



# BIOJACK<sup>®</sup> 230



## TREE SHEAR 4 in 1

*Delimb, cut, collect, load*

- ✓ Forwarders, trailers, trucks, excavators 6-10 t
- ✓ Light and strong
- ✓ Quick cut, Ø20-25 cm
- ✓ Low stump



**MADE IN FINLAND**

Biojack Oy | [www.biojack.fi](http://www.biojack.fi)  
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*Tilt function on cranes  
Delimbing grapple as standard  
Only 2 hydraulic hoses*



*Fix mounting  
with rotator!*



The **Biojack 230** is a robust and agile grapple designed for tough conditions. Easy and quick to install on a small crane, on small trucks, forest trailers, or mini-excavators. The grapple holds the tree firmly before the cut starts, max safety next to powerlines. Its user-friendliness is what makes it special. It moves smoothly through the trees, and thanks to its diverse functions, it can be used both for **cutting** and **loading**, without any modification. The grapple can be used for **delimbing** trees, as standard.

**Work cycle:** Press the hydraulic command, the grapple grabs a tree, the knife cuts, the tilt falls the tree. Then use the grapple for sorting and loading duty, just like that!

Biojack grapples are durable and sturdy, manufactured by Nummek in Finland, from top quality materials. All our products are user-friendly, easy and fast to use instinctively, and can be customized according to your needs, so you can simply focus on your work.

	CRANE	EXCAVATOR
<b>Weight</b>	230 kg (505 lbs)	270 kg (595 lbs)
<b>Cut diameter max.</b> (hardwood-softwood) Scandinavian woods	200-250 mm (8-10")	200-250 mm (8-10")
<b>Cut mode</b>	Blade Hardox 500	Blade Hardox 500
<b>Oil flow</b>	40-80 L/min (10-21 gpm)	40-80 L/min (10-21 gpm)
<b>Operating pressure</b>	190-240 bar (2755-3480 psi)	190-240 bar (2755-3480 psi)
<b>Back pressure max</b>	20-30 bar (290-435 psi)	20-30 bar (290-435 psi)
<b>Grapple opening</b>	775 mm (30")	775 mm (30")
<b>Grapple type</b>	Delimbing grapple standard	Delimbing grapple standard
<b>Shut off valves</b>	Blade Tilt	Boom: No BA90: Blade
<b>Height in felling position</b>	490 mm (19")	490 mm (19")
<b>Coupling type</b>	Flange $\varnothing$ 173 mm & 140x140 mm	Boom, BA90 or BA45
<b>Hydraulic connections</b>	1/2" (2 hoses, pressure and return)	1/2" (2 hoses, pressure and return)
<b>Base machines</b>	Tractors, trucks, forwarders	Excavators 6-10 t, telehandlers
<b>Options</b>	Rotator adapter 4-fingered grapple (brushwood) E-kit, accumulation grapple Wireless control for the E-kit Hooked knife	Boom, BA90, or BA45 Rotator CPR9 Coupling Box E-kit, accumulation grapple Wireless control for the E-kit Quick coupling Hooked knife



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