



72 ends / 6 +1 color SPACE-DYEING machine for PA, PET, WOOL, PAN yarns and blends for CARPET & RUGS

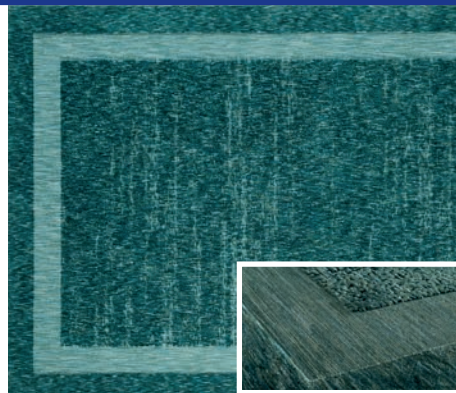


New styles of space-dyed yarn for new styles of carpet:



### SHORT SPACE

Spot length from 20mm  
Berber effect, knit-de-knit imitation



### LONG SPACE

Extra high spot length up to 150m  
Almost unlimited cycle length (1000m)  
Tone-on-tone effect



### BI-COLOR exclusive effect

New exclusive technology to print different shades/colors on the same yarn



## 1 PREFEEDING

Yarn bundle tension equalization

## 2 HMI

10" color touch-screen command panel

## 3 BASE-SHADE BOX

Application of the base-shade on the whole yarn bundle (optional)

## 4 DSC / 3

Steaming chamber for dyestuff pre-fixation

## A F SPOT COLOR 1 to 6 - BOXES

Application of spot color (one color per box)

## CHOICE OF THE LINE FOR DYESTUFF FIXATION

Depending on the type of material to dye, possibility to choose either:

- saturated steam under pressure with TVP3 – 3S line for PET, PA6-66, WOOL and blends
  - › 30"-1.5 min heat-setting time / up to 270kgs/h

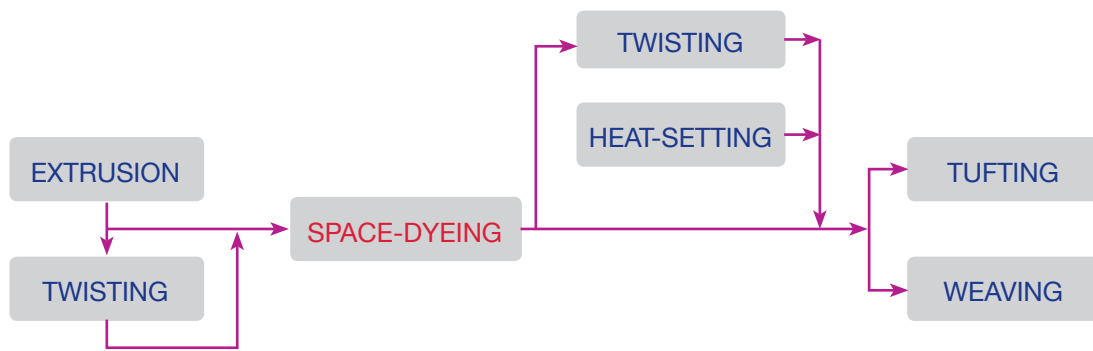


- or an atmospheric steaming with a DL5 line for PAN, WOOL or PA6-66
  - › 3-5 min steaming time / up to 400kgs/h

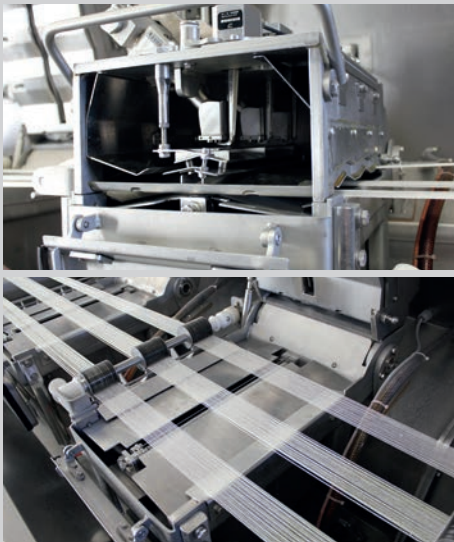




## SPACE-DYEING COMPLETE PROCESS POSSIBILITIES



## PIEZO-ELECTRIC TECHNOLOGY (PATENTED)



Thanks to its exclusive piezo-electric linear actuator, the MCD3 offers an unequalled range of space-dyeing effects:

- high-speed linear movement (< 2mS)
- continuous dyestuff flow
- high pressure impregnation of the yarn bundle (8-10 bar pumps)
- no dyestuff waste

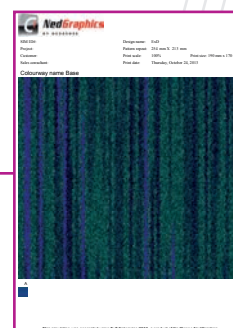
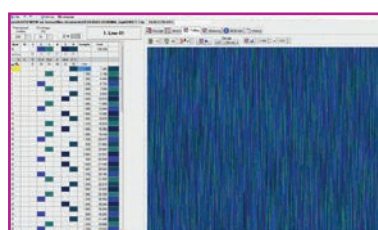
## PLC CONTROL

- 10" color touch screen command panel
- Powerful PLC – Total control of all inverters (CANOPEN bus)
- Patterns & dyeing recipes for a high level of reproducibility
- Automatic washing cycle



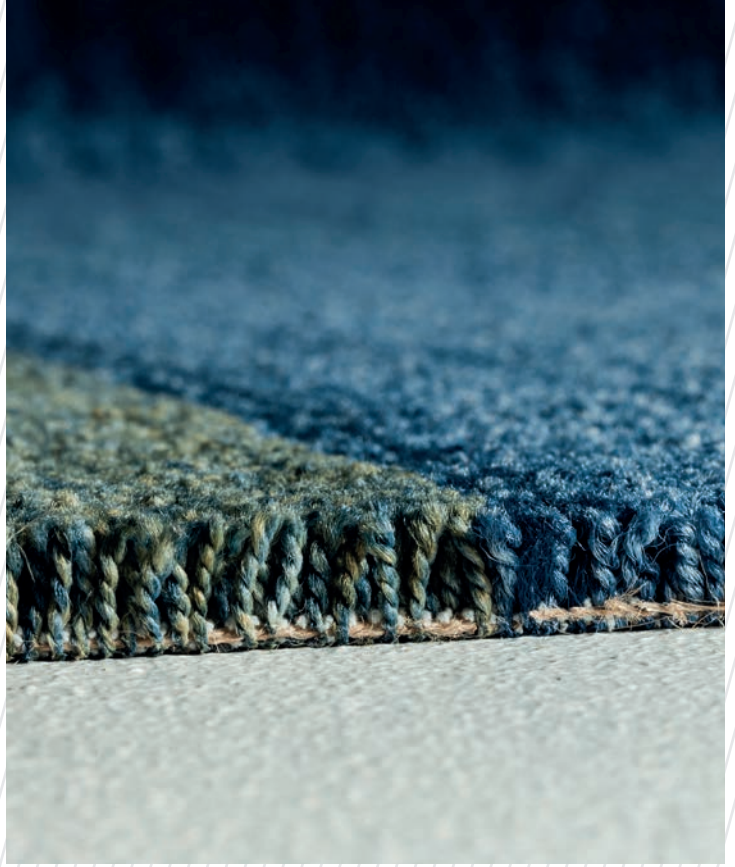
## CAD SOFTWARE

- YARNDRAW yarn design software for pattern creation including simulation tools
- Compatible with **NEDGRAPHICS**



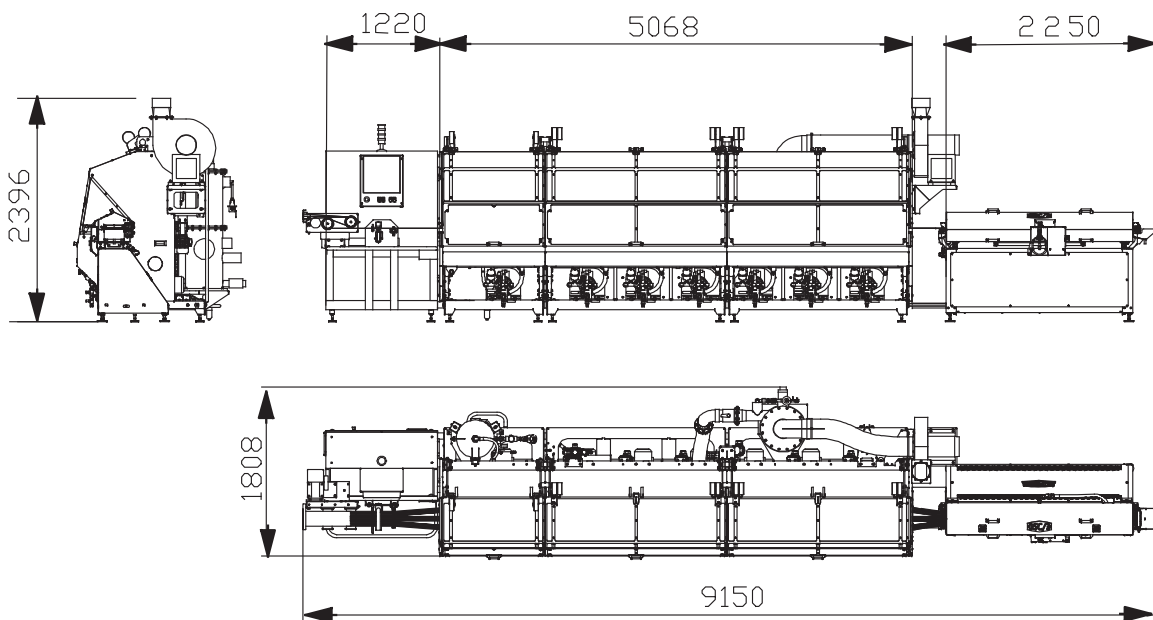
## MCD/3 BENEFITS :

- Yarn dyed without tension for a bulky & round yarn
  - › better carpet coverage
- Reduced production cost:
  - › no minimum lot sizes
- Sustainable and Eco friendly process:
  - › no waste of dyestuff
  - › reduced water consumption
  - › high color fastness
- Clear spot definition, no dyestuff migration
- High pressure spraying technique for an even impregnation of the dyestuff penetrating the heart of the yarn (6-8 bar pumps)
- Easy to process BCF or SPUN yarns
- Thanks to the MF400 new stuffer box, space-dyeing + frieze + heat-setting is now possible in one single continuous process



## TECHNICAL INFORMATION

**Production:** with DL5: up to 9.5T/day with TVP3-3S: up to 6.5T/day  
**Number of colors:** 1 base shade + 6 spot colors  
**Spot length range:** 20mm to 150m (with a cycle length up to 1000m)



## CHARACTERISTICS & ENERGY CONSUMPTION



500 m/min



Installed power 35 KVA  
 ~ consumption 22 KW/h



200 liters  
 (for washing only)



up to 72 ends



150 Nm<sup>3</sup>/h



Steam : ~ 30Kgs/h  
 for DSC3



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