

# Specifications

## Engine:

Make	INTERNATIONAL	
Model	D—310	
Max. output, hp DIN	92	
Intermittent net output, hp DIN	85	
Rated engine speed, rpm	2100	
Number of cylinders	6	
Bore, mm (in.)	98,4	(3 <sup>7</sup> / <sub>8</sub> )
Stroke, mm (in.)	111,1	(4 <sup>3</sup> / <sub>8</sub> )
Piston displacement, cm <sup>3</sup> (cu. in.)	5073	(310)
Compression ratio	16 : 1	

## Electric system:

Batteries	12 V	110 Ah
A. C. generator		28 A
Starter		4 hp

## Clutch:

Single plate, dry type		
Diameter, mm (in.)	280	(11)

## Transmission:

16 + 7 Synchron transmission with creep speed range and independent engine P.T.O.  
Synchronized low, high and reverse range.  
P.T.O. 540 rpm at 1750 engine rpm  
1000 rpm at 1955 engine rpm

## Hydrostatic steering

## Brakes:

Service	hydraulic with single wheel braking
Parking	independent hand brake

## Standard equipment:

D—310 IH 6-cyl. Diesel engine (92 engine HP-SAE); P.T.O., rear, 540 and 1000 RPM; P.T.O. master shield; independent hand brake; foot brake — hydraulically operated incl. steering brake, differential lock — foot operated; head lamps for R.H. traffic; combination De-Luxe instrument panel with indicators for: water temperature, generator, fuel, oil pressure, head lamps, directional signal lights; tractorometer 30 km/h; vertical exhaust pipe and muffler; battery 12-V, 110 Ah, dry-precharged; dual fuel filter with water separator; dry-type air cleaner; hydrostatic steering; foot step; alternator 28 Ah; 4-HP starter; De-Luxe tractor seat; hydraulic system with draft and position control — lower link sensing; three-point hitch, cat. II; swinging drawbar with coupling yoke; semi-crown type rear fenders;

## Speeds:

Gear	Range									
	Creep Speed				Low		High		Reverse	
	forward		reverse							
	kmph	(mph)	kmph	(mph)	kmph	(mph)	kmph	(mph)	kmph	(mph)
1	1,1	(0.7)	1,5	(0.95)	2,7	(1.7)	3,4	(2.1)	3,6	(2.2)
2	1,4	(0.9)	2,3	(1.45)	4,2	(2.6)	5,4	(3.4)	5,7	(3.5)
3	1,7	(1.1)			6,5	(4.1)	8,4	(5.2)	8,8	(5.5)
4	2,2	(1.4)			10,1	(6.3)	12,9	(8.0)	13,5	(8.4)
5					16,0	(10.0)	20,6	(12.8)	21,6	(13.4)
6					22,2	(13.8)	28,5	(17.7)		

(all gears are fully synchronized with the exception of 1st and 2nd gear)

non-adjustable front axle; outer front weight, 180 kg; transmission version 30 km/h; front wheels: 5.50F-18 with 7.50-18, 6-PR tires; rear wheels: non-adjustable DW 14-34 disc wheels with 16.9/14-34, 6-PR tires; tools, operator's manual.

## Hydraulic system:

Three-point hitch, cat. II; side supports;  
Max lift capacity at drawbar, kp (lbs.) 3000 (6600)

## Tires:

Front	7.50 — 18, 6 PR	
Rear	16.9/14 — 34, 6 PR	

## Capacities:

Fuel tank, l (gal.)	110	(29)
Crankcase, l (gal.)	12	(3.2)
Transmission case, l (gal.)	36; 42*	9.5; 11.1*
Hydraulic system, l (gal.)		
Cooling system, l (gal.)	25	(6.6)

\* with four wheel drive

## Dimensions:

Length, mm (in.)	3937	(155)
Width, mm (in.)	2060	(81.1)
Height, (engine hood), mm (in.)	1610	(63.4)
Ground clearance, mm (in.)	470	(18.5)
Wheelbase, mm (in.)	2590	(102)
Tread, front, mm (in.)	1550 + 1630	(61 + 64.5)
rear, mm (in.)	1644 + 1900	(64.7 + 74.8)

## Weight:

with standard equipment, kg (lbs.) 3360 (7408)

## Optional tires:

Front	7.50 — 16, 6 PR	
	7.50 — 20, 6 PR	
Rear	18.4/15 — 30, 6 or 8 PR	
	18.4/15 — 34, 6 or 8 PR	
	16.9/14 — 38, 6 or 8 PR	
	15.5 — 38, 6 or 8 PR	
	16.9/4 — 34, 8 PR	

## Special equipment

140 kg (310 lbs.) inner front weight; front plate weights, set of five, 50 kg (110 lbs.) each; two sets of rear wheel weights, 120 kg (265 lbs.) each; adjustable front axle, 1504—1822 mm (59.2—71.7 in.); reversible rear rims, 1624 + 2124 mm (63.9 + 83.6 in.); short drawbar; rear working lights; long drawbar; front loader; break-away couplings; additional control valves; compressed-air brake.

# IH INTERNATIONAL<sup>®</sup>

# 946



INTERNATIONAL HARVESTER COMPANY M. B. H.  
NEUSS/RHINE GERMANY

Specifications subject to change without notice.

GER 46-Z/E

**INTERNATIONAL®**

**946**

## New Conception in Design Power and Performance

After years of experimentation at the ultra-modern Neuss Engineering Centre, on proving grounds, test stands, in fields under every conceivable condition, International Harvester's industrial design specialists, product engineers and executive committees have finally approved production of the new 946 tractor. Result: The dawn of a new era in tractor power.

The 946 is impressive in design, sound in construction and dependable in operation. It is powered by the 5,1 liter direct injection, 6 cylinder Diesel engine which delivers 92 horsepower at the rated engine speed of 2,100 RPM. Crankshaft is elotherm hardened and has 7 main bearings. Exclusive, synchromesh transmission provides 12 forward and 5 reverse speeds (with optional creep speed attachment, 16 forward, 7 reverse speeds). Two speed independent power take-off, 540 and 1,000 RPM, features new power shift on-the-go under load.

Precise, instant depth control of mounted implements is afforded by the versatile hydraulic system. Ground irregularities and load changes are automatically registered and corrected through the lower link sensing device. Maximum lift capacity at 3-point hitch lower links is 3,000 kg. Both hitch and coupler are category II.

For operating comfort, the 946 has a super deluxe seat plus a well arranged instrument panel and handily located control levers. Fingertip hydrostatic power steering provides smooth, effortless operation. Safe, sure stops is afforded by the hydraulically-actuated brakes.

Service and maintenance are simple operations: Oil changes necessary only after every 250 hours of operation; oil filter is the convenient throw away type; single cylinder rotary injection pump is maintenance-free; insensitive A. C. generator; easy accessibility to all main components. Four wheel drive version is also available.

