

D 3507

LANZ
D 7679

Model



Maximum output on belt

20 HP

6 speeds forward and
2 reverse

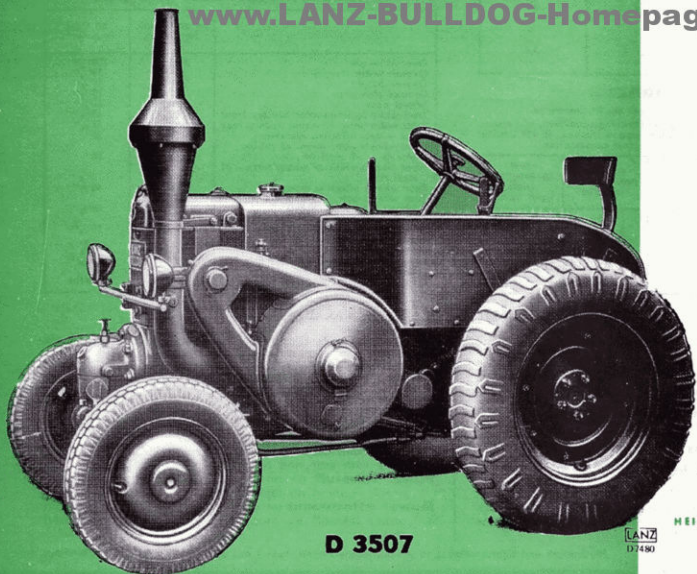
LANZ

Air tyred All Purpose Tractor
for farm work, road haulage and belt drive

www.LANZ-BULLDOG-Homepage.de

**Simple
sturdy design**

**Dependable
Economical**



D 3507

LANZ
D 7480

HEINRICH **LANZ** MANNHEIM
A G

Description of Tractor in Standard Design

General — Own design and make. Block construction consisting of cylinder, crankcase, gearcase and rear axle housing.

Engine — Horizontal, single cylinder, two-stroke, semi-Diesel type, without valves, carburettor or magneto, bore 6.69", stroke 8.27", 300 to 760 R. P. M. (normal speed 760 R. P. M.)

Governor — mounted on crankshaft — permits a speed range from 300 to 760 R. P. M. according to fuel lever setting and load; it keeps the normal speed constant under all load conditions.

Lubrication of the engine is by pressure through a combination of fresh and circulating oil, the fuel pump driving gear &c. by wick oilers. All other parts have high pressure greasing. Circulating oil is filtered by strainer in crankcase and by felts in oil container.

Cooling — Thermosiphon principle without pump but with fan and 5 easily exchangeable radiator units. The cooling effect can be reduced by adjustable shutters.

Air filter — Lanz high efficiency filter with oil soaked padding and air intake extension tube of 23 1/4" height.

Exhaust — upright — silencer with baffle plate.

Clutch — Friction clutch, operated as in motor cars.

Pulley — declutchable and situate on off-side end of crankshaft, 21 1/4" diameter, 5 1/4" face, 760 R. P. M.

Transmission — sliding spur gear transmission with 6 forward speeds at 2 reverse with roller bearings through-out — Ball type selector.

Brakes — Gear hand brake, rear wheel foot brake, clutch (pulley) brake.

Front axle unsprung with forked ends (Elliot type).

Front wheels — on tapered roller bearings, steel disc wheels with drop center rims 3.25 x 16" and pneumatic farm tyres 5.50 x 16".

Rear wheels — steel disc wheels with drop center rims 6.00 S x 24" with single pneumatic farm tyres 9.00-24.

Fenders — to protect driver

Platform — on gear box, front and sides enclosed.

Driver's seat on coil spring with back rest.

Hitches — two: upper one, forked, is for wagons, lower one, bracket, for implements.

Electric lighting equipment — (Bosch make) comprising 6-volt dynamo, battery, 2 dipping head lights, tail light with stop light and horn.

Regular equipment — Tyre levers, air pump and pressure gauge, electrolyte tester, jack, blow lamp, grease gun, tool box with requisite tools, a set of minor replacement parts.

Technical Data

Engine capacity on the belt

Continuous output	17 HP
Maximum output	20 HP

Drawbar power on the field

with pneumatic farm tyres	up to 15 HP
with steel wheels	10 HP

Drawbar pull on the field in low gear

with steel or rubber tyred wheels	1650 lbs.
-----------------------------------	-----------

Fuel — Gasoil, Diesel-oil, fuel oil, pakura, lignite tar oil. Vegetable and fish oils and alcohol require special equipment.

Fuel consumption about 240 grammes per HP and hour.

Working speeds

Gear	on pneumatic farm tyres	on steel wheels with lugs 3/4" sunk	on road bands
	M. P. H.	M. P. H.	M. P. H.
1st	2.2	2.3	2.7
2nd	3.	3.1	3.7
3rd	4.2	4.5	5.1
4th	6.	—	—
5th	8.4	—	—
6th	11.5	—	—
1st reverse	3.	3.	3.6
2nd reverse	8.3	—	—

Performance

on medium soil of about 64 lbs per sq. in. resistance.

The use of pneumatic tyres, according to prevailing conditions, will ensure up to 30% more work per day than steel-lugged tractors. It will lead at the same time to a decrease in fuel consumption.

Class of work	Furrows	Acreege per 10 hours in acres	Fuel consumption pints per acre.
Ploughing 10 — 2" deep	2	4.9	9 1/2 = 12 1/8
Ploughing 7 — 10" deep	2	5 — 6.2	9 1/2 = 11 1/8
Ploughing 4 — 5" deep	4	9.9 — 11.1	6 1/2 = 9 1/8
Cultivating		12.4 — 18.5	3 1/4 = 4 1/8
Harrowing and rolling		19.8	3 1/4 = 4 1/8
Mowing (with mower attachment)		25	—

Special equipment at additional price

Steel front wheels with detachable skid rings in halves.

Steel rear wheels each with 10 rivetted on double angled grousers of 3 1/2" height, with road bands of 48 3/4" diameter and 2 1/4" face.

Rear wheel extensions — 5 1/4" width with or without double angled lugs of 3 1/2" height.

Front wheel extensions — 10" width.

Row crop front wheel hubs permitting adjustment to various track widths.

Row crop rear wheels permitting adjustment of track widths for wheel centres between 41 1/2" and 54 1/2", 7" face each with angle grousers 3 1/2" height.

Fuel tank capacity

about 12 imp. gallons

Oil consumption

about 2 pints per working day

Oil tank capacity

1 imp. gallon.

Cooling tank capacity

6 imp. gallons

Max. Gross Haulage Capacity

on pneumatic farm tyres on good dry roads

Gear	Gradient:	level					
		0%	3 1/2%	6 1/2%	9 1/2%	12 1/2%	15 1/2%
1st	over	30	28	17	11.5	8.75	6.5
2nd		30	20	11.2	7.25	5.2	3.5
3rd		30	15	8	5.1	3.25	2.5
4th		25	8	5.4	2.5	1.3	0.25
5th		17	3.4	2.25	0.9	—	—
6th		11.5	3	—	—	—	—

Measurements and weights

	on pneumatic farm tyres	on steel farm tyres
Overall length	104" "	103 1/2" "
Overall width	59" "	57 1/2" "
Overall height	76" "	76" "
Ground clearance	7 1/2" "	10 1/2" "
Wheel base	66" "	66" "
Track width between wheel centers, front	47 1/2" "	45" "
Track width between wheel centers, rear	47 1/2" "	47 1/2" "
Front wheels effective diameter	25 1/4" "	26" "
Front wheels diam. of rubber wheels — of steel wheels	27 1/2" "	26" "
Front wheels width of rubber tyres — of steel rims	3 1/2" "	4 1/8" "
Rear wheels effective diameter	39 1/2" "	40 1/2" "
Rear wheels diam. of rubber wheels — of steel wheels	43 1/4" "	38 1/2" "
Rear wheels width of rubber tyres — of steel rims	9 1/2" "	10 1/2" "
Ground clearance of wagon hitch (lugs 3/4" sunk in)	24 1/2" "	25 1/2" "
Ground clearance of implement drawbar	14 1/2" "	15 1/2" "
Turning radius	142" "	142" "
Service weight in standard equipment	4180 lbs	4730 lbs

Strakes for preventing slip of pneumatic farm tyred wheels on slippery ground.

Wheel scrapers for self cleaning of rear wheels, attachment of platform and long drawbar is conditional.

Long drawbar with platform for sideways hitching of implements and lifting of wheel scrapers.

Power driven tyre inflator — driven from gear, enables tyres to be inflated easily.

Leather cushions for seat and back rest.

Canopy with side and rear curtains.

Power take-off on off-side of gear case, entirely dust-proof, running on tapered roller bearings.

Mower attachment on rear side with 5' cut, driven from power take-off by moulded belt, easily removed and attached.