

KINSHOFER attachments for biomass handling

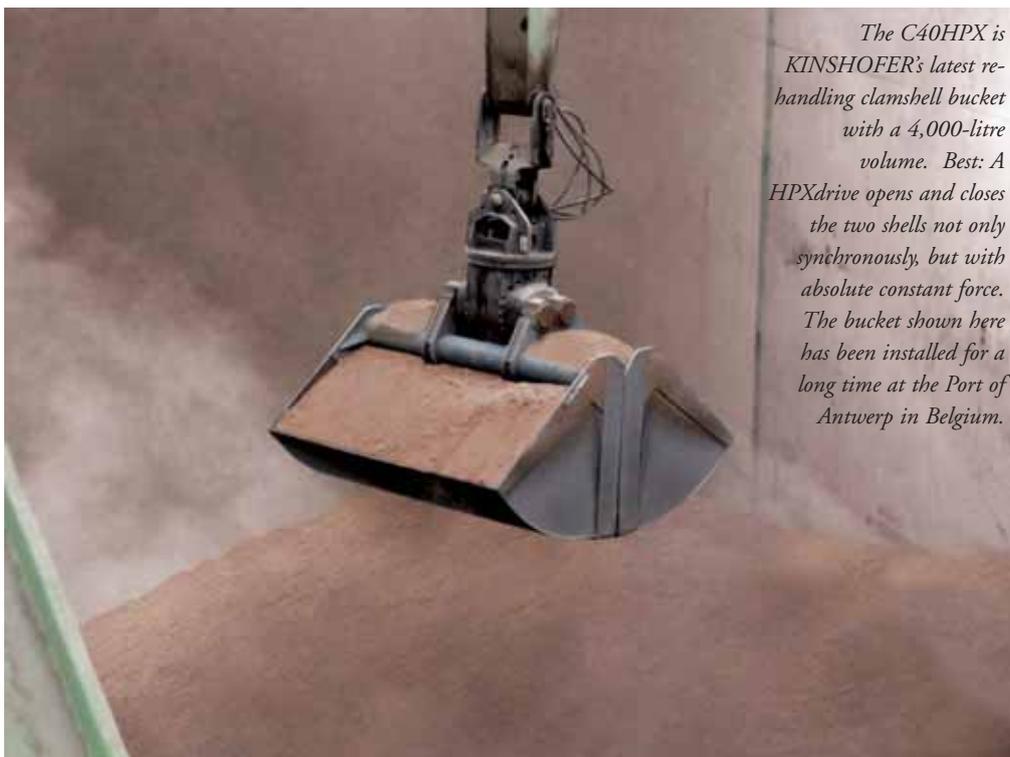
KINSHOFER is a leading global provider of high-quality attachments for loading cranes and excavators. Founded 45 years ago, in Miesbach near Munich, Germany, the KINSHOFER Group today comprises 15 companies. KINSHOFER offers a huge product range with just about every type of attachment for equipment carriers — with and without hydraulics.

KINSHOFER has an established reputation for excellence in loader crane attachments and, as a global player it is well on its way to achieving the same level of recognition for its excavator attachments. The company offers a wide range of equipment and tools, including just about everything related to attachments — from tiny cable buckets for landscaping construction excavators with just one tonne operating weight, up to giant clamshell buckets and monstrous scrap shears for excavators with up to 100t operating weight!

Handling biomass on industrial or harbour sites varies

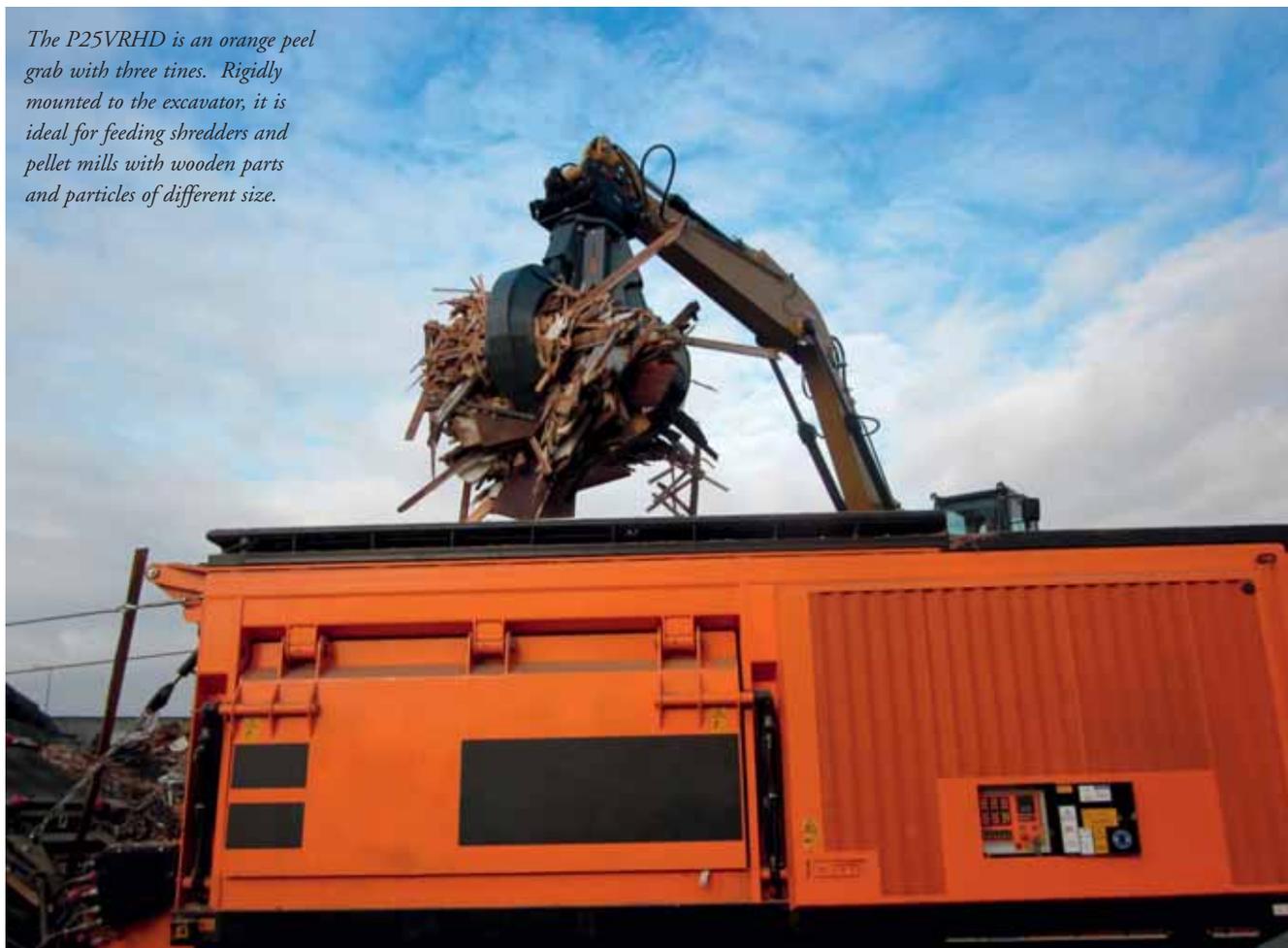
according to what type of biomass is being moved. It is important to select the right attachment for the job.

Wherever giant cranes, pneumatic vacuum elevators (grain blowers) or conveyors are not available or possible, the classic grabbing devices will always be first choice. Attached to an



The C40HPX is KINSHOFER's latest re-handling clamshell bucket with a 4,000-litre volume. Best: A HPXdrive opens and closes the two shells not only synchronously, but with absolute constant force. The bucket shown here has been installed for a long time at the Port of Antwerp in Belgium.

The P25VRHD is an orange peel grab with three tines. Rigidly mounted to the excavator, it is ideal for feeding shredders and pellet mills with wooden parts and particles of different size.



excavator, their mobility makes them even more attractive. All of these attachments are available at KINSHOFER's one stop shop.

For dry bulk biomass like grains, sawdust or wood pellets, KINSHOFER is offering the C-series grabs: regular clamshell buckets with larger shells for excavators with an operating weight from 1t

to 18t as well as the re-handling and industrial clamshell buckets for excavators with an operating weight from 18t to 80t. Driven by regular hydraulic cylinder(s) or like the C40HPX by the revolutionary HPXdrive: extra compact, extra long lifetime with just an absolute minimum of maintenance needed.

For biomass like agro waste, turf, bark mulch, twigs, small branches or waste wood with particles and parts of different sizes where it needs penetrating tines to grab it, KINSHOFER offers its P-series orange peel grabs for excavators with an operating weight from 16t to 80t.

For non-homogenous biomass like mixed bio waste, waste wood mixed up with soil or fine gravel as well as for wet biomass

The D20H is a selector grab with perforated shells, optimal for grabbing and re-handling green biomass, no matter whether vegetable waste, cut-off grass, bushes or water plants.



like water plants, the selector grabs of KINSHOFER's D-series are ideal. The shells are perforated to let water, dust and gravel through; for excavators with an operating weight from 1t to 80t.

For forestry biomass, especially like waste logs or larger branches, KINSHOFER offers its more special wood and timber grabs of the T-series for excavators with an operating weight from 3t to 100t.

The experience that KINSHOFER has gained over decades of developing attachments means that the company now has considerable expertise. This, combined with a strong commitment to premium quality, guarantees a successful future for the group — as well as reliable tools for its customers.

The T20V-6Arm is a special timber grab with 6 tines that can re-handle logs and branches as well as twigs and waste wood. This is only one of ten different timber grab types offered by KINSHOFER.

