

I3P 154

Terrot technology for "8-lock", fine rib, interlock and modified structures

The top-selling I3P 154 is the origin of all Terrot I3P machines suitable for all kinds of textile applications, especially outerwear fabrics and technical textiles. This machine features an impressive delayed timing up to 6 mm and creates fine rib and modified interlock structures with a high level of efficiency.

The abbreviation I3P stands for interlock in three different needle positions – knit, tuck and miss. The result is a striking flexibility in application for the production of outerwear textiles.



- Highly flexible and versatile machine for "8-lock" structures
- Large gauge spectrum up to E42 and delayed timing up to 6 mm
- Reliable elastane plating possible in all variations
- Flexible application with spacer, double plush, fine rib and interlock
- fleece conversion kits
- Quick and easy gauge change

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The I3P 154 is an immensely versatile machine model with a great potential for the commercial outerwear production and various technical textile applications.

Advantages at a glance

- Made in Germany – maximum efficiency and precision
- 1.8 feeds per inch and a maximum speedfactor of 900 guarantee high productivity
- Precise adjustment of delayed or synchronized timing with an impressive delayed timing up to 6 mm for dimensionally stable and durable fabrics
- Wide cam tracks for different yarn counts with special characteristics, like spun yarns (wool, linen, silk, Kevlar, etc.) which are necessary for technical applications
- Special needle development for the imitation of fine gauge
- fabrics in E28 – needle geometry allows the production of finer looking fabrics than similar machines on the market
- Great flexibility and large pattern range with two needle tracks in cylinder and two needle tracks in dial cam
- High quality elastane plating in all variations
- Well-equipped for different market requirements with different conversion kits for spacer, double plush with needle latch openers, fine rib and interlock fleece
- Quick and easy gauge exchange with minimal effort – little time and manpower

Technical details

| | | | | | | | | |
|---------------------|---|----|----|----|----|----|----|----|
| Diameter [inch] | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 42 |
| Feeders | 46 | 50 | 54 | 58 | 60 | 64 | 68 | 76 |
| Speed up to [rpm] | 34 | 32 | 30 | 28 | 26 | 25 | 23 | 21 |
| Gauges [E] | 10 – 42 | | | | | | | |
| Speedfactor [max.] | 900 | | | | | | | |
| Knitting technology | mechanically controlled, elastane plating | | | | | | | |
| Possible structures | Fine rib, interlock, double face, spacer | | | | | | | |
| Fabric application | Outerwear, technical and home textiles | | | | | | | |

Available frames

| Tubular frame | Industrial frame | Open width frame |
|---|---|---|
| C-frame for 500 mm fabric rolls | C-frame for 800 and up to 1,100 mm fabric rolls | D-frame for 400 and 600 mm fabric rolls |
| Electronically controlled fabric take-down with different additional options – suitable for every production requirement: <ul style="list-style-type: none"> ■ Cutting device ■ Doffing device for industrial frame | | Fabric take-down for cut edge fabrics to prevent centre lines with an additionally available cutting device |

Production example I3P 154 for 34 inch and 26 rpm [unfinished, 85 %]

| Structure | Gauges [E] | Yarn | Weight [g/m ²] | Production [m/d] | Production [kg/d] |
|--------------|------------|--------------------------------|----------------------------|------------------|-------------------|
| Fine rib | 18 | Cotton Nm 40/1 | 180 | 56.80 | 22.40 |
| Interlock | 24 | Cotton Nm 50 | 194 | 30.60 | 12.11 |
| Flatback rib | 20 | Cotton Nm 34/1, Cotton Nm 50/1 | 190 | 26.52 | 10.63 |

Deviations are possible and all items are subject to technical changes. Illustrations may show accessories that are not included in the standard version.