

# N Series Clamshell Shear/Baler/Logger (NCS)

Robust, Reliable, Efficient and Fast Installation



The ever-changing demands of the scrap processing industry requires a bigger choice of solutions capable of meeting specific capacity needs. Metso is proud to introduce the N Series range of metal recycling products. N Series offers reliable technology, efficiency and safety, yet all the features necessary to meet processing needs at competitive price levels. Regardless of the size of our customer's business, big or small, we strive to be at the forefront in providing the technology and services needed to ensure success. The N Series range is fully backed by Metso's worldwide service network. The initial service contact is locally available to customers so that they have efficient direct support when required.

The NCS – Shear/Baler/Logger has a true clamshell charge-box design with high compression forces for faster trapping and folding. This is a multi-use machine available with cutting forces from 600 to 1000 tons. The NCS is a self-contained unit that offers diesel drives and lifting jacks as options for transportable models. The NCS Shear/Baler/Logger can process almost all scrap, especially small to mid-size facilities where flexibility, low operating cost, ease of maintenance and durability is required. It has an exceptional performance on collectors scrap, auto bodies, steel mill scrap, miscellaneous shapes, pipes, plate, demolition, aluminum and stainless steel materials.

## Features

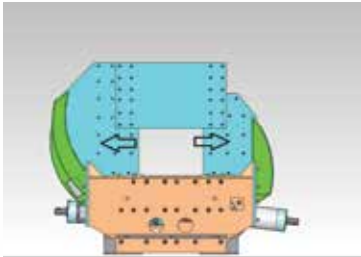
- Shear/Baler/Logger functions
- True clamshell chargebox, both sides articulate
- High chargebox side forces
- High pusher forces
- Robust design
- Self-contained shear with hydraulic power unit and electrical controls on common skid
- Remote control
- Superior bladeslide guidance
- Replaceable liners
- High efficiency hydraulics
- Modem for diagnostics
- Diesel and transportable options on certain models
- Flat slab foundation
- Sold, serviced and warranted by Metso

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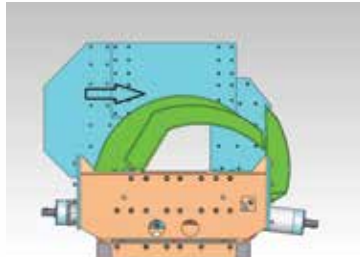
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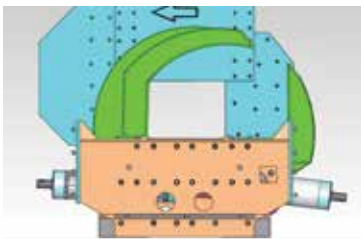
## Chargebox Operation



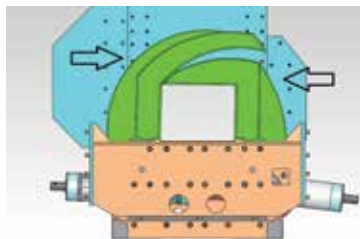
Open clamshells allow for a wide shear opening for easy feed



First clamshell closes and allows over compression



Clamshell #1 returns to "vertical" position



Clamshell #2 closes and compresses material for shearing/baling/ logging

## N Series Clamshell Shear - Basic Technical Data

Model		NCS 616-9 CL60 2 x 90 kw	NCS 816-9 CL60 2 x 110 kw	NCS 816-10 CL70 2 x 130 kw	NCS 819-10 CL70 3 x 130 kw	NCS 1016-9 CL60 2 x 130 kw	NCS 1016-10 CL70 2 x 130 kw	NCS 1019-10 CL70 3 x 130 kw
Shearing Force	tonne (TON)	615 (678)	800 (880)	800 (880)	800 (880)	1000 (1100)	1000 (1100)	1000 (1100)
Blade width	mm (in)	930 (36)	930 (36)	1000 (39)	1000 (39)	930 (36)	1000 (39)	1000 (39)
Main HPU Drive	kW (HP)	2 x 90 (2 x 125)	2 x 110 (2 x 150)	2 x 130 (2 x 175)	3 x 130 (3 x 175)	2 x 130 (2 x 175)	2 x 130 (2 x 175)	3 x 130 (3 x 175)
Production Capacity (Shearing)	t/h (TPH)	Up to 15 (Up to 16)	Up to 20 (Up to 22)	Up to 25 (Up to 27)	Up to 35 (Up to 39)	Up to 25 (Up to 27)	Up to 30 (Up to 33)	Up to 44 (Up to 49)
Production Capacity (Baling)	t/h (TPH)	Up to 18 (Up to 20)	Up to 24 (Up to 26)	Up to 30 (Up to 33)	Up to 42 (Up to 46)	Up to 30 (Up to 33)	Up to 36 (Up to 40)	Up to 50 (Up to 55)

★ Specifications subject to change.

★ Production rates may vary subject to material, feed rate and overall facility efficiency