

HOLDER



HOLDER vineyard tractor series

A 750 S

A 750

A 750 P

A 760 Turbo

A 760 P Turbo

A 770 Turbo

A 770 P Turbo

Front view

The heart and muscle of an advanced technique

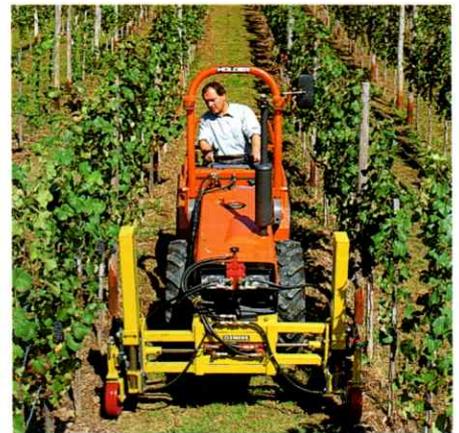
A heritage of leadership

With this narrow and manoeuvrable articulated tractor, HOLDER has a long tradition of vineyard experience which is highly acclaimed by winegrowers the world over. Focus on the articulated steering and real, permanent four-wheel-drive.

The engine

HOLDER utilizes the Deutz 1011 series engines which are economical, reliable, environmentally friendly, low maintenance, and provide outstanding performance and torque characteristics. The direct injection via single injection pumps achieves a **lower fuel consumption and excellent exhaust results**. The quiet running engine has an integrated air/oil cooling system that requires **no frost supervision**. When

equipped with a cab the heating is provided by the energy of the cooling oil. Key features to the engine include **long maintenance intervals** and automatic ventilation even on an empty tank **eliminating the hassle of bleeding the lines**.



Three-point-linkages and power-take-offs

■ The capability of simultaneously engaging the front and rear p.t.o.'s enhances the economical advantage of this tractor.

■ The linkages provide quick attach hitches and can be manually adjusted to provide for either Cat. I or Cat II.

Advantage 1: the integrated pendulum system for linkage-mounted accessories.

Advantage 2: the lower link arms can be de-mounted without the use of tools providing for a quick and easy adjustment to front hood mounted implements.

■ With excellent visibility a professional cut is always provided from the **front mounted flail mower**.

■ A front mounted unit optimizes the **mechanical treatment under the vines**. Optional **hydraulic spool valves** and couplings eliminate the tedious and time consuming problem of adjusting for **height and width** when working with these attachments.



■ Leafcutter. These units can be easily operated and controlled right from the operators' seat. **The speed of the cutters can be infinitely varied through adjustable flow dividers**.



■ **Rotating brooms** enable an economical and environmentally friendly method of clearing between the vines.

Suitable tires are a must for the optimum performance of the tractor on various kinds of terrain.
The choice is yours!



10,5/80 - 18



275/80 R 18



300/70 R 20



33 x 12,50 - 15



31 x 15,50 - 15
33 x 15,50 - 15



350/60 - 17,5



Overall width as narrow as 40 inches
on tires 275/80 R 18

An intelligent drive system seen from the side

Four wheel drive without compromises.

True permanent four wheel drive combined with four equally sized tires provides for outstanding performance and power when the tractor is called upon to push or pull. Hydraulically engaged, the differential lock can contribute to this by acting on all four wheels. By design, articulated tractors follow the exact contours of their wheels greatly enhancing traction and limiting soil compaction in particular with the Holder optimum balanced weight transfer to the wheels. Hydraulically operated wet multi-disc brakes and permanent four wheel drive guarantee performance and maximum safety even under the most extreme conditions.

Environmental friendliness in every tractor
Chromate and lead free paint,
asbestos free brake shoes
and clutches, biodegradable
hydraulic oil.

★ ★ ★ ★ ★
★ Homologated ★
★ according to EEC ★
★ Nr. e 1-74/150-0013 ★
★ ★ ★ ★ ★





Made for extreme slopes

Permanent four-wheel drive and four equally sized tires provide for an ideal balance of weight from the front to rear axles enabling the machine to traverse even the most aggressive slopes with little slippage and virtually no damage to the turf.

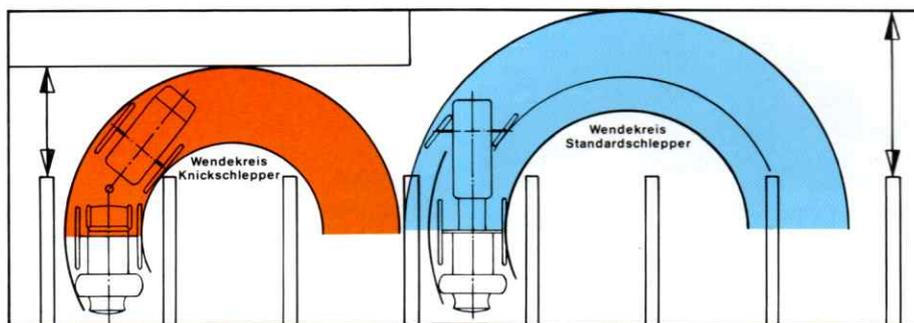


The HOLDER wheel stabilizer

Located under the articulation point this unique yet simple mechanism pressures all four wheels equally to the ground ensuring maximum safety and optimum power transfer.

A view from the top

Intelligent solutions from the front to the rear



The articulated steering

Because conventional tractors steer by the front wheels, only the tire tracks differ from front to rear. HOLDER tractors, being articulated, will follow the same contours and any attachment will do the same (i.e. tow behind sprayer tracks). This provides less soil compaction, a much **tighter turning radius** and outstanding maneuverability.

The gearbox

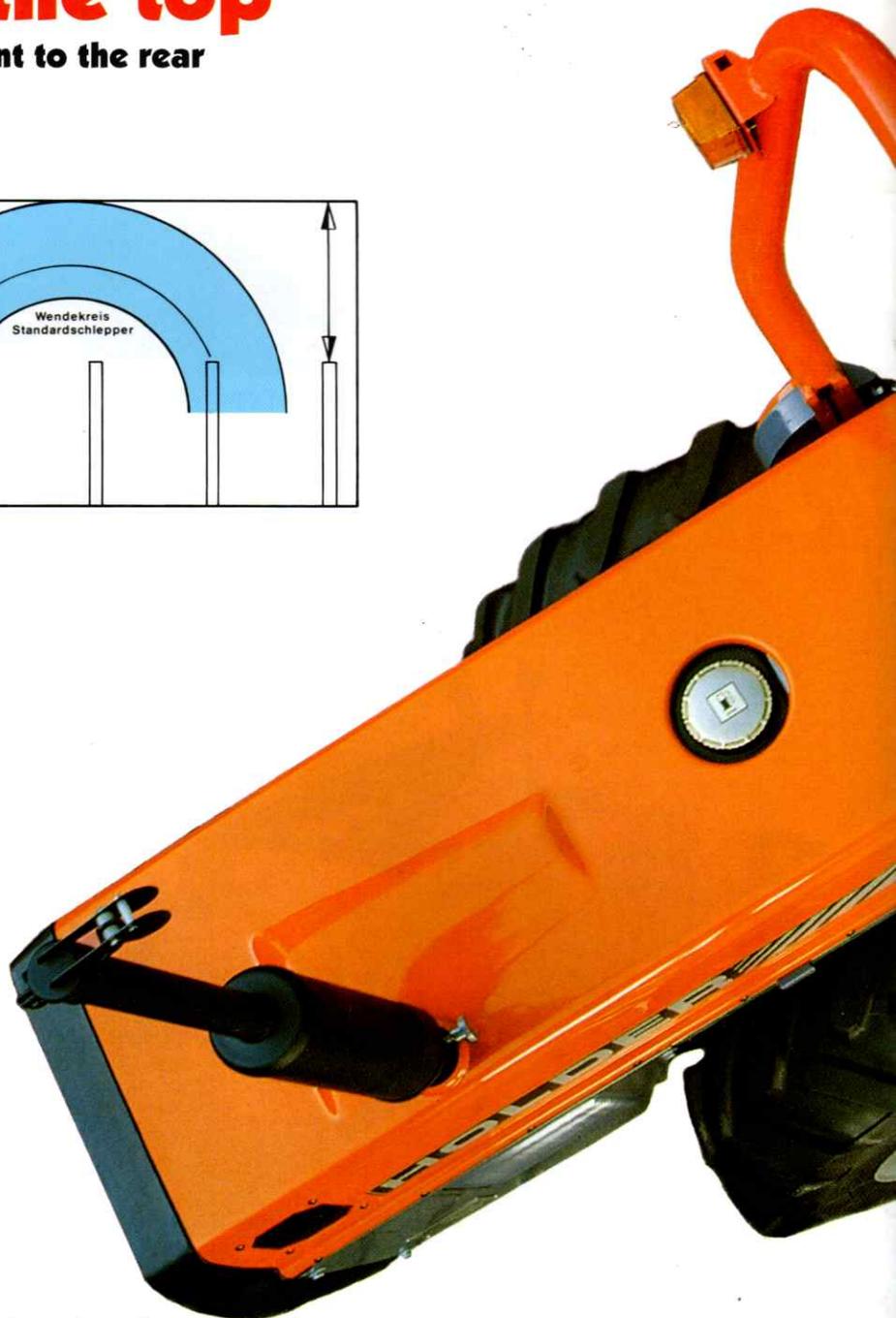
The fully synchronized gearbox offers **12 forward and 4 reverse gears**. In the main operating range there are 8 gears ensuring optimum ratio for all kinds of work in the vineyard.

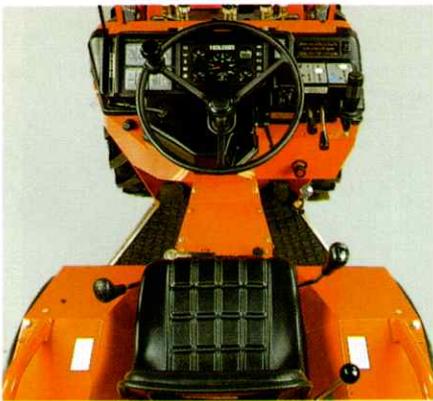
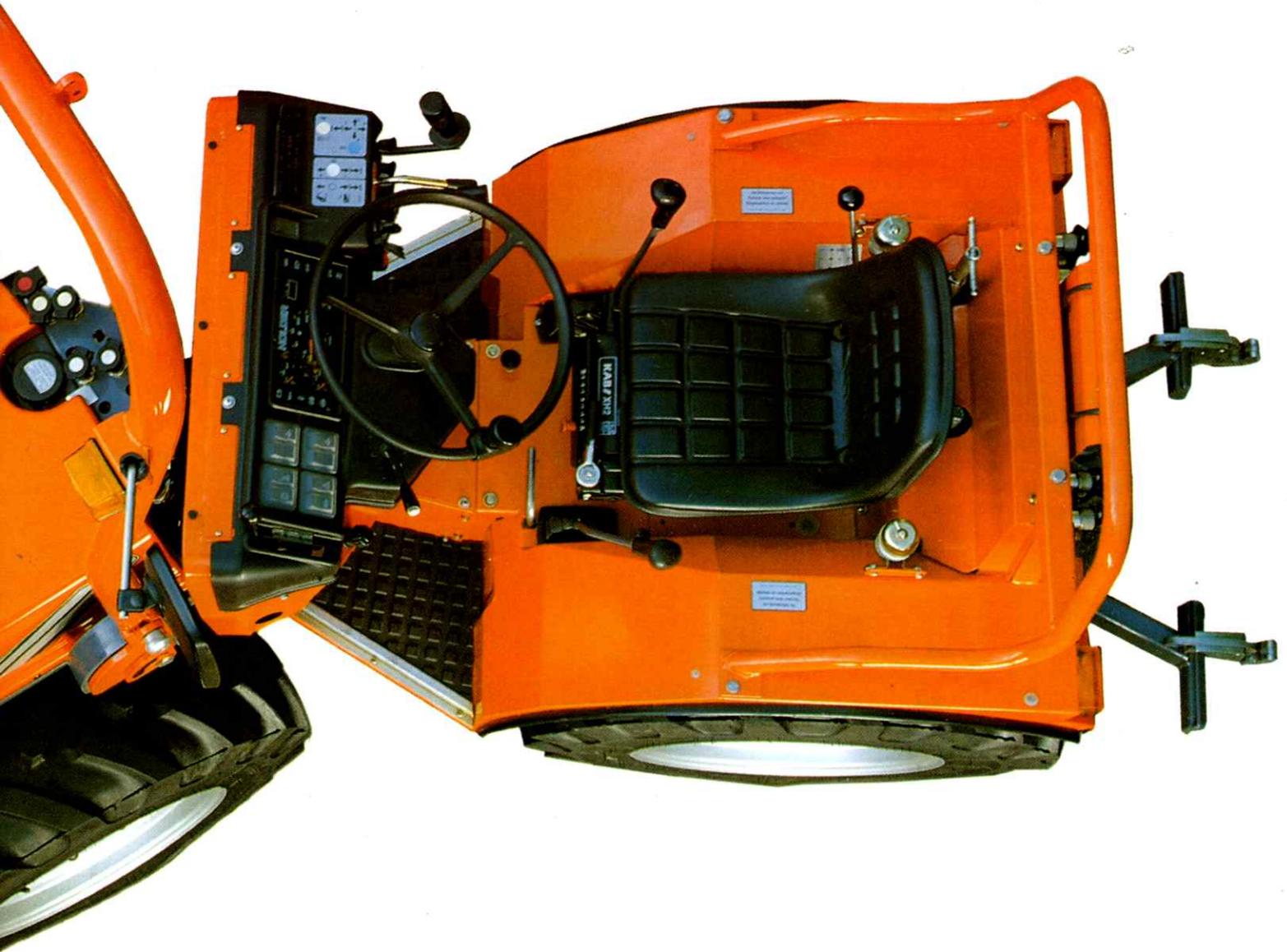


The hydraulic system

The heart of the hydraulic system is a **gear pump providing 42,5 ltrs/min** output. Ensuring maximum soil safety is the biodegradable hydraulic oil. Proportional hydraulic valves enable the operator to finesse the hydraulic functions of the tractor.

Due to the load-sensing system of the steering, all hydraulic oil is available at the linkages or the couplings of the spool valves. Oil is required for the steering function only when the tractor is being steered. Options include various hydraulic kits to match all varieties of hydraulic functions. A tandem pump for two hydraulic circuits (35 ltrs/min + 27,5 ltrs/min). Two infinitely adjustable flow dividers with pressure-less return flow. Flat face couplings front and rear. Flow dividers are electrically activated and deactivated. A special four-way hydraulic lever gives even more comfort for the operator. An oil cooler guarantees that even under permanent use a constant hydraulic performance is maintained and that the system is thermally relieved.





The operator's seat

Ergonomic and comfortable: the operator's seat is mounted on a **noise and vibration-isolated platform**. The seat can be adjusted in height, weight and position. As an option air ride seats are available. Operators space is comfortable and roomy with easy access and visibility to all the operating components. The instrument panel provides all necessary information required by the operator. The adjustable steering wheel completes the all around comfort.

A look at the back

Multifunctional and effective

Rear linkage category 1N/Cat. 1

HOLDER innovation translates dreams into reality. This system, optimized for the articulated tractor, has a lower link arm frame, quick attach couplers and two double acting hydraulic lift cylinders. For extremely close mounted accessories Category 1N is used. The quick attach couplers make the mounting of all accessories easy and simple. From the operator's seat the linkage can be adjusted horizontally, vertically and laterally ensuring perfection in use by the operator. As an option this system is available hydraulically. The p.t.o. is readily accessible. The trailer hitch can be operated by one hand and is adjustable in height. The hydraulic couplings are well positioned and color coded.



An effective circle mulcher requires both pull and p.t.o. power which HOLDER provides without compromise.



HOLDER's real permanent four wheel drive combined with four equal sized tires eliminates tractor tire slippage while cultivating, maintaining a gentle soil not provided by other tractors.



The p.t.o.

Front and rear p.t.o.'s are available as standard equipment: Front 1000 rpm/rear 540 and 750 rpm. Low torque implements can utilize the 750 pto requiring less engine speed improving the economic engine speed. The direct drive p.t.o.'s provide an outstanding high efficiency while the multi-disc wet clutch enable engagement under load.

Nothing is impossible



Choose between a foldable safety bar, a partial cab and a full cab. The partial or the full cab can also be mounted at a later stage. The safety bar includes a locking device which can be opened when entering the vineyard. The partial cab consists of front window and roof. The high quality full cab provides all around comfort. A two stage heating and ventilation system completes this high standard.

No efficiency is sacrificed in the heating system as it is provided by the engine's own energy. Large doors provide easy access for the operator. Both front and rear windows can be opened and a roof hatch can provide even further ventilation.

The sound absorption kit gives additional comfort to the driver. A separate charcoal filter can be mounted to avoid the intake of chemical particles during the spraying operation. The remarkably quiet cab is a result of there being no direct connection between the engine and cab which is further enhanced by sound isolating rubber mountings on the cab platform. An optional roof top air conditioning unit is available.



Technical data



A 750/A 750 S/A 750 P

A 760/A 760 P/A 770/A 770 P

Construction	Block construction. Four wheel drive: Four equally sized wheels: Articulated steering.	Block construction. Four wheel drive: Four equally sized wheels: Articulated steering.
Engine	Deutz F4L 1011	Deutz F4L 1011
Power	37 kw	44 kw/51,5 kw
Cylinders	4	4
Cooling	integrated oil/air cooling	integrated oil/air cooling
Injection	direct injection	direct injection
Enginge cypacity	2732 ccm	2732 ccm
Max torque	149 nm at 1800 min ⁻¹	189/222 nm at 1800 min ⁻¹
Ait filter	dry air filter	dry air filter
Tank capacity	40 ltrs	40 ltrs
Drive clutch	one-disc dry clutch	one-disc dry clutch
Transmission	fully synchronized. 12 forward and 4 reverse gears; permanent four-wheel-drive	fully synchronized. 12 forward and 4 reverse gears; permanent four-wheel-drive
Diff-Lock	Hydraulically operated; acting on front and rear axle	Hydraulically operated; acting on front and rear axle
Max. speed	30 km/h	30 km/h
P.T.O.	live p.t.o. front and rear front: 1000 revs, rear 540 and 750 revs/min	live p.t.o. front and rear front: 1000 revs, rear 540 and 750 revs/min
Creeper gear	option	option
Brakes	hydraulically operated, „wet“ multi-disc brakes, acting on all four wheels	hydraulically operated, „wet“ multi-disc brakes, acting on all four wheels
Steering	fully hydrostatic steering. Load-sensing system.	fully hydrostatic steering. Load-sensing system.
Hydraulic pump	17 ccm/rev = 42,5 ltrs/min. Tandem hydraulic pump on option (35 ltrs/min + 27,5 ltrs/min)	17 ccm/rev = 42,5 ltrs/min. Tandem hydraulic pump on option (35 ltrs/min + 27,5 ltrs/min)
Hydraulic tank	18 ltrs	18 ltrs
Hydraulic pressure	190 bar	190 bar
Hydraulic valves	proportional valves double acting additional hydraulic valves, flow divider and return flow available on option	proportional valves double acting additional hydraulic valves, flow divider and return flow available on option
3 pt. Linkage	Rear: 3 pt. linkage cat 1 and 1 Nm adjustable, with quick attachment hooks. Front: 3 pt. linkage cat 1 and 2, adjustable, with quick attachment hooks	Rear: 3 pt. linkage cat 1 and 1 Nm adjustable, with quick attachment hooks. Front: 3 pt. linkage cat 1 and 2, adjustable, with quick attachment hooks
Lifting capacity	rear 2250 dN front 750 dN	rear 2250 dN front 750 dN
Electric	battery 12 V/88 Ah, alternator 12 V 760 A-720 W	battery 12 V/88 Ah, alternator 12 V 760 A-720 W
Safety bar	option	option
Partial cab	option	option
Full cab	option	option
Charcoal filter	option	option
Air condition	option	option
Permiss. total weight	3200/4000 kg*	3200/4000 kg*
Permiss. axle load front	2000/2400 kg*	2000/2400 kg*
Permiss. Axle load rear	2000/2400 kg*	2000/2400 kg*
Dimensions:		
Wheel base	1527 mm/1827 mm*	1527 mm/1827 mm*
Overall length	3415 mm/3680 mm when front 3 pt. linkage is mounted	3415 mm/3680 mm when front 3 pt. linkage is mounted
Height	2075 mm-2160 mm (depending on tyres)	2075 mm-2160 mm (depending on tyres)
Smallest turning diameter	5,90 m/7,10 m*	5,90 m/7,10 m*
Tractor width	1000-1384 mm depending on tyres	1000-1384 mm depending on tyres

A combination for the future. HOLDER vineyard tractors and sprayers

State of the art of
modern sprayer
technology

O V S 25

O ptimal:

a sprayer for the optimal application of all kinds of orchards and vineyards.

V ariable:

the direction of the blow can be adjusted

S ymmetric:

is the air volume on either side due to two separate fans



Manoeuvrable and powerful:

NI 500 / 800 / 1000

Standard specification includes:

- Big pure water tank for cleaning and rinsing of the sprayer in the field.
- Rinsing device for the main tank
- Adjustable track width 101-144 cm.
- Real short-turn hitch.
- Extremely powerful agitator

Environment-friendly:

AS 220 and AS 320

Compact and closely mounted to the tractor: this ensures a safe operation even under difficult conditions. A leading feature is the new frame construction with the integrated central frame for quality and durability.



Outstanding:

**the cross flow sprayer
QU14-1**

This technology forms the optimum of spraying technique as drift of spraying material is almost entirely avoided. This gives the highest standard in protection of the environment, friendliness to the applicator and coverage of the foliage.



Extendable:

the DOSICONTROL® system.

These controls combine compactness, accuracy and comfort. Remote control of all functions out of the tractor's cab is one of the highlights of this system.

ECONOMIC-sprayer series

combine the advantage of economy and ecology. AS 220/320 NI 500/800/1000

with the technical specification as described above.

Fans TU 20, 22.000 m³/h and TU 30, 33.000 m³/h.
Optimised axial fans. 10 anti-drip double-jet nozzles.
Gearbox to engage and disengage the fully galvanised fans.

HOLDER

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Techn. Änderungen vorbehalten

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