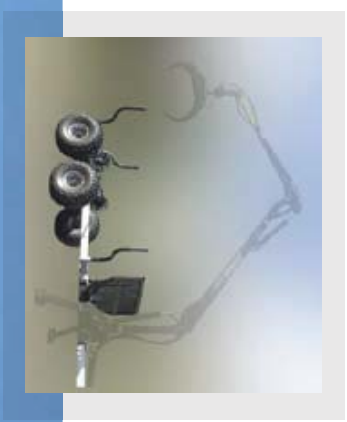


# KREISI metall



Universal timber trailer





**Kreisi Metall** was founded in 2006. We are manufacturing a universal and all year around usable forest log trailer VAHVA JUSSI 320 that is affordable and easily manageable for forest owners and forest managing companies. The weight of our trailer and reliability has been the most important part for us from the very beginning. A forest trailer that could be used all year around has been our biggest aim.

"Thinking green" is also a very important issue nowadays and to preserve natural forests we have constructed this small trailer that can be attached behind any small utility vehicle or tractor independent of a hydraulic pump. Our package includes a hydraulic unit that can be mounted on ATV, UTV or trucks.

Our product is constantly in development to offer the most innovative solutions to our clients. Thanks to the universal frame construction we can develop accessories like extra bolster set, earth bucket, earth auger or hydraulically tilting box. The steering levers of the hydraulic valve package are the same as used with big cranes so you do not have to learn them over again.

With small tractors you can use the oil pump of your tractor. If the vehicle does not have an oil pump you replace it with our hydraulic unit that has a 5,5hp Honda engine that gives the needed oil pressure to operate the crane, drill, earth bucket or energy wood head.



### **Advantages:**

- ✓ Low weight
- ✓ Reliability
- ✓ Versatility
- ✓ Can be used year-round
- ✓ Compatible with different vehicles
- ✓ Low operating costs
- ✓ Preserves the environment
- ✓ Easy for operation and service



# trailer

Crane and log bolster posts can be moved on the main frame to adjust the load balance of that trailer. The loading bed can also be additionally extended for the length of 0.5 or 1.0 m after which it is possible to transport logs with a length up to 5.0 m

Maximum load at 25 km/h - 1500 kg.  
 Maximum speed - 30 km/h  
 Loading area - 2.400 m  
 Length - 3.809 m  
 Width - 1.252 m  
 Tires - 22x11-8  
 Weight - 170 kg.



for timber transport

## Tipping box:

The tipping box can be easily mounted on the trailer. The box is connected to the frame with belts - it is fast and flexible. Low weight and durability is achieved by using strong plastic at the bottom and sides of tipping box.

Weight - 150 kg.  
 Maximum load - 1000 kg.  
 Maximum opening angle - 46 degrees  
 Dimensions - W / L / H - 127/200/29,5 cm



for transporting all types of materials

# grapple loader

## Grapple loader Vahva Jussi 320

Grapple is made robust and reliable, with low weight and high durability.

Hydraulic distributor -	5/7 XY	Radius of rotation -	330 degrees
Maximum reach of the crane -	3,2 m	Radius of rotation of the rotator -	infinite
Maximum weight lifting at 3.2 m -	280 kg.	Rotator GR10 -	1 T
Maximum weight lifting at 2.0 m -	415 kg.	Grapple -	0.08 m2
Maximum lifting force -	550 kg.	Maximum opening of grapple -	750 mm.
Maximum oil pressure -	175 bar	Weight -	150 kg



## Grapple loader Vahva Jussi 400

Grapple is made robust and reliable, with low weight and high durability. It has a telescopic extension for greater maneuverability and accessibility.

Hydraulic distributor -	6/8 XY
Maximum reach of the crane -	4,0 m
Maximum weight lifting at 3.2 m -	260 kg.
Maximum weight lifting at 2.0 m -	385 kg.
Maximum lifting force -	530 kg.
Maximum oil pressure -	175 bar.
Radius of rotation -	330 degrees
Radius of rotation of the rotator -	infinite
Rotator GR10 -	1 T
Grapple -	0.08 m2
Maximum opening of grapple -	750 mm.
Weight -	170 kg



## Trailer frame extension:

Required when transporting logs up to 5 m long.  
 Two sizes of frame extensions: 0.5 m and 1.0 m

**Yellow bolster post extension:** Required for energy wood and branch transport



## Different accessories to use with the log crane

### Log grapple:

- Strong and reliable, made with low weight and greater durability
- Maximum opening - 750 mm.
- Capacity - 0.08 m<sup>2</sup>
- The weight - 27 kg.



### Energy wood grapple:

Ideal for small forest holdings; cleaning woodland, vineyards, gardens or ditches. Upon removal of one bolt and blade it can be used as an ordinary log grapple.

- Working oil pressure - 170-190 bar.
- Maximum oil pressure - 210 bar.
- Weight - 52 kg.
- 1 ton rotator adapter - Ø 39,5 mm.
- 3 tons rotator adapter - Ø 49,5 mm.
- Maximum cutting diameter - 12 cm
- Cutting edge - Hardox 500



### Earth bucket:



Capacity - 60 liters  
Weight - 60 kg



### Earth drill for holes:

Ideal for drilling holes in soft ground, such as building fences.



Three sizes:

- Ø 100 MM
- Ø 150 MM
- Ø 200 MM



As additional equipment the crane can be equipped with a radio controlled hydraulic winch:

### Radio controlled hydraulic winch:

The winch helps to pull the logs closer from inaccessible and dangerous places.

- Operating range of the remote control - 25 m
- Weight - 11 kg.
- Wire Rope - Length 25 m, 5mm thick
- Pulling speed - 35 m. / Min.
- Pulling force - 435 kg.



As optional equipment on the trailer you can install 4x4 hydraulic drive system.

### 4x4 hydraulic drive system:



Helps an ATV/UTV to move in snow, mud, steep and slippery slopes. Can be used as a brake on the descents.

- Maximum movement speed - 3 km/h
- Pushing force of 4WD - 650 kg
- Min oil pressure - 175bar
- Min oil flow - 9 L/min





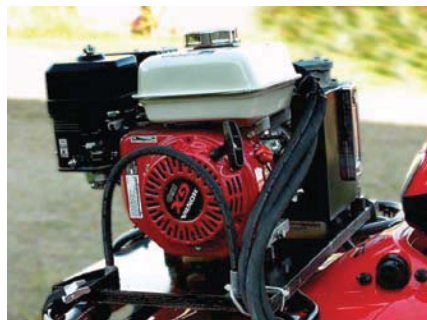


Hydraulic unit:

**Honda 5,5hp hydraulic unit with manual starter:** \_\_\_\_\_

Specifications:

- Engine - 4-stroke Honda GX160
- Power - 5.5 hp
- Weight - 38 kg.
- Dimensions - 65 x 40 x 40 cm
- Fuel tank - 3,5 l



**Honda power pack with electric starter and battery:** \_\_\_\_\_

Powers crane and other equipment that needs oil for operation.

Description:

- Engine - 4-stroke Honda GX200
- Power - 6.5 hp
- Weight - 50 kg.
- Dimensions - 65 x 45 x 40 cm
- Fuel tank - 3,5 l



... another possibility to use a hydraulic pump on your tractor PTO:





You can use a variety of vehicles . . . . .

small tractors



4x4 cars and Pick-Up's



Iron Horse



ATV or UTV



and others . . .



Applications:

- forestry
- agriculture
- gardening and Landscaping
- livestock
- vineyards
- construction



. . . . . ideal for use in nature protected areas and parks







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