

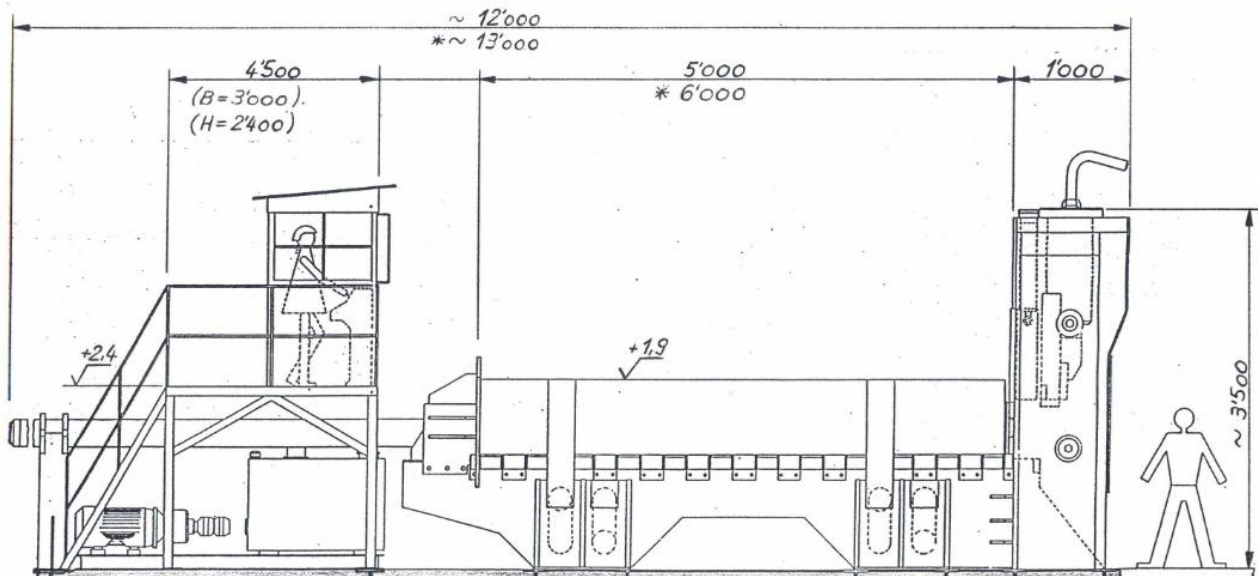


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IUT Beyeler AG

Ing. Unternehmen für Umwelt und Technik

HYDRAULIC SCRAP SHEAR TAURUS 500 tons





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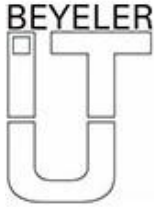
Technical / Commercial Information

Hydraulic Scrap Shear Type TAURUS 500 t, SM 540NP-2560.22D

- ⇒ Year of construction: 1996
- ⇒ **Condition: Totally revised 2017, conducted overhaul works see below**
- ⇒ Machine is constructed on a steel base plate and can be placed without foundation
- ⇒ Machine is transportable with 4 lateral, hydraulic supports
- ⇒ Delivery incl. accessories:
 - HF Radio Control
- ⇒ Available from exhibition "recycling aktiv 27.-29.04.2017" in Karlsruhe
- ⇒ Low Price
- ⇒ Guarantee 3 months

Conducted overhaul works

- ⇒ Dismounting of machine
- ⇒ Transport to partner factory IUT in Poland
- ⇒ Dismounting of machine, dismounting of both lids and of shear head
- ⇒ Overlaying welding of shear head inside
- ⇒ Overlaying welding of blade carriers
- ⇒ To finish by milling of blade hub at blade carrier above and standard
- ⇒ Replacing of blade carriers below and above, installation of new blades
- ⇒ Replacing of the complete guides on the shear head and mobile blade carrier
- ⇒ Inspection/replacing lubrication lines at the shear head
- ⇒ Dismounting of clamps, overlaying welding and finish by milling
- ⇒ Insertion of HARDOX plates in the tamp space
- ⇒ Inspection of blade cylinders, tamp cylinder
- ⇒ Assembling of blade standard
- ⇒ Dismounting of lids right and left
- ⇒ Replacing of hinges at lids and filling bed
- ⇒ Overlaying welding of hinge supports at bed and turning-out
- ⇒ Installing of new axis
- ⇒ Replacing the HARDOX plating at most points on the inside of the lids and floor panels
- ⇒ Reassembling of lid
- ⇒ Manufacturing and installation 4 new cover cylinders
- ⇒ Dismounting and overlaying welding and milling of feed block
- ⇒ Installing of new piston rods of feed cylinder
- ⇒ General inspection and overlaying welding
- ⇒ Dismounting of rear panel, repair and reassembly
- ⇒ Replacing of all filter cartridges
- ⇒ Replacing of 2 high pressure valves RQM7-P6
- ⇒ Replacing of pilot valves at differential and fast release



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- ⇒ Overhauling of 8 slide valve E5P4
- ⇒ Inspection, possibly replacing of pressure switch A 5000 and A 3000
- ⇒ Inspection, possibly replacing of level switch
- ⇒ Replacing of valve connectors SVS-LED
- ⇒ Replacing of coupling of HD-pumps, cooling circuit and servo control
- ⇒ Inspection of electrical installation, partly replacing of electrical wires
- ⇒ Replacing of TSX 171 with new processor TSX Micro
- ⇒ Inspection of radio control
- ⇒ New manufacturing of cabin
- ⇒ Straightening, possibly replacing of ladders, stairs, casing and like that
- ⇒ Cleaning the of the entire system
- ⇒ General repair work during the inspection
- ⇒ Total service of diesel engine IVECO 200 PS
- ⇒ Completely painted

Technical Data

1 Shear

Ref. C 540P

- ⇒ Cutting force: 5'000 kN (at 400 bar)
- ⇒ Cut width: 800 mm (blade length 900 mm)
- ⇒ Cut height: 620 mm
- ⇒ Clamp force: 900 kN
- ⇒ Number of shear strokes (empty): 4 - 5 min⁻¹
- ⇒ Automatic lubrication: incl.

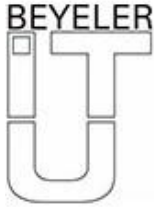
2 Pre-compression and feeding box

Ref. SM 2560.22

- ⇒ Length: 6'000 mm
- ⇒ Width open box: 2'500 mm
- ⇒ Width closed box: 780 mm
- ⇒ Height closed: 600 mm
- ⇒ Number of cylinders left side: 2 Stk.
- ⇒ Number of cylinders right side: 2 Stk.
- ⇒ Lid force left side: 1'800 kN
- ⇒ Lid force right side: 1'800 kN
- ⇒ Feeding cylinder: 1'400 kN
- ⇒ Automatic lubrication: not included

3 Hydraulic unit

- ⇒ Motor of main drive Diesel: 1 piece
- ⇒ Type: DEUTZ 1013
- ⇒ Drive power: 200 PS
- ⇒ Main pumps LINDE: 2 pcs.
- ⇒ Operation pressure: 360 bar



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- ⇒ Servo control motor/pump: 1 piece
- ⇒ Cooling motor/pump: 1 piece
- ⇒ Fan motor: 2 pcs.
- ⇒ Drive power: 0.75 kW
- ⇒ Oil Filtration: 60 my
- ⇒ Oil tank capacity: 2'700 litres
- ⇒ Differential control of blade cylinder: incl.
- ⇒ Quick unloading blade return: incl.
- ⇒ Quick unloading feed cylinder: incl.

4 Electrical control

- ⇒ Microprocessor: TSX 17112002 (or compatible)
- ⇒ Volt meter: incl.
- ⇒ Ampere meter: incl.
- ⇒ Limit switch position display: incl.
- ⇒ Valve actuating display: incl.
- ⇒ Cut refusal: incl.
(when in automatic mode the cut has not finished, the blade lifts up, the feed cylinder pushes forwarded a few inches and try the cut again. This procedure repeats until the blade contact the lower limit switch. Now the program runs again in the adjusted cut length.)
- ⇒ Adjustment of cut length: incl. (from 150 mm to approx. 2.0 m, continuous)
- ⇒ Changeover manual/automatic: incl.
- ⇒ Briquetting: incl. (manual ejection)
- ⇒ HF Radio Control: included!
- ⇒ Operator's cabin: Length 1'500 mm
Width: 1'500 mm
Height: 2'200 mm

5 Output

- ⇒ Mixed scrap: 8 – 11 t/h

6 Dimensions / Data

- ⇒ Height: 4.0 m
- ⇒ Width: 3.5 m
- ⇒ Overall length: 14.0 m
- ⇒ Total weight: 58 t



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