



DyeFlex

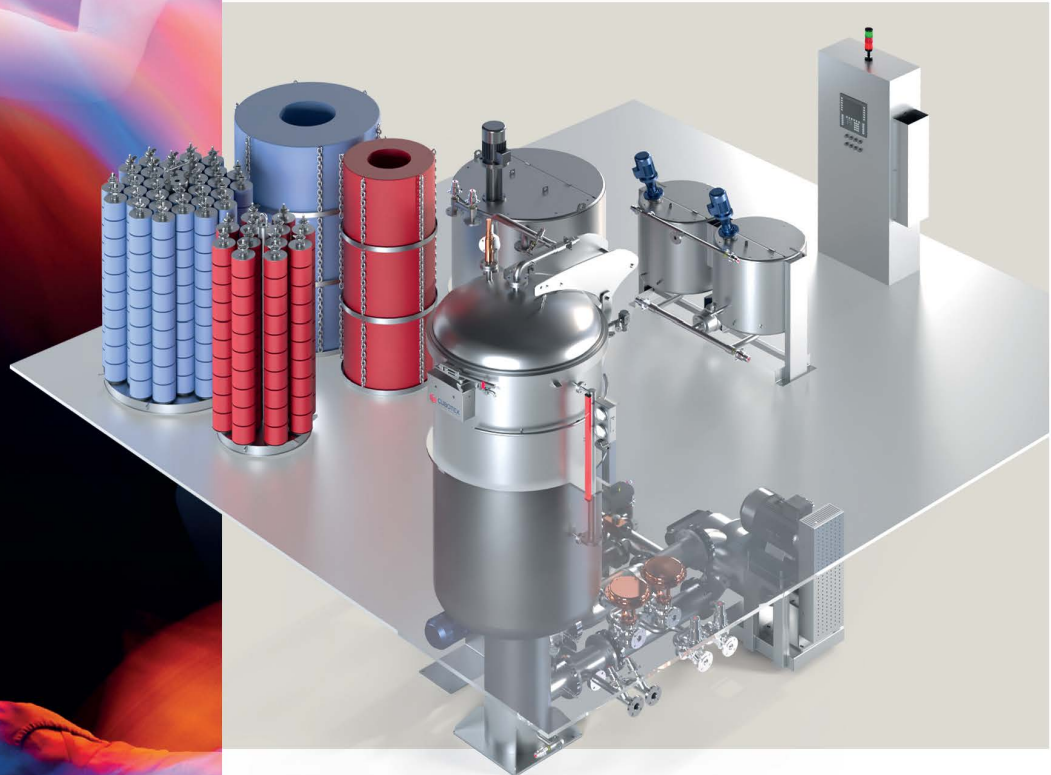
A new concept
of load flexibility

PATENT PENDING

Main Features

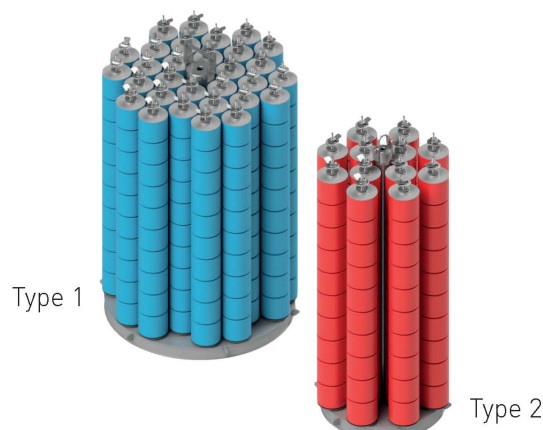
DyeFlex machines represent the latest development on our RVS machines and reflect our customers demands of higher load flexibility in yarn and fibre dyeing machines.

It frequently happens in dyehouses that the biggest machines have no orders and the smaller machines are overbooked. DyeFlex series is the solution which allows a tremendous load flexibility within the same machine, exactly like having two machines in one.



DyeFlex machines are designed according to customer flexibility requirements and the same machine can cover from 15% to 100% of the nominal load capacity with 12 different loading configurations with almost constant liquor ratio and material fully covered.

Each machine is equipped with two circulation pumps and can receive two material holders with different diameters: According to the load configuration set in the dye program, the machine will automatically select the suitable pump for the process. Here below an example of load flexibility on two Dyeflex machines based on bobbins with 180 mm diameter and height of 170 mm:



D-flex 1000-150	Number of bobbins						Average LR*
	720	648	576	504	432	360	
Load with carrier type 1	720	648	576	504	432	360	6
Load with carrier type 2	320	288	256	224	192	160	6

D-flex 150-50	Number of bobbins						Average LR*
	320	288	256	224	192	160	
Load with carrier type 1	320	288	256	224	192	160	6
Load with carrier type 2	120	108	96	84	72	60	6

* **Liquor Ratio** value refers to material fully covered and processed with I-O / O-I circulation

The combination of carriers can be decided by the customer choosing from any dimension of our standard carriers of RVS machines: word one single machine in the dyehouse will be exactly like adding two machines. **Dyeflex machines can also be used for fibre dyeing receiving cakes with different diameters.**

For example our model Dyeflex 250-100 will be suitable to receive 3 standard dye-cakes of RVS 250 machines and also 3 cakes suitable for the RVS 100: Load capacity will be 750 kg in one configuration and 300 kg with the other. As per yarn dyeing, even for fibre dyeing liquor ratio in reduced load configuration will be almost the same as it is for full load.

Dyeflex represents today the most flexible dyeing machine on the market and allows our customers to have two machines in one with a much lower capital investment compared to the purchase of two independent machines.