

PATENTED

ZECK ALU SEPARATOR (ZAS)

THE REVOLUTION IN SCRAPPING | SEPARATION ACSR CONDUCTORS!

MACHINE SPECIFICATIONS

Diameter of ACSR conductors or OPGW	10-40 mm 0.39 -1.57 inch
Number of conductors	1
Max. rope speed	6.4 km/h 4 mph
Electric drive performance	approx. 17 kW
Width x height x length	1.5 x 2.4 x 2.3 m 4.92 x 7.87 x 7.54 ft
Weight	approx. 2.500 kg 5.200 lbs
Conveyor belt expulsion height	approx. 1,200 mm

OPTIONAL

Power generator	45 kW
-----------------	-------

CURRENT SYSTEM

Old conductor is retrieved by a puller-tensioner and then directly wound onto a hydraulically driven reel or drum stand with a detachable reel or wooden drum.

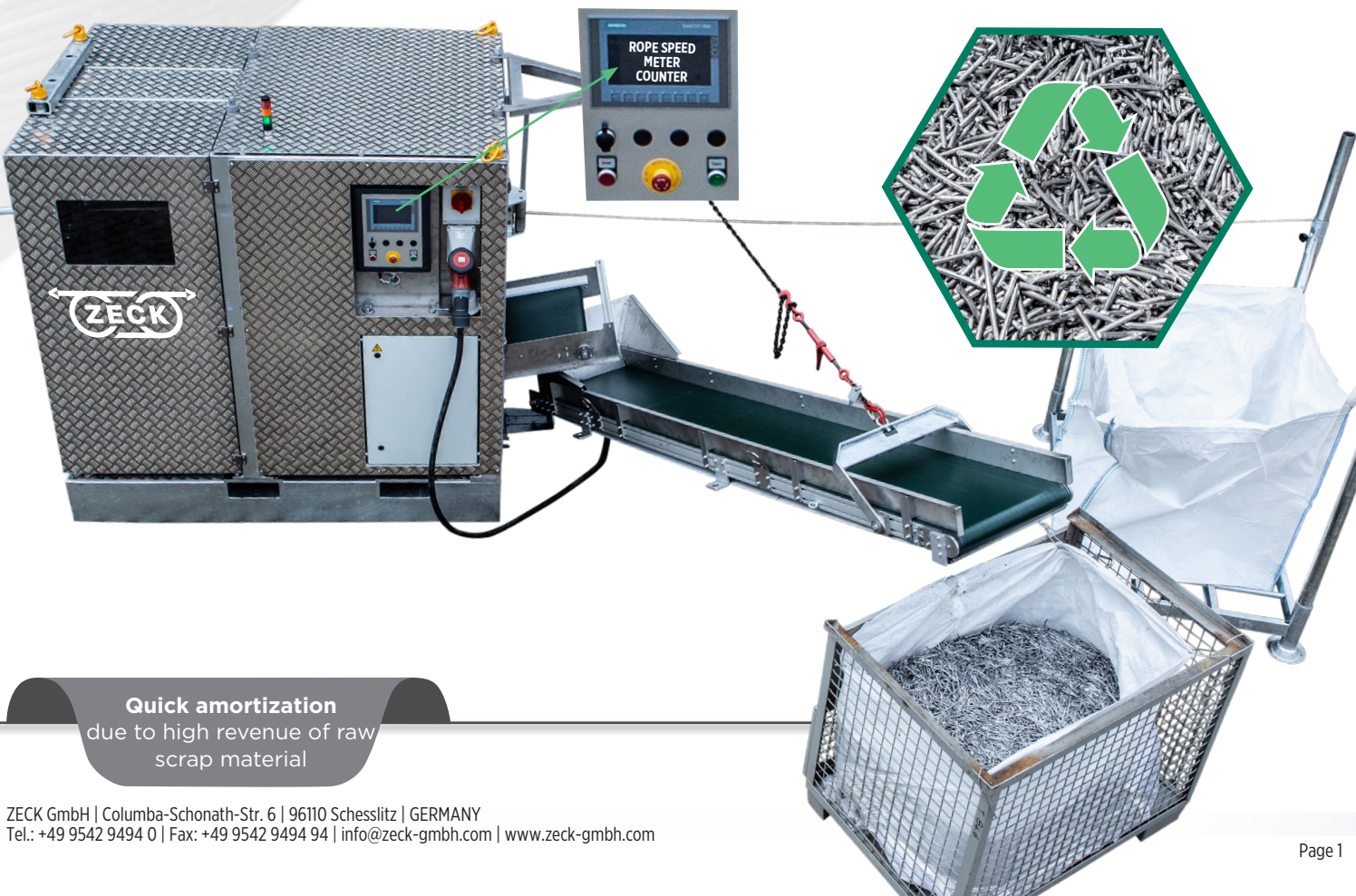
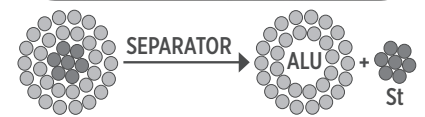
The old conductors are bought by scrap dealers, where they are recycled as mixed metals.

ZECK INNOVATION

The ZECK Al/Steel Separator (ZAS) is positioned between the puller-tensioner and a reel winder or drum stand during the stringing operation, or between two reel winders or drum stands on-site at the scrap dealer.

As the conductor passes through the ZAS, the aluminum layers are removed and cut into small pieces (30-70 mm | 1.18-2.75 inch) and then disposed to the side into big bags or containers via a conveyor belt. The undamaged steel core is wound onto the reel winder or drum stand. With this method, pure materials can be separated simultaneously during stringing operations. The max. rope speed is 6.4 km/h | 4 mph.

We deliver a customized diesel generator set for the energy supply.



Quick amortization
due to high revenue of raw
scrap material

PATENTED

ZECK ALU SEPARATOR (ZAS)

THE REVOLUTION IN SCRAPPING | SEPARATION ACSR CONDUCTORS!

CONFIGURATION 1: AT JOB SITE | DURING STRINGING OPERATION

ZAS is positioned between the puller-tensioner and a reel winder/drum stand during the stringing operation
ZAS is driven by a power generator



CONFIGURATION 2: RECYCLING | WAREHOUSE

ZAS is positioned between two reel winders/drum stands
ZAS can be driven electrically by AC voltage or by a power generation unit

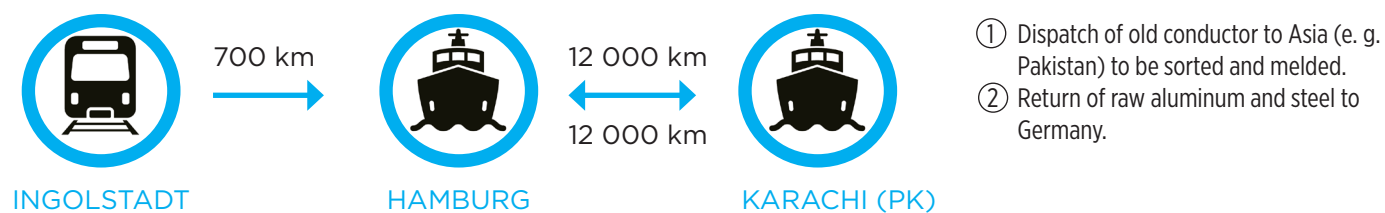


THIS IS HOW MUCH ZAS REDUCES CO₂ EMISSIONS WHEN RECYCLING SCRAP CONDUCTORS



Project: Tennet 2022/23
 Outline data: Scrapping 3300 t of old conductor (type 560/50)
 Construction site: Ingolstadt - Raitersaich

I. CO₂ EMISSIONS DURING THE COMMON RECYCLING PROCEDURE



II. CO₂ EMISSIONS DURING LOCAL RECYCLING AND THE USE OF ZAS

