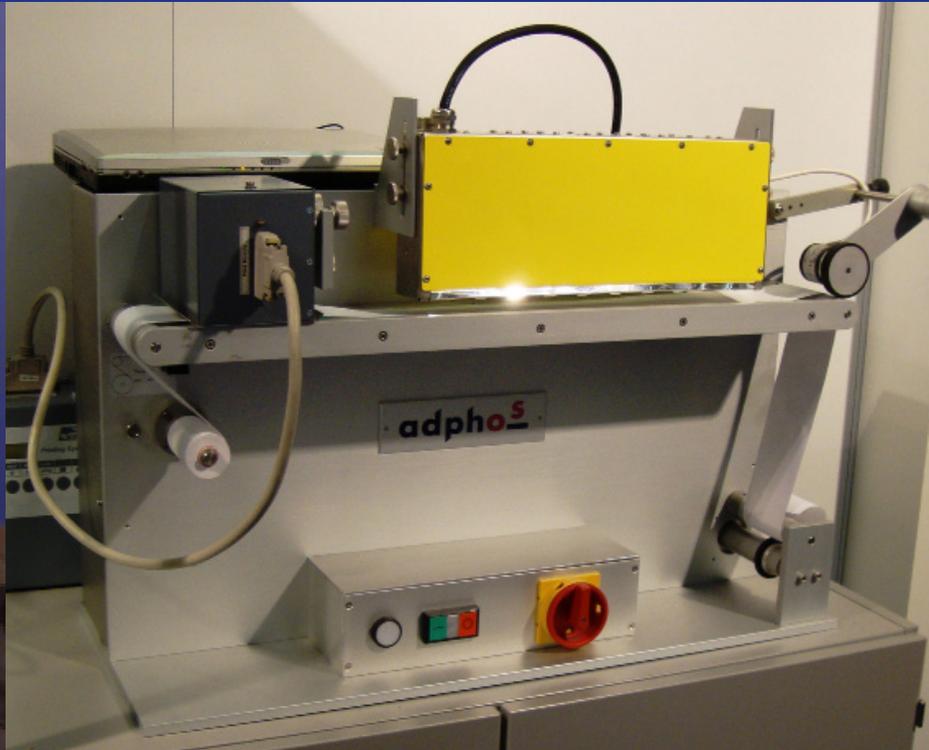


R2R (Roll to Roll) Transport System

R&D and Prototype Curing/Drying System/Sintering



Adphos R2R (Roll-to-Roll) Transport Systems are a family of table top laboratory and pilot production transports for testing and validation of drying, curing and sintering applications for a multitude of inkjet technologies.

Lab Testing to Full Production - Lab to Fab

Moving from printed electronics concepts in the lab to full production can involve great risks of manufacturability. Products that are currently produced on an x-y machine can now be evaluated on a low cost, high speed transport to simulate your actual production process.

Maximum Adaptability

R2R Systems provide an open interface to various inkjet heads including: FUJIFILM Dimatix, Hewlett Packard, Kyocera, and Konica Minolta.

A large selection of adphosNIR® drying, curing and sintering equipment is available for integration with all models of the R2R-from high performance adphosNIR® combined with hot air for drying applications to focused reflectors for high density, short duration photonic processing (sintering/annealing). Please consult Adphos for different options appropriate to your application.

Specifications for Roll-to-Roll System:

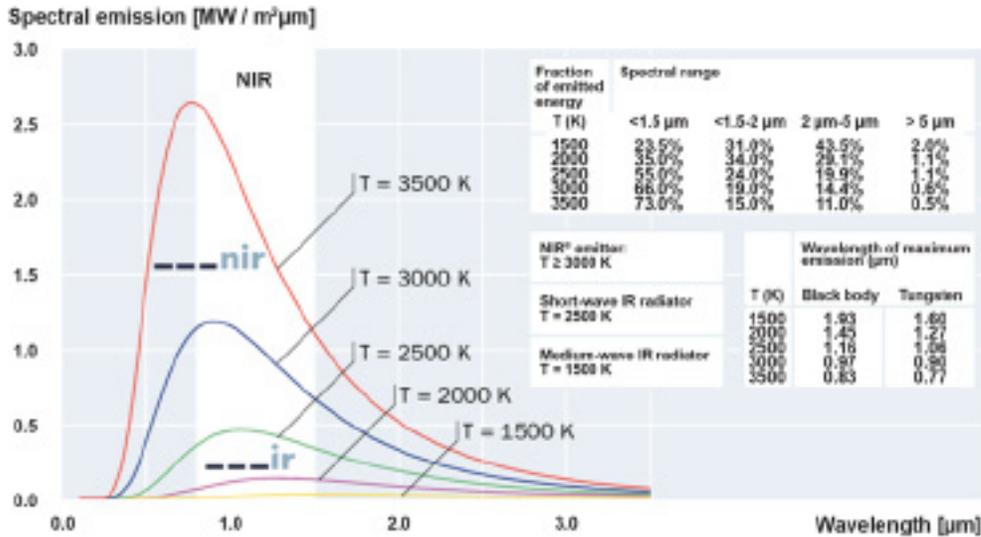
Web width:	Standard(base)	45mm (1.75")
	Option A	75mm (3")
	Option B	120mm (4.25") (120mm)
	Option C	6" (160mm)
Speed:	Standard	up to 100 ft/min
	Option 1	up to 300ft/min(100m/min)
	Option 2	up to 500ft/min (150m/min)
Power supply/control	Integrated	
Web tension control	Small PLC	
	Potentiometer for speed adjustment	
	Power infeed for up to 10 kVA (Base), larger on request as option	
	Adapted the R2R-system as desktop table device	
Optional Processing Modules	Water-cooled chill roller	
	Mounting provisions for third-party drying/curing modules (UV, pulsed xenon, convection, etc)	
	Flexographic, slot die or other printing systems	
	Non-contacting temperature measurement systems	
	Other custom integrations available upon request	

adphoS



Roll-to-Roll (R2R) Sys-

Why adphosNIR®?



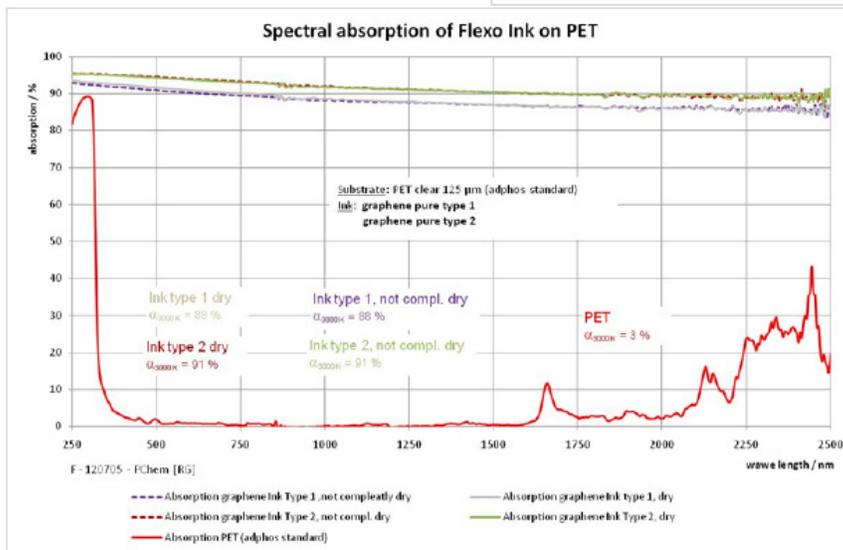
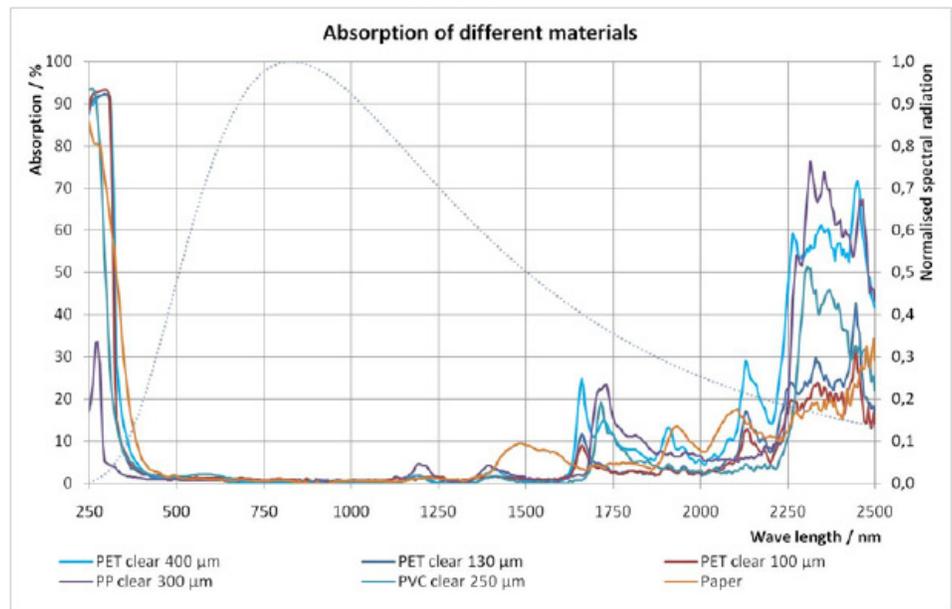
adphosNIR® is not just another IR-Technology

Ultra short wave length energy (T > 3,000 – 3,500°K)

Very high energy density up to 1,000 KW/m² (93 KW/ft²), ultimate 1,500 KW/m² (140 KW/ft²)

Highly focused reflector geometry

Many commercially available films are nearly transparent to adphosNIR® energy



adphosNIR® preferentially heats ink while minimizing direct heating of film or paper

