

## Data Sheet for RoRo StretchPack® - Large Simplex Family

Machine Information	ID	Large Simplex			Extended Large Simplex			Wide Large Simplex	
		S1	S2	S3	S1	S2	S3	S1	S2
Number of Film Units and film roll sizes		1	2	3	1	2	3	1	2
Position of film		To the Left or Right side of the conveyor							
Max. stretching forces		600 kg							
<b>Capacity examples @</b> transport speed 600 mm/s, product height 400 mm, product width 600 mm, 15% stretch									
Capacity (@L:6000 mm) 100% sealed		< 60 packs / hour							
Capacity (@L:2400 mm) 100% sealed		<85 packs / hour							
Capacity (@L:1200 mm) 100% sealed		<100 packs / hour							
Capacity (@L:600 mm) 100% sealed <sup>1)</sup>		<110 packs / hour							
Capacity (@L:1200 mm) open ends		<120 packs / hour							
Higher packaging capacity		Optional: multiple packaging per movement by adding Semi Flow, Ropex and high-speed equipment							
Capacity (@L:2400 mm) 100% sealed		<120 packs / hour							
Capacity (@L:1200 mm) 100% sealed		<200 packs / hour							
Capacity (@L:600 mm) 100% sealed <sup>1)</sup>		<250 packs / hour							
		On request more packaging capacity examples can be supplied <sup>1)</sup> products below L: 1200mm must have an extra conveyor in RoRo or pusher support to secure safe passage through the packaging machine							

### Specifications

Power connection	3 x 400 Volt + N + PE 63 Amp fuses							
Power consumption (standby)	300W							
Power consumption per packaging cycle (incl. standby consumption)	~0,03kWh							
Air consumption per packaging cycle	250 – 300 litres							
Operating temperature	Min. 0°C – Max 35°C Forced and filtered air flow in electrical cabinet Optional: Above 35°C with Air Con in electrical cabinet							
Tentoma's scope of supply	RoRo machine, safety fencing, and packaging options. Optional: Transport solution with in-feed and out-feed belt, V-shape, roller, or chain conveyors and pusher for short products.							
Configuration & layout support	Yes							
Drawings available in DWG	Yes							
Transport / conveyor height standard	650mm							
Transport / conveyor height above 650mm	Optional with extra height extensions							
Machine Dimension, mm	L: 3.600 H:2.800			L:3.600 H:2.800			L: 3.600 H:2.800	
Machine dimensions Width, mm	4.250	5.750	7.250	5.000	7.000	9.000	7.560	9.800
Machine components in general	Globally available and acclaimed brands like Festo, Sick, SEW, Siemens							
PLC	Siemens Serie 1500 with safety module. Programmed in TIA Portal							

### Ergonomics

Operation	Fully automatic (excl. film roll exchange)							
Noise level	Low (product & stretch level dependant)							
MMI / HMI	Intuitive software and 12" Siemens colour touch display							
Automatic product identification	Parameters pre-set in machine or optional 3D-bridge integration							

Product dimensions for product to be packaged	Large Simplex			Extended Large Simplex			Wide Large Simplex	
	S1	S2	S3	S1	S2	S3	S1	S2
Product width	300 – 880mm			300 – 1.380mm			300 – 2.400mm	
Product height	10 – 800mm			10 – 800mm			10 – 800mm	
Product circumference (L+H) x 2 with stretched film <sup>3)</sup>	750 - 3.360mm			750 - 4.360mm			2.200 – 6.000mm	
Product length, @ W: 600mm, H: 500mm and applying 40µ PE-film	300 <sup>2)</sup> - 9.000mm			300 <sup>2)</sup> - 9.000mm			N/A	
Product length, @ W: 600mm, H: 500mm and applying 80µ PE-film	300 <sup>2)</sup> - 4.200mm			300 <sup>2)</sup> - 4.200mm			N/A	
Product length, @ W: 2.200mm, H: 300mm and applying 60 µ PE-film	N/A			N/A			300 <sup>2)</sup> - 6.500mm	
Other lengths	On request more length examples can be supplied							
<sup>2)</sup> Length constrains	Packaging of products L: 300 – 425mm requires moving out-feed conveyor to prevent short products from tilting at outfeed.  Packaging of products L: 425 – 1.200mm requires a pusher or built-in conveyor in the packaging machine to secure safe passage through the machine							
<sup>3)</sup> Products with tight packaging	Minimum handleable film circumference is 750mm. It is possible to package products with smaller circumference, but it will be with a loose film.							

### Sealing Options

100 % sealed	Six-sided enclosure. 100 % Water resistant and protected against contamination
< 100 % sealed	Four- or five-sided enclosure (1 or 2 open ends), or low- or high-level PE-film perforation
Including pallet, underlayer, beams	Possible – the gap between in- and out-feed conveyor must be closed
Including wood / metal frame	Possible

### Stretch Film Info

Film type	Standard Tubular Stretch Hood Low-Density Polyethylene (LD-PE)		
Thickness (flat film without gusset)	30 - 80µ	30 - 80µ	30 - 80µ
Stretchability	20 – 120%		
Film Roll width max. mm	1.000mm	1.900mm	2.200mm
Film circumference	750 – 2400mm	750 – 4200mm	3.800 – 5.200mm
Load stability	Higher PE-film thickness results in higher load stability		
Puncture way and resistance	Excellent		
Tear resistance	Excellent		
Product surface temperature	Max 60 °C (when applying film on product)		
COF (friction coefficient)	< 0,25		
Blow up ratio (during production)	Recommended blow up ratio between 2,5 and 4 during film production		
Anti-slippery function	Optional (glue or friction film)		
UV-blocking	Optional: Product Protection against UV deterioration		
UV-protection	Optional: Film Protection against UV deterioration		
Logo and branding options	Integrated in film or/and as add-on process.		
Film supplier	Locally or regionally available		
Film supplier qualification	According to Tentoma test and validation procedures. List available <a href="#">here</a>		
Recycled content	PE-Film can contain 0-50% recycled PE-film		
Recyclable	100%		

**Film Roll Data**

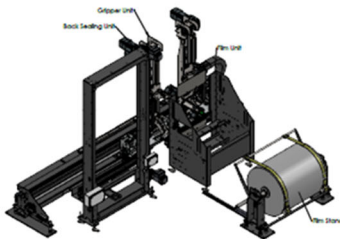
Roll diameter	Max. Ø: 800mm (optional active film stand allowing Ø: 1000mm)
Roll core diameter, mm	Standard Ø: 76mm. Optional: Ø: 152mm
Roll exchange time	3 - 5 minutes

**Certification**

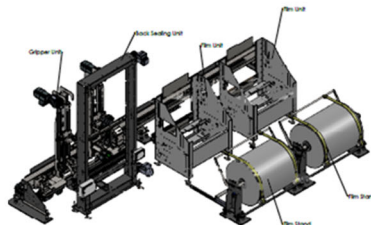
EU Declaration of Conformity	In accordance with EC Machine Directive 2006/42/EC Encl. II, Annex A
IPR (Intellectual Property Rights)	Patents on key technical solutions

**Large Simplex family with one, two or three Large Film units oriented to the left and right**

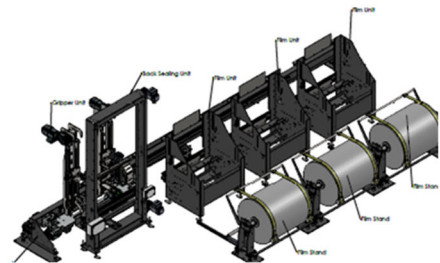
Large S1 L



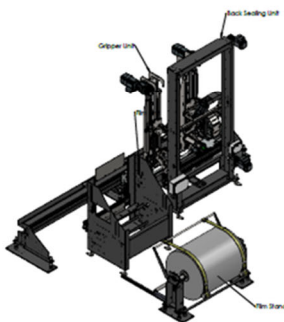
Large S2 L



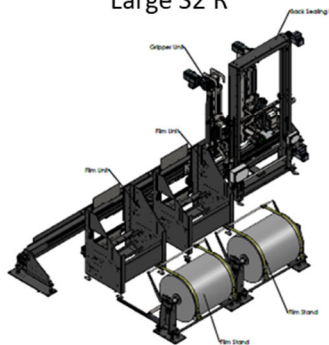
Large S3 L



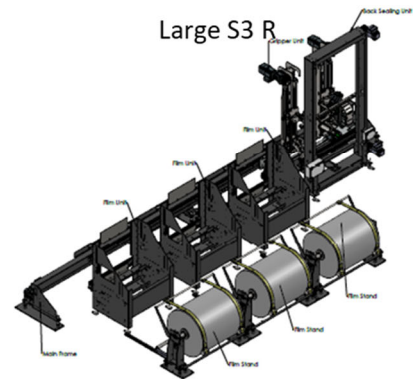
Large S1 R



Large S2 R

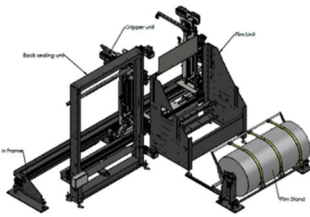


Large S3 R

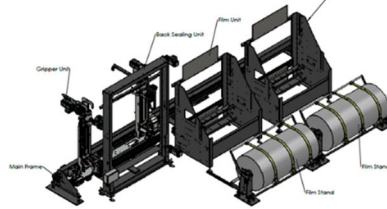


**Extended Large Simplex family with one, two or three XL Film units oriented to the left and right**

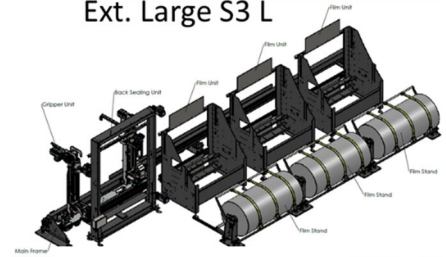
Ext. Large S1 L



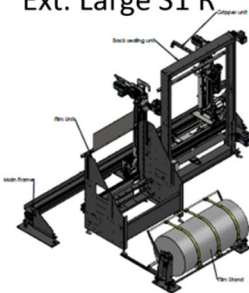
Ext. Large S2 L



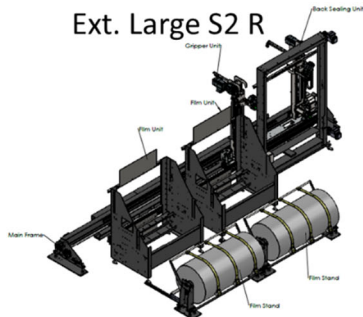
Ext. Large S3 L



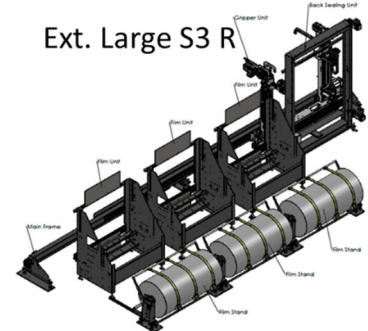
Ext. Large S1 R



Ext. Large S2 R

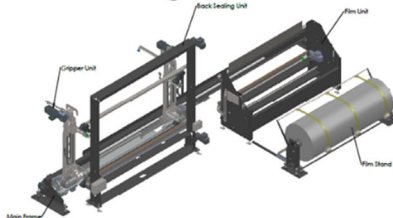


Ext. Large S3 R

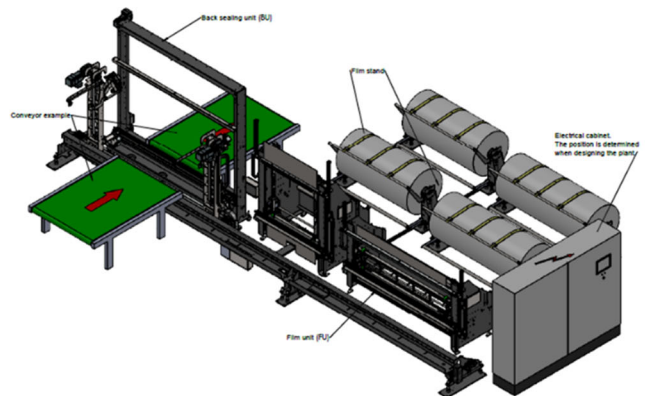


**Wide Large family with one wide Film Unit and with one wide Film Unit + one XL Film Unit**

Wide Large S1 L



Wide Large S2 L



Wide Large S1 R

