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**FLEX-BRAVO**

**PATENTED**

**RADIALLY AND AXIALLY  
SHRINKING YARN  
CARRIER TUBE FOR  
STEAMING AND DYEING**

Flex-BRAVO is an expendable tube aimed at the requirements of steaming and dyeing of all types of yarns and it is particularly recommended for continuous yarns with shrinkage (polyester, polyamide, etc.)

Flex-BRAVO eliminates two winding procedures: yarn steaming prior to package dyeing is no longer necessary as the same result is obtained simultaneously during the dyeing operation. The dyed package can then go straight to the next process, avoiding final backwinding. The structure is designed to allow uniform radial shrinkage along the length of the tube, permitting yarn relaxation next to the wall of the tube. Optimal distribution of the dye bath gives an even, level dyeing inside, middle and outside of the yarn package.

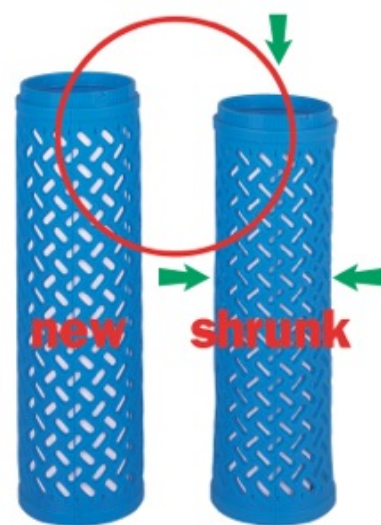
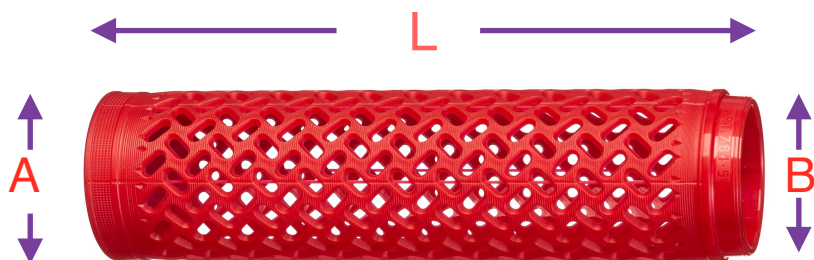
Flex-BRAVO provides successful "transfer-tail" operation.

Flex-BRAVO, other than the possibility of allowing a radial shrinkage up to abt. 15%, also allows an axial compression, up to abt. 5%, that can occur in two ways:

- I By a slight compression of the column of tubes in order to equate the length of the package columns to the length of the dye spindles.
- II Directly throughout the dye procedure, particularly on those dye spindles with a fixed or gravitational locking system, where the Flex-BRAVO tube compensates itself axially during the phase of column elongation.

The ends of Flex-BRAVO tube remain unchanged after radial and axial retraction.

Package density can be increased up to 30% compared to an axial compressible dye tube, whilst keeping the same outside diameter of the package, as well as dyeing productivity.



CODICE ARTICOLO	L = LUNGHEZZA TOT.	A = DIAM. INT. BASE	B = DIAM. INT. PUNTA
751	MM 168	62	54
751.1	MM 168	61,5	57

CODICE ARTICOLO	L = LUNGHEZZA TOT.	A = DIAM. INT. BASE	B = DIAM. INT. PUNTA
753	MM 168	62	33
757	MM 170	59	54
757.1	MM 170	59	33
757.5	MM 170	59	33
757.7	MM 170	59	33
767	MM 170	59	54
768	MM 170	56	45
770	MM 170	69	54
770.1	MM 170	69	58
765	MM 170	54	54
765.3	MM 170	54	49
765.1	MM 171	54	42
757.3	MM 172	59	33
765.2	MM 178	54	49
757.6	MM 180	59	54
761	MM 230	69	58
761.1	MM 230	69	64
762	MM 230	56	45
762.1	MM 230	56,5	53
761.3	MM 250	69	64
755	MM 275	78	70
764.6	MM 280	69	58
756	MM 285	74	64
764.4	MM 288	69	30,5
764	MM 289	69	58