SPACE-DYEING MACHINE FOR CARPET YARN
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

72 ends / 6 +1 color SPACE-DYEING machine for PA, PET, WOOL, PAN yarns and blends for CARPET & RUGS
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
Thanks to its exclusive piezo-electric linear actuator, the MCD3 offers an unequaled 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

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**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)

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**CHARACTERISTICS & ENERGY CONSUMPTION**

- 500 m/min
- up to 72 ends
- Installed power 35 KVA
- Consumption 22 KW/h
- 200 liters (for washing only)
- 150 Nm³/h
- Steam: ~ 30Kgs/h for DSC3
We imagine, build and integrate innovative textile systems for flooring qualities, home linen, fashion fabrics and technical textiles. Sharing inspiration and expertise with our customers worldwide, we shape the textile industry of the future. Creating success for them all, From yarn to finished product.

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