Technical Part

Laboratory bale cutter CP 3000 Compact

1.1.1 Description

The laboratory bale cutter CP 3000 compact has been designed for sample preparation purposes in the laboratory and in light productions. The bale cutter is ideally suitable for the cutting and slicing of smaller polymer bales.

Therefore the bale is placed on the conveyor track on the backside of the machine and the desired amount of material to be cut is pushed into the machine. Afterwards only the 2 Start buttons have to be pushed to start the cut. As soon as the buttons are released the cutting process will be stopped automatically and the machine will move back into its initial position.
Integrated in the cutting table a Teflon cutting plate is mounted – this plate is also acts as lower stop of the cutting knife. The knife is guided by precision ball guides which run on hardened, precision grinded shafts. This ensures a smooth and clear cut of the material.

For safety of the operator personal, the cutting area is surrounded by transparent covers.
The CP 3000 compact operates fully pneumatically and there is no need for an electrical connection. This means only a minimum of energy consumption and an excellent efficiency.

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1.1.2 Data sheet of the CP 3000 Compact

Cuts	up to 8 cuts per minute
Cutting width	maximum 290 mm
Bale width	maximum 300 mm
Bale height	maximum 160 mm
Bale length	unlimited
Cutting force	adjustable by the maintenance unit minimal 0.5 Tons @ 2.0 Bar input pressure minimal 3.5 Tons @ 10.0 Bar input pressure optionally this can be increased by a pressure booster
Cutting knife	hardened and precision grinded
Cutting table	made of Teflon, exchangeable
Material supply	by conveyor line total length: 350 mm
Safety Devices	pneumatic controlled safety 2-hand operation, translucent safety shields, backside protection
Required supplies	compressed air there is no need for an electrical connection
Dimensions	Width: 460 mm Height: 980 mm Depth: 430 mm
Weight	130 kg gross 85 kg net

1.1.3 Setup and installation requirements

The instrument is designed for a tabletop setup. This means for the installation, a suitable table is required. Compressed air supply with at least 5 Bars pressure must be supplied at the installation location.