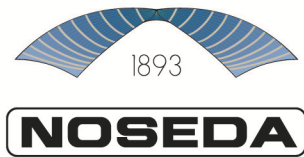
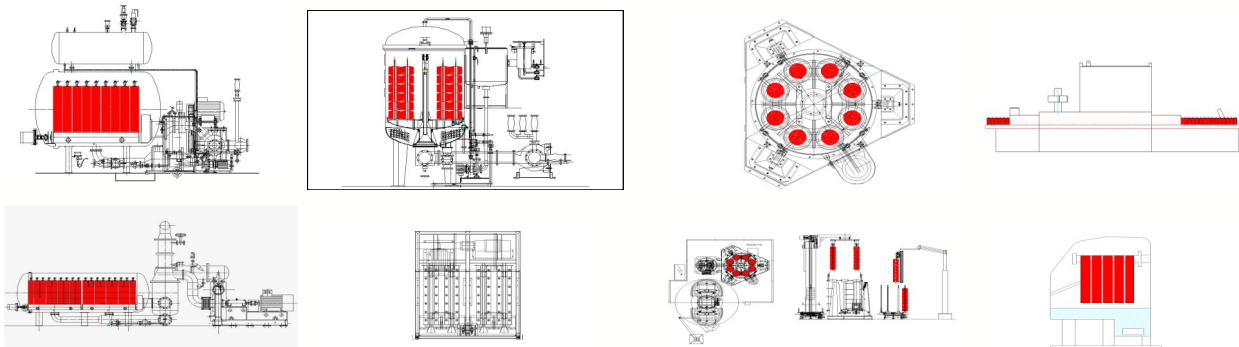


TF-AS

VERTICAL dyeing machines for package dyeing.



YARN-TEX it's a fully integrated system for yarn dyeing in all kind of forms. It includes horizontal dyeing machines, vertical dyeing machines, hydro extractors, air, high temperature and radio frequency dryers as well as robotized and laser controlled handling systems matching all kind of needs in terms of type and capacity.



Vertical dyeing machines and plants..

Factories based on Noseda horizontal dyeing machines matches the highest standards set by the most exigent users.

Based on the machines type TS-AF, they are integrated with the most advanced systems and technologies for

- Hydro extraction by centrifuge single-head, multi-head or column-type;
- Drying by hot air, by air under pressure and high temperature, by hot air or radio frequency drying machines;
- Robotized loading and off-loading
- Vertical and horizontal storage systems

Models 2011.

- Powered hydraulic performances
- Flexible loading at constant liquor ratio
- Transportation by semi-automatic and laser-driven shuttles
- AcquaZERO version available



AcquaZero® sets a new standard in the package dyeing applications with horizontal machines.

The liquor ratio is

- Pre-set according to the real working conditions
- Can be reduced to the minimum value according to chemicals and processes
- Does not depend on the density of the packages

Flex 10 is a configuration well known and experimented on vertical machines, where the load reduction is obtained, at a constant liquor ratio, thanks to an air-cushion. The new heat exchanger system and new hydraulic circuit make now available the same flexibility also on horizontal machines.

acquaZERO Flex 10 Flex D	
<p>Select your lot .</p> <p>Select its liquor ratio, flow rate and dyeing time.</p>	

	Unique Technologies	
Basic	Basic functions highest manufacturing standards	Yes
Advanced	Advanced functions, highest manufacturing standard	Yes
Concept	Most advanced functions and performances	Yes
HPF - HS	High Flow Rate without any risk	Yes
SCR 4000	Fully integrated control of Dp, Flow and Cycles	Yes
C-PH-PR	Integrated PH + Redox + Temp.+ Flow and Cycles control	Yes
Flex 10	Flexible load, variable number of packages at constant LR	Yes
Flex D Yarn	Flexible load with different packages diameter at constant LR	Yes
AcquaZERO	Dyeing at the minimum and constant Liquor Ratio	Yes
FW	Flow wings for optimized water flow	Yes
IW	Indanthrene Washing System	Yes
OCW	Optimized Continuous Washing System	Yes
ES	Easy Sampling System	Yes
LMDS	Lab Monitor Data Suite	Yes

Unique technologies.

Every vertical package dyeing machines is available according to the BASIC, ADVANCED, CONCEPT as well as AcquaZERO standards and can be customized with options matching the requirements of the most exigent user.

Some advantages obtainable with HPF-HS fitted with SCR 3000.

- ✓ Increasing of the maximum allowed flow rates
- ✓ Higher dyeing uniformity even if one direction flow
- ✓ No deformation of the package
- ✓ Reduction of "pilling" risk
- ✓ Increasing of the process efficiency
- ✓ Reduction of cycle times and consumptions
- ✓ Productivity increasing.



AcquaZERO, Flex 10 and Flex-D

The most advanced reliable and flexible system for managing variable loads at constant liquor ratio no matter the number of packages per spindle or the diameter or the density of the package.

With **Flex-10** it is possible to load different number of packages per spindle from the maximum to the minimum up to one package per spindle.

With **AcquaZERO** it is possible to dye at the minimum and lowest liquor ratio all kind of packages and all lots from the nominal to the very minimum one.

Flex-D fits the "column-type" dyeing machines (lab, pre-production) allowing to dye any diameter at its nominal liquor ratio.

C-PH-PR

The integrated system for PH, flow rate and temperature control assures the highest evenness with all kind of dyestuff and fabrics.

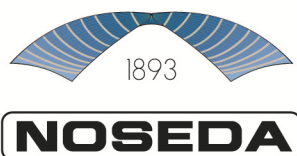
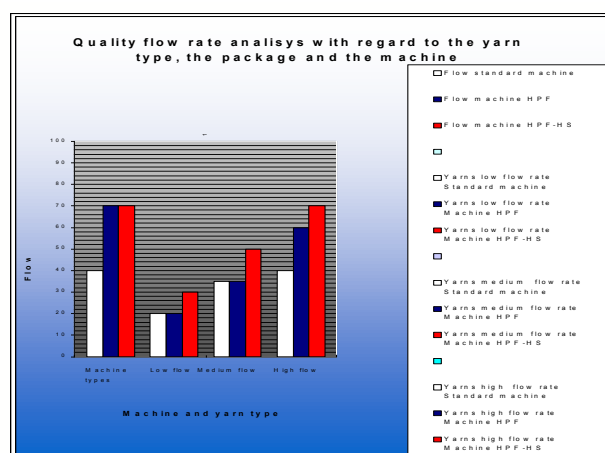
Easy to use for expert and beginners it makes possible to get the best and solve every kind of problem.



MAF (Maximum Allowed Flow).

Even for modern and well designed dyeing machines, the specific flow rate (lt/minxKg) has to be controlled and kept below the MAF due to the fact the values over the MAF might damage the yarn or the package.

With the **CONCEPT** version equipped with the patented **HPF-HS**, it is possible to dye at **flow rates higher than the MAF** without any stress, channelling risk or other well known problems.



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