

# TS-AF

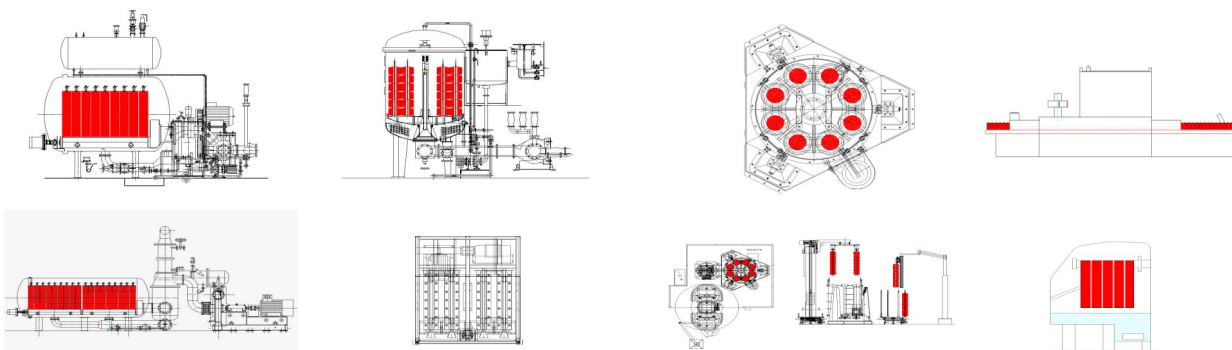
**HORIZONTAL dyeing machines and technologies for package dyeing.**



**NOSEDA**



**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.



## Horizontal 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;
- Handling by semi-automatic or laser-controlled shuttles



## Models 2011.

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

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

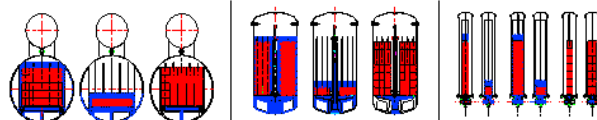
The liquor ratio is

- 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**



Select your lot.  
Select its liquor ratio, flow rate and dyeing time.

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

### Unique technologies.

Every horizontal 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 4000.

- ✓ Increasing of the maximum allowed flow rates
- ✓ Higher dyeing uniformity even in 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.

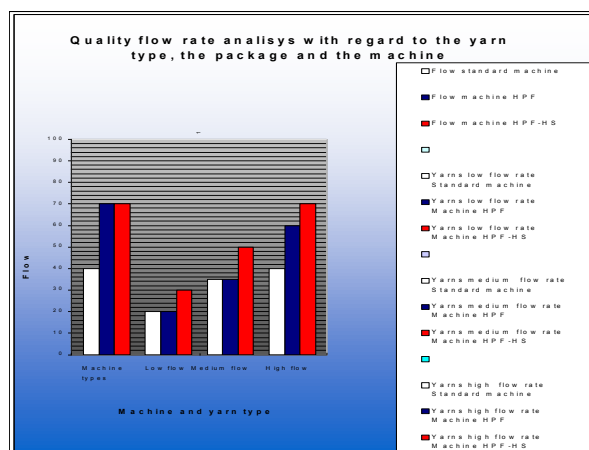
Easy to use for expert and beginners it makes possible to get the best and solve every kind of problem.



### 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 that 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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