

FM 20 horizontal rubbing frame



Model FM 20 L

- Tubes length: 300 mm
- Maxi bobbin weight: 4.7 kg of material.

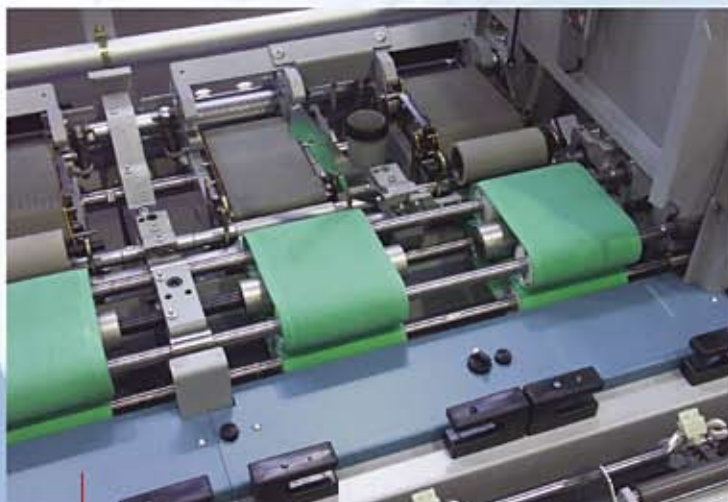
Model FMV 20 S

- Tubes length: 243 mm
- Maxi bobbin weight: 3.8 kg of material.

- Universal rubbing frame especially appreciated in flexible units for small lots
- Reliable, easy to operate and not requiring much maintenance, the FM 20 offer very attractive operating costs
- Manual bobbin doffing
- Motor with frequency variation
- Increase suction evenly applied
- Produced rubbed rovings Nm 0.66 to 5.5
- Delivery speed up to 220 m/min
- Rubbing speed up to 1200 cycles/min



- The man/machine dialogue is achieved by a touch type screen terminal giving access to functions of counting and of tachometry and proposes numerous means for helping in the diagnosis.



Double apron drafting system

FM 20 horizontal rubbing frame

Designed by N. Schlumberger, it has the following characteristics:

- Feed cylinders
- Two positively driven double aprons
- The pressure on feed cylinder is ensured by springs
- A draft assembly with twin draft cylinders pneumatic pressure.

Technical characteristics FM 20

Processed materials	Wool, long staple chemical fibres, blends	Pressure on draft cylinders	80 daN (approx. 80 kg) by pneumatic ram
Feeding	Creel for cans Ø 400, 500, 600 and 700 mm, single or double end	Total nip	327.5 mm
Number of bobbins	12, 16, 20 or 24	Draft range	6.88 to 19.95 (by gear box)
Pitch	355 mm	Weight of the delivery roving	Nm 0.66 to 5.5
Rovings per bobbin	2	Rubbing speed	1 horizontal zone 1200 cycles/min maxi
Tubes	FM 20 L: length 300 mm - Ø 45 to 70 mm FM 20 S: length 243 mm - Ø 70 mm	Number of rubs	5 - 6 - 7 rubs/m
Bobbin diameter	Maxi 300 mm	Rubbing apron width	160 mm
Bobbin weight	FM 20 L: up to 4.7 kg according to material FM 20 S: up to 3.8 kg according to material	Stop motions	Electronic, without contact with the material, adapted to the process of any material
Drafting system type	Double apron	Delivery speed	Up to 220 m/min according to the material
Maxi input load	12 to 15 ktex according to material	Compressed air pressure	6 bars
Roving weight range	1.5 - 0.18 ktex / Nm 0.66 - 5.5	Compressed air consumption	1 Nm ³ /h
Doubling	1 or 2	Main motor power	12 bobbins: 11 kW - 16 and 20 bobbins: 15 kW - 24 bobbins: 18.5 kW
Feed cylinder diameter	40 mm	Suction motor power	12, 16, 20 and 24 bobbins: 7.5 kW
Draft apron width	145 mm	Installed power	12 bobbins: 18.5 kW - 16 and 20 bobbins: 22.5 kW - 24 bobbins: 26 kW
Draft cylinder diameter	25 and 50 mm	Approx. net weight	12 bobbins: 5100 kg - 16 bobbins: 6000 kg - 20 bobbins: 6900 kg - 24 bobbins: 7800 kg
Pressure cylinder diameter	65 mm		

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