



**Swift-moving, tough  
light and compact  
for year-round jobs  
terrain-saving**

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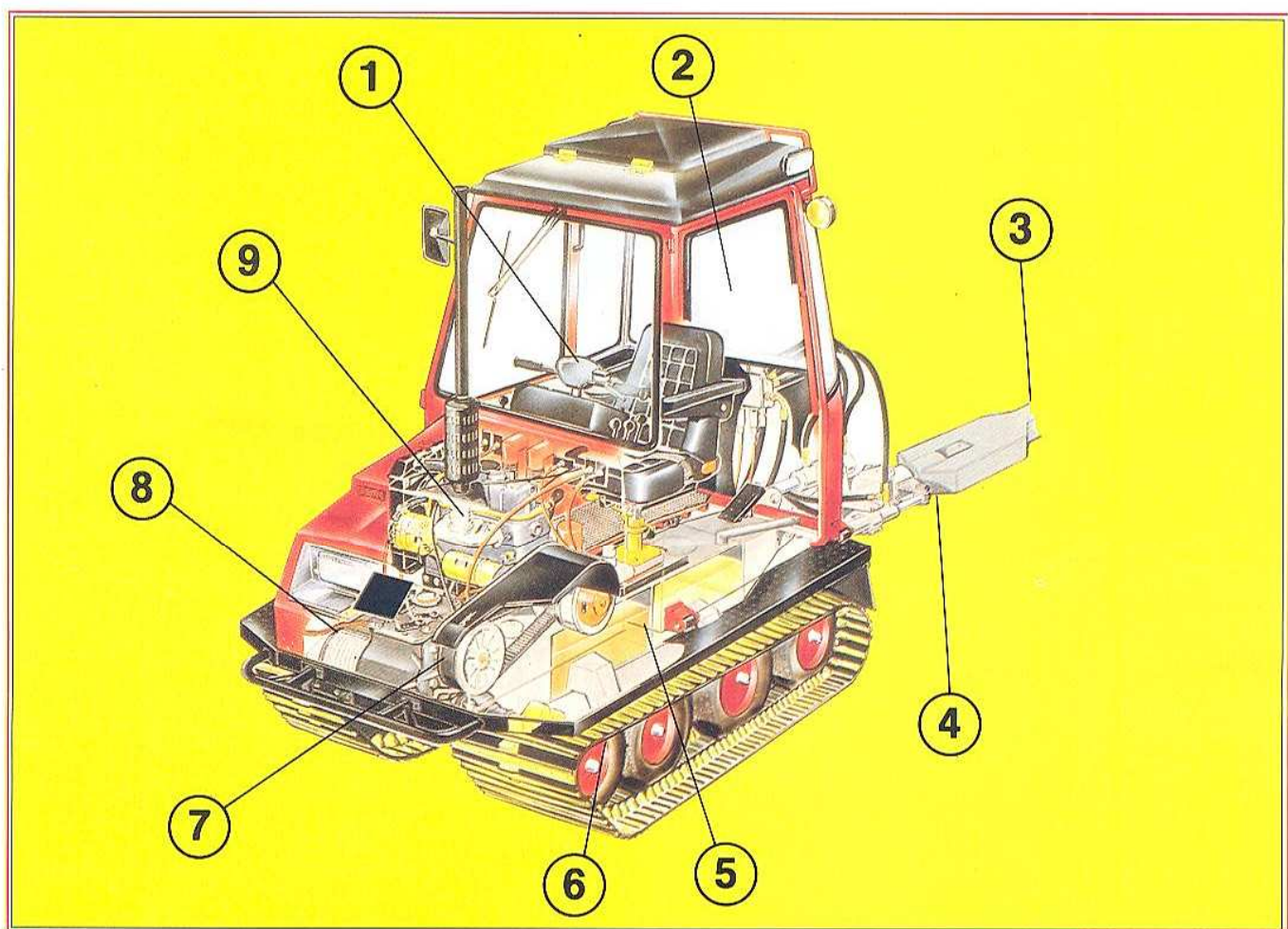
# **TERRI 2020 D all-terrain vehicle**

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# TERRI 2020 D all-terrain vehicle

The TERRI 2020 D ATV is made to be easy on the terrain but tough on the job, no matter what season it is. We've made it small, compact and light, but it is no lightweight when it comes to power and versatility. Its light weight and maneuverability make it able to handle the toughest jobs reliably

with minimal damage to the terrain. TERRI is the solution to any number of tasks and transportation jobs in the field. It is a productive tool in the hands of a skillful contractor.



- ① Steering bar with control levers on both sides. The bar provides for a secure grip and steering is easy.
- ② The ergonomically designed cab is comfortable and warm. The noise level is about 78 dBA. Visibility in every direction is excellent.
- ③ Benches, grapple loader and bogie are attached to the frame of the trailer. Benches and bogie shaft can be easily adjusted according to the length of the timber being transported.
- ④ The trailer and optionals are joined to the drawing bar with quick joints. Hydraulic cylinders for frame-steering on both sides. Load cylinder on top increases maneuverability.
- ⑤ Hydraulic oil tank as well as fuel tank located inside frame between tracks, providing a low center of gravity.
- ⑥ Levers on the track bogie effectively eliminate unevenness of terrain.
- ⑦ Automatic torque converter, which triples engine torque, along with a strong gearbox provide the firmness and power needed in pulling.
- ⑧ Mechanical winch. Pulling power 1400 kp.
- ⑨ Reliable 3-cylinder Kubota diesel engine with low fuel consumption (2.5 l/h for timber hauling). Low noise level.

## SWIFT-MOVING IN TIGHT SPOTS

Compact size is the frame-steered TERRI's greatest advantage. It can maneuver nimbly in tight spots or in generally difficult terrain. Its low surface pressure makes it unbeatable in young forest, peatlands and swampy areas. Not even spring road conditions will stop it. Only one and a half meters wide, it requires a mere 2 - 2.5 meters of space in the forest. The swivel-armed bogie runs smoothly along the uneven terrain and keeps the load upright.



## TERRAIN-SAVING

The TERRI is environment-friendly in many respects. Its light weight is a key factor. Even fully loaded it weighs only 3.5 - 4 tons and the surface pressure at that weight is about 250 g/cm<sup>2</sup>.

The bogie follows the terrain very well. The vehicle is frame-steered and equipped with a differential. When turning, the tracks rotate at varying speeds and no track braking takes place. The track bars are U-shaped and are lowered at the edges, leaving truly minimal marks in the landscape.

Because it is compact, TERRI can work in tight and delicate places, for example, young forests, farming areas, parks and outdoor trails, with no damage to the land or trees. This is brought about by precise operation of the loader and sensible motions.

A skilled operator at the controls of a Terri, with its many excellent features, makes for productive work that is saving the terrain.

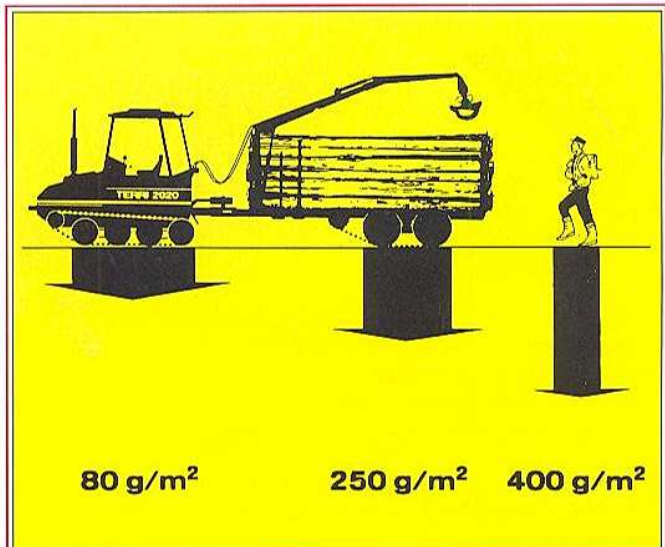
## TOUGH PULLER GOOD TERRAIN CAPABILITY



The engine in the Terri is a 3-cylinder Kubota diesel. It has proven to be tough and reliable. The secret of its power is an ingenious transmission which triples the torque of the motor before the power is transferred via the gearbox to the tracks. Pulling power is an ample 2000 kp, which is far greater than the vehicle's own weight. Top speed is 28 km/h.

The trailer can be outfitted with a hydrostatic drive, which ensures pulling even when the tracks are slipping. Using the load cylinder between the Terri and the trailer the vehicle can be locked straight and the front can be raised. This is an incomparable advantage when crossing ditches.

The grade of the hill in the picture is 22 degrees.



## SWIFT-MOVING IN THE TERRAIN PRODUCTIVE ON THE JOB

The Terri ATV is an excellent worker for many whose work takes them into the field: electric and telephone companies, public works, soil researchers and ore prospectors, municipalities, fire departments, the armed forces, outdoor recreation centers, agriculture and forestry, rescue services and the like.

Terri is also the answer where contracting is concerned: short- or longhaul timber transportation, seedling transportation, fertilizer spreading, preparing, making and maintaining ski tracks, clearing recreational trails and grooming snowmobile trails. Ease of operation and speed mean Terri will do even small jobs at low cost. With Terri both original investment and operating costs are low.



## EASY TO TRANSPORT



Terri's light weight and compactness are great advantages. Transportation from one site to another is fast and cheap.

The TM trailer, with a total weight of 2500 or 3200 kg, has been specially developed for transportation (in Finland). The ATV can be transported anywhere using a four-wheel-drive offroad vehicle. The photograph shows a complete forest fire unit in northern Finland.



Under winter conditions the tractor is equipped with winter tracks and the trailer is outfitted with runners. When temperatures get above freezing, the runners can be fit with durable plastic bottoms.

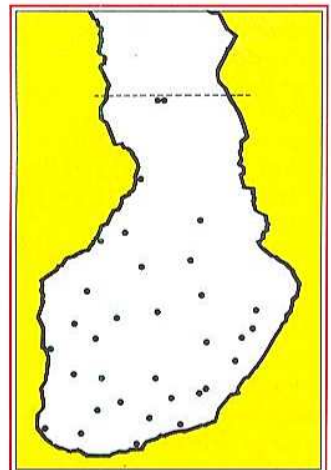


Soil-sampling equipment mounted on the trailer is driven by Terri's own hydraulic outlet. The machine has to drive to points marked in advance on the map. It is cases like these where its excellent agility and terrain capability become crucial.

## PRODUCTION AND TESTING

Nordtrac Ltd., the manufacturer of the TERRI ATV is located right on the Arctic Circle in the city of Rovaniemi. This situation gives us the best testing area in the world. Plenty of snow; wintertime often 30 to 35 below zero Centigrade; we have swamps, hills, steep slopes and difficult forest conditions.

After almost 20 years of experience we know that TERRI can handle most terrain problems that come up. We also know that Terri stands for tough and long-lasting operation.



## EQUIPMENT FOR A TERRI CONTRACTOR

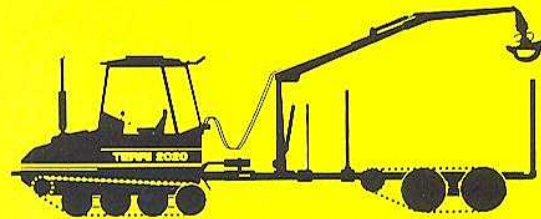
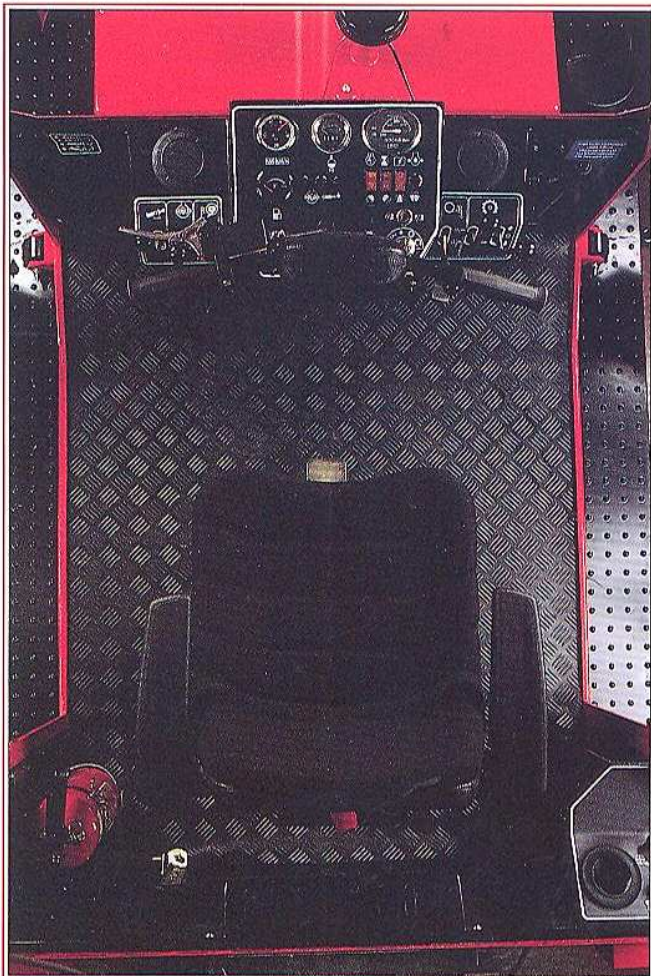
A Terri contractor knows what his machine can do; top performance day in day out the year round. By equipping the Terri with equipment for his site and surroundings he can get top productivity from the machine throughout the year.

This equipment can comprise the following; equipment for both shorthaul and longhaul timber transport, winter and summer operation, seedling transport container, fertilizer spreader, ski track maker and groomer (Ski-Master), transportation platform and transportation equipment for the Terri unit. The equipment is outfitted with quick connections made especially for the Terri. The Terri can be quickly adapted from one job to another according to work and season.

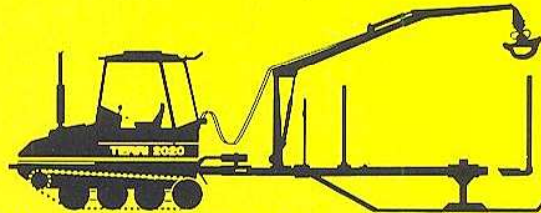
### GOOD SAFETY CAB

The safety cab on the Terri is a nice place to work in. It is spacious, warm and quiet. The floor is even; there are doors on both sides and visibility in every direction is excellent. The suspension on the 360° swivelling seat can be adjusted to the weight of the driver.

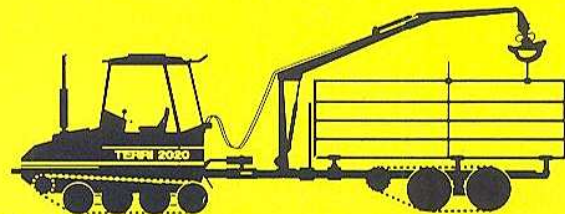
There is space for a radio and mobile telephone. The dashboard is straight forward in design and all controls are within easy reach of the driver. Handling is easy and exact in all situations. In skilled hands the Terri is an efficient and energetic worker.



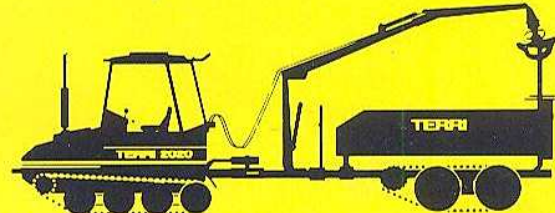
Wood transportation, trailer drive



Wood transportation, ski runners



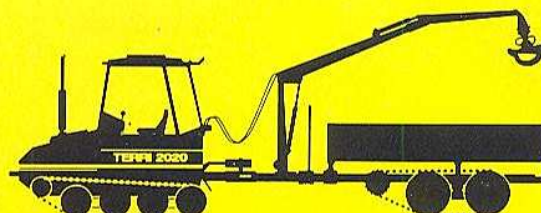
Seedling transportation container



Fertilizer spreader



Ski track maker (Ski-Master)



Transportation platform



Terri trailer

# TERRI 2020 D

Swivelling bogie arms and load cylinder make Terri a swift-moving and reliable year-round ATV that is terrain-saving. It is light, compact, fast and tough. It carries, pulls and pushes. There is no limit to its uses.

Here are some of the ways Terri can be used along with the equipment configurations for them:

Short-haul timber transportation in young forests are just the kind of job Terri was made for. The tighter and softer the surrounding the more Terri's main features – swift-moving, compactness and light weight – come into their own. The grapple loader, specially designed for Terri, is a key factor, its operations are quick and percise. At 3.5 or 4.2 meters it can lift 250 kg.



Terri 2000 D is a special model with a safety rollbar replacing the safety cab, and a saddle seat for two persons.

When working in difficult and tight places the safety cab may hinder driving in the terrain and the driver in getting repeatedly in and out of the cabin. In that case Terri 2000 D is an excellent solution. The machine has an accelerator pedal both in front and back and its weight is about 1100 kg. Still construction and technics in Terri 2000 D are the same as in Terri 2020 D.



The Terri processor is well suited to first thinnings. It delimits and cuts trees felled by a human logger. Max. cutting diameter is 300 mm. The processor can be mounted quickly onto the trailer frames with screws.



The Terri skidder is a grapple skidder for long-haul timber transport. Grapple opening 1270 mm, revolving loader, reach 3.3 m, lifting capacity 1300 kg. Maximum log size about 2 m<sup>3</sup>.

# all-terrain vehicle one ma



The Terri Logger Harvester is made for mechanization of first forest thinning. The harvester head is a Tapio 250 with step feeding. Felling diameter is 300 mm and weight 250 kg. The Terri Logger is compact, only 1550 mm, weight 3300 kg.

Surface pressure 200 g/cm<sup>3</sup>. For thinning work the loader has a reach of 4.5 m and the machine can operate in spaces as narrow as 2 m. Excellent for first thinnings.



Seedling transportation to difficult planting areas is an easy job with Terri. The container holds 80 40x60 cm boxes. Pine seedlings 17000 pcs, spruce seedlings 12000 pcs. Good terrain handling and high speed (28 km/h) are important advantages in this work.



Fertilizer spreading requires good terrain handling, compactness, swift-movability, and reliable ditch crossing. Even spreading width is about 30 m and can be adjusted up to a maximum of 60 m. The spreader container can hold up to two 600 kg sacks, which are lifted into place with the Terri loader. The spreader unit has its own motor which is controlled from the cab.



The Terri trailer can also be outfitted with a personnel transport cab with room for 10 persons. The cab has a self-supporting frame and a canvas roof. It can also be used as a resting cab when stationary.



A number of trailer types have been developed for electric and telephone companies. A cable reel transport and laying trailer lifts the reel from the ground hydraulically. On slopes the reel can be aligned with hydraulic lifting arms. On the back cover you can see a combination trailer for piece transport and pole hauling.

# chine, tens of uses in all seasons



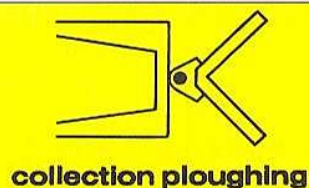
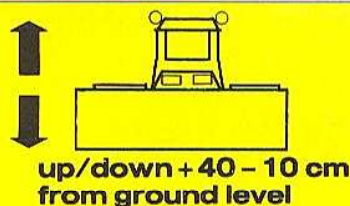
## SKI-MASTER TERRI 2020 D SKI TRACK MAKER

The Terri Ski-Master track maker has 670 mm winter tracks and a hydraulic 8-function blade in front. At the rear is the trackmaking device, which has a toothed blade for breaking ice and grading the track. The device can be equipped with a snow cutter consisting of a cylinder with teeth, a planing blade and a chopper.

The pressure plate has a working width of 2 m. It is possible to make narrow recreational ski track or a 3 to 4 m-wide competition track for both free-style or diagonal cross-country skiing. The unit is frame-steered, ensuring safety and precision of handling. The track making device connected in the rear makes all bends smooth.



### FRONTBLADE FUNCTIONS





## TECHNICAL SPECIFICATIONS

### TERRI 2020 D AND TERRI 2000 D ATV

Engine	Kubota DH 850 – B 3-cyl. diesel	Hydraulic oil tank	50 l
Power	23 hp/17 kW/3600 rpm	Brakes	Hydraulic running brake, mechanical parking brake
Torque	5 kpm/50 Nm/2400 rpm	Weight	Terri 2020 D 1380 kg Terri 2000 D 1135 kg
Displacement	855 cc	Working lights	Terri 2020 D 4 x 55 W Terri 2000 D 1 x 45 W
Alternator	12 V/420 W	<b>TRAILER</b>	
Cooling	Liquid cooled	Wheels	6.40" x 13"/8 PR
Wheels Terri	4" x 8"/8 PR	Max width	1440 mm (with tracks 1550 mm)
Max height	Terri 2020 D 2350 mm Terri 2000 D 2270 mm	Weight	310 kg
Max width	1460 mm	Carrying capacity	1700 kg
Width 670 mm		Overall length of complete unit	6500 – 6950 mm
snow tracks	1800 mm	<b>Trailer drive</b>	Hydrostatic, pulling power, 1000 kp, gear drive via tracks, tracks steelreinforced
Fuel tank	35 l	Hydraulic pump	Selfadjustable piston pump
Power transmission	Torque converter: self adjusting V-belt variator	Pressure	210 kp/cm <sup>2</sup>
Gearbox	2 gears forward, 2 gears reverse and neutral, mechanical differential lock	Oil flow	Electrical choise 17 l/min or 38 l/min
Winch mechanical	Terri 2020 D 1400 kp standard frontmounted Terri 2000 D 1400 kp optional frontmounted	Trailer drive engaging	Separate control levers with automatic return to neutral position for both motors
Speed	Max 28 km/h	Optional	Hydraulic runnig and parking brake for trailer
Steering	Hydraulic frame steering		
Hydraulic pump	160 bar, 35 l/min		
Hydraulic outlet	1/2" snap-on connection, 160 bar, 35 l/min		

### TERRI 2020 GRAPPLE LOADER

Range	3,5 m	4,2 m
Lifting torque	900 kNm/900 kpm	12 kNm/1200 kpm
Lifting capacity	250 kg/3,5 m	250 kp/4,2 m
Slewing angle	270°	270°
Slewing torque	3,7 kNm/370 kpm	3,7 kNm/370 kpm
Grapple opening	0,93 m	0,93 m
Grapple area	0,15 m <sup>2</sup>	0,15 m <sup>2</sup>
Grapple turning	endless	endless
Weight incl. valve board	280 kg	330 kp
Hydraulic support legs	standard	standard
Lifting cylinder	double action	double-action

### TERRI LOGGER HARVESTER

The unit consists of:  
Terri 2020 ATV and a harvester trailer, equipped with a harvester with own power unit.

Total weight	3300 kg
Length	6500 mm
Width	1550 mm
Engine (harvester)	Kubota V1902-B, 4-cyl. diesel
Power	30 kW/41 hp/2800 orpm
Torque	120 Nm/12 kpm/1600 rpm
Electric starter	12 V/1,4 kW
Fuel pump	electrical
Hydraulic pump	83l/min/2000 rpm
Hydraulic pressure	160 kp/cm <sup>2</sup>
Hydraulic oil tank	140 l, oil level indicator and thermometer outside oil tank
Fuel tank	28 l
Hydraulic oil min. level	warning light
Hydraulic oil filter	pressure and return filter
Loader	RKP 18-45 Zoom
Lifting torque	18 kNm/1800 kpm
Range	4,5 m
Lifting arm extension	0,9 m
Slewing angle	320 degrees
Slewing torque	6,0 kNm/600 kpm
Hydraulic support legs	standard
Valve board operating	two-stick control
Harvester head	Tapio 250
Cutting saw	cutting bar 13"
Stroke length	1000 mm + – 30 mm/3 m
Delimiting diameter	250 mm
Felling diameter	300 mm
Length and volume measuring equipment	available as optional.

### SKI-MASTER TERRI 2020 D SKITRACK MAKER

The unit consists of:  
Terri 2020 D pulling unit, front blade with 8 functions,  
skitrack making device with smoothing blade (ice breaking)

Optional: Snowcutter (toothed cylinder, planing blade and chopper)

Overall length	6500 mm
Length without front blade	6200 mm
Working width	2000 mm
Weights:	
Total weight	1970 kg
– weight without front blade	1810 kg
– front blade	160 kg
– skitrack making device	350 kg
– snowcutter (optional)	80 kg

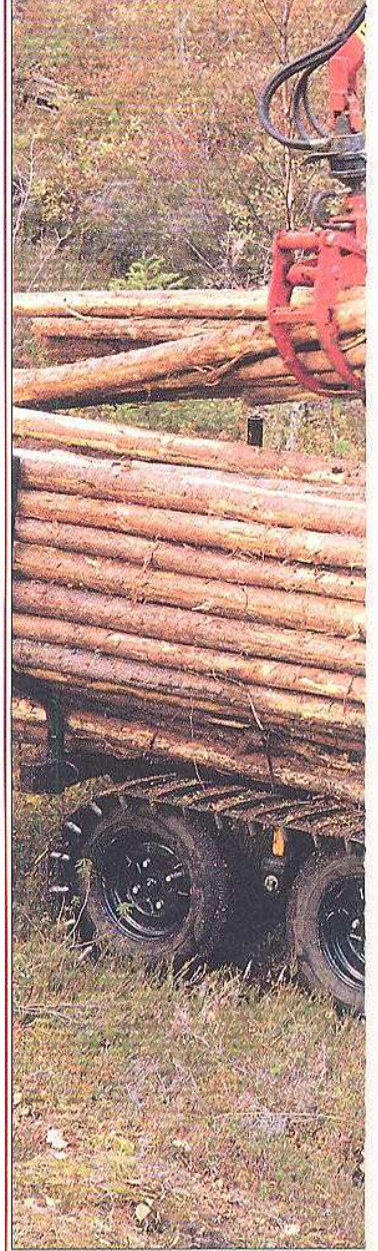
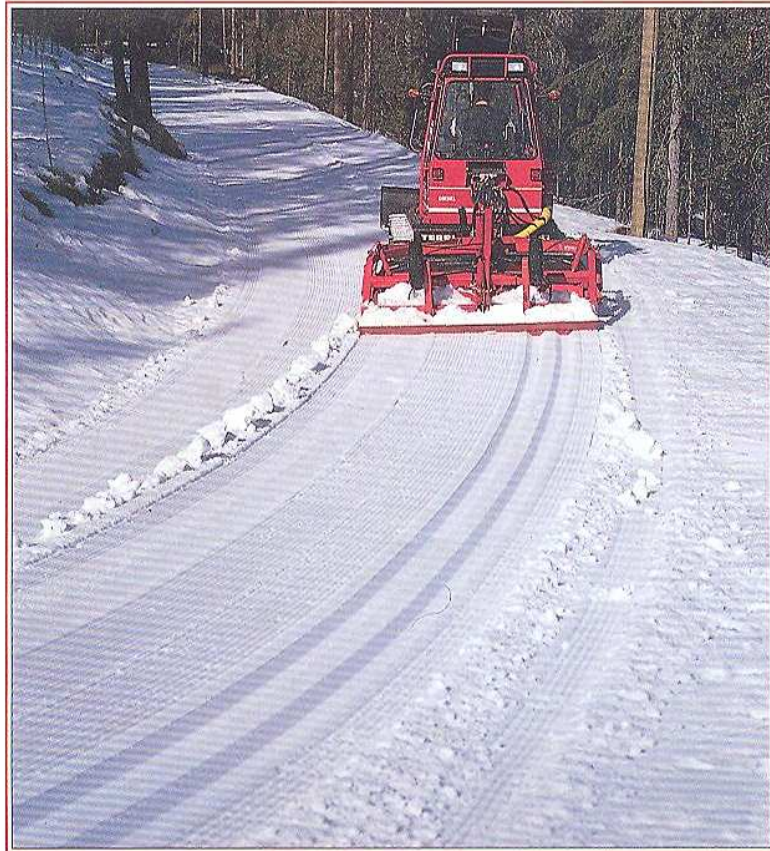
Steering of the unit:  
Frame-steering equipped with adjustable valve for regulation of steering speed.

### TERRI FERTILIZE SPREADER

Mounting	on the trailer
Weight	about 400 kg
Volyme	1250 l
Carrying capacity	1600 kg
Engine	Briggs & Stratton 11 hp 4-stroke gasoline
Elektric starter	standard
Remote control	standard
Spreading width	adjustable max 60 m
Cover	standard
Knife for opening big sacks	

### TERRI processor

Cutting diameter	300 mm
Delimiting diameter	250 mm
Feeding reel	
pulling power	1400 kp
Feeding speed	2 m/sek.
Weight	appr. 550 kg
Hydraulic oil tank	85 l
Hydraulic pump,	pressure 210 kp/cm <sup>2</sup> oil flow max 55 l/min



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