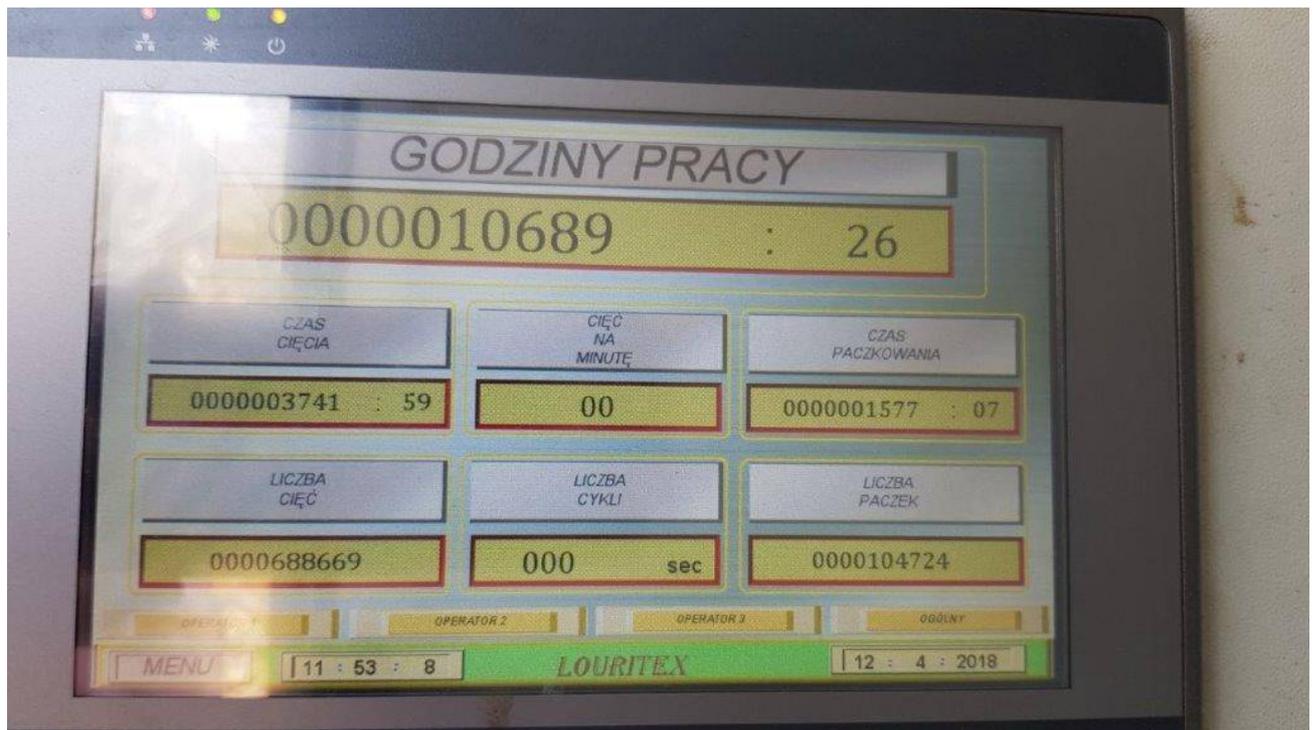


Transportable hydr. Schrottschere LOURITEX 600 t, Typ TM 630
Transportable hydraulic scrapshear LOURITEX 600 t, type TM 630

Baujahr/age of construction: 2012





MOBILE 600 Ton Shear 6M box witch hopper

Scherkraft/Cutting Force

600 Tons on two cylinders

Niederhalter/Clamp Force

115 Ton in one cylinder

Vorschub/Pusher Force

200 Ton in one cylinder with 6-meter stroke

Deckel/Wing Force

180 Ton on three cylinders and per wing

Füllbett/Box size

6 meter length by 2.4 meter wide

Paketgröße/Bale size

800 x 600 mm x variable

Elektrischer Antrieb/Electric power pack

Electric 2x 75 KW

1X 22 KW

Hydraulikanlage/Hydraulic system

2 PARKER Variable displacement pumps

1 High speed pump

1 pilot pump

Auffangwanne/Drip trays to collect all the oil and fuel from the bales

All around the machine there are protections to avoid that fuel or oil from the baling process come to the ground. On each end there are taps to load these fluids in proper containers.

Druckmess-System/Pressure system to allow choosing the pressure on pusher cylinder

Is installed on the machine a pressure switch that help the operator choose the pressure of pusher cylinder and by consequence the density of the bales.

Zentralschmierung/Central and automatic lubrication

All the moving components are automatic lubricated by the system installed on the machine. This of course includes the winches of the wing, supports of hydraulic cylinders, shear, etc.



Bedienung/Full control automatic or manual

The machine allow to work fully automatic. The operator can start the automatic cycle when it is necessary, no matter the position of the components. The PLC will adjust all positions and will start the machine in automatic mode. Otherwise you can work fully manual. Every moving component of the machine can be manually operated no matter its position. **In end of cycle, both wings open at same time**

Kapazität pro Stunde/Production per hour

Schere/Shear 15 to 20 Tons per hour

TECHNICAL DATA

Cylinders

- The tubes are made from ST52.3 steel honed
- Shafts are hard chromed
- High pressure seals



- Efficient rod wipers

Machine Hydraulic Group

- 345 Hp Diesel engine
- 2 variable displacement pumps (270 cm³ each)

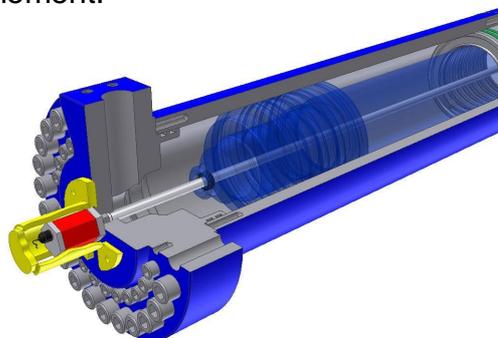
TECHNICAL DETAILS

Shear

Mounted with 2 cutting hydraulic cylinders and one clamp cylinder.

- Shearing tonnage 600 Ton
- Number of strokes per minute 5/6
- Blade length 900 mm

In the shear, clamp and wings are assembled a system with interior sensors (the sensors work inside the hydraulic cylinder) that allows the protections of the sensors themselves, but also the information of the exact position of hydraulic cylinders. This system also allow to the machine to automatically adjust the stroke of the shear depending the type of scrap that is being performed on the moment.



Positioning sensor (margin of error = 0,1mm)

CUTTING CAPACITIES

The following figures are based on a max tensile strength of 45 Kg/mm² (64.000 psi).

600 Ton

- Solid rounds 120 mm
- Solid squares 110 mm
- Plates 70 mm

Box

- Box Length 6000 mm
- Box opening (width) 2400 mm wide
- Power on wings 180 Ton (each)
- Pusher ram force 115 Ton
- Clamp ram force 115 Ton
- Bale size 800 x 600 x variable

Hour Production *

| Type of Scrap | Thickness | Size of cut | Production / Hour |
|---------------|-----------|-------------|-------------------|
| N2 | 4 ≥ 6 mm | 500 mm | > 20 T/h 24T/h |
| N7 | > 6-8 mm | 500 mm | > 18 T/h 22T/h |
| N10 | < 4 mm | 500 mm | > 15 T/h 18T/h |
| | | | |

* The test will have a minimum duration of one hour being the ideal of two hours. The operation of the machine will be performed by Louritex engineers. The loading of the machine if decided and accepted can be performed by client's operator.

AUTOMATIC SYSTEM

Full control automatic or manual

The machine allow to work fully automatic. The operator can start the automatic cycle when it is necessary, no matter the position of the components. The PLC will adjust all positions and will start the machine in automatic mode. Otherwise you can work fully manual. Every moving component of the machine can be manually operated no matter its position.

Shear

- As soon as the box is closed, the shear can start to work automatically

Baler

- Fully Automatic
- Average cycle time – 1 min

Control Panel

- Installed in an electric cabinet, which is monitored by a programmable logic controller (PLC) that provides manual or automatic functions. The machine allow to work fully automatic. The operator can start the automatic cycle when it is necessary, no matter the position of the components. The PLC will adjust all positions and will start the machine in automatic mode. Otherwise you can work fully manual. Every moving component of the machine can be manually operated no matter its position. The operator also have available a fully complete remote control to operate the machine from inside a loading machine. It means that one operator can handle the loading machine and the shear.



Description of shear cycle

- Manually close wings or
- Switch to automatic
- Pusher forward to pre-compress scrap
- The clamp cylinder compress and holds the scrap
- Blade descends cutting the scrap
- Shear and clamp cylinder will go up
- Pusher ram advances to predetermined length (adjustable on control panel)
- Cycle repeats until pusher ram is fully extended
- Pusher ram goes forward to expel the rest of the scrap through the mouth.
- Pusher ram retracts
- Wings open

Description of the baler cycle

- Manually lower shear or automatic or
- Manually lower clamp or automatic or
- Manually close wings or automatic or
- Switch to automatic
- Pusher forward
- Pusher retracts small amount
- Shear and clamp up
- Pusher forward to eject bale
- Pusher fully back
- Shear and clamp down
- Wings open

HYDRAULIC AND ELECTRICAL SAFE

Hydraulic

- Pressures controllers are testing each movement and protect machine against overload. All the hydraulic components such as valves solenoids, etc. are supplied by Parker.

Filtering system

- Hydraulic oil is filtered through a return line filters with micronic element and magnet. A dirt manometer is provided as standard equipment.

Oil Tank

- The hydraulic oil tank capacity of 2800 liters and has complete cleanout accessibility. (Hydraulic oil is not included or supplied with the shear).

All around the machine there are protections to avoid that the fuel or oil from the baling process comes to the ground. On each end are taps that allow loading these fluids to a proper container.

Electrical

- Including pre-wired Telemecanique or Omron PLC programmer, control relays control push buttons and signal lights. All the timers are included on the program of the PLC program.
- Internal sensors inside cylinders to avoid contact with scrap.
- With circuit brakes and fuses to protect against overloads.
- Modem that will allow long distance maintenance from our factory.

Construction

- This model of shear is heavy-duty design and manufactured in accordance with the latest technology in engineering and manufacturing standards. All the software for PLC are designed and produced by Louritex.
- All the parts that are in contact with scrap are fully lined with hardox wear plates.
- All pipes are electric welded and securely anchored to the machine by plastic supports to absolve the vibrations.
- The shear is fully assembled, operated and tested in our factory before the delivery to the final customer.

Preis/price: €.. exkl. Garantie/excl. warranty



Postfach 55, CH-3700 Spiez
Telefon (0041)33 437 47 44
Fax (0041)33 437 70 73
iut@iutbeyeler.com
www.iutbeyeler.com
Mitglied **BDSV**

IUT Beyeler AG
Ing. Unternehmen für Umwelt und Technik

