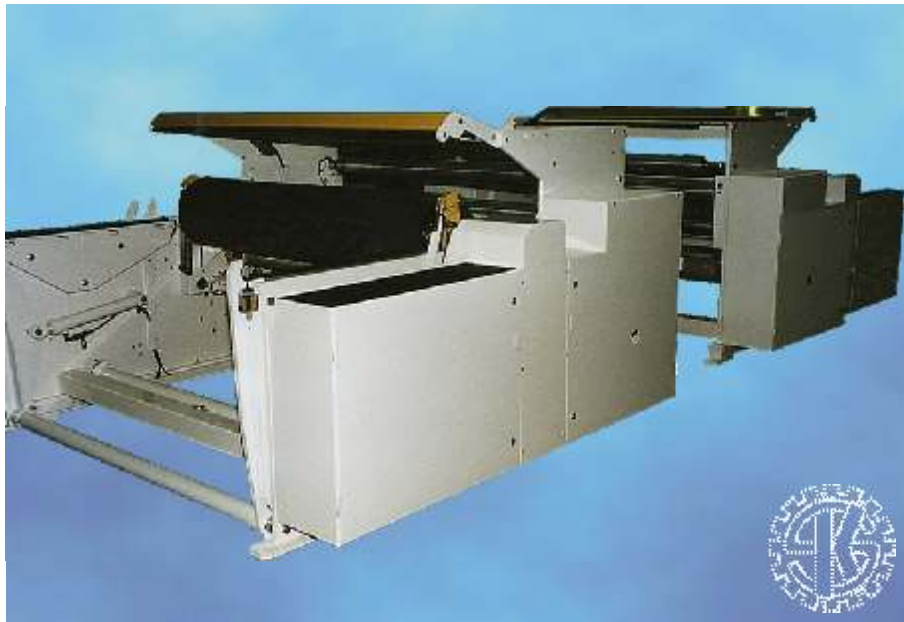


# SKM SURFACE WINDER MSG /1A-V



SKM design and develop winders, haul-offs, perforation and cutting tools together with handling equipment for the plastic industry.

The MSG series is designed and developed to wind tube extruded laminated films, stretch films, asymmetric co-extruded films and in-line preconditioned or printed films from 8 to 400 micron.

SKM's MSG surface winder features a "true walk away operation" because all handling and winding is fully automated. The finished roll is hydraulically delivered to floor level.

The MSG winder is available as special stack winder, conventional stack winder, as a "front to front" version or as the pictured "back to back" version.

## FEATURES & BENEFITS

- Programmable Logic Control with multi coloured touch screen provides simple and efficient control of winder
- Fully automated handling of winding shaft, before, during and after winding of the finished roll
- Unique change of roll ensuring uniform and enhanced handling of the new roll shaft as well as the finished roll
- Speed- and torque monitored film tension control through feed back from load cells
- The MSG surface winder is adaptable to future needs due to its open software programmable logic
- Enhanced film tension control and winding quality through an efficient interaction between the external secondary nip and the relevant load cells
- Optimal use of raw materials due to efficient and accurate film handling
- Integrated torque controlled double sided edge cutting equipment on external secondary nip - type KP/EM - assuring efficient side cutting of the film tube
- KP/EM has integrated LV-95 knife for film division or film edge cutting
- Digital display of film speed and film tensions in the various film locations
- Optional taper function for efficient and reliable film tension reduction with increase of diameter of finished roll
- As a stand alone application the MSG surface winder is designed and fully prepared for total integration of all film handling modules such as:
  - fully integrated auxiliary nip
  - chrome-plated chill-rolls
  - knife systems for centre slitting
  - micro perforation
  - or other conversion equipment

*In short - all features and benefits in just one winder!*

## DESCRIPTION OF MSG /1A-V

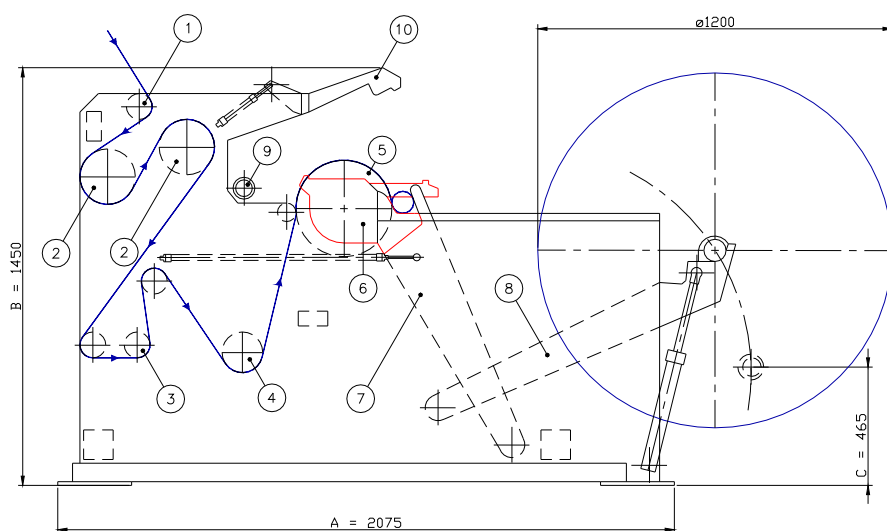
- Depending on the selected roll width the frame of the winder is built from either 20 or 30 mm steel plate which is horizontally supported by box section steel profiles.
- The steel winding drum comes either as plain or in a cross profiled rubber coated version. It is speed monitored by a torque/speed controlled Flux Vector AC Motor
- Web cutting in relation to automatic roll change is made swiftly and with high precision by the pneumatic flying knife system. The roll change is carried out by monitored retainer arms with at least 100 mm roll diameter.
- At roll change the monitored retainer arms position the prepared roll shaft.
- Easy adjustment facilitates a swift change between inner dimensions of paper cores of 76 or 152 mm.
- The finished roll is guided on hardened tracks. The tracks are staggered in the frame, so that the support is as close as possible to the film roll assuring minimal bending of the roll shaft.
- All toothed power belts between gear wheels and rollers are oversized safe guarding reliable and stable operation.
- A pivot arm working in a parallel operation over the entire winding process monitor the pressure of the winding shaft against the winding drum. At the end of the winding operation the pivot arms move the finished roll to the hydraulic lowering function.
- Lowering and delivery of the finished roll to floor level is automatically carried out by a pneumatic/hydraulic system.
- All rollers are furnished with spherical bearings for easy running.
- STS Stretch roller, diameter 170 mm, is installed before winding drum assuring perfect winding.
- Free standing control unit with either black/white or multi coloured touch screen assures easy and simple operation and programming of the winder.
- The MSG winder has panels with inspection hatches at all frame plates for service and adjustment.

[www.sk-machinery.com](http://www.sk-machinery.com)

**Svend Knudsen Machinery**  
*Specialized machines & equipment for the Plastic Processing Industry*



# SKM SURFACE WINDER MSG /IA-V



- 1) Inlet Roller
- 2) Chill-Roller System
- 3) Tension Control - Load Cell
- 4) STS - Stretch Roller
- 5) Winding Drum, Plain or Cross Profiled
- 6) Retainer Arms
- 7) Pivot Arms for Moving of Winding Shaft
- 8) Hydraulic Lowering Arm
- 9) Magazine for prepared Winding Shaft
- 10) Flying Knife System for Web Cutting

Roll Diameter: [mm]	Max. Roll Weight: [kg]	A [mm]	B [mm]	C [mm]	D* [mm]
Ø500	700	1750	1450	465	5000
Ø1000	2200	2075	1450	465	4000
Ø1500	4850	2250	1450	465	4000

\* Total width of equipment..

The technical data for the finished roll are guide lines only. The MSG winder is manufactured to individual customer requirements.

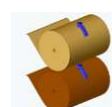
## TECHNICAL SPECIFICATIONS FOR MSG /IA-V WINDER WITH EXTERNAL SECONDARY NIP TYPE KP/EM

- Winder Type: Stationary surface winder
- Max./ Min. Roll Dia.: 1500 mm/100 mm
- Max. Roll Width: 4000 mm
- Max. Roll Weight: 4850 kg
- Line Speed: 0-180 m/ min.
- Film Tension: 0 - 500 N
- Material / Film Types: Designed for cast or blown films
- Winding Shaft Dia.: 6" / 3" - 152 mm/76 mm
- Max. / Min. Core Dia.: 6" / 3" - 152 mm/76 mm
- Air Required: 7.5 bar - 115 PSI
- Winding Principle: AC Flux vector surface drive

### Configurations for MSG /IA-V



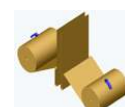
"Stand-alone"



"Stack Winder"



"Front to front"



"Back to back"



For optimum film tension control the MSG is available with integrated auxiliary nip or external secondary nip

[www.sk-machinery.com](http://www.sk-machinery.com)

**Svend Knudsen Machinery**

Specialized machines & equipment for the Plastic Processing Industry