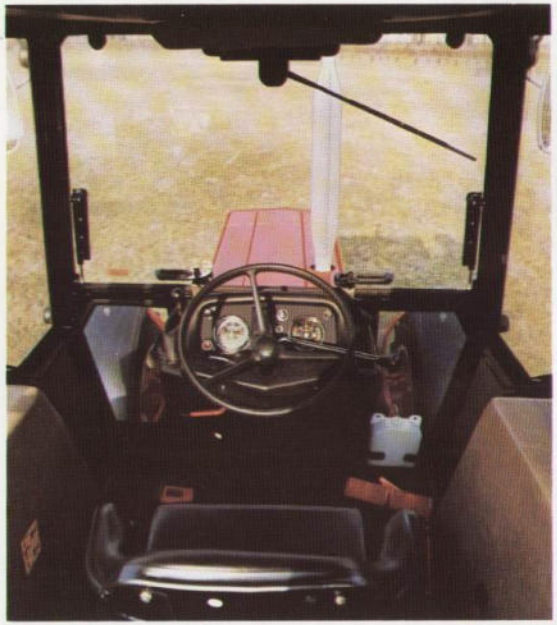


EXACT hydraulics is a fast, responsive system with set-and-forget operation. Implements are raised and lowered with simple one-lever action. Precise automatic control over implements operating depth when working through shallow dips, over ridges and across terraces. – thanks to the unique lower link sensing device.

Crown type rear fenders and front splash shields are optional



International diesel engines have a reputation for reliability, economy and durability



COMFORT 2000 safety cab gives you all-seasons comfort and safety

Windows and roof hatch are adjustable to admit fresh breezes.

Hydrostatic steering is standard equipment on four-wheel drive tractors.
Optional for two-wheel drive models.

The D-239, 4-cylinder diesel engine delivers 49 kW (66 hp) at 2300 rev/min. rated engine speed. Its governed engine results in increased power reserve plus high torque for better pull-through ability and more production. Maximum torque totals 235 Nm at 1600 rev/min. Direct injection through the maintenance-free distributor type pump assures balanced fuel injection to all cylinders at optimum timing.

Other features include: dry-type, dual stage air cleaner with automatic dust unloader and safety element; dual spin-on full-flow throwaway fuel filters. Oil changes are needed only after every 200 hours of operation.

You have a choice of modern fully synchronized transmissions with well graduated speeds to suit field, chore, or road speed for maximum versatility. Standard is the rugged 8+4 transmission, 8 forward and four reverse speeds. The 16+8 transmission with speed reducer or the 16+8 with super creep speed are optional. Speed reducer cuts speeds in each gear by approx. 20% whereas the super creep speed reduces speeds by approx. 70% in each gear. All transmissions are equipped with a double clutch and available in both 25 km/h and 30 km/h versions.

Exceptionally long wheelbase, an ideal weight distribution plus a low center of gravity provide for excellent balance, stability and good traction. The 743's COMFORT 2000 cab gives you all-year-round comfort and safety.

It is spacious, ISO-mounted and has a built-in OECD-tested safety frame. The compartment is sealed and insulated with sound-absorbing materials to meet low-noise level requirements.

Easy entry is provided by extra-low mounting steps and big swing doors on both sides of the cab. Windows: front, side and rear are easily adjustable to admit cool breezes.

COMFORT 2000 is fitted with a complete heating and ventilation system.

You'll enjoy the super comfort seat, the walk-through deck, the all-round visibility and the well arranged controls.