



BIOJACK[®] 230



TREE SHEAR 4 in 1

Delimb, cut, collect, load

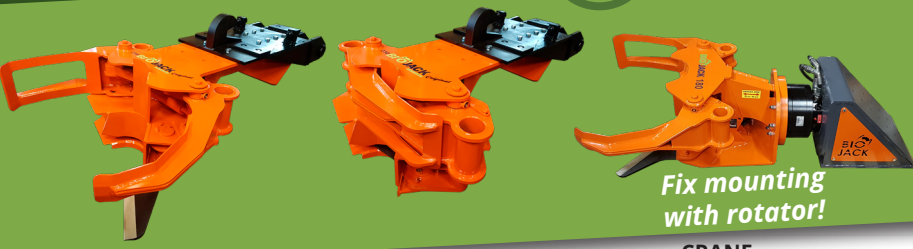
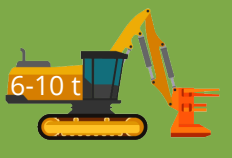
- ✓ Forwarders, trailers, trucks, excavators 6-10 t
- ✓ Light and strong
- ✓ Quick cut, Ø20-25 cm
- ✓ Low stump

 **MADE IN FINLAND**

Biojack Oy | www.biojack.fi
Valimotie 1, FI-25500 Perniö | info@biojack.fi



Tilt function on cranes
Delimiting 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 the rotator of a crane. 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 **delimiting** trees, as standard.

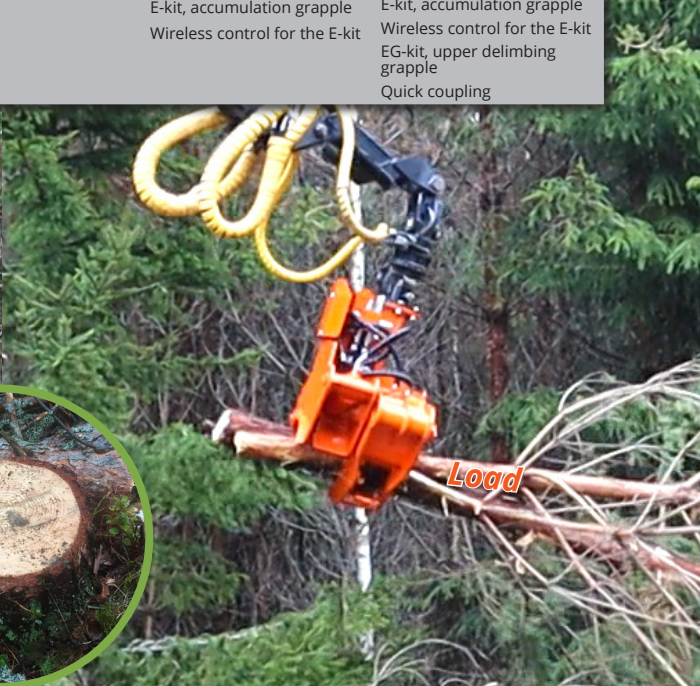
Work cycle: Press the hydraulic command, the grapple grabs a tree, the knife cuts, the tilt falls the tree. Then use the grapple for sorting and loading duty, just like that!

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 |
|--|---|---|
| Weight | 230 kg (505 lbs) | 270 kg (595 lbs) |
| Cut diameter max. (hardwood-softwood) | 200-250 mm (8-10") | 200-250 mm (8-10") |
| Cut mode | Blade Hardox 500 | Blade Hardox 500 |
| Oil flow | 40-80 L/min (10-21 gpm) | 40-80 L/min (10-21 gpm) |
| Operating pressure | 190-240 bar | 190-240 bar |
| Back pressure max | 20-30 bar | 20-30 bar |
| Grapple opening | 775 mm (30") | 775 mm (30") |
| Grapple type | Delimiting grapple standard | Delimiting grapple standard |
| Shut off valves | Blade Tilt | Boom: No BA90: Blade |
| Height in felling position | 490 mm (19") | 490 mm (19") |
| Connection to rotator | Flange ø173 mm | Boom or BA90 |
| Hydraulic connections | 1/2" (2 hoses, pressure and return) | 1/2" (2 hoses, pressure and return) |
| Base machines | Tractors, trucks, forwarders | Excavators 6-10 t, telehandlers |
| Options | Rotator adapter Normal grapple (round wood) 4-fingered grapple (brushwood) E-kit, accumulation grapple Wireless control for the E-kit | Boom BA90 Rotator CPR9 Coupling Box Normal grapple (round wood) 4-fingered grapple (brushwood) E-kit, accumulation grapple Wireless control for the E-kit EG-kit, upper delimiting grapple Quick coupling |



www.biojack.fi



 **MADE IN FINLAND**

Biojack Oy | www.biojack.fi
Valimotie 1, FI-25500 Perniö | info@biojack.fi