PRESS RELEASE

Handheld Concrete Cracker with Titanic-Power

MULTI-FUNCTIONAL HCS 6 COMBI SHEARS FROM DARDA ALSO BREAK CONCRETE

Muenstertal/Blumberg. **Partial demolition of concrete structures in or near inhabited buildings - e.g. demolition of a balcony - often present a challenge in determining which, demolition method to use, especially when the rest of the building must remain damage free. An ideal and efficient solution could be the new, multi-functional HCS 6 Combi Shears from Darda GmbH, Blumberg.**

This handheld hydraulic devise replaces its predecessor the HCS 5 and not only breaks up masonry, but can also bite-through concrete compositions up to 15cm thick. The performance efficiency of the HCS 6 was demonstrated during the demolition of a balcony at a single family home. The balcony floor was constructed of 16mm thick reinforced concrete, approximately eight meters long and 1 1/2 meters wide. The balcony was located on the north side of the home and therefore hardly ever used. The balcony was, for optical reasons, to be removed in the course of an overall renovation project.

The use of a concrete chisel or a demolition hammer was not possible, since the outside wall of the house was not to be damaged by the demolition.
Beneath the balcony was a relatively small terrace surrounded by a hedge, so that room for an excavator with concrete crusher was insufficient.
In the end there were two methods to choose from: Diamond saw or the Darda HCS 6 Handheld Comb-Shears. The decisive factor was the cost of the demolition, naturally the most economical method was sought.

One Man Operation

One person alone broke-up the balcony floor with the Combi Shears in the HCS 6 J configuration - i.e. equipped with a concrete crusher jaw. Using the HCS 6 J, he stood on a mobile scaffold at exactly the right height to reach the concrete without effort. With a Breaking Power of 73 kN (7.4 tons) the Combi Shears quickly cracked the concrete piece by piece, without noise or vibration. The structure was removed precisely right up to the edge of the house, without damaging the wall.
The worker split the reinforcing rod with a bolt cutter. This was a relatively high expenditure of energy. Combi Shears could have also proved optimal for this task. Because the HCS 6 has a wide-range: it can be re-designed to the HCS 6 C configuration

with a universal shears jaw. There it is optimal for the separation of rebar up to 20mm in diameter and for either expanding (opening) and/or breaking-up (closing) concrete and other applicable compositions.

A matter of economics

With the diamond-saw demolition method there were two conceivable approaches: 1) the balcony floor could have been sawed off along the entire length at the house. However, the entire eight meters would have had to be elaborately supported. Additionally, it would have been necessary to cut the concrete up in smaller pieces for transport. 2) the balcony could have been sawing up in to small pieces, thus avoiding the transportation problem. The problem here: many expensive saw cuts and frequent transfer and reattachment of the diamond-saw made this procedure also unprofitable. In short: the diamond-saw method would have been possible, but from a time and cost stand-point, not particularly the best economical solution.

The winner here was the Darda HCS 6 Combi-Shears, because the total effort and consequently the costs were drastically reduced.

A well thought-out clever solution

New in comparison to the predecessor model is the HCS 6 S Sickle jaw configuration. Various types of material, e.g. pipes, sheet metal and wood frames, thick cables etc. are cut quick and easily with 214 kN (21.8 tons) of cutting power. The sickle-shape of the blades makes it impossible for material to slip away during cutting.
The function of the HCS 6 B Masonry jaw remained the same: it will bite through masonry work up to 32 cm thick and replaces the conventional sledge hammer.

All tool heads can be exchanged in a few simple steps, so with one main body you have four different tools available. The HCS 6 is extremely efficient and user-friendly thanks to its hydraulic functionality and great power-to-weight ratio.

Directly with demolition where vibrations, noise and dust must be avoided or by partial demolition where the structure must remain undamaged, is the Darda HCS 6 Combi Shears optimal. Cramped space conditions are no problem for the compact devise. The multi-functionality makes it an ideal aid during building core removal.

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DARDA GmbH from Blumberg is a leading manufacturer of hydraulic demolition machines. Their devices are distributed world-wide and successfully utilized on construction sites in many countries all over the world. The company produces and sells Splitters for the demolition of reinforced concrete and quarrying of natural stone, multi-functional handheld Combi Shears as well as Concrete Crushers with an unusual high power-to-weight-ratio for small load-bearing devices. Additionally the company distributes Electro-Hydraulic Demolition Robots from BROKK®.

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