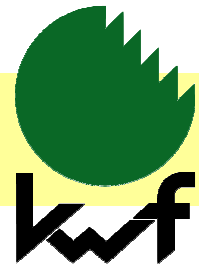


TEST REPORT



Posch Spaltfix K-3800

Test number 5117

OWNER OF TEST CERTIFICATE:

Applicant and distributor:

Posch GmbH
Paul Anton Keller Straße 40
A-8430 Leibnitz

www.posch.com



Test results and evaluations



Manufacturer: Posch GmbH; Paul Anton Keller Straße 40; A-8430 Leibnitz

Automatic log saw and splitter Posch Spaltfix K-3800

- **Powered by tractor PTO-shaft / electric or diesel engine**
- **For attaching to tractor**
- **Manual adjustment of splitting wedge height**
- **Hydraulically operated saw unit (chainsaw) and clamp**
- **Integrated, separately controlled hydraulic in-feed rollers and discharge conveyor belt**

Test item	Test result		Evaluation
Application field Automatic log saw and splitter with a nominal splitting force of 176 kN (≈18 t) at nominal engine speed $n_z = 350 - 380 \text{ min}^{-1}$; maximum log diameter 38 cm; For professional use			n.e.
Splitting capacity per hour	≈ 5.5 m ³ (fresh beech, up to Ø 25 cm and 33 cm long)		o
Saw capacity (fresh beech)	bei Ø 15 cm ≈ 135 cm ² /s ¹⁾	bei Ø 24 cm ≈ 250 cm ² /s ¹⁾	+
	¹⁾ manual blade stroke speed control therefore some discrepancies possible		
Forces at nominal engine speed n_z	Declared	Measured by KWF	
Splitting force	184 kN (≈18.8 t)	185 kN (≈18.9 t)	o
Clamp force	-	1 kN (≈ 100 kg)	o
Maximum speeds at nominal engine speed n_z			
Splitting cylinder piston [cm/s]	Work direction / return	21 / 33 cm/s	+
Conveyor belts [cm/s]	In-feed / discharge	52 / 77 cm/s	++
Saw chain [m/s]	idling / under load	19 / 19 m/s	o
Hydraulic pressure at nominal engine speed n_z	Declared 23.5 MPa (235 bar)	Measured by KWF 25 MPa (250 bar)	o
Noise	Work cycle 90 dB(A) ²⁾	Sawing 91 dB(A)	o
	²⁾ average of feeding / sawing / splitting / discharge		

Posch Spaltfix K-3800

Test item	Test result	Evaluation
Operation/ handling		
Assembly and disassembly	Quick assembly, rapid positioning of the hydraulic in-feed chain conveyor with wood cradle	++
Control elements	Clear labelling; easy operation with gloves	+
Wood feed and discharge	The integrated roller conveyor is equipped with non slip rollers	o
	Integrated discharge conveyor belt can be adjusted vertically	+
Sawing	good cutting capacity	o
	Capable of cutting stem diameters between 50 – 380 mm	
	Saw or split only, simultaneous operation not possible	o
	Hydraulic control of feed speed	
Splitting	Log length 250 – 640 mm, manual incremental adjustment	
	Hydraulic height adjustment of splitting wedge 0 – 360 mm Splitting procedure is carried out automatically after sawing	+
All details concerning wood transport, sawing and splitting apply to straight logs. Crooked logs are principally more difficult to process.		
Maintenance		
Saw unit	Chainsaw unit removal without tools	
	Easy access; automatic chain tensioning and clamping	+
Hydraulic controls and hoses	Mostly protected by covers, tools required for removal	o
Oil filter / hydraulic tank	Components easy to access	o
Lubrication points	Remote lubrication provides easy access	+
Operational safety	No problems during test	o
Operator manual	Clear and well illustrated, spare parts list provided	+
Work safety		
GS- Test	(DPLF) Test certificate No. B- GS- 2008/007	o.B.

Evaluation range: ++ / + / o / - / -- / (o = Standard / n.e. = not evaluated, within limits)

Posch Spaltfix K-3800

Description and technical data		
Weight	Total weight incl. roller deck 4350 kg	
Measurements machine L/H/W [mm]	Transport position 7550 / 2400 / 3200	Work position 10700 / 3000 / 3000 ³⁾
	³⁾ Height with feed conveyor inclined at 35°	
Conveyor belts [mm]	In-feed conveyor belt	Discharge conveyor belt
Length	2900 mm	4000 mm
Width / incl. guides	600 / 600 mm	600 / 600 mm
Height	1400 mm (adjustable)	
Height _{underclearance}		300 – 2800 mm ³⁾
Height _{discharge}		300 – 3000 mm ³⁾
Horizontal adjustment	-	-
Hydraulic ram [mm]	quadratische Grundfläche l _{Stempel} 640 / l _{Spalten} 640; b 360; h 360	
Roller deck [mm]	1750 / 1560 / 1400 adjustable height	
Footstep L/H/W [mm]	1000 / 500 / 300	
Saw unit	Guide: Oregon 75 2 HS F Chain: Oregon 18H 86E	
Hydraulic circuits		
Pump capacity	Electric operation: 3- step constant pump; maximum pump capacity 91 l/min; maximum approved pressure 270 - 325 bar PTO-driven: 3- step constant pump; maximum pump capacity 90 l/min; maximum approved pressure 220 - 260 bar	
Hydraulic filter	Type: FLS 180/3	
Used hydraulic oil	Various brands	
Biodegradable hydr. oil	Panolin HLP Synth	
Tank capacity	Hydraulic oil 210 l / Chain oil 13 l	

Field tests:

Test Approval February 2009

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Carried out by experts from forestry and agriculture

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