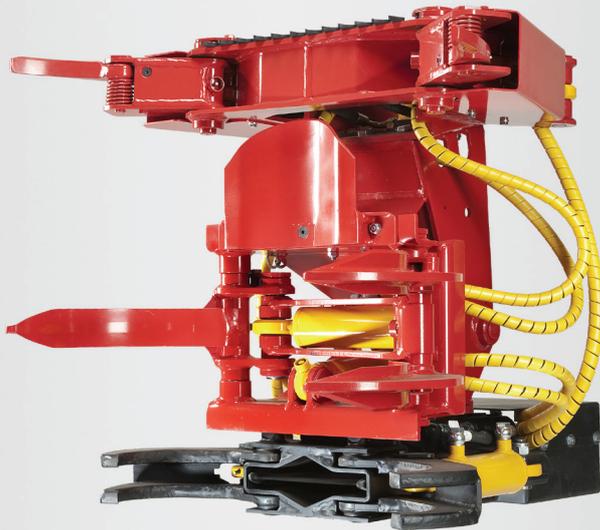


NAARVA**E20**

An accumulating energy wood head for tractors and 5-8 ton excavators



Features

- Light and efficient
- Excellent loading capabilities
- Effective guillotine cutting, 20-23cm
- Easy installation, no additional hydraulics or hosing
- Radio control option

Suitable for

- Energy wood harvesting
- Small wood harvesting by accumulation
- Clearing of power lines, roadsides and field edges



Efficiency for all purposes

The modular structure of the Naarva and the various size options of the frame, guillotine, and accumulating grippers facilitate customisation based on the base machine and the intended purpose.

Accumulating gripper options

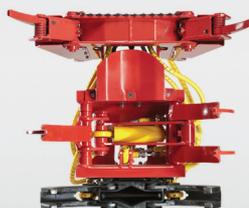
HIGH - FOR TALL STEMS

- Stable handling of tall stem groups
- A narrower structure, better handling in thick forest
- Opening 65 cm
- Distance between loading grapple and accumulating unit 75 cm



WIDE - FOR TREE BUNDLES AND BUSHES

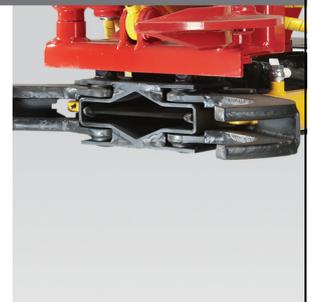
- A wide accumulating grip for larger tree groups and bushes
- Efficient clearing of roadsides
- Opening 90 cm
- Distance between loading grapple and the accumulating unit 43 cm



Guillotine options

STRONG - MAXIMUM CUTTING POWER

- Traditional Naarva-guillotine
- A two-phase cutting:
 1. Grippers close around the tree
 2. Cutting cylinder pushes the blade through the tree
- Max. cutting \varnothing 23 cm
- Hydraulic valves in the guillotine



FAST - HIGH PRODUCTIVITY WITH SMALL WOOD

- A new, innovative Naarva-guillotine
- Cuts with one stroke
 1. Grippers press the tree against the blade that is forced through the tree
- Max. cutting \varnothing 20 cm
- Hydraulic valves in the grapple



A new product!

	High accumulating grippers, strong guillotine	Wide accumulating grippers, strong guillotine	High accumulating grippers, fast guillotine	Wide accumulating grippers, fast guillotine
Production code	E23	EL23	E20	EL20
Weight	260 kg	280 kg	290 kg	310 kg
Height in felling position	120 cm	90 cm	120 cm	90 cm
Grapple / accumulating gripper opening	60 cm / 65 cm	60 cm / 90 cm	60 cm / 65 cm	60 cm / 90 cm
Cutting diameter*, force and time**	Max. cutting: Ø 23 cm Cutting force: 95 kN Cutting time: 1,8s		Max. cutting: Ø 20 cm Cutting force: 50 kN Cutting time: 1,2s	
Required pressure	170-200 bar			
Required oil flow	40-70 l/min			
Warranty	12 months or 1000 hours			
Control system	Cable control with 3 buttons			
Voltage	12V or 24V			

All provided values are approximations. The manufacturer reserves the right to make changes in the products. 04/2011.

* The max. cutting diameter is approx. 30% lower for hard wood (such as oak and beech). ** With 70 l/min oil flow

Accessories

- Radio control with various transmitter options
- Extension boom for 5-8 ton excavator
- Cejn Flat face quick couplings
- Rotator FR7 / FR10 / FR15
- Suitable link for rotator
- Spare part packages
 - Basic wear and tear part package including seal kits, rubber damper, valve connectors
 - Wide spare part package including basic package + spare parts for valves and complete hose-set

For more information: www.naarva.fi

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MANUFACTURER

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SALES, SPARE PARTS AND TECHNICAL SUPPORT

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