

PK 1550 Series Weighting Arms

**Spring loaded draft system
for roving frames**



PK 1550 Series Weighting Arms

A decisive step towards improved process reliability

Increased efficiency for the production of high quality rovings

The new series PK 1550 weighting arms offer more flexibility for the spinning process and an improved process reliability, thus resulting in rovings of optimum quality. These are the convincing features of the PK 1550 Series:

- Flexibility without any compromise
- Optimized surface protection
- Smaller load tolerances
- Visible load indicators
- Ergonomic handle
- Top apron cradle concept with individual tensioning system
- Easy disassembling of top rollers

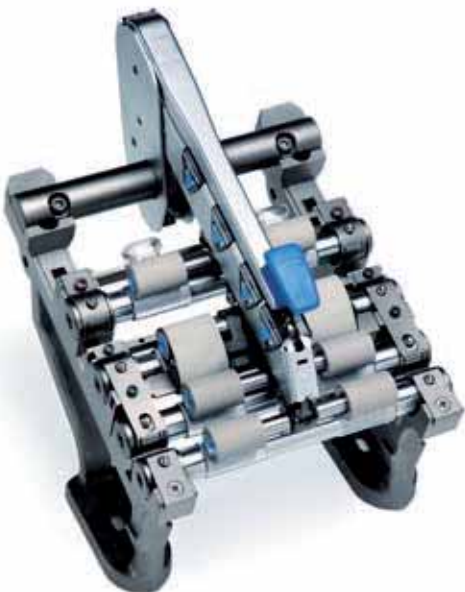
The PK 1500 weighting arms are intended for 3-roller and 4-roller double apron draft systems on cotton roving frames. They are suitable for spinning cotton, man-made fibres or blends thereof up to approx. 60 mm length. The PK 1550 weighting arm series comprises the following types:

3-roller double apron draft systems

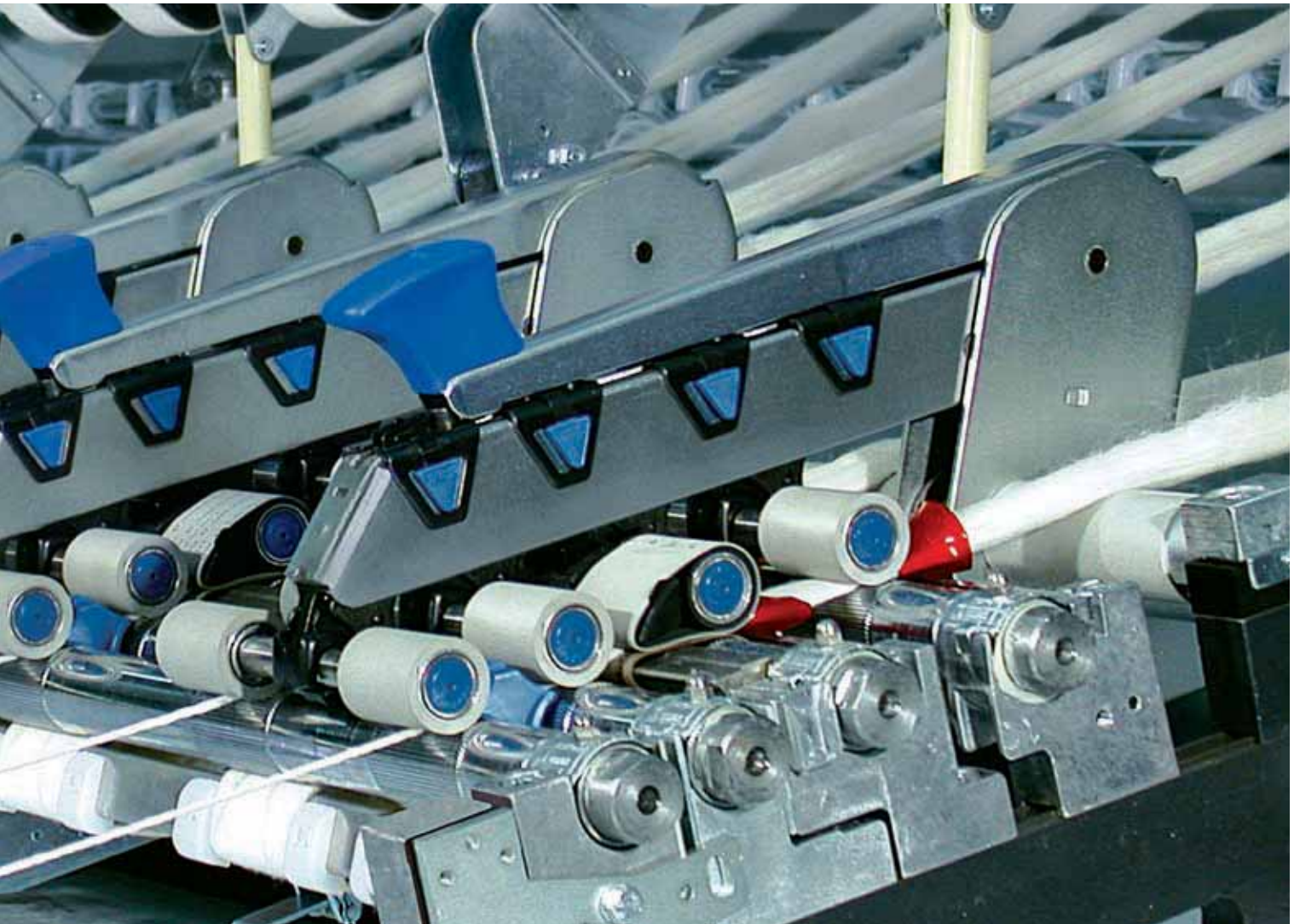
- PK 1550-6008 948
(28 mm Ø top rollers)
- PK 1550-6008 949
(35 mm Ø top rollers)

4-roller double apron draft systems

- PK 1550-6008 947
(28 mm Ø top rollers)
- PK 1640-6011 304
(28 mm Ø top rollers)



The new PK 1550: improved process reliability



The new visible load indicators of PK 1550



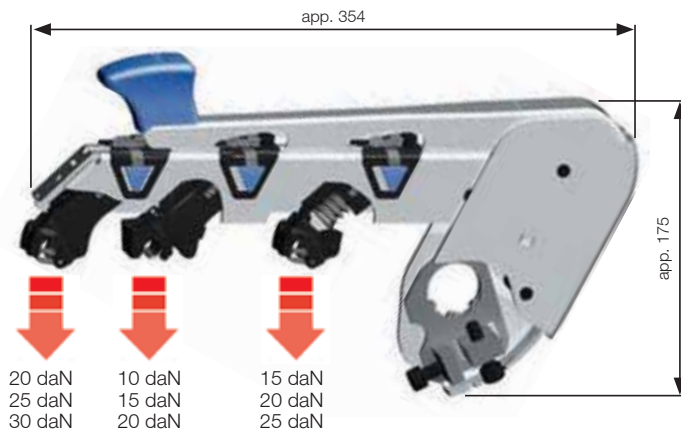
Easy monitoring of individual load setting at each weighting element

**New features for safe and easy operation:
the visible load indicator**

The visible load indicators of PK 1550/ PK 1640 weighting arms allow you to see at a glance which load pressures have been set at each weighting element. The status of the blue triangle clearly indicates the load step setting of the respective weighting element. In this way the pressure set at the weighting arms can be easily monitored and corrected throughout the entire roving frame.

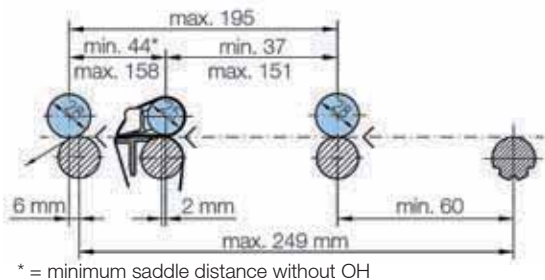
PK 1550 Series Weighting Arms

3-roller-double apron draft system



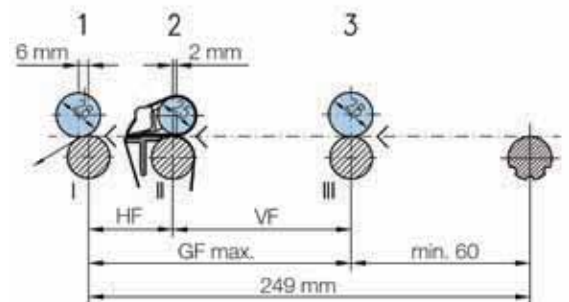
PK 1550-6008 948
PK 1550-6008 949

Draft arrangement and draft field settings

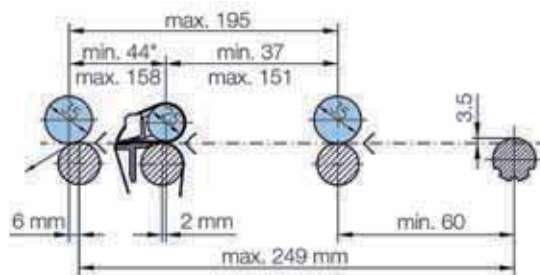


* = minimum saddle distance without OH

Draft arrangement PK 1550-6008 948

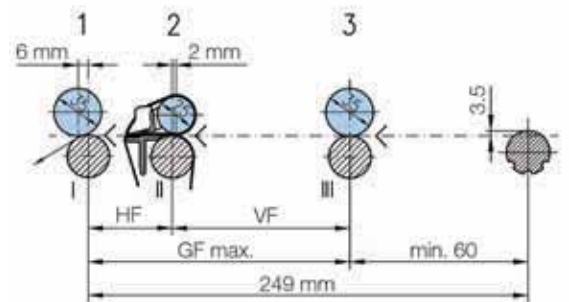


Draft field settings PK 1550-6008 948



* = minimum saddle distance without OH

Draft arrangement PK 1550-6008 949



Draft field settings PK 1550-6008 949

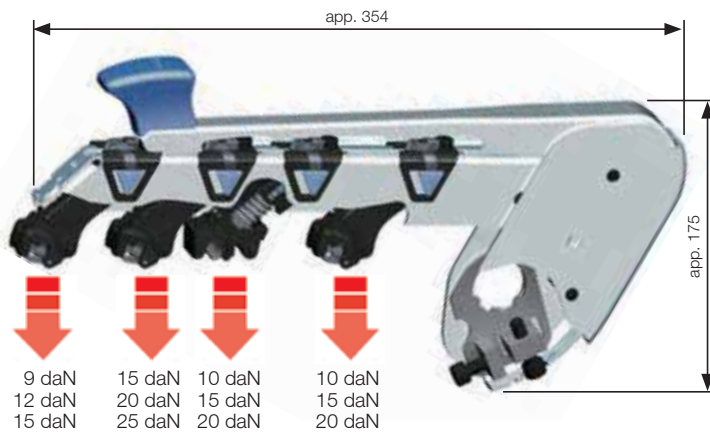
Weighting arm	Top apron cradle	Bottom roller diameter				Draft field (mm)			Total draft field GF mm max.	Fibre length max. (mm)
		I	II	III	IV	HF	VF min	VF usual ¹⁾		
PK 1550-6008 948 PK 1550-6008 949	OH 5022					49	40	1)	189	45
	OH 5042	30/32	25/32	30/32	-	60	40	1)	189	54
	OH 5245					76	40	1)	189	60
PK 1550-6008 947	OH 5022	30/32	30/32	25/32	30/32	49	40	1)	193	45
PK 1640-6011 304	OH 5022					49	40	1)	232	45
	OH 5042	30/32	25/32	30/32	30/32	60	40	1)	232	54
	OH 5245					76	40	1)	232	60

Zone settings and maximum fibre length of PK 1550 / PK 1640

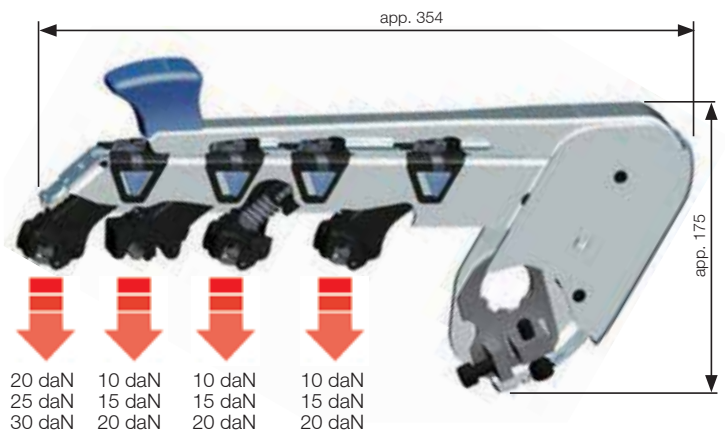
1) VF depends on the fibre to be spun and the fibre length

PK 1550 Series Weighting Arms

4-roller-double apron draft system

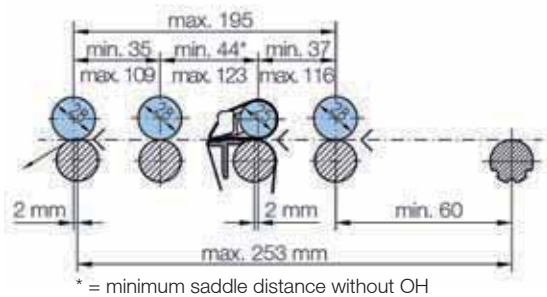


PK 1550-6008 947

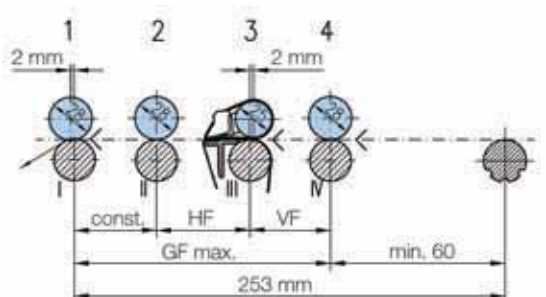


PK 1640-6011 304

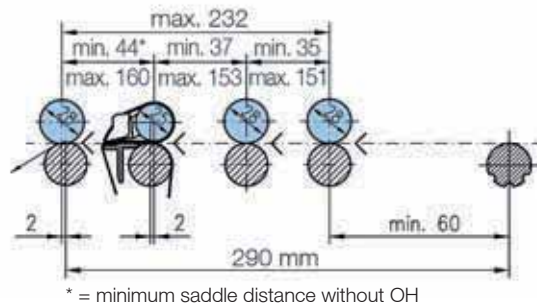
Draft arrangement and draft field settings



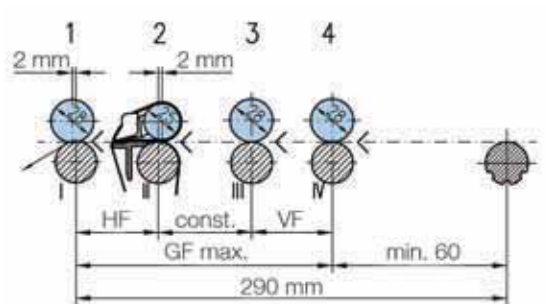
Draft arrangement PK 1550-6008 947



Draft field settings PK 1550-6008 947



Draft arrangement PK 1640-6011 304



Draft field settings PK 1640-6011 304

The 4-roller weighting arm **PK 1550-6008 947** (28 mm Ø top rollers), which is designed for 4-roller double apron draft equipment, differs from the 3-roller version in having an additional condensing zone between the roller pairs I/1 and II/2. By deliberately condensing the fibre material in this zone, a reduction in the spinning delta is achieved, thus

improving the incorporation of the fibres into the roving. This results in the following important advantages:

- Reduced number of thread breakages (improved process reliability)
- Increased efficiency
- Greater package density at roving frame bobbin thanks to the more compact roving

4-roller version **PK 1640-6011 304** (28 mm Ø top rollers), which is designed for 4-roller double apron draft equipment, differs from the 3-roller version in having an additional draft zone between the roller pairs III/3 and IV/4.

Top Apron Cradles OH 5000 Series

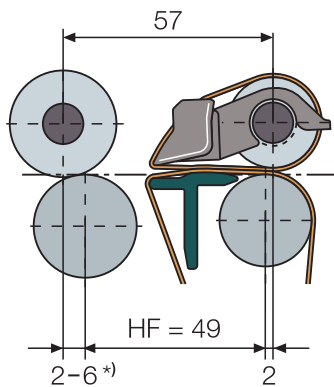
Top apron cradle concept with individual tensioning system

Depending on the application and fibre length, the weighting arms of series PK 1550 / PK 1640 can be fitted with different top apron cradles:

For cotton, man-made fibres and blends

Short top apron cradle OH 5022

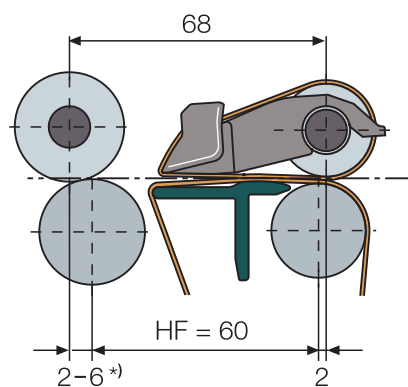
up to 45 mm fibre length



OH 5022

Medium top apron cradle OH 5042

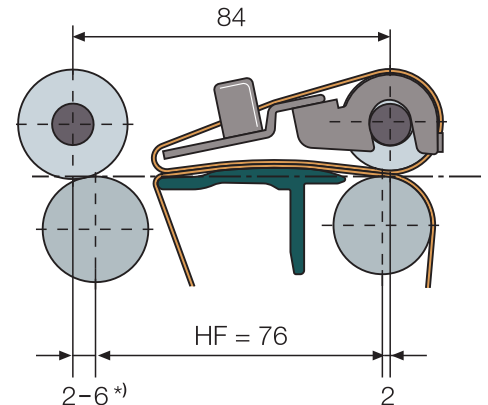
up to 54 mm fibre length



OH 5042

Long top apron cradle OH 5245

up to 60 mm fibre length



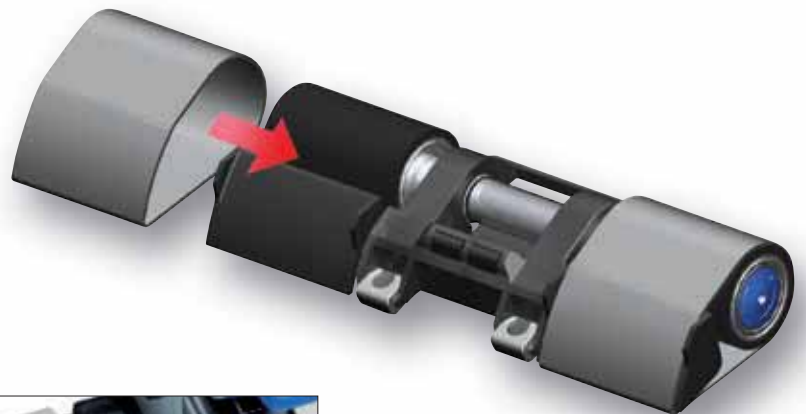
OH 5245

*) depending on the type of main field condenser

All top apron cradles are characterized by individual apron tensioning, thus ensuring perfect fibre guidance throughout the entire roving frame.

The advantages of the individual tensioning system

- Low-friction and gentle apron running thanks to the special surface structure and an ideal combination of materials give the apron unit a low drive torque and ensure the aprons a long working life.
- Individual tensioning of top aprons per spinning position.
- Lowest possible stress on the fibres during drafting and gentle fibre guidance.
- Time-saving apron exchange without the need to remove the top apron cradle unit.
- Easy handling of the apron cradle unit.



Top Rollers LP 1015

Proven components with precise running behaviour

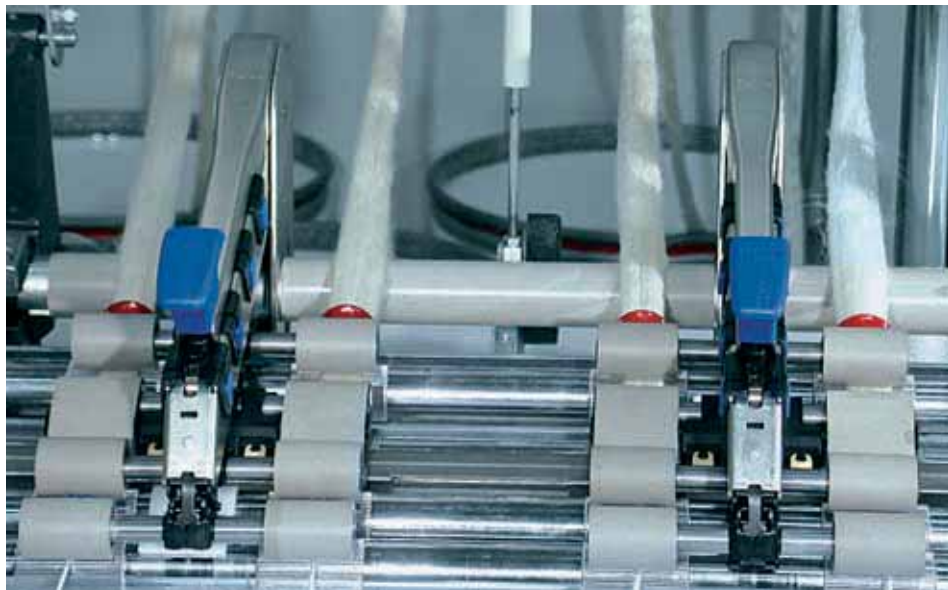
High quality top rollers with high loading capacity

Top rollers of series LP 1015 are products of the latest state-of-the-art roller bearing technology and have become standard components of today's top quality draft equipment.

They convince by the following advantages:

- Small roller diameters
- Long service life at high load capacity
- Sturdy, high-quality ball bearings
- Precise running behaviour
- Completely hardened axles
- Ground saddle for precise seating in the weighting arm
- Minimized friction
- Reliable bearing seal
- Long service intervals
- Simple maintenance

The top rollers are supplied as standard without cot. All basic types can be delivered with ready ground cots according to customers specification for all types of rubber quality and dimensions.



LP 1015 for PK 1550

Top roller for use as rear and front top roller.
Outer ring diameter 19 mm. Diameter over cot 28 mm or 35 mm (only 3-roller-version).



LP 1015 for PK 1550

Top roller for use as apron top roller as standard.
Outer ring diameter 19 mm. Diameter over cot 25 mm.

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