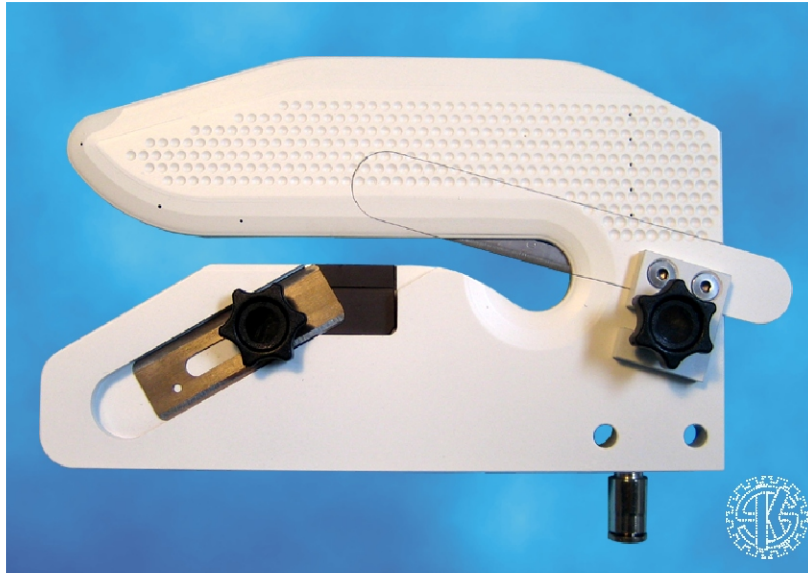




TWIN-IV Highspeed Edge Slitting Knife

A perfect cut is always a good start...



Article No. TB-o-9-o84

The design of the SKM TWIN-IV Edge Slitting Knife System is developed to sidecut layflat web at high speed.

The TWIN-IV Edge Slitting Knives are manufactured as a right and left handed model.

The knife units are designed to cut and slit "sticky" high friction film.

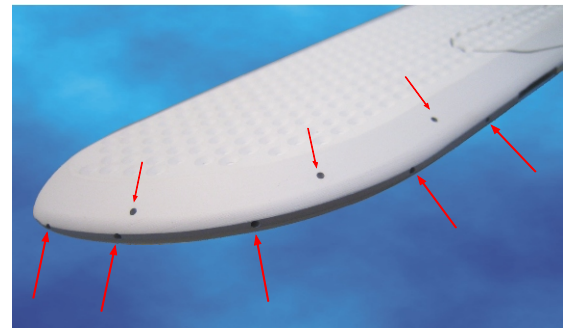
The TWIN-IV Knife System can manage any blown lay-flat film within the range of 15 to 500 micron.

FEATURES & BENEFITS

The SKM TWIN-IV Knife System, with grooved wedge-shaped guide, has a plasma coating which combined with air control valves provide:

- Extreme low friction during the slitting process due to the "air cushions" developed in the corrugated surface on the knife holder
- Full scale air control by means of the 1/8" air valve
- Correct air velocity adjustment ensures optimum life time of the razor blades as well as the knife holder
- Perfect web separation without "high edges" due to the integrated nozzles:
 - **1 + 4 Wedge-nozzles** • **2 x 3 Front-nozzles** • **2 x 5 Side-nozzles**
- Both razor blades are exchangeable during production (slitting process)
- Fast replacement of primary razor blade which can be used as secondary razor blade, extending the life time of the slitting blades several times
- The designed TWIN-IV Edge Slitting Systems is tailored to fit SKM and other makes of winders

UNIQUE AIR NOZZLE SYSTEM



The combination of the wedge-shaped guide and the air nozzle system allows a perfect separation of the lay-flat film, - at low speed as well as high speed. Also the air nozzle system ensures very low friction between the film and the knife holder resulting in a minimum of attrition on the knife holder.

Thanks to the air valves full control of the air supply to all nozzles can be obtained.

Depending of the web speed the valves can be adjusted to supply the correct amount of air. This ensures long lifetime for the knife blades as well as the knife holder.

www.sk-machinery.com

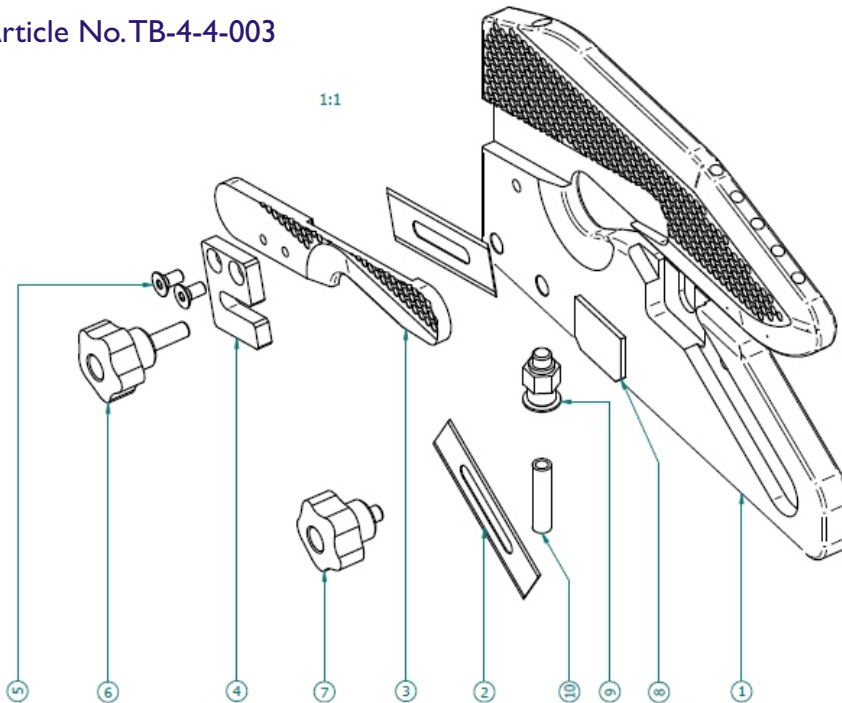
Specialized Machines and Equipment for the Plastic Processing Industry



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Article No. TB-4-4-003



- 1) Edge Slitter Unit
- 2) Cutting Blade
- 3) Housing for Cutting Blade
- 4) Bracket
- 5) Bolt DIN 7991M4x008
- 6) Machined Wing Screw
- 7) Machined Wing Screw
- 8) Flexible adhesive magnetic rubber
- 9) Pneumatic Fitting KQ2Ho6-M6
- 10) M6 Flex Tubing

TWIN IV® is coated with a wear-resistant plasma-chemical coating.

The plasma-chemical process is used to produce oxide-ceramic layers which, in addition to providing a high level of protection against wear and corrosion, also fulfill requirements regarding hardness, uniform layer formation, fatigue strength, dimensional accuracy or temperature load capacity.

On an initial thin layer, the barrier layer, which is in direct contact with the metal substrate, there is a low pore-count oxide ceramic layer.

This layer carries a further oxide ceramic layer of equal thickness, which has a high pore-count.

The second layer may serve as adherent base for paint or impregnations such as those with PTFE.

The schematic diagram provides a graphic representation of the oxide ceramic/metal bonding created by the coating process.

- 1) High pore-count oxide ceramic layer
- 2) Low pore-count oxide ceramic layer
- 3) Barrier layer - 100[nm]
- 4) Aluminium substrate

