

SHEAR FORCE

ZDAS

REGION:

Žďár nad Sázavou, Czech Republic

SCOPE OF ENGINE USE:

Cat® C4.4 and C7.1 U.S. EPA Tier 3 and Tier 4 Final Industrial Engines

CAT® DEALER:

Zeppelin

WEBSITE:

zdas.com



FEATURED TOPIC:

Industrial Engines

ON TOP OF THE SCRAP HEAP

Scrapyard operators face numerous challenges when it comes to processing waste. First, it comes in a variety of forms — metal scrap, cupola scrap, non-ferrous metals, plastics, window profiles and more — requiring equipment that can handle everything from bulky materials to glass. Second, these materials aren't always all in one place, so processors must be easy to move from location to location. And third, the scrap just keeps coming, meaning equipment needs to work quickly and reliably with minimal maintenance to stay on the job.

ŽDAS mobile scrap shears check all of these boxes. In fact, the CNS 400 K (introduced in 2000) and the CNS 730 (introduced in 2009) earned gold medals at Central Europe's International Engineering Fair for their innovative horizontal tool-holding slide-cutting technique. Both models cut more scrap of all types per hour — up to 12 tons for the CNS 400 K and up to 20 tons for the CNS 730 — than other products. And each requires just one operator to remove cut scrap from the shear, simplifying operation and minimizing costs. The two models' mobile design also is preferred by many scrapyards, since it takes just minutes to move the shears via a hooklift or flatbed trailer to wherever scrap occurs.

ŽDAS offers scrap shears with both diesel and electric power to meet different customers' requirements. For those who prefer diesel, the company relies on Cat® industrial engines — the C4.4 for the CNS 400 K and the C7.1 for the CNS 730.

A CUT ABOVE THE REST

Long service life is critical for waste processing equipment, considering the challenging environments in which it works. ŽDAS prides itself on the robust construction of its mobile scrap shears — the CNS 400 K and CNS 730 are built to handle as much force as traditional stationary shears. The engines powering them need to be just as tough, and ŽDAS experimented with a number of brands before landing on a winner.

Tried and tested. Prior to 2012, various engine manufacturers supplied diesel power for the CNS 400 K and CNS 730 scrap shears. That year, the company launched a competition to choose a preferred supplier, and after evaluating engine parameters and after-sale support, Cat industrial engines rose to the top. “Caterpillar is a renowned brand worldwide, and our customers regard Cat engines as reliable and high quality,” says Zdeňka Hoblová, commercial manager of ŽĎAS’s engineering division.

One reliable design worldwide. With that decision made, ŽĎAS worked closely with Cat dealer Zeppelin to select and integrate the C4.4 and C7.1 into the CNS 400 K and CNS 730, respectively. Nearly a decade later, the company has no regrets. In addition to dependable, low-maintenance performance, the C4.4 and C7.1 use the same engine core to meet different emissions regulations. That means ŽĎAS can use the same main components in the scrap shears it exports worldwide, saving time and money on design and manufacturing.

Service to support an entire fleet. With scrapyards customers located around the globe, ŽĎAS relies on the Cat dealer network to keep the CNS 400 K and CNS 730 up and running. Regular service of mobile scrap shears is essential and having these products as part of a Cat powered fleet offers a big advantage come maintenance time. “Having Cat engines implemented not only in our shears but also in other equipment operating in scrapyards helps our customers save on service time and expenses,” Hoblová says.



“ Having Cat engines implemented not only in our shears but also in other equipment operating in scrapyards helps our customers save on service time and expenses”



LET'S DO THE WORK.™

© 2020 Caterpillar. All Rights Reserved. CAT, CATERPILLAR, LET'S DO THE WORK, their respective logos, “Caterpillar Yellow”, the “Power Edge” and Cat “Modern Hex” trade dress as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

