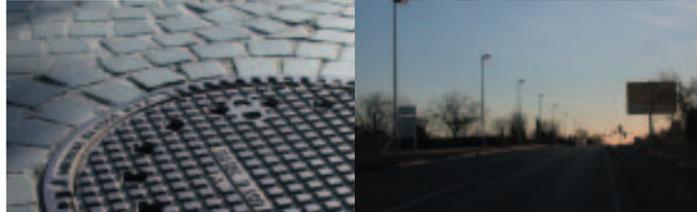


HOLDER



HOLDER is more

HOLDER stands not only for the flexible technology for municipal vehicles, but also for the technology for plant protection, viniculture, fruit farming and forestry. In all those fields HOLDER proves to be a company with tradition, competence and the will for innovations.

Quality out of Metzingen is demanded – in Europe and worldwide. Typical HOLDER.

Municipal and Service

Municipal Program

Made to measure solutions for the whole year round



HOLDER

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Experience our competence HOLDER Solutions for Public Works

HOLDER means: over 20 years of expertise in municipal solutions.



With two successful Trac concepts HOLDER is the specialist in practical, multifunctional and efficient solutions for municipal needs. Compare and you will discover it is the quality and design of our innovations, which set HOLDER apart from all others; in particular, when you examine the combination of the tractors' advantages with HOLDER's efficiency. Rely on quality produced by the specialists from HOLDER, Germany.

Working the whole year round with HOLDER
HOLDER's municipal technique is focused on all seasons right from the start. From the modern electronic driving components to the flexible 3pt linkage optimum performance is guaranteed no matter what the season. With the wide range of gear selections in the transmission the operator plays an important role in controlling the tractor. Biotechnology, comfort and high efficiency stand for solutions from HOLDER.

HOLDER: The machine for all seasons



Mowing

- ◆ reel mower
- ◆ flail mower
- ◆ bank mower
- ◆ triplex mower



Maintenance

- ◆ sweeping
- ◆ waste disposal
- ◆ oil disposal
- ◆ chopping
- ◆ and much more ...



Loading and transport

- ◆ front loader
- ◆ single arm loader
- ◆ flatbed body
- ◆ semi trailer



Cemetery maintenance

- ◆ waste disposal
- ◆ transport



Winter service

- ◆ snow removal
- ◆ rotary snow plowing
- ◆ scattering

Equipped for everything

HOLDER custom models can be adapted to provide many solutions.



CityTram
on rails



EasyClean:
as a sweeper



in tunnels



and to extinguish fires

Two concepts for municipal use

the HOLDER A-Tracs

the HOLDER C-Tracs



A-Trac 7.72



C-Trac 2.42 (MultiPark)



A-Trac 8.72



C-Trac 3.42 (MultiPark)



A-Trac 5.58



C-Trac 4.74



C-Trac 9.88 Dual Drive



A name. A program: HOLDER

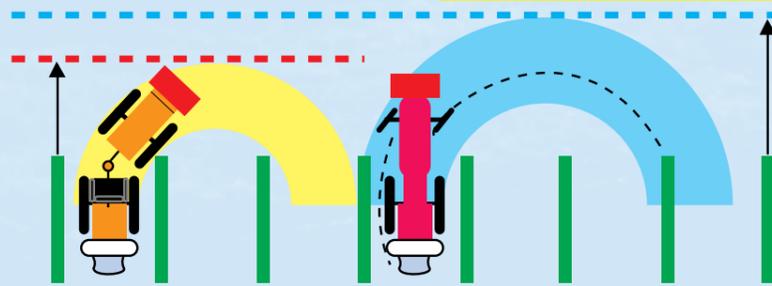


Only a true HOLDER provides the total advantage necessary to professionally support municipal requirements. Maneuverable, compact, performance and flexible operation are all combined qualities for a single HOLDER answer: a trac for all your needs.

It's continuous and variable uses designed with power when needed, finesse for the finisher and professionalism all round.

The 5 unique characteristics of a professional HOLDER municipal tractor:

1. articulated steering



2. real, permanent four-wheel drive

3. four equal sized wheels

4. wheel stabilizer

5. compactness and maneuverability

The articulated steering of HOLDER: Exact steering line of Trac and implements

Conventional tractors with axle pivot steering, drive only with the front wheels and therefore do not follow the steering line of the tractor.
HOLDER articulated tractors follow the exact contours of the

steering line even when turning. Not only the wheels but the whole front end of the machine steers in the new direction due to the hydraulic steering. This further enables the machine to maintain excellent traction and high maneuverability. The implements follow the steering line exactly, track true and without side movement ...



The HOLDER real four-wheel drive Soil protection through optimal caring traction

Only the real, permanent four-wheel drive with four equal sized tires transfers the power of the tractor to the ground without losing performance while provi-

ding optimum soil protection. The hydraulically operated differential lock works on both axles to 100% and therefore is very protective even under bad soil and weather conditions. This is the ideal technique for the year round use.



The HOLDER wheel stabilizer: Perfect wheel grip

Without relying on a complicated electronic or mechanical set-up this system ensures reliable stability, even under extreme conditions.

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.



The HOLDER compactness: A measure for maneuverability

Narrow enough to plow your sidewalks or widened to mow slopes the diverse performance of our tractor is remarkable.



Best features of HOLDER



An optimum in motorization in the two product lines A and C Trac

Whether a Kubota turbo Diesel engine for the MultiPark line or the Deutz engines (Deutz Diesel 1011 and 2011 series) HOLDER offers the right engine for every operative range.

High tech

The modern electronics is a relief for the driver, protects the ground and optimizes the machine's performance. The electronically driven hydrostatic four-wheel drive with four single wheel motors of the digital MultiPark is responsible for a soil protecting traction. The digital adjustment of the driving speed allows a full concentration on the usage.

Flexibility

With the new reverse gear boxes – 12/12 and 16/16 gear – the HOLDER Tracs reach a higher number of speeds. A surplus of flexibility which mirrors in an improved functionality for the users.

Dual Drive

This concept which is a hydrostatic traveling gear that switches automatically in the direct drive at 26 km/h (standard in the C 9.83 series, optional on A-Tracs). This is driving technology on the highest level-naturally HOLDER!

P.T.O. engageable under load

PTO front and rear is engageable under load independent of the traveling gear. The direct drive of the engine reaches a high efficiency. Naturally the user has different PTO speeds to choose from for every situation.

HOLDER front and rear lift

That is what we see as a practical lift: quickly changeable from CAT I to CAT II, with double acting hydraulic cylinders and a pendulum system enabling the front three point arms to oscillate. An additional advantage: all attachments will follow the tractor in an exact line due to the articulated steering.



Hydraulic Pumps

Optionally mounted, constant and variable pumps run the attachments on request. This means an extensive 'hydraulic oil user' like a sweeper or a reel mower can be run through an integrated system. The 'load sensing system' uses hydraulic oil only when necessary.



Less power loss

In a lot of cases the direct, mechanical PTO is very robust and more powerful. Naturally HOLDER also offers those options for an all year round usage.

100% differential lock = 100% environmental/terrain protection

If a differential lock is engaging on both axles, the push and pull powers will be used providing absolute soil protection with an optimum in Trac technology. HOLDER has this technology.

Fast driving

Although a HOLDER is no racing car, at 20 mph the HOLDER is no obstacle on the streets.



HOLDER:

environmentally friendly

For HOLDER using a chromate and lead free enamel is as obvious as asbestos free brake and clutch lining and a biologically degradable hydraulic oil. The responsibility for the environment is taken seriously at HOLDER.

Choose the travelling mechanism by hand and foot

Only HOLDER offers this choice. The SDS (special drive system), for which a patent has been applied for, offers the choice: either using the classical MultiPark potentiometer travelling mechanism or the foot pedal mechanism. For every use an individual driving program can be used: A typical HOLDER innovation!



The advantage is obvious: for each use the correspondent driving system...

Every component is a plus

A workplace for professionals
Depending on the operative range HOLDER Tracs are either equipped with a one- or two-man cabin. Large doors provide easy access. Naturally an air conditioning system can be mounted for comfortable use in summer. The cab is mounted on a sound and vibration insulated platform as standard equipment. An important advantage for long hours of usage.



An air conditioning system which does not affect the overhead clearance.



All-round view
Glass all-round enables the driver to have a good view of the tractor, all attachments and the dashboard. The front and rear window can be raised.

Easy handling
The easily visible, easily reached operating levers guarantee effortless operation. Operating is as simple as possible and easy handling is a HOLDER principal.



Maintenance
Service and diagnostic techniques identical to the automobile industry. Easy handling and a quick diagnosis are important factors for service and maintenance works.



The communal economic efficiency



R=Rate of utilization

A maximum in economic efficiency is a question of utilization. The more tasks

performed by a single unit the greater the savings.

O=Operating costs

Fuel efficient motors, an optimum in power conversion, and long maintenance periods are impor-

tant points for the economical use of a municipal tractor. HOLDER fulfills all this.

I=Initial costs

Flexibility is the HOLDER advantage. Where else can you get

tractors that are so multipurpose at such a great price.

R=Reduction of system costs

A HOLDER trac is multifunctional. 3pt attachments fit without problem – quick changes from mowing, to sweeping, to spilling,

to ... You can achieve many functions quickly and easily with no added costs.

E=Economic efficiency

There is no 1 season for a true HOLDER. Useable the whole year

round its power and variability are HOLDER advantages.

HOLDER tailor made solutions



HOLDER will evaluate your needs and tailor the solution.

For over 100 years this has been our method. Why change now?

Peruse through the many, many solutions HOLDER has already provided – some typical or common – others terrifically unique.

Or give us a problem. Innovative solutions have been a forte of our company and our tractors for a long time.

Trust in the experience of a company with a long tradition.



One program – two product lines – uncountable advantages

The C series

Especially for the municipal use one advantage of the C series is the cabin in front and the engine in the back. This provides a direct view of all front mounted attachments. Because of the typical HOLDER characteristics like the articulated steering and a permanent four-wheel drive with four equal sized wheels HOLDER reaches a maneuverability and an extremely tight turning radius, not only for the tractor itself but also for the front and rear mounted implements.



Every C-Trac is a multi talent for its attachment variations to play its compactness off against the worst weather conditions. Especially designed for municipal use a HOLDER convinces through flexibility, power and maneuverability, which makes a HOLDER unique in its class. The ideal multipurpose vehicle with three mounting positions and a specifically designed driving program is the answer to all demands in year round municipal usage.

The A series

There are situations where you need a 'traditional' tractor. The use of a front lift is an example for this. Depending on the priorities a HOLDER A-Trac serves without compromises due to its optimized reverse gear or the hydrostat.

Naturally the HOLDER A-Trac offers all the advantages of a true HOLDER: such as true four-wheel drive with four equal sized wheels, articulated steering and wheel stabilizer.

In other words: The A-Trac is a true alternative for municipal use.



The C-Tracs: the ideal multipurpose vehicle for municipal works



The advantages of both C-Trac product lines

- Three mounting positions
- Hydrostatic articulated steering
- Real four-wheel drive
- High maneuverability and compactness
- Low traction-optimum in soil protection
- Low center of gravity – high efficiency
- Full load engagement p.t.o.
- Cab with air conditioning system (optional)
- Loading area in the rear (optional loading platform and hydraulic tilt equipment)
- HOLDER wheel stabilizer
- Digital driving speed regulation
- Service and diagnosis similar to the automotive industry



C-Trac 2.34 basic
The trac which offers a package solution



Are you looking for a package: tractor and an attachment?
On the basis of a C 2.34 basic we offer an efficient and powerful unit combining SDS and all the other HOLDER advantages of a true HOLDER .



Vehicles with a one-man cabin

C 2.42 31 kW/42 hp



C 4.74 54 kW/74 hp



Vehicles with a two-man cabin

C 3.42 31 kW/42 hp



C 3.58 43 kW/58 hp



The strong C-Tracs used where power is needed



Generation 2000

From 78 to 88 hp
With either hydrostatic traveling mechanism or Dual Drive



- C 9.78 57 kW/78 hp
Choice between hydrostatic traveling mechanism or 16/16 reverse gear
- C 9.88 64 kW/88 hp
Dual Drive (this model only)



40

The A-Tracs Multi seasonal – multi functional



A 7.72 53,5 kW/73 hp

A 8.72 53,5 kW/73 hp

Choice between hydrostatic traveling mechanism or 16/16 reverse gear



A 5.58 42 kW/58 hp
Overall width starting at 3 feet

12/12 reverse gear, choice between with or without portal axle

- Fully synchronized reverse gear
- Turbo power
- Minimum width with a maximum of ground clearance
- Ergonomic operational control
- Full hydrostatic articulated steering
- Three-point linkage Cat I with rapid action coupling
- Integrated air conditioning system (optional)
- Full load engagement p.t.o. clutch
- Wheel stabilizer

Extras? No problem for a HOLDER

CityTram A professional on rails

Grass, weeds and hedges also grow around rail tracks and therefore there is a necessity for maintenance or removal. For the C-Tracs HOLDER has developed a variation which is suitable to rails.

All cleaning and maintenance works can be executed. This is possible through

- quick access and exit onto the rails
- prompt toolless de- and attachment of tools (no tools required for quick attachment and detachment of implements / attachments)
- simplest conversion from street to rail use

By the way: without the true HOLDER advantages of a permanent four-wheel drive with four equal sized wheels and especially the articulated steering this solution would not be possible.



HOLDER Sweeping machine

This is a powerful sweeping machine for streets and narrow lanes but also for parks and larger areas. The adjustable sweeper unit, which is mounted to the three point linkage, fits perfectly to the mounted container.

Easy Clean Effect: the pick up head is directly mounted to the broom. As you are sweeping the material is already sucked away.

The 'Trans Rotation Principal' prevents the blocking up of dust and dirt with a rotation of the hose, which can be switched on and off as required.

- Permanent control
- Low noise development
- Easy handling
- Ideal working width
- Economically friendly exhaust and consumption values



Only a HOLDER manages this barrier!



First aid in the tunnel

The task
A Swiss company required a rescue vehicle for its supply tunnel that could turn in the tunnel and save people in case of emergency.

The solution
A HOLDER Trac which is able to fulfil the task perfectly.

Fire extinguishing in Canada

In Canada, a fire fighting machine with a HOLDER as its basic machine. Here the machine is able to show its maneuverability and compactness under extreme conditions.



Typically HOLDER: A perfect solution for every use



Mowing

1
Mowing under trees near to the edges: without compromises possible because of HOLDER's articulated steering



2
Full power on slopes and flanks of hills



3
Optimum efficiency: mowing and vacuuming in one operating cycle



4
Due to the real four-wheel drive with four equal sized tires mowing is gentle on the soil



5
Power and maneuverability are very important in large areas

6
Working width 134 in. with five spiral blades extendable to seven spiral blades and a working width of approx. 180 in.



7
Vertical hydraulic curl out for cleaning and changing of the blades

8
The vacuum unit for flail mowers allows longer mowing intervals. Without problems a 'worm' will transport the mowed goods into the container



Flexibility has a name: HOLDER

Cleaning and maintenance

1 Performance on narrow lanes: an important factor of HOLDER compactness

2 A clean business: sweeping machine in combination with a container

3 Even while cutting hedges: best view of attachment and working area

4 Comfortable sweeping

5 Most efficient: high pressure flushing for pavement and side wall

6 Sub soiling with an optimum in working width

7 Leaf vacuum in combination with a container

8 Pet waste disposal

9 Vegetation disposal

10 For summer usage: a boom sprayer

11 Another specialisation of HOLDER: oil removal constructional unit

Loading and transport

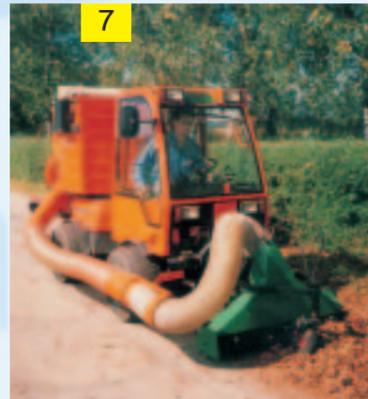
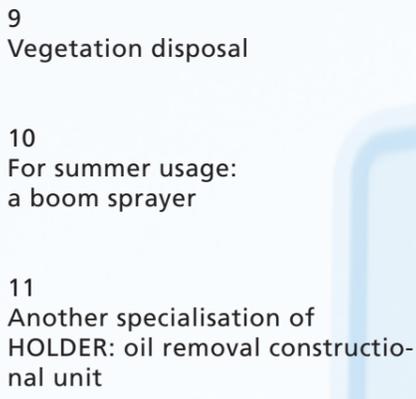
1 Through HOLDER stabilizer wheel the grip is guaranteed

2 Also on HOLDER: dump tipping to three sides

3 Tire grip is absolutely necessary for loading

Cementary maintenance

4 The plus is its compactness and maneuverability



Face the winter – with a HOLDER

Winter service

1
The HOLDER can be equipped with all types of snow attachments of different design and working width

2
Most effective snow blower package in its class

3
HOLDER removes the winter: with a real four-wheel drive and up to 83 hp

4 + 7
HOLDER snow fighting with precision

5
A plus for winter service: HOLDER quietness, non abrasive noise levels

6
Snow removal with the articulated steering of HOLDER: an optimum in maneuverability everywhere

8
accurate working



Technical data

	C 2.34 ^{basic}	C 2.42	C 3.42	C 3.58	C 4.74	C 9.78	C 9.88	A 5.58 C	A 7.72 C	A 8.72 C	
Engine	Deutz engine			Deutz turbo engine							
Power	25 kW/34 HP	31 kW/42 HP	31 kW/42 HP	43 kW/58 HP	54 kW/74 HP	57 kW/78 HP	65 kW/88 HP	43 kW/58 HP	53,5 kW/73 HP	53,5 kW/73 HP	
Cylinder	4	4	4	3	4	4	4	3	4	4	
Cooling	water cooling			oil cooling			integrated oil/air cooling				
Air filter	dry air filter			dry air filter with acoustical warning							
Tank capacity	27 ltr	27 ltr	40 ltr	40 ltr	60 ltr	86 ltr	86 ltr	51 ltr	40 ltr	40 ltr	
Drive clutch	one-disc clutch										
Transmission	SDS	hydrostatic four-wheel drive permanent four-wheel drive		hydrostatic permanent four-wheel drive			gear box	Dual Drive	fully synchron., reverse gear, 12 forward/12 reverse gears permanent four-wheel drive	fully synchronized, reverse gear, 16 forward and 16 reverse gears; permanent four-wheel drive	
Drive	four wheel drive with equal sized wheels										
Differential lock	acting on front and rear axle, hydraulically operated										
Maximum speed	32 km/h	40 km/h	36 km/h	36 km/h	38 km/h	40 km/h	40 km/h	35 km/h	40 km/h	40 km/h	
P.T.O.	live p.t.o.										
Brakes ¹⁾	service and parking brake used as drum brake rear					hydraulically used wet multi disk brake		service and parking brake used as drum brake rear, acting on all four wheels	hydraulically used wet multi disk brake		
Hydraulic pump	70 l/min	24 l/min	35 l/min	35 l/min	42,5 l/min			35 l/min	42,5 l/min, optional tandem pump with flow divider 35 l/min and 27,5 l/min		
		can be extended with adjustable pump			optional with tandem pump, flow divider			optional tandem pump			
Hydraulic tank	16 ltr	16 ltr	16 ltr	24 ltr	42 ltr	45 ltr	45 ltr	18 ltr	18 ltr	18 ltr	
Lifting force rear (quick couplers)	3 point hitch KAT IN and KAT I, 800 dN (optional)			1000 dN	2000 dN	3 point hitch KAT I and KAT II, 1500 dN (optional)		3 point hitch KAT I, 1800 dN (standard)	3 point hitch KAT I and KAT II, 2100 dN (optional)		
Lifting force front (quick couplers)	3 point hitch KAT IN and KAT I, 800 dN (optional)			1150 dN	2000 dN	3 point hitch KAT I and KAT II, 2500 dN (optional)		3 point hitch KAT I, 700 dN (standard)	3 point hitch KAT I and KAT II, 1500 dN (optional)		
Hydraulic valves	1 valve for 3 pt linkage rear (serial)										
Additional valves	maximum of 4 and 1 flow divider (optional); more possibilities through distributing block										
Charcoal filter for full cab	optional										
weight ²⁾											
- permission total weight	2.400 kg	2.400 kg	3.000 kg	3.200 kg	4.000 kg	4.500 kg	4.500 kg	2.800 kg	4.000 kg	4.500 kg	
- permission axle load front	1.380 kg	1.380 kg	1.800 kg	2.000 kg	2.500 kg	2.500 kg	2.500 kg	1.700 kg	2.400 kg	2.500 kg	
- permission axle load rear	1.380 kg	1.380 kg	1.800 kg	2.000 kg	2.500 kg	2.700 kg	2.700 kg	1.700 kg	2.400 kg	2.500 kg	
- permitted draw bar load on hitch	450 kg	450 kg	600 kg	600 kg	800 kg	800 kg	800 kg	600 kg	800 kg	1.050 kg	
Dimensions											
- wheel base	1.530 mm	1.530 mm	1.700 mm	1.760 mm	2.005 mm	1.827 mm	1.827 mm	1.448 mm	1.827 mm	1.827 mm	
- overall length	3.350 mm	3.350 mm	3.625 mm	3.665 mm	4.064 mm	4.098 mm	4.098 mm	3.460 mm	3.880 mm	3.880 mm	
- height with safety bar ³⁾	-	-	-	-	-	-	-	-	-	-	
- height with cab ³⁾	1.950 - 1.960 mm	1.950 - 1.960 mm	2.000 - 2.040 mm	2.030 - 2.070 mm	2.050 - 2.105 mm ⁴⁾	2.035 - 2.115 mm	2.035 - 2.115 mm	2.008 - 2.077 mm	2.020 - 2.100 mm	2.110 - 2.160 mm	
- narrowest track ³⁾	882 mm	882 mm	968 mm	968 mm	968 mm	960 mm	960 mm	701 mm	960 mm	1.102 mm	
- smallest total width ³⁾	1.099 mm	1.099 mm	1.316 mm	1.296 mm	1.240 mm	1.230 mm	1.230 mm	920 mm	1.230 mm	1.392 mm	
carrier box (internal dimensions)	1.010x805x200 mm	1.010x805x200 mm	1.160x1.110x200 mm	1.160x1.110x200 mm	1.540x1.160x200 mm	1.540x1.160x200 mm	1.540x1.160x200 mm	-	-	-	

1) operate as a four wheel brake on all four wheels 2) including driver 75 kg, depending on wheels and equipment 3) depending on wheels 4) high roof

Assortment of HOLDER wheels



This information is intended to be of a general nature only; specifications are subject to change as we continue to improve our products.