VAAMANA CORPORATION

Precision Carding Interfaces

Card Flat Cleaning System

For Rieter C77 Model Card

A technical brochure for maintaining cleaner flat tops with top-quality brush roller, fillet media and end-to-end functional assurance.



Actual Rieter C77 card application image - top cover open, showing the flat cleaning zone.

Top-quality roller and cleaning media Designed around brush action plus fillet cleaning support for flat-top foundation cleanliness.
End-to-end responsibility Vaamana supports design intent, BOM clarity, fitment guidance and working performance checks so the system works as expected.
Practical carding focus Prepared for mills looking to reduce recurring flat loading and manual cleaning variation.

Purpose of the system

Flat tops must present a clean and stable working surface to the cylinder zone. During normal carding, the flat-top foundation area can collect microdust, short fibre, seed-coat particles, husk fragments and compacted impurities. In polyester and blend processing, TiO2-related deposits can also build up. When this loading repeats faster than normal cleaning can control it, the mill sees unstable carding behaviour even when the main clothing appears acceptable.

Vaamana supplies the Card Flat Cleaning System for Rieter C77 applications as a complete working kit. The intent is not merely to rotate a brush, but to deliver a controlled cleaning action that removes loading without disturbing the flat wire points.

Why flat loading becomes a mill problem

- Loaded flats do not behave uniformly across the full working width.
- Microdust accumulation can slowly increase nep tendency and quality variation.
- Seed coat, leaf bits and husk particles may lodge in the flat-top foundation and resist ordinary cleaning.
- Manual stripping depends on fitter practice and shift discipline; consistency is difficult to maintain.
- Compressed-air cleaning consumes power and can increase fly/fluff disturbance around the machine.
- In polyester and blends, TiO2 deposits need a cleaning approach different from normal cotton waste removal.

Cleaning principle

The system uses a combination of brush roller action and fillet cleaning action. The brush roller works into the foundation area to disturb fine dust and loose deposits. The fillet media assists where seed coat, leaf bits and compacted foreign particles need a stronger cleaning contact. Both actions must be set so the cleaning media works on the deposit without unnecessarily stressing the flat wire points.

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Standard BOM - Card Flat Cleaning System Kit

The exact BOM may be finalized to suit the order scope, but the system is supplied as a working kit rather than a loose collection of parts. Vaamana controls the quality of the roller, fillets, mounting parts and fitment support together.

Sl.	Component / supply item	Technical purpose
1	Main brush roller assembly	Top-quality roller body with suitable brush pattern for flat-top foundation cleaning.
2	High-grade brush media	Selected for controlled cleaning of microdust, short fibre and foundation loading.
3	Metallic fillet / cleaning media	Assists removal of seed-coat fragments, husk, leaf bits and compacted deposits.
4	Shaft, end supports and bearing arrangement	Supports smooth rotation, alignment and reliable running condition.
5	Mounting brackets and fixing hardware	Holds the system in the correct working position on the C77 application.
6	Drive / transmission elements as per scope	Provides controlled rotation suitable for the cleaning action.
7	Guards / covers / access parts as per scope	Maintains safe access and protects the rotating cleaning arrangement.
8	Fitment and setting guidance	Supports correct working clearance, alignment and post-fitment verification.

Quality assurance and end-to-end support

- Roller and fillet quality are treated as critical working elements, not ordinary bought-out items.
- Alignment, running clearance and cleaning contact are checked as part of the functional intent.
- The system is supplied with attention to fitment practicality, maintenance access and safe operation.
- Vaamana follows through from technical selection to supply and working confirmation so the mill receives a usable solution, not just a part dispatch.

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Expected benefits for the mill

Benefit area	Expected effect
Cleaner flat tops	Helps present cleaner flats to the carding zone during running.
Reduced manual effort	Reduces dependence on repeated manual stripping where flat loading is recurring.
Lower compressed-air dependence	Can reduce frequent air cleaning practice, saving power and reducing fly disturbance.
More stable maintenance condition	Gives the maintenance team a more repeatable cleaning method than shift-wise manual attention.
Quality consistency support	Cleaner flat-top condition supports more stable carding behaviour, especially where loading is a recurring cause.

What Vaamana ensures

- Correct cleaning concept for the actual card application.
- BOM clarity for the roller, brush media, fillets, mounting and drive-related parts.
- Attention to wire-point safety and working clearance.
- Fitment guidance and post-fitment observation points.
- Practical support until the system works as expected in the mill condition.

Honest limitations

- The system prevents and controls loading; it does not repair damaged flats or worn clothing.
- Wrong card settings, poor suction, high raw-material trash or damaged flats must be corrected separately.
- Brush and fillet media are working wear parts and require periodic inspection.
- Performance depends on correct setting, alignment and maintenance discipline after installation.

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Why Vaamana Corporation

Vaamana approaches carding products as working interfaces. The Card Flat Cleaning System is supplied with the same principle: the roller, brush media, fillets, mounting and setting must work together. Our responsibility is to ensure that the system is practical for the mill, safe for the flat tops and effective for the intended cleaning duty.

Contact

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Independent supplier note

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