

ProLyf Gold Tops

The development of the modern high production cards, working at more than 150 kgs/hr, have largely been possible due to increased cylinder speeds and the robust structure of the carding components. The increased productivity of the cards needed modification in design of the tops to maintain the much needed quality of the output of cards. Effective removal of the neps, short fibres and trash without rupturing the fibres during high production rate, requires the wire points of the tops to be uniquely positioned.

The higher production rate requires an increase in the carding efficiency to maintain the quality of the output. The high cylinder speed, which may exceed 600 RPM, creates a huge air current around it. This increased air current creates a turbulence in the Cylinder-Flat zone. It is imperative that this air be channelled in a streamlined fashion through the wire points of the tops.

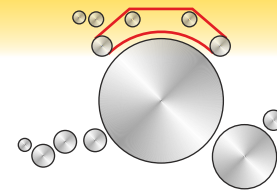
At ICC, we have innovated a patented setting design of the wire point in the tops, so that the air current is duly streamlined resulting in the tops remaining clean even when working for a longer time. To enhance the carding efficiency, the vertical lanes of the wire points of the tops are made narrow in comparison to the commonly available tops.

Salient features:

- The unique multiple reverse airflow lane in the Tops ensures that fibres travel through tops so as to effectively remove impurities, such as neps, short fibres and trash at higher production rate.
- The Tops work in a clean manner as a result of the unique setting pattern.
- Special grade micro alloy steel chemistry of wire ensures higher life expectancy of tops.
- Higher carding efficiency even at high production rate.



| Type | Height (mm) | Angle | PPSI |
|----------------|-------------|-------|------|
| ProLyf Gold 55 | 8.0mm | 70° | 530 |



ICC Factory At Nalagarh

ICC is one of the few companies in the world that manufactures cardclothing to process all fibres, natural and man-made on every type of carding machine, be it conventional or super high production card.

ICC's manufacturing facility at Nalagarh, Himachal Pradesh, India, has the state of art high precision computerised controlled machines with smart online checking devices to produce the best cardclothing to serve the global Industry. The ICC stamp of quality, recognised by world over has satisfied clients in virtually every part of the globe – the Far East Asia, South East Asia, Africa, Europe and the Americas.

ICC has been avant-garde, believing in innovation and upgradation with new products developed to handle the evolving needs of the increased rates of output and to meet more exacting quality standards worldwide.

The R&D cell at ICC is continually tuned in to market needs, experimenting with newer ideas and technologies, making significant breakthrough in tooth geometry, surface finish, heat treatment process etc. Recent developments include special alloy steel wire with patented heat treatment process in the ProLyf Gold series and ProLyf series, a new generation of tops with multiple reverse lane direction in the tops with progressive PPSI and specially developed polished Aerodoffer wire for effective doffing performance at very high production rate.

With vast network of branch offices and global partners in various countries, we at ICC address diverse needs of domestic and International markets.

Your search for cardclothing ends at ICC. Please contact ICC's nearest office and we will help you find optimal and complete cardclothing solution.

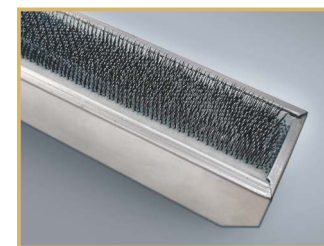
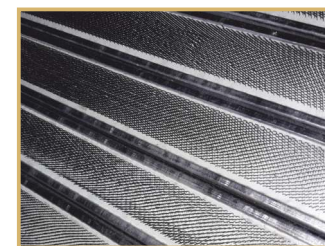
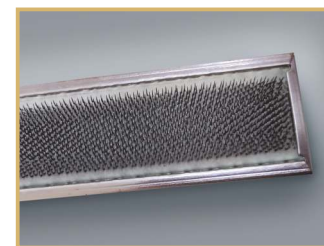
Due to continuous product development, we reserve the right to change specifications of products mentioned in our catalogue without notice. Photographs and illustrations are of informative value only.

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Cardclothing Range



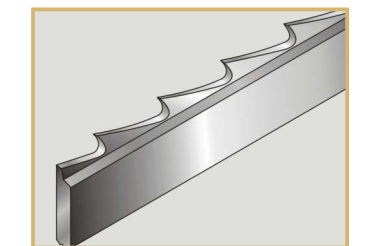
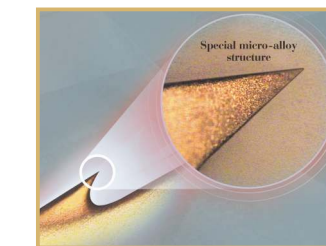
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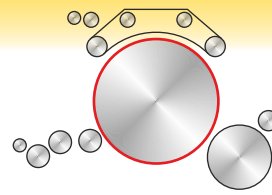
An absolute winner!



Improved Metallurgy. Greater Strength. Consistent Performance



ProLyf Gold Cylinder Wires



The ever increasing demand to improve the performance of cardclothing has led ICC to incorporate newer technologies in the manufacturing of cardclothing. Today's high production cards can work for more than 150 kg/hour. These cards need cardclothing, which has high precision where each tooth matches the specific parameters, has excellent surface finish and refined microstructure to increase resistance to wearing of the wire tip.

In continuation with our development of ProLyf series of cardclothing, we have now come up with a new range of alloy steel wires called ProLyf Gold. Apart from the special alloy composition, this series has tip designs to suit different fibres. The manufacturing process ensures consistency of each tooth throughout the length of the wire. An innovative heat treatment process used to manufacture the ProLyf Gold series produces a superlative surface finish. This ensures low friction between the fibre and the wire points, which is critical to high production cards. In addition to the refined micro structure on the wire tip, the ProLyf Gold range of wires process fibres on cards at high production rates to deliver consistent quality of the yarn.

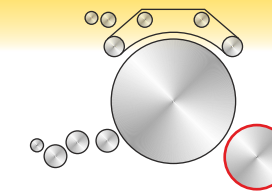
Salient features:

- Wires made from special micro alloy steel to achieve longer life at high production rate.
- Superlative surface finish leading to generation of low heat and reduced fibre rupture even at high production rate.
- Ensures high consistency in performance of the cardclothing over longer period of time.
- Reduced running-in-period of the card.
- Introduction of the innovative heat treatment process, leading to refinement of the microstructure to achieve extended life of the cardclothing.
- Lower maintenance cost while maximising productivity.



| Type of wire | Height (mm) | Rib (mm) | Front Angle | PPSI |
|-----------------------|-------------|----------|-------------|------|
| M 64 17 20 57 PRO G | 2.0 | 0.4 | 57° | 1090 |
| M 64 15 20 55 PRO G | 2.0 | 0.4 | 55° | 950 |
| M 51 17 20 57 PRO G | 2.0 | 0.5 | 57° | 860 |
| M 42 17 20 57 PRO G | 2.0 | 0.6 | 57° | 720 |
| M 51 15 25 70 PRO G | 2.5 | 0.5 | 70° | 760 |
| M 42 17 25 65 PRO G | 2.5 | 0.6 | 65° | 720 |
| CMF 64 15 20 53 PRO G | 2.0 | 0.4 | 53° | 950 |
| CMF 51 17 20 57 PRO G | 2.0 | 0.5 | 57° | 860 |
| CMF 51 16 20 53 PRO G | 2.0 | 0.5 | 53° | 816 |
| CMF 51 15 20 53 PRO G | 2.0 | 0.5 | 53° | 760 |
| CMF 42 17 20 70 PRO G | 2.0 | 0.6 | 70° | 720 |
| CMF 42 17 20 53 PRO G | 2.0 | 0.6 | 53° | 720 |

ProLyf Gold Doffer Wires



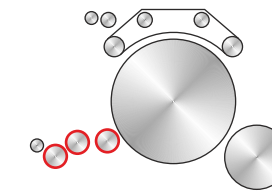
For positive and efficient transfer of fibres, ICC has a wide range of doffer wires to match the cylinder wires.

For very high production cards, the doffer wires have a special aerodynamic design which enables fibre transference at high speeds. The wire surfaces are also polished by special process to ensure there is no fibre sticking or clogging on surface. Cut to point technology and reinforced tips ensure that they can withstand high production rate.



| Type of wire | Height (mm) | Rib (mm) | Front Angle | PPSI |
|--------------------------|-------------|----------|-------------|------|
| 32 10 40 55 PRO G | 4.0 | 0.8 | 55° | 320 |
| 25 11 40 55 PRO G | 4.0 | 1.0 | 55° | 275 |
| 25 13 40 60 PRO G | 4.0 | 1.0 | 60° | 325 |
| 32 13 40 60 PRO G (4410) | 4.0 | 0.8 | 60° | 405 |
| 28 13 40 60 PRO G | 4.0 | 0.9 | 60° | 365 |
| 32 13 40 60 PRO G -S | 4.0 | 0.8 | 60° | 405 |
| 25 12 47 60 PRO G | 4.7 | 1.0 | 60° | 301 |
| 32 10 50 55 PRO G | 5.0 | 0.8 | 55° | 320 |

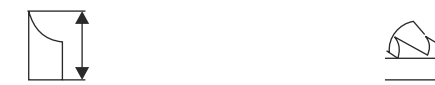
ProLyf Gold Lickerin Wires



In high production cards, licker in wire performs the heavy work of opening tangled mass of fibre with trashes at a very high speed. Though in today's cards multiple Licker in rollers is used to perform the gradual opening of fibre tufts, it is imperative that licker wire points must retain the sharpness to penetrate and open up the fibre flock, throughout its life.

ICC has now developed ProLyf Gold Licker in wire in special alloy steel metallurgy. An innovative heat treatment process enhances the toughness of the wire tip and produces a superlative surface finish. This enables the Licker in wire to retain the tip sharpness for a longer duration while delivering consistent quality.

Standard Series



| Type of wire | Height (mm) | Front Angle | TPI |
|------------------|-------------|-------------|------|
| V 08035090 PRO G | 5.0 | 90° | 3.0 |
| V 08045085 PRO G | 5.0 | 85° | 4.0 |
| V 08055080 PRO G | 5.0 | 80° | 5.0 |
| V 08055090 PRO G | 5.0 | 90° | 5.0 |
| V 10055080 PRO G | 5.0 | 80° | 5.0 |
| V 12085080 PRO G | 5.0 | 80° | 8.0 |
| V 16105070 PRO G | 5.0 | 70° | 10.0 |
| V 16135070 PRO G | 5.0 | 70° | 13.0 |

ProLyf Gold Accura carding elements

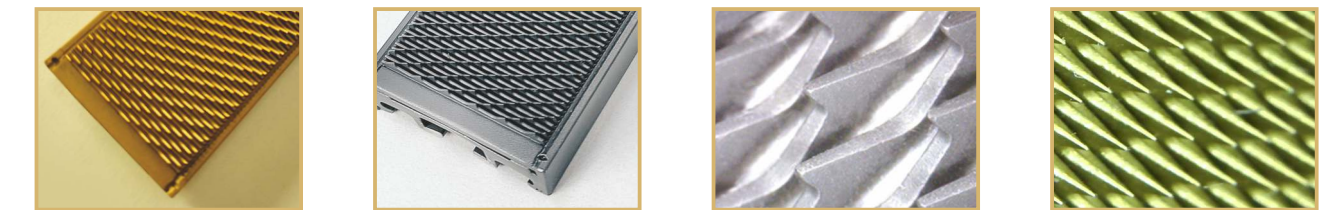
For improved performance of Accura carding elements in high production cards, it is essential that the wire tips in carding elements are sharp and can withstand high abrasion for longer duration. It is also necessary that the wire surface is smooth.

At ICC, we have developed a special surface treatment process by which the wire tip surface hardness increases substantially. This helps wire points to endure high abrasion while ensuring low friction between the fibre and the wire points. As a result, enhanced life is achieved with ProLyf Gold carding elements.

Different type of surface treatment is used for processing different fibres, for optimal performances.

ProLyf Gold Accura carding elements are available in standard wire point densities (PPSI) as detailed below.

Front and Back Carriers



| Drawing No. | Used on | PPSI Available |
|-------------|--|----------------|
| 580 | Trützscher DK 760, DK 780, DK 803 | 66 |
| 581 | Rieter C4, C10, C50, C51 | 90 |
| 582 | Trützscher, DK 780, DK 800, DK 903, TC 03, TC 05, TC 5/3, TC 07, TC 08 | 139 |
| 583 | Rieter/LR C1/2, C1/3, LC 100/LC 300, | 240 |
| 589 | Rieter C4, C10, C50, C51 | 285 |
| 590 | Trützscher DK 740 | 330 |
| 591 | Crosrol MK4, MK5 and ICC Accura Assemblies | 400 |
| 967 | Trützscher DK 803, DK 903 | 450 |
| 2467 | Replacement for Clipped Carrier | 550 |
| 2225 | LC 300A, LC 300A V3, LC 333, LC 361, LC 363, LC 636 | 630 |
| 2472 | TC03, TC05, TC5/3, TC06, TC07, TC08, TC11, TC 15, TC 19i | |
| 2437 | Blow room CVT3/CVT4 | |
| 2036 | Rieter C60, C70, C 75, C80 | |