



MEI TECHNICAL BULLETIN

COMPARISON PRODUCTIVITY

The present document shows the different productivity of the MEI's looms.

All the looms considered are with taffetta configuration and we have considered to produce the same taffetta label with 3 colors (ground + 2 effects).

Features of the label produced:

- 3,3 cm x 10 cm;
- 28 wefts/cm;
- 3 colors: ground + 2 effects.

| Loom | Speed | Efficiency | Labels in 24 hours |
|-------------------------|-------|------------|--------------------|
| MEI airjet 1.600 mm * | 850 | 93 % | 105.482 |
| MEI airjet 1.200 mm * | 900 | 93 % | 83.764 |
| MEI Leonardo 1.200 mm * | 700 | 90 % | 63.048 |
| MEI GS920 1.700 mm * | 560 | 90 % | 67.251 |

- We have considered to use LX Staubli jacquard machine for MEI airjet looms and for MEI Leonardo (LX 61).

CAPACITY OF A WARP'S BEAM

- Full beam for labels: approx. 4.000 mt
- Full beam for MEI's scarves: approx 3.400 mt (polyester 167 den)
- Full beam for traditional jacquard scarves: approx. 1.000 mt

Considering the production of woven jacquard scarves for merchandising and promotion and comparing the different technologies used (traditional and MEI's technology), the situation of the consumption of the warp is:

- A) MEI's scarf: **51 days each beam** (working 16 hours daily);
- B) Traditional scarf: **5 days each beam** (working 16 hours daily).

(The consumption calculated is considering a standard scarf with three or four colors).

Meters of fabric produced in "x" hours:

Speed of the loom : average picks x 60 min x 16 hours : 100 x efficiency : 100