



STALAM
Radio Frequency Equipment

**Dryers for
glass fibres**

Dryers for glass fibres

Dry faster, dry better

STALAM offers a wide range of Radio Frequency equipment specifically designed for the drying of glass fibres in various forms - mainly direct rovings, assembled rovings, yarns and chopped strands.

Precision-wound direct rovings weighing up to 40 kg each, placed vertically or horizontally on the RF dryer's conveyor belt over suitable wooden or composite material holders - designed for the automated handling and transport systems used within the factory - can be dried down to a residual moisture content below 0.1% in a time range of approx. 2 to 4 hours (depending on the winding density and the fibre count) instead of the 20 - 30 hours usually required by conventional hot air circulation ovens.

The longitudinal (transverse) expansion of the rovings during the process does not exceed 2-3 mm and there is neither migration towards the roving's outer layers of the finishing chemicals (resins, starch, lubricants, etc.) nor the surface yellowing effect which is a typical drawback of conventional drying.

The residual moisture content of assembled rovings can be controlled accurately by a suitably adjusted Radio Frequency field, obtaining at the same time the ribbonisation of the fibres.



Chopped strands can be dried quickly and efficiently without any air movement, thus reducing almost completely the dust formation in the production department.

Other glass fibre products, mainly in the form of bobbins and packages after various kinds of wet treatments, can be perfectly dried down to the desired final moisture content, efficiently and consistently, without any adverse effect on the finishing chemicals.

All major glass fibres producers worldwide are already enjoying the benefits of the STALAM Radio Frequency drying technology.

High production capacity

Production capacity from 2 tons/day to 40 tons/day each dryer. STALAM has successfully installed the world's biggest RF dryers for glass fibre rovings, comprising of 6 drying modules in-line and having an overall length of over 30 m.

Reduced labour cost

Continuous and in-line operation. Full product loading / unloading automation can be easily fitted.

Time- and cost- efficient technology

70-90% shorter drying time compared to conventional systems, yet using less energy.

High product quality

Consistent and thorough drying with no wet spots; no overheating, no yellowing, no migration of finishing chemicals.



Production capacity (Kg/h of dry fibre)

Fibre count	Roving weight: 14 Kg			Roving weight: 18 Kg			Roving weight: 22 Kg		
	2	3	4	2	3	4	2	3	4
< 600 tex	275	400	550	350	525	700	425	650	850
600 ≤ 1800 tex	350	525	700	450	675	900	550	825	1100
≥ 1800 tex	425	650	850	550	800	1100	675	950	1350
No. of RF modules	2	3	4	2	3	4	2	3	4



Established in 1978, STALAM is the world leader in the development, design and manufacture of Radio Frequency (RF) equipment for the drying and thermal processing of raw materials, intermediates and finished industrial products. More than 2300 STALAM machines are in operation in more than 60 countries, having rated output power values ranging from 3 to 450 kW; from the simple, manually operated machine, to the fully automated line complete with computerised control and supervision systems. Exporting more than 95% of its products to the five continents, STALAM provides professional and prompt commercial and technical assistance in all relevant industrial areas throughout the world, thanks to its well-structured sale and servicing organisation.

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