

FM20 horizontal rubbing frame



Model FM20 L

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

Model FMV20 S

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

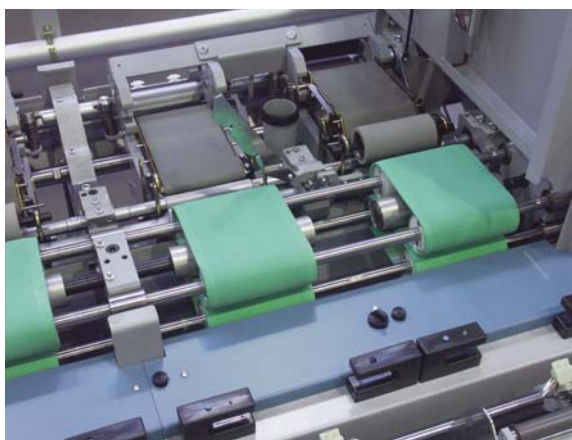
- Universal rubbing frame especially appreciated in flexible units for small lots
- Reliable, easy to operate and not requiring much maintenance, the FM20 offer very attractive operating costs
- Manual bobbin doffing
- Motor with frequency variation
- Increase suction evenly applied
- Produced rubbed rovings Nm 0.66 to 5.5
- Delivery speed up to 220m/min
- Rubbing speed up to 1200 cycles/min



Manual bobbin doffing

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

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.

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Technical characteristics*

Processed materials	Wool, long staple chemical fibres, blends	Number of rubs	5 - 6 - 7 rubs/m
Feeding	Creel for cans Ø 400, 500, 600 and 700mm, single or double end	Rubbing apron width	160mm
Number of bobbins	12, 16, 20 or 24	Stop motions	Electronic, without contact with the material, adapted to the process of any material
Pitch	355mm	Delivery speed	Up to 220m/min according to the material
Rovings per bobbin	2	Compressed air pressure	6 bars
Tubes	FM20 L: length 300mm Ø 45 to 70mm FM20 S: length 243mm Ø 70mm	Compressed air consumption	1 Nm ³ /h
Bobbin diameter	Maxi 300mm	Main motor power	12 bobbins: 11kW 16 and 20 bobbins: 15kW 24 bobbins: 18.5kW
Bobbin weight	FM20 L: up to 4.7kg according to material FM 20 S: up to 3.8kg according to material	Suction motor power	12, 16, 20 and 24 bobbins: 7.5kW
Drafting system type	Double apron	Installed power	12 bobbins: 18.5kW 16 and 20 bobbins: 22.5kW 24 bobbins: 26kW
Maxi input load	12 to 15ktex according to material	Approx. net weight	12 bobbins: 5,100kg 16 bobbins: 6,000kg 20 bobbins: 6,900kg 24 bobbins: 7,800kg
Roving weight range	1.5 - 0.18ktex / Nm 0.66 - 5.5		
Doubling	1 or 2		
Feed cylinder diameter	40mm		
Draft apron width	145mm		
Draft cylinder diameter	25 and 50mm		
Pressure cylinder diameter	65mm		
Pressure on draft cylinders	80daN (approx. 80 kg) by pneumatic ram		
Total nip	327.5mm		
Draft range	6.88 to 19.95 (by gear box)		
Weight of the delivery roving	Nm 0.66 to 5.5		
Rubbing speed	1 horizontal zone 1,200 cycles/min maxi		

*Subject to modifications

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