

The Optimal Package?

Skaltek Big Pac



1. Skaltek Big Pac was developed and introduced by Skaltek already in 1982. The main purpose of Big Pac is to eliminate small wooden and plastic reels in order to save significant costs for the cable producer, while making life a lot easier for the end-user. The cable range is the same as for Midi Pac, but packed in longer lengths.

2. The shrink film packing saves substantial costs and makes it a lot easier to handle and store packaging material within the production facilities. One full Big Pac coil can be packed at perhaps 2% of the packing cost of a reel.

3. The environmental advantages are obvious, as the amount of waste is substantially reduced – if one Big Pac line can at least eliminate one wooden or plastic spool per minute, it soon adds up to more than 300.000 spools per year, based on three shift operation. Additionally, these 300.000 reels must all be shipped from the supplier to the cable factory, then handled and stored in the production – even before the cable has been wound on the reels!



4. Several Big Pac lines have been sold over the years, but the expected success is yet to come. We were early in our Vision: Economy-Ecology. The customers were trapped in conservatism and habits which made it hard for them to muster the courage and energy required to change the market. Skaltek has learned a lot while pioneering the shrink film packing, which opened the possibilities for Mini Pac and Midi Pac, which have since

become tremendously successful. Today, when the economy is tight, nobody can afford to waste the opportunity. General consciousness of Ecology – Economy has increased dramatically.

5. Skaltek is fully convinced that Big Pac is an optimal packing concept. The environmental awareness is growing globally, while competition is forcing cable manufacturers to take a fresh look at packing costs, as well as storage and handling procedures.

6. The new generation Skaltek Big Pac Pure has been developed, based on the Mini / Midi Pac Pure success.

“The future comes unbidden, but progress has to be made.”

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Open a small hole in the center of the top and bottom film and insert the Coil Cart through the holes. Grab the inner cable end and Pull!



The cable pays off straight as the coil rotates. The packing material protects the cable from dirt and moisture and also preserves the coil until all cable has been used.



After the product has been used, the waste is absolutely minimal and the film can be recycled or burned.

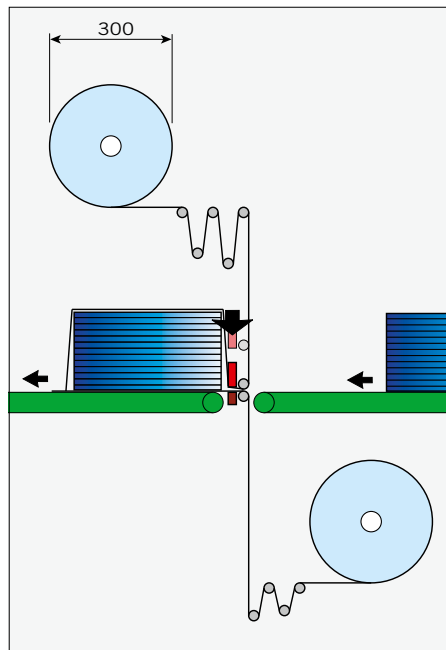
Shrink Film Specifications:

Each Big Pac Coil is packed in clear, pre-printed PE-film.

- Film material: Low Density Polyethylene, LDPE
- Melt Index: 1
- Film thickness: 0,06 – 0,08 mm (depending on cable type and coil weight)
- Shrink ratio: Width 40% / Length 60%
- Printed top film width: Coil Diameter + 2 x Coil Width
- Unprinted bottom film width: Big Pac 360: 425 mm (17")
Big Pac 400: 475 mm
- Shrink film roll diameter: 300 mm (12")
- Approximately two rolls of film are needed per 8 hour shift

Please Note!

The shrink film quality is essential to the machine reliability and the final coil quality.



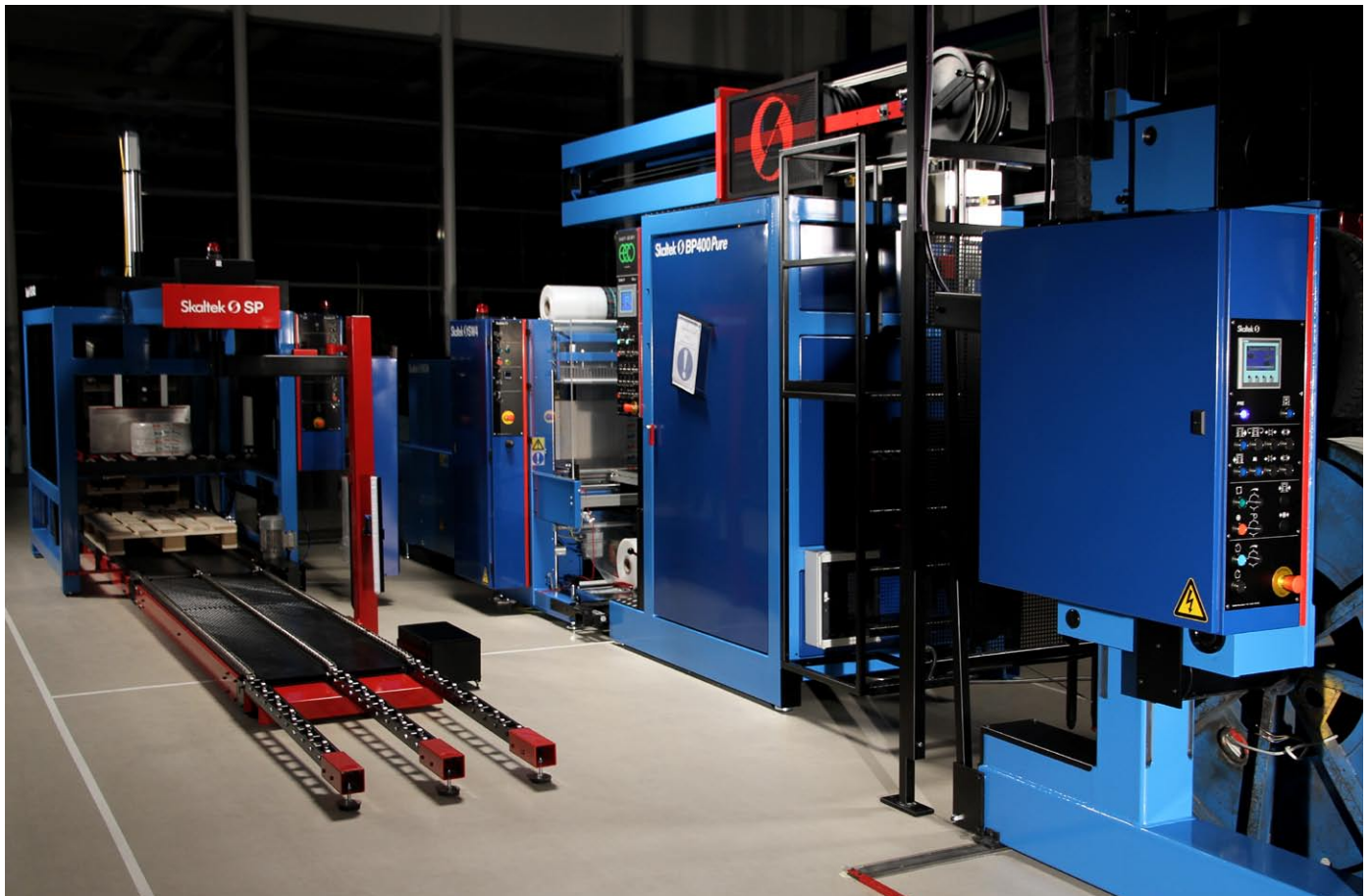
Big Pac 360 & 400 is suitable for a large range of cable types, both round and flat cables, within an approx. range of 5 – 12 mm. The machine is optimized for high production volumes of building wires, such as the North American flat NM AWG 12, 14 & 16 and round cables 3x1,5 mm² to 5x2,5 mm². The Big Pac coiling machine is very suitable for a large variety of other cable types as well, a few samples are shown in the picture. (Rubber cables are not suitable in Big Pac.)

The dimensions of the cable will influence the maximum possible coiling length. The common cable size 3x1,5 mm² can be coiled in 250 m lengths.

Please Note! Each coiling application must be analysed and calculated by Skaltek. (The picture shows cables in real size.)

Coil Packing Line

Skaltek Big Pac 400 Pure

**Basic Vision – Customer Need****PURE – Simplicity – Can it be made Simpler?**

Since 1974 Skaltek has continuously been searching for the Optimal Package and focus has been Quality Security Packing Lines with Optimal Customer Value – Future Value. Small spools are used for distribution of cables in longer lengths. The total cost for these spools regarding storage, handling, spooling, etc. is significant.

The introduction of Skaltek Mini Pac Pure in 1999 and Midi Pac Pure in 2000 has been a great success. The elimination of all unnecessary packing material has made these concepts to a very cost efficient solution with important savings for storage, production, distribution wholesalers, etc.

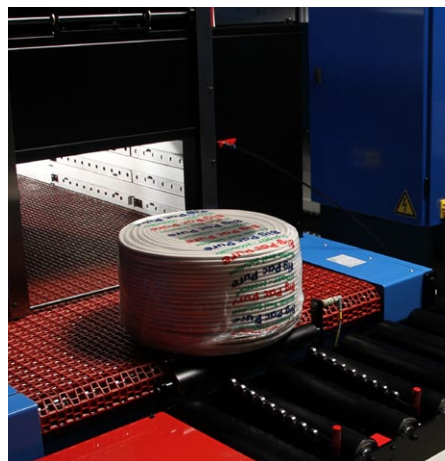
The elimination of the small spools and all the handling around them will give tremendous economical and environmental advantages and savings.

Skaltek Big Pac BP400 Pure is developed to coil pack the cable types and lengths, which are normally packed on small spools. The packing material is just a shrink film and the cable is packed and protected until the last meter is used.

The Big Pac BP400 Pure concept is developed with the Focus to Purify and Simplify every function. A non-existing component can never brake! Big Pac BP400 Pure is designed for InLine application with extruder, which demands Optimal Reliability. All components are selected under the motto "Only the Best is good enough".

Main Advantages – Customer Value

- The Skaltek Big Pac Pure package is



made according to Skaltek's revolutionary invention that eliminates the strap band around the coil. The Package consists of just a shrink film.

- The whole Strapping Unit or extra equipment to hold the coil together is eliminated.
- *Simplicity – Nothing can go wrong...!*
- Dual horizontal Coiling Heads with new Invention for Catch and Cut technique reduced the stand-still time between two coiling sequences to Zero.
- The Pure technique increased constant line speed with a smaller accumulator. Lower and constant tension in the cable, which is important for sensitive signal cables and small copper area.
- The entire packing line is compact and saves floor space. The equipment does not require any special foundation. It is

quick and easy to install and take into production.

- Each machine unit has its own intelligence, with an individual PLC. All units communicate via MPI connection. All machines are supervised from the Color Touch Screen Panel on the Coiler.

Result – Reward – Return of Investment

Customer Value creates Confidence and loyal Customers – Skaltek has been greatly rewarded: Customers in 57 Countries have, step by step, replaced previous lines with Skaltek PURE.

Many Coil Packing lines (in the US all of them) are operating directly in tandem with Extrusion lines, 24 hours a day.

After the introduction of Mini Pac Pure and Midi Pac Pure, the packing lines have been continuously improved in small steps, based on the experiences from many demanding applications. These improvements have also been considered at the development of Big Pac Pure

"We know that we don't have the cheapest machines on the market to buy. But probably the most profitable to own? We believe in Quality. We invest in the Futura."

The New Generation Big Pac 400 Pure is introduced at Wire 2010 in Germany.

Reference – Product History

The New Pure machines have been a huge success, with about 200 Mini Pac Pure and Midi Pac Pure packing lines of the New Generation delivered worldwide.

Coil Packing Line

Skaltek Big Pac 400 Pure

Basic Product Information

The Big Pac Pure packaging line includes automatic shrink film equipment, automatic stacking of coils on pallets with automatic feeding of empty pallets from a pallet magazine. A semi-automatic stretch film unit makes it possible to supply pallets directly to distribution from the packing line. The line also includes option for label printing.

The Coil Packing Line Skaltek Big Pac 400 Pure is primarily developed for high output capacity of building wire, such as 2x1 mm² to 5x2,5 mm², packed in 50 m up to 250 m lengths (3x1,5 mm²). Small cable diameters – long lengths / large cable diameters – shorter lengths. BP400 is also suitable for smaller coax- and signal cables in longer lengths, depending on cable diameter.

The production capacity is max. five coils per minute (5 x 50 m) or up to 350 m/min (3,5 x 100 m) with a realistic shift output of 120 km/8 hours shift. The approximate range of cables is 5 – 12 mm in diameter.

Skaltek Big Pac 400 Pure is designed with in-line extruder production in mind. This requires the best possible Reliability and therefore BP400 Pure is designed with careful attention to simplicity in each detail. It is most common to run the Big Pac line in tandem with extruder or with driven Pay Off. Big Pac 400 Pure is built for Pallet size 800 x 1200 mm (Euro-pallet).

The coil dimensions are:

- Coil diameter 400 mm (O.D.)
- Core diameter 200 mm (I.D.)
- Coil width 50 – 300 mm

**1. Skaltek AX20-2, Tire driven Pay-off**

- Is mobile for quick reel handling
- Skaltek's self-centering pintles save time and simplify the reel change
- Is stable and compact because of the design with the high-low portal, which always positions the reel close to the floor

2. Skaltek BP400 Pure, Coil Packer

- Coils exact cable lengths, $\pm 0,1\%$
- Continuous quality test of the cable
- Sorts out faulty cable automatically
- Feeds the coils into the shrink film equipment automatically

3. Shrink Film Equipment, SW4 & S04

- Automatically shrinks PE-film around the coils

4. Provision for Printer and Label Applicator

- We can provide for integration of a standard printer & label applicator

5. Skaltek PM8, Pallet Magazine

- Automatically feeds empty pallets into the Coil Stacker
- Holds up to 10 Euro-pallets

6. Skaltek CS400, Coil Stacker

- Stacks a pre-set number of Big Pac coils onto the pallet

7. Skaltek SP, Stretch Packer

- Semi-automatic stretch wrapping of full pallets

8. Skaltek KT, Chain Conveyor

- Transports the pallets from the Coil Stacker to the Stretch Packer and then to the Roller Conveyor

9. Roller Conveyor

- Accumulates one stretch wrapped pallet, ready for distribution

