



HIGGINS BALERS LTD

RENEWING, REPAIRING, REPLACING

PAAL DOKON 325G CHANNEL BALER



Basic configuration and technical data:

Main parts of baler	: 1 automatic channel baler
	: 1 automatic twine tying system
	: 1 hydraulic unit
	: 1 electronic control
Pressing force at about 300 bar	: 950 kN
Specific pressing force	: 115 N/cm ²
Channel cross section (h x w)	: 110 x 75 cm
Feeding opening (l x w)	: 175 x 67 cm
Numbers of twine tying's	: 5 pcs.
Installed power:	
- at main drive	: 45 kW
- at auxiliary drive	: 22 kW
Flow capacity of pump	: 180 litres/min
Hydraulic oil tank volume	: 1,250 litres
Cylinder diameter	: 200 mm
Capacity	
- operating conditions	: approx. 180 m ³ /h
- neutral gear	: approx. 450 m ³ /h
Baler weight	: approx. 17 t (depending on accessories)
Operating voltage	: 3 x 400 VAC / 50 Hz / N / PE





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BALER COMPLETE FOR CONTINUOUS OPERATION INCLUDING:

Machine design consisting of:

- Roller guided press ram at bottom and top (rollers with bearings),
- Bolted base plate made of special high resistant wear steel,
- Face sided slot protection at the pressure plate by bolted profiles to prevent material blockages at the slots,
- Control for adjustable positions of the ram (filling position),
- Large distance between knife and binding system for separating the shearing from the compaction process,
- Cutting system relief-grinded and receding towards the press middle,
- Large doors at the press tunnel with safety switches,
- Automatic hydraulic tunnel adjustment on three sides via pantograph with densitronic for various material grades,
- Automatic twine tying system with hydraulically movable needle swing, double-knotter consisting of clamping, cutting and knotting devices arranged each other for automatic knot-ting,
- Automatic swivelling of the knotter unit during the compaction process in order to reduce contaminations,
- Automatic device to extend the twine loop,
- Devices to reel off eight 9 kg twine spools including spool magazine,
- Bale length meter,
- Pressure plate provided with grouped nipples for lubrication of all pressure plate rollers,
- Coat of paint in light blue RAL 5012 or reseda green RAL 6011 (different colours possible against extra charge),
- Documentation (one operating manual and diagrams as hard-copy with the baler and one full set on a CD by mail) including CE-certification according to new machine directive 2006/42/EG

Hydraulic system consisting of:

- Large dimensioned hydraulic oil tank,
- Integrated hydraulic unit and installed high pressure internal gear pump,
- Low maintenance hydrologic control unit being based on a minimum of piping, connected to the main cylinder (at 45 kW and above),
- Hydraulic oil heaters





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Electrical control consisting of:

- Switch cabinet including wiring between baler and switch cabinet covered by trapezoidal sheet metal,
- Complete electronic control unit by SPS Siemens S7,
- Two light barriers, several electronic limit switches and LED indicator lights on the solenoid valves,
- Multifunctional operating panel MP 277 or Touch Panel TP 177 for an extensive function display and recipe management,
- Wiring in cable trays at the baler which are open at the bottom to avoid cable damages by rodents,
- Safety cut-out for oil level and oil temperature,
- Automatic cut-out system of the pump according to the demand,
- Dual circuit emergency stop system with relay to connect one external safety circuit,
- Operating time meter

Additional Equipment:

- Press tunnel side walls covered by bolted 10 mm thick high resistant wear steel plates and press channel side walls, top and bottom executed in fixed high resistant wear steel plates
- 1st fill of hydraulic oil
- Delivery, Installation, commissioning* & training†

Optional Equipment:

- Baler version with one high pressure internal gear pump of 520 l/min. delivery rate, drive 75 kW rated power for an increased production capacity up to approx. 300m³/h under operating conditions incl. star-delta connection and oil cooler (2,200 l hydraulic oil, 2 oil heaters)
- Automatic twine crack control

1 PAAL CHAIN CONVEYOR TYPE KEF-1750 WITH 3 M ABOVE FLOOR SECTION

Technical Data:

Conveying width	: approx. 1750 mm
Axle base	: approx. 12,625 mm
Conveyor course	: approx. 3 m horizontally above floor, then ascending 7,184mm by 30° and descending by 20° on the remaining length feeding into the baler
Conveyor speed	: 0.29 m/sec
Drive capacity	: 5.5 kW
Height of side walls	
- horizontal part	: 500 mm
- ascending part	: 1000 mm
Operating voltage	: 3 x 400 V / 50 Hz / N / PE





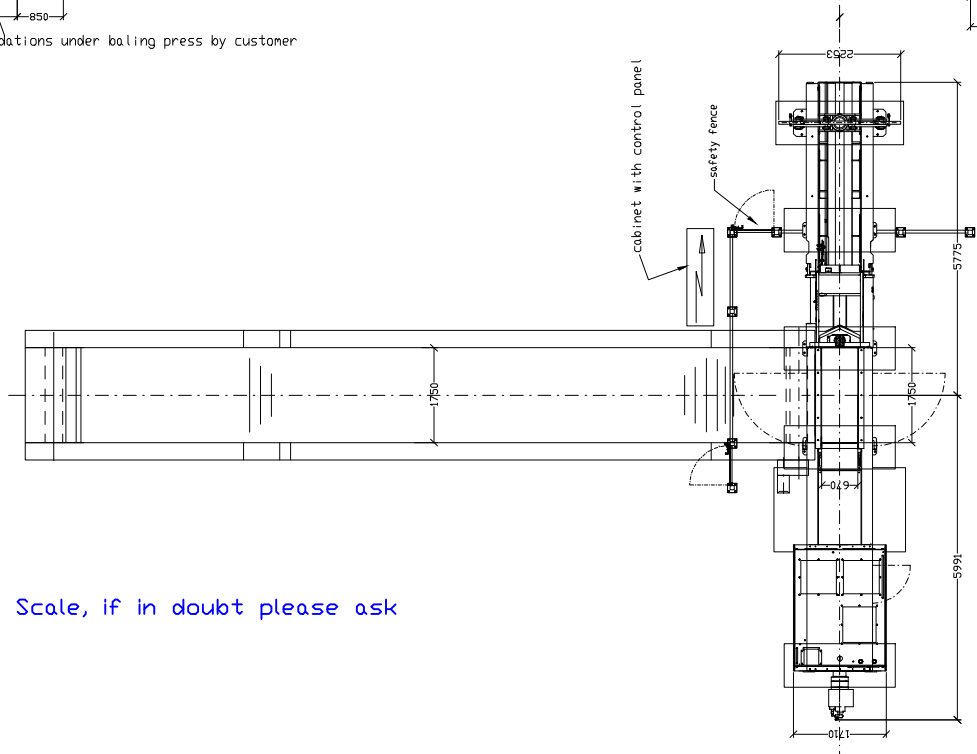
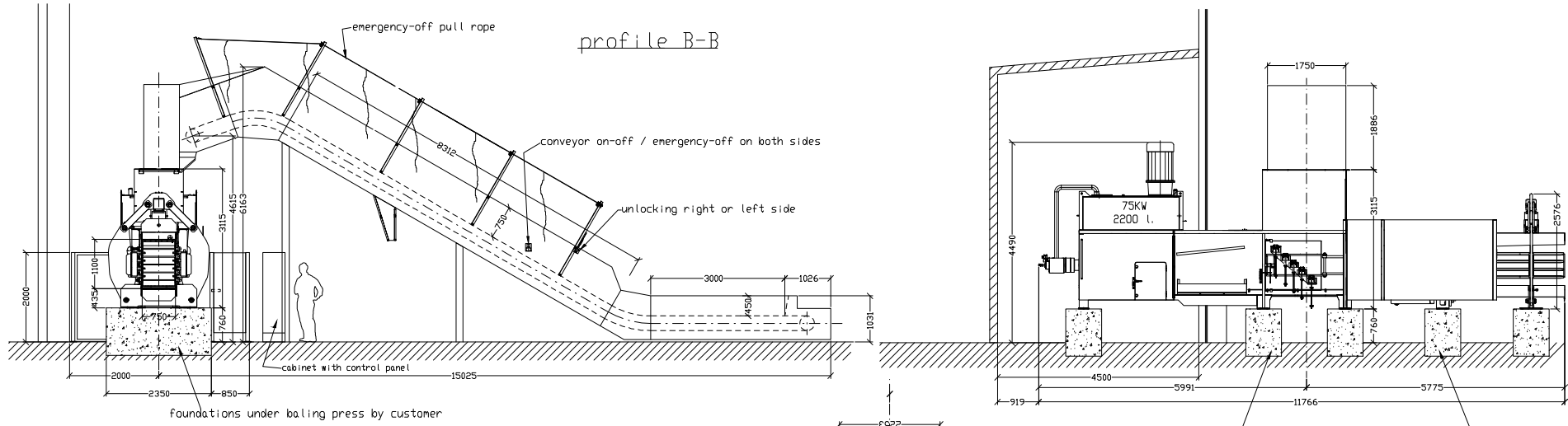
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Pre-assembled as far as possible, consisting of:

- Complete with driving motor,
- Changeable, bolted chain guiding elements at the belt curves,
- Belt scraper brush on the stretching device,
- Conical upper side for an optimal connection to the conveyor hopper at conveyor execution with swan neck,
- Conveyor belt (quality EP 250/2 2:1) with T-shaped fittings 20 mm high at the sides to seal the belt against the lateral side walls,
- Belt course running at the neutral line in order to avoid tension at the belt,
- Belt scraper brush as sealing at the stretching device,
- Chain type M-112 with hardened bushes, bolts and rollers,
- Chain lashes with strengthened angel supports and partially with changeable lateral plastic chain guards,
- Permissible chain tensile load each 112,000 N,
- Three sliding supports below the belt profiles to absorb shock loads
- At the horizontal section,
- Flight-bars in a distance of 500 mm made of 40 mm high steel angle,
- Bevel gear driving motor with integrated break,
- Lubrication with automatic drip oilers for equally chain lubrication,
- Conveyor belt supporting legs made of steel profiles with adjustable height,
- Discharge chute at the bottom belt cover,
- Emergency-off switches on both sides of the ascending belt structure and emergency-off pull rope on top of the conveyor in standard execution,
- Conveyor start/stop switches at both sides of the conveyor,
- Coat of paint in light blue RAL 5012 or green RAL 6011 (different colours possible against extra charge)





Do not Scale, if in doubt please ask

Rev.	Date	Description
Higgins Balers Renewing, Repairing, Replacing Units 1-4 The Forge, Clensmore Street KIDDERMINSTER WORCS DY10 2JG. Tel: +44 (0) 1562 824406		

Title:	
General Arrangement Paal Dokon 325	
Client:	
Date: Feb 16	Drawn: JH

Scale:	
Drawing no:	

ALL DIMENSIONS IN MM
UNLESS STATED OTHERWISE

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