

ALUMINIUM

*Experience –
the key to the future...*

SLITTER. WINDER. KAMPF.

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For a modern and profitable production of aluminium flat rolled products and converted foils, productivity and product quality are the most important factors. KAMPF machines provide for both, whether you are trimming and slitting strip or doubling, separating or slitting foil or converted materials. That is what makes our machine line the first choice of the leading aluminium foil and strip manufacturer worldwide

Experiences gathered within several hundred installations in the aluminium industry world-wide, continuous improvements and innovative designs are the keys for the success of machines built by KAMPF, all well known for high productivity, best quality and fastest return on investment. Our complete solutions include state-of-the-art equipment, automatic handling systems, integration into production control systems, turnkey or supervision of installation, commissioning and aftersales service.

When it comes to slitting and winding of aluminium foil and strip Kampf Schneid- und Wickeltechnik GmbH & Co. KG is your excellent choice for complete and successful solutions made in Germany.

The design of all KAMPF machines includes the following main features

- Solid design for vibration-free operation
- Latest generation of Siemens AC motors and Sinamics drive control
- In-house design of coil handling systems
- Operator-friendly HMI system with recipe management
- Safety management
- Remote diagnostic via KSP (KAMPF Service Portal)

Options

- Suction systems for edge trim and center strips, speed regulated and with noise reduction housing
- Complete housing with air-flow management, dust filtration and air conditioning
- Live view modus for in-line control of main data in graphic animation
- Integration programming to connect with level 3 production control systems



TRL

Trimming and Recoiling Line - TRL

The KAMPF Trimming and Recoiling Line - TRL offers precise slitting and best edge quality within or after the cold rolling processes. The reinforced mechanical design of the machine frame and especially of the slitting unit, do withstand all stresses of high speed processing and heavy materials. Optional the slitting unit can also be equipped with a center cut to split wide coils for downstream processes. Loading, unloading and knife set-up are fully automatic functions within the machine control. Waste treatment is well organized to achieve highest productivity.

Main features

- CNC controlled knife positioning
- Bridle rolls to eliminate coil sets
- Rewind with horizontal moving contact roll system
- Scrape handling for off-gauge materials

Options

- Edge guide system
- Surface inspection
- Various options for waste material handling
- Slitting dust suction



TRL unwind

Technical data

	TRL
Material thickness:	up to 2,0 mm
Working width:	up to 2,400 mm
Winding diameter:	up to 2,800 mm
Design speed:	up to 1,500 m/min
Slitting system:	Individual slitting heads with roll shear knives for edge trim and center cut

4 STRIP SLITTING

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Centurial / RKW1003

When looking for a flexible slitting machine concept that can be used from medium gauge foil up to heavy strip the robust tight-line slitters from KAMPF are the optimum solution. The recently re-designed Centurial for slitting of aluminium strip from medium gauge foil up to heavy strip and the well-known RKW1003 for special heavy duty applications are based on a proven basic design. The KAMPF slitters are the ultimate solution for materials such as foil-, fin- and container-stock, cable wrap, litho and brazing as well as can and can-end stock. Fast exchangeable, robust slitting cassettes, quick-lock winding shafts as well as repeatable process conditions are making the slitters flexible and changes between different materials or slitting programs are done within minutes. Individual web tension control within the slitting section guarantees excellent slitting quality with scissor knives as well as with block knives.

Main features

- Compact tight-line slitter – no pit necessary
- Direct separation of webs after slitting – no damage on the cutting edges
- Rewind shafts diameter from 76 – 500 mm (3" – 20")
- Excellent slitting quality through separate tension control in the slitting section
- Quick and easy change of slitting cassette for scissor and roll shear cutting systems, width from 10 mm upwards



Centurial

Options

- Edge guiding or web center control
- Lubrication system for oil, grease or wax
- Gauge measurement
- Surface inspection
- Pinhole detection
- Inline stretcher
- Integration of packing systems

RKW1003



Set up of slitting cassette



Automatic cross cutter

Technical data

	Centurial	RKW1003
Rewind diameter:	1,250, 1,650 or 2,100 mm	up to 2,200 mm
Material thickness:	up to 0.600 mm	up to 0.800 mm
Working width:	up to 2,100 mm	up to 2,400 mm
Design speed:	600 or 800 m/min	800 or 1,000 m/min
Slit width:	min. 10 mm	min. 10 mm
Slitting system:	Slitting cassette or individual pneumatic knife holders for scissor cut and/or roll shear cut	Slitting cassettes with scissor cut and/or roll shear cut

6 FOIL SEPARATING

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Sepamat

Separating and slitting of doubled foil has special significance and highest requirements for the production of aluminium foil. In more than 150 installations all over the world, the machines of the Sepamat family have met these expectations. Four Sepamat sizes are available. Designed for different rewind diameters, all machine layouts can be adapted to individual specifications. Whereas the models Sepamat 6 and 8 are dedicated for smaller finished rolls and combining KAMPF know-how with an economic investment, the models Sepamat 10 and 12 are designed for special requirements of bigger rewind diameters and wider widths.



Main features

- Precise slitting systems for razor blade and scissor cutting
- Sensitive and precise control system for contact pressure, web tension, speed, etc.
- Density control for repeatable roll quality



Sepamat 10 ready for unloading

Options

- Finish roll unloading cart on floor or hanging in a gantry crane installation
- Weighing unit for finish rolls
- Slitting dust suction systems
- Integrated pinhole detection system



Integrated pinhole detection

Technical data

	Sepamat 6	Sepamat 8	Sepamat 10	Sepamat 12
Material thickness:	2 x 5 µm – 2 x 30 µm	2 x 5 µm – 2 x 40 µm	2 x 5 µm – 2 x 50 µm optional 2 x 6 µm – 2 x 100 µm	2 x 5 µm – 2 x 50 µm optional 2 x 6 µm – 2 x 100 µm
Working width:	up to 1,700 mm	up to 1,900 mm	up to 2,200 mm	up to 2,200 mm
Rewind diameter:	up to 600 mm	up to 850 mm	up to 1,016 mm	up to 1,200 mm
Design speed:	up to 1,000 m/min	up to 1,200 m/min	up to 1,200 m/min optional up to 1,500 m/min	up to 1,200 m/min optional up to 1,500 m/min



Sepamat 8

8 FOIL DOUBLING



Duplomat

Duplomat

The Duplomat is designed for fast and precise off-line doubling. Design options are available for individual solutions in modern foil production. The off-line doubling with the Duplomat with exact cuts and speed regulated dosing of the separating medium eases the following last rolling mill pass and increases the productivity of the downstream processes, such as foil separating, slitting and annealing.

Main features

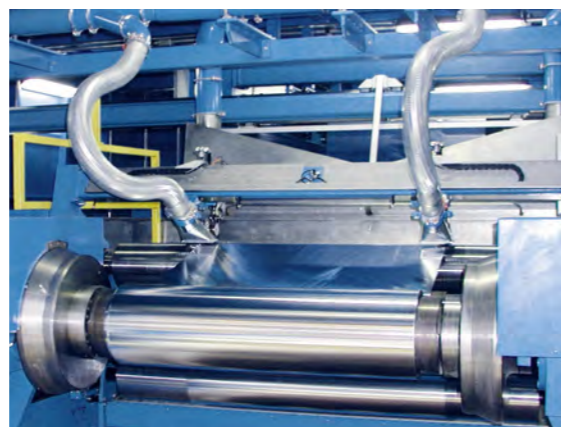
- Fully automatic handling systems with empty spool management
- Patented oil spraying system for even and speed related dosing
- Oil mist suction and closed system for a clean environment at the machine
- Sensitive and precise control system for contact pressure, web tension, speed, spraying system

Options

- High speed version with 1,500 m/min maximum web speed
- Slitting dust suction

Technical data

	Duplomat
Material thickness:	2 x 10 µm – 2 x 100 µm optional 2 x 10 µm – 2 x 140 µm
Working width:	up to 2,300 mm
Rewind diameter:	up to 2,500 mm
Design speed:	up to 1,200 m/min optional up to 1,500 m/min



Duplomat
rewind and
edge trim units

FOIL SLITTING 9



Unial

Unial/Unial ECO

One of the most demanding tasks is the slitting and winding of ultra-thin net aluminium – in particular annealed soft foil. The two foil slitters from KAMPF, Unial and Unial ECO, make this process much easier. The Unial ECO is a slitter for smaller rewind diameter, while the Unial reaches high production speeds even with bigger rewind diameters and wide webs due to a patented rewind system. This results in unmatched productivity.

Main features

- Integrated rewind handling systems
- Sensitive and precise control system for contact pressure, web tension, speed, etc.
- Different contact rolls to meet individual foil requirements

Options

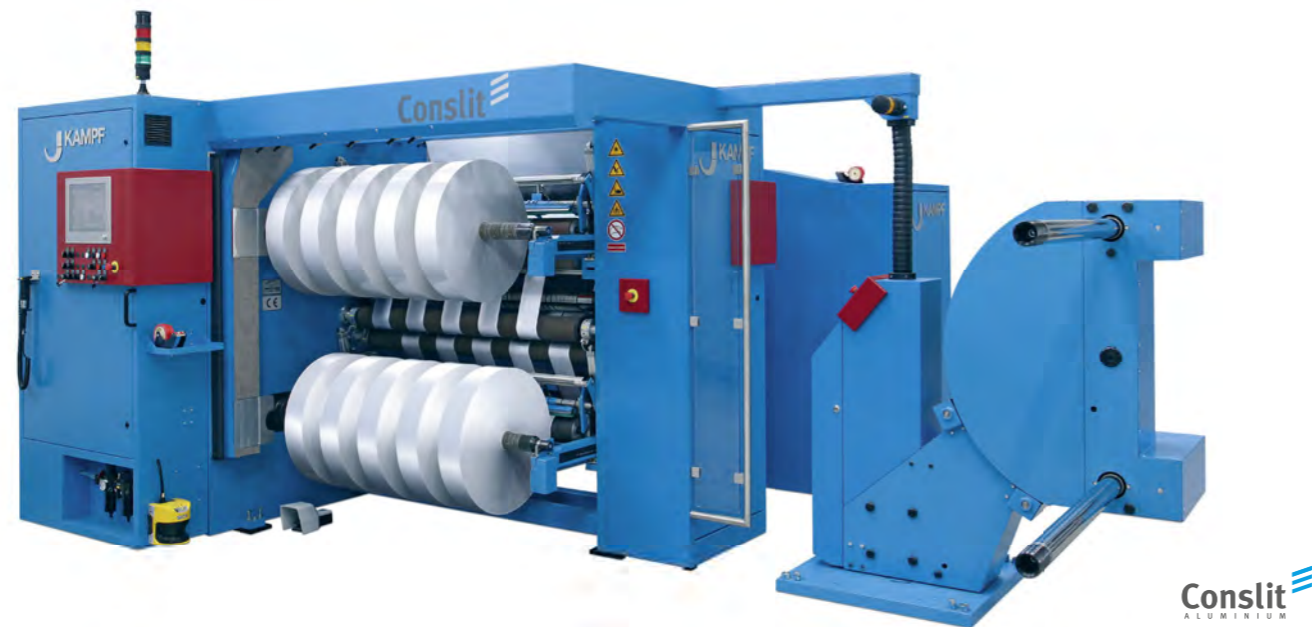
- Ultrasonic welding device
- Weighing unit for finish rolls

Technical data

	Unial ECO	Unial
Material thickness:		
Al net:	5.5 – 35 µm	5 – 40 µm
Al laminated:	up to 200 µm	up to 200 µm
Working width:	up to 1,700 mm	up to 2,000 mm
Winding diameter:	up to 600 mm	up to 800 mm
Design speed:	500 m/min	600 m/min
Slit width:	min. 40 mm	min. 20 mm
Slitting system:	Razor blade as well as scissor cut with a driven knife shaft or pneumatic knife holders	



Unial ECO



Conslit III

The Conslit III is the latest consequent development of the successful slitter family for converted film and foil. The “Aluminium” version of the Conslit III fulfills also the extended requirements when slitting and winding aluminium-based materials. The enhanced layout of the machine drives, the precise process control together with a horizontal tracking of the rewinds provide excellent roll quality. Short setup times results in best productivity figures even with processing small batches.

Main features

- Overhead material path
- Unwind with generator brake
- Fix point with nip roller
- Individual rewind drives
- Horizontal rewind tracking
- Ease of operation

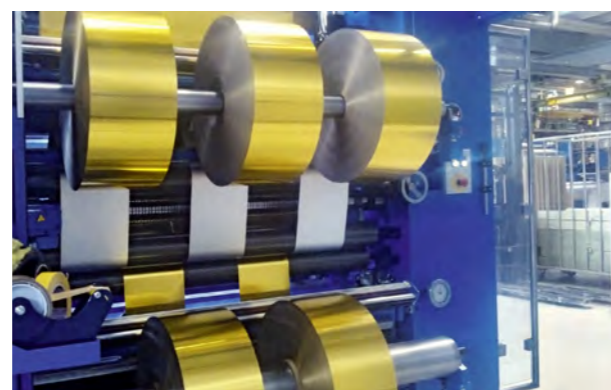
Options

- Automatic knife positioning
- Laser liner as guide for core positioning
- Rewind with friction shafts
- Individual pusher for upper and lower rewind
- Material guiding with print or edge control
- Splice and/or print failure detection
- Automatic cross cutter at the rewinds
- Finish roll handling

Technical data

Conslit III Aluminium

Material: Net foil; laminated, printed, coated, lacquered and embossed foil
 Material width: 1,050, 1,450, 1,750 mm
 Incoming roll diameter: 1,000, 1,300 mm
 Rewind diameter: max. 600 mm
 Slitting system: Razor blade cut / scissor cut
 Slit width: > 25 mm
 Speed: max. 600 m/min



Conslit III with converted aluminium foil



Unislit II

When it comes to flexible slitting and winding systems for aluminium-based converted foils and diameters up to 1,200 mm – the Unislit II Aluminium is an excellent choice. Three different rewind systems with shaftless rewind stations, air-expanding shafts or even friction shafts offer solutions to almost every requirement. Linear movement of the winding stations, constant winding geometry and contact systems with common or single contact rolls guarantee exact roll winding quality. Short material paths result in optimum web guidance. Several possible options are available for tailor-made solutions.

Main features

- Overhead material path
- Unwind with generator brake
- Three different winding systems in one slitter
- Linear rewind movement
- Ease of operation
- Short set-up times

Options

- Automatic knife positioning
- Material guiding with print or edge control
- Integration of an oil coating station
- Finished roll handling

Technical data

Unislit II Aluminium

Material: Net foil; laminated, printed, coated, lacquered and embossed foil
 Material width: up to 1,600 mm
 Incoming roll diameter: up to 1,700 mm
 Finished roll diameter: max. 1,200 mm
 Slitting system: Razor blade cut / scissor cut
 Slit width: > 60 mm
 Speed: max. 600 m/min



Unislit II with individual shaftless rewind stations

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