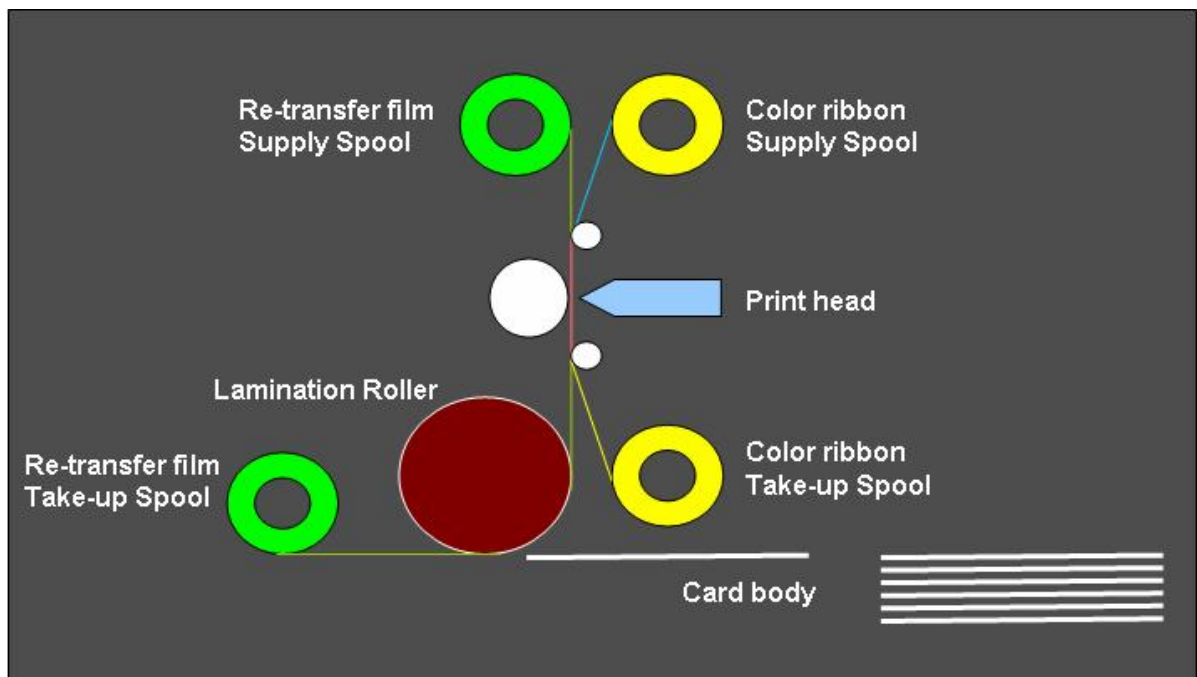


## PPC Re-Transfer Printing (RTP)



- XID Re-Transfer technology does not have the print head touch directly onto the card surface. Instead, the card-data is printed mirror-inverted onto a PET film and subsequently released from this film and fused onto the card through heat and pressure. The print itself is completely independent of the card surface or the card material. This eliminates the ongoing costs for print head replacement. DIS grants unlimited Print-Head lifetime warranty for *EDIssecure*® XID Re-Transfer Card Printer as long as *EDIssecure*® material is used.

It is possible to print on 100% PET (Polyester), PVC, PVH & ABS (injection molded plastic cards) and even on Polycarbonate cards. The usually required thin PVC layer, which allows a thermal transfer print, is no longer necessary. These materials offer far more advantages to the customer as they have a better temperature resistance, lifetime cycle and resistance to physical and chemical impact.

- 100% PET Cardware is a very reliable card material at reasonable costs with good heat resistance and very good mechanical strength. Such material would significant help to avoid headaches regarding to expected card lifetime of 10 years like as National-ID cards. This material is not printable with direct card printers but pretty well with XID Re-Transfer technology.
- With XID Re-Transfer technology the printing on the card automatically is protected by the 0.009 mm thick PET release layer of the re-transfer film against scratching and other environmental hazards. That leads to a much more durable card, highly resistant to physical and environmental impacts. Even backside of card is protected by this PET layer against abrasions if printed e.g. with 2D barcode and OCR lines. This minimizes read errors. Lifetime of card and usability period will definitely increase when using Re-Transfer technology. Manipulating the card will destroy and damage the printed layer and make fraud visible.
- Furthermore a versatile lamination program inline or offline with OVD Overlay, OVD Patch and Clear Patches is available for additional protection, if requested. The lamination will not interfere with the pre-print of the card. Most of sample cards from Digital Identification Solutions are already pre-printed with UV and Microprinting.

The XID Re-Transfer film laminates nicely onto card surface even when edges are not flat or when card surface is uneven. Hence true edge-to-edge printing. Now chip cards or proximity cards can be personalized without any problems.

- Because XID Re-Transfer print results are of best quality costs for pre-print on Cardware can be reduced by printing backgrounds and logos with the printer.