oerlikon
textile components

PK 6000 Weighting Arms

Excellent quality for long-staple ringspinning machines

texparts

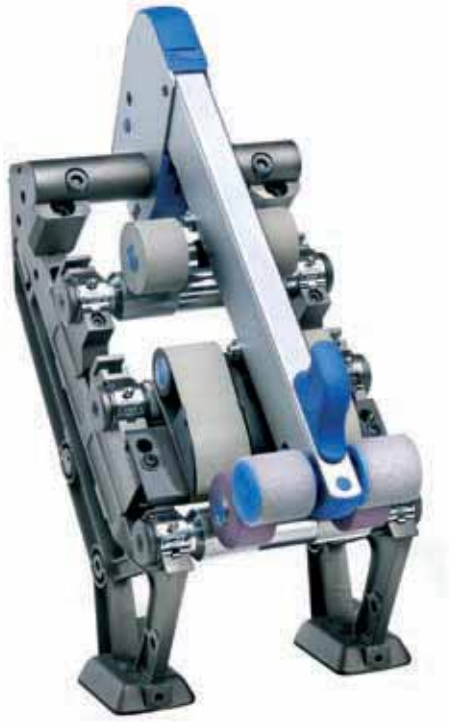
PK 6000 Weighting Arm with pneumatic loading of top rollers

Up-to-date draft system for excellent spinnig results

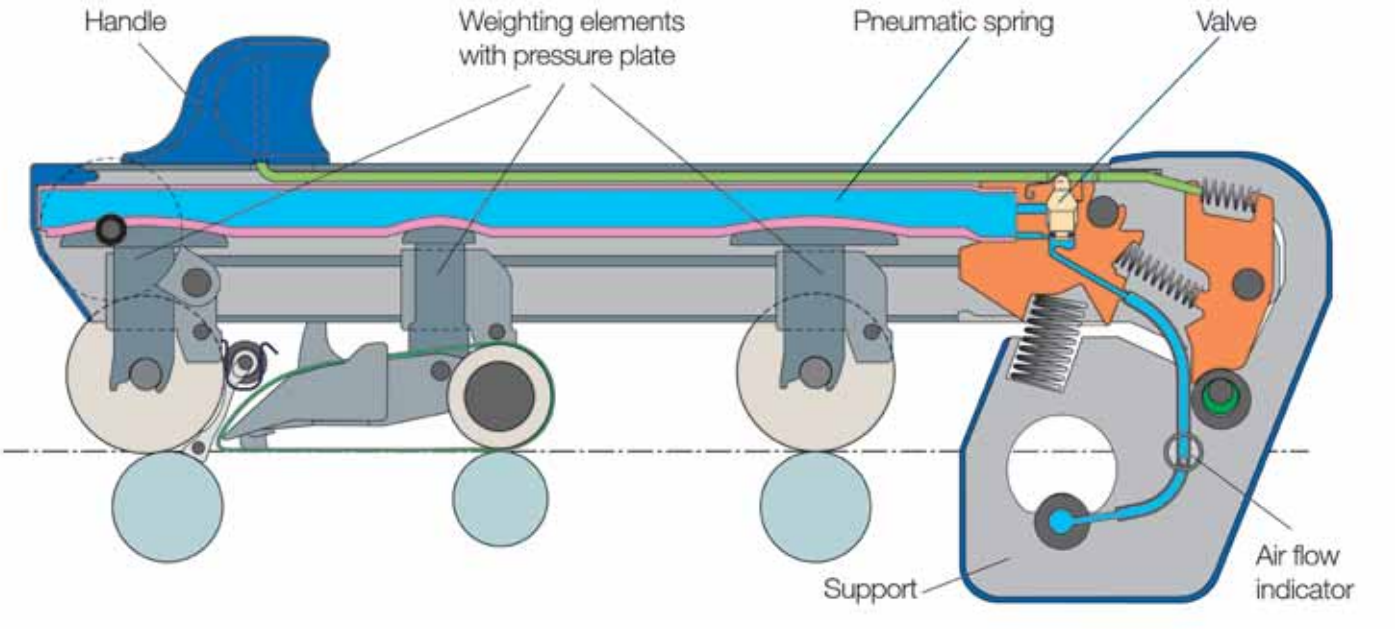
The PK 6000 is a weighting arm with pneumatic loading of the top rollers. It is suitable for spinning wool, man-made fibres and blends of these materials as well as dry-spun bast fibres up to a fibre length of about 200 mm.
The 3-roller double apron draft system works according to the slip-draft principle, with a recessed roller as the top apron roller. Depending on the type of preparation, twisted roving or French-type roving can be fed to the draft system.

With its pneumatic loading of the top rollers the PK 6000 is characterized by the following features:

- Excellent spinning results
- Constant weighting load from spindle to spindle
- Easy to fit
- Easy to set
- Easy to use
- Centralised pressure setting
- Centralised partial load
- Top apron cradle concept with individual tensioning system

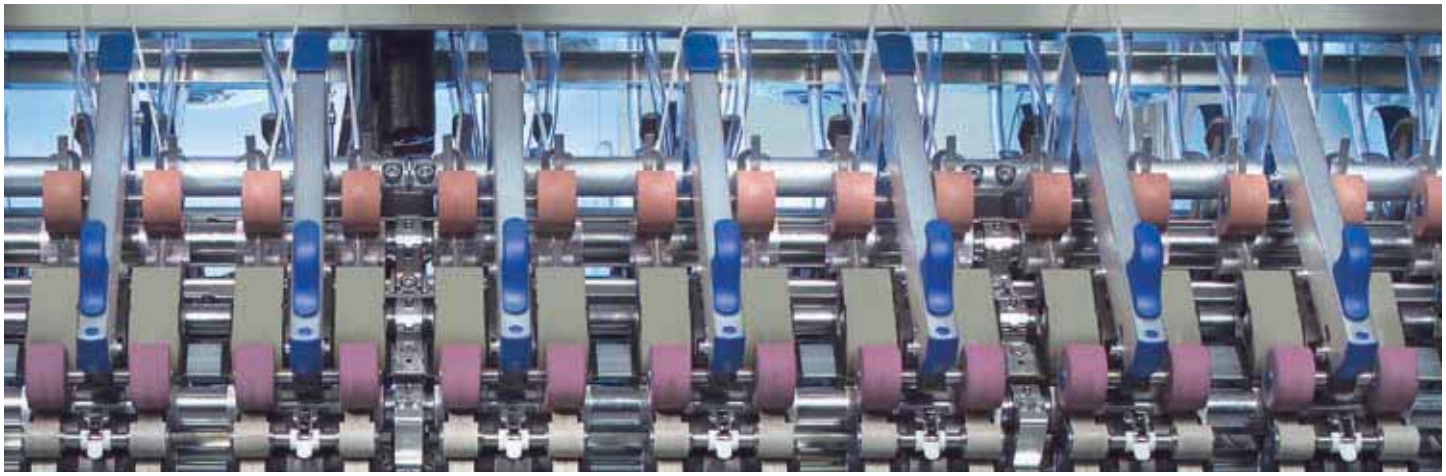


The pneumatic system



The weighting pressures on the top rollers are set infinetely and centrally using a non-oiled compressed air-supply system. The latter is installed in the form of a ring line to which all weighting arms are connected. The ring line is supplied with controlled air pressure via a pneumatic unit.

- The pneumatic system operates as a closed system, in which almost no air is consumed and the same air pressure is applied to every weighting arm.
- There are no more pressure differences between the individual spinning places.
- The infinite pressure setting permits exact adaptation to the technological requirements of the material to be spun.
- The possible pressure setting range has been extended.
- There is no more individual pressure setting of each weighting arm at the respective weighting elements (front, middle, rear); thus the risk of incorrect settings is ruled out.
- The weighting pressure of the top rollers remains constant when the latter are ground within the limits of the permissible grinding range.
- The contact pressure of the top rollers is dependent only on the air pressure in the system and on the size of the pressure plate of the weighting element.
- If the machine is switched off, the entire machine is set at partial load from a central point.
- Partial load has been selected in order to reliably prevent the intrusion of the yarn twist into the draft field. The pressure is nevertheless low enough to protect even soft cots from remaining marks (prevention of moiré effect) caused by the bottom cylinder. All top rollers are partially load-reduced, but not lifted clear. This means that protection of all top roller cots is assured.



Easy setting, easy operation

Easy to set

The PK 6000 is simple to assemble. Its fasteners are easily accessible. The height can be adjusted and controlled easily and quickly with simple gauges. The draft field setting is referred to the front bottom roller. That gives your technicians more time for other jobs.

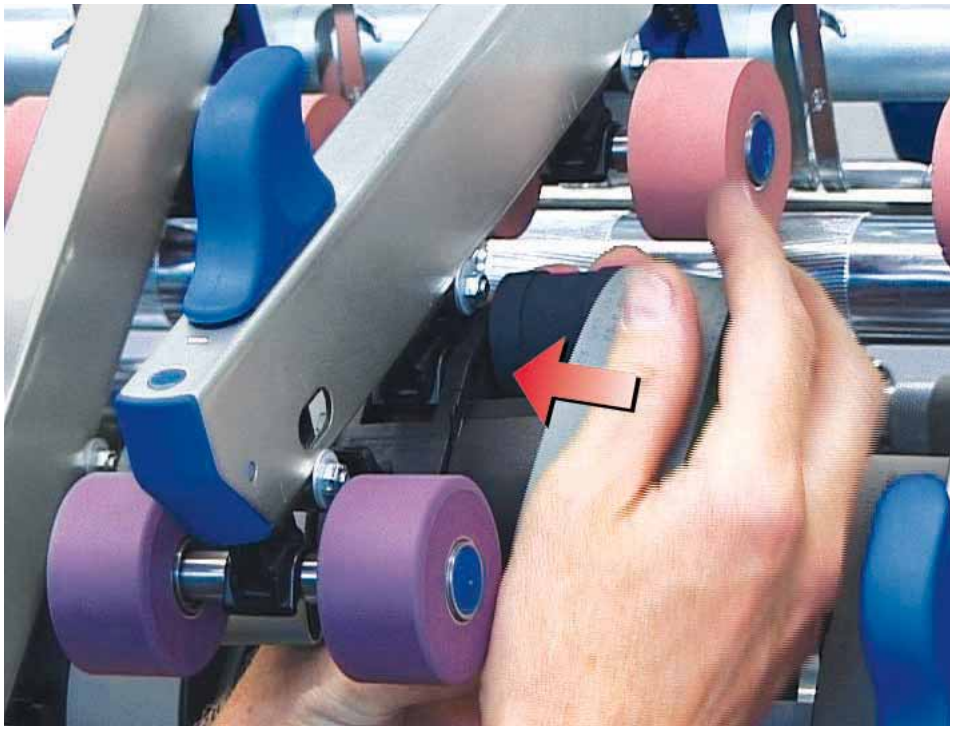
Easy to operate

Thanks to the pneumatic system the PK 6000 can be opened with only a slight pressure on the handle. The same applies for closing. Just position it lightly, and it locks practically by itself and immediately builds up the specified pressure.
The low height of the PK 6000 means that everything is in easy reach and all maintenance work can be done easily and quickly. Also the changing of the top rollers is simple and easy too.

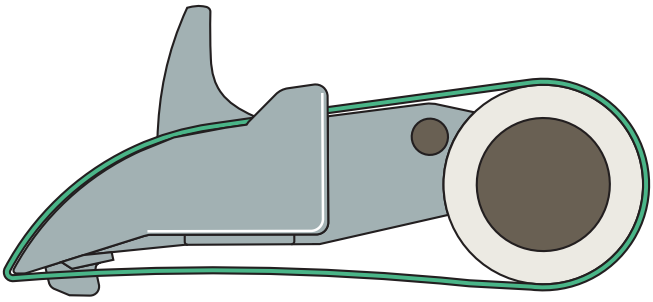
Top Apron Cradle System
Easy apron exchange

OH 6022 - top apron cradle with individual tensioning system

Top apron cradle system OH 6022 is used for the weighting arm PK 6000. The design principle of the OH 6022 permits compensation of apron diameter tolerances with its individual apron tensioning.
The individual apron tensioning results simultaneously in low strain on the fibre and gentle fibre guidance during the draft process.
The low-friction apron running ensures a low-drive torque and long apron service-life.
Changing of the top aprons can be done quickly and easily without removal of the top apron cradle system, even while still installed in the ringspinning machine.



Apron exchange can be done easily without removing and dismantling the top apron cradle.



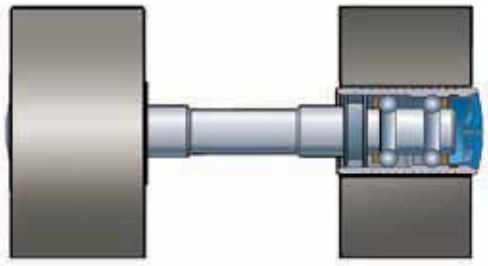
OH 6022

Mono-clearer roller concept

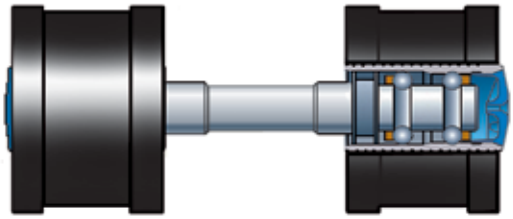
For cleaning the front top rollers and to prevent laps, a mono-clearer roller system is available for the PK 6000.
This mono-clearer roller system is guided by a swivelling, spring-loaded clearer roller holder and lightly pressed against the top roller.
Its exact parallel guidance ensures an excellent cleaning effect. It can be detached from the clearer roller holder for quick and easy cleaning.

High quality Top Rollers with high loading capacity

Top rollers LP 1014 can be used as front, rear and apron top roller in the PK 6000, whereas LP 1015 should be used as apron top roller only.
Rear and front top rollers should have 50 mm cot diameter with newly fitted cots after first grinding.
Subsequent grinding of the cots may reduce the cot diameter of rear and front top rollers by a maximum of 3 mm. Within this range it is not necessary to readjust the height of the weighting arm or increase the loading via increasing the air pressure.
The system diameter of the apron top roller is 33 mm and must be kept precisely on account of the specified apron length.
The recess depth of the apron top roller has a crucial effect on the intensity of fibre guidance and fibre control. It is an important instrument to achieve optimum yarn quality. Usually the top rollers are supplied without cots. If required Accotex Texparts can also supply top rollers with cots fitted and ground. The cot quality can be specified by the customer.



LP 1014
Top roller for use as rear and front top roller.
Roller diameter 19 mm.
Diameter above cot 50 mm.



LP 1014 / LP 1015
Top roller for use as apron top roller as recessed roller. Roller diameter 19 mm.
Diameter above cot 33 mm
(recessed depth 0.5 - 1.5 mm).

Advantages of the PK 6000 weighting arm in daily operation

The PK 6000 weighting arm offers a lot of advantages that will soon pay off in daily operation:

Saving on cots
With the PK 6000 the long-staple ringspinning machine can be set quickly and easily to partial load. This prevents cots from damage. There's no more premature grinding and replacement of top rollers on account of moiré effect. The service life of cots will be extended.

Reduction of labour costs
Manual work is and remains an important factor in the calculation of the spinning mill.
With its centralised pressure setting, central partial load and quick and easy apron exchange, the PK 6000 reduces the operating expenses and will save the spinning mill a reasonable amount of time and money.

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