

ELECTRO-HYDRAULIC CATTLE CRUSH KPB 5PHE



DEVICE DESCRIPTION

Our hydraulic-electric crush KPB 5PHE is equipped with hydraulic lift to enable a hoof trimmer to work in an upright position and prevent back strain. The whole crush together with a cow is lifted up to 50 cm above the ground. The rest is operated by means of German made geared motors. There're two front, adjustable and moveable to the sides winches by means of which cow's legs are lifted. These winches possess 180 W geared motors which enable lifting and guarantee stable, rigid and safe hoof trimming positions. The crush KPB 5PHE has a self-locking head gate and a rear entrance gate closed by a back gate to which cow's back legs are fixed by means of a geared motor. The back gate is equipped with a specially designed dung plate to assist in a clean work environment. The crush is also equipped with 2 worm gears, which are operated by 370 W geared motors, along with double belly band support and extra support between the udder and back legs by means of which the whole animal is lifted up to lose her balance. All gear motors are controlled by up-and-down (left-right) contactor system activated by a reversing direction switch. Motors are protected by type- S fuses which are stored in a switch box. In this box there is also a residual current device RCD(residual current circuit breaker RCCB) of 30 mA differential current that instantly breaks an electric circuit to prevent serious harm from an ongoing electric shock . Under the box there is a main switch which also functions as an emergency stop switch. Cattle crush is activated by means of a power lead which is equipped with a 16A/400V socket. Electric circuit in the main switching station should be protected by fuses of max. 6A. Electrical system should be made of copper lead of at least 1,5mm² wire section. Our crush can be easily moved using back tractor linkage or pallet forks from the side. Our crush has a heavy duty main frame and anti-slippery steel tread plate floor. All metal parts of our crush are hot dipped galvanized for maximum corrosion resistance and long life durability.

TECHNICAL DETAILS

DIMENSIONS			WEIGHT
height	width	length	
200 cm	130 cm	255 cm	500 kg

Electric motor	Geared motor I	Geared motor II
power	0,37 kW	0,18 kW
voltage	400 V	400 V
frequency	50 Hz	50 Hz
rated current	1,89 A	1,18 A
rotational speed	1380 r/min	1380 r/min
protection level	IP55	IP55
insulation class	F	F
supply plug	WPP-16A/5	

Hydraulic unit

	Motor
power	1,5 kW
voltage	400 V
pump efficiency	3,7 cm/r
rated current	1,89 A
rotational speed	1400 r/min
control divider	4/3
protection level	IP55
max. pressure	180 bar
supply plug	16A/5

- Lifting speed – 2 cm/sec
- Double wire braid hoses (for pressure max 330 bar)
- Double-acting hydraulic cylinders – 50 mm bore x 30mm diameter piston rod - 500 mm stroke and 40 mm bore x 25 mm diameter piston rod – 500 mm stroke
- Flow/pressure control valves



- ✓ Hydraulic lift up to 50 cm enabling work in an upright position while hoof trimming front legs



- ✓ Electric front and back leg lifts by means of German-made geared motors



- ✓ A unique back gate enabling work in an upright position



- ✓ Work front and rear lights for better work conditions in cow sheds and at night