Loepfe

WEFT*MASTER*®

SFW-L with Mini Sensing Head

Fitting and Setting Instruction

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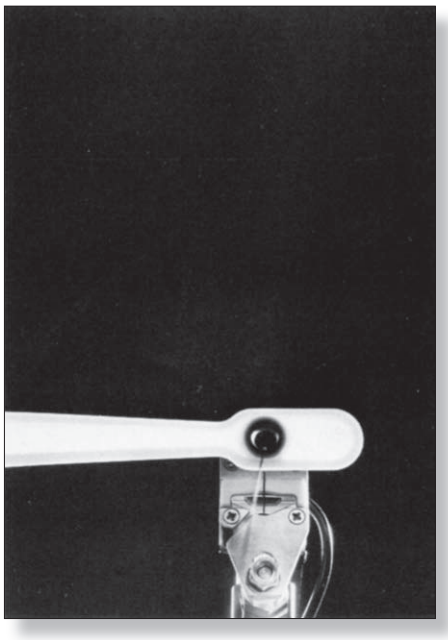
Function

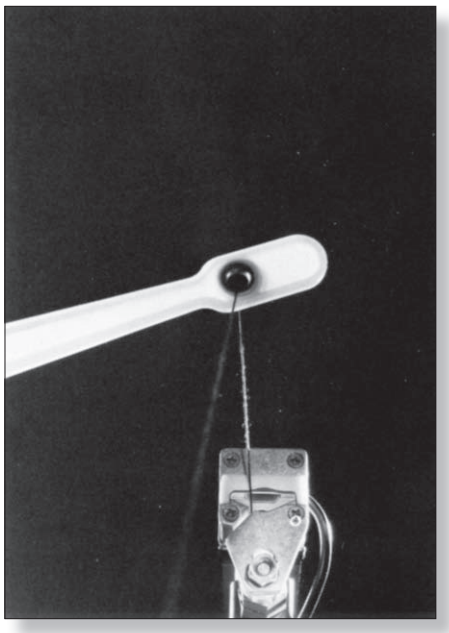
A

The weft is brought during insertion to the center of the signal emitter by the pullback lever.



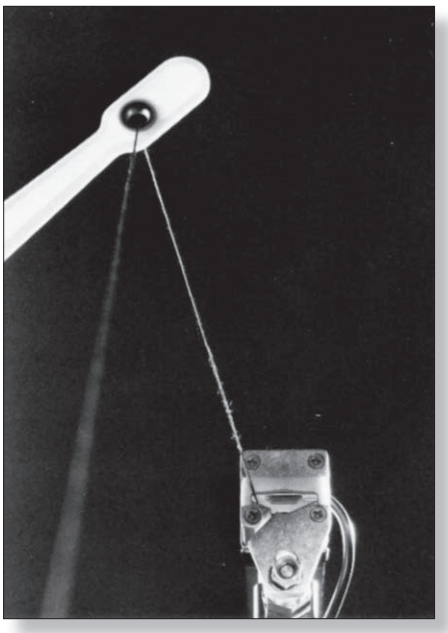
B

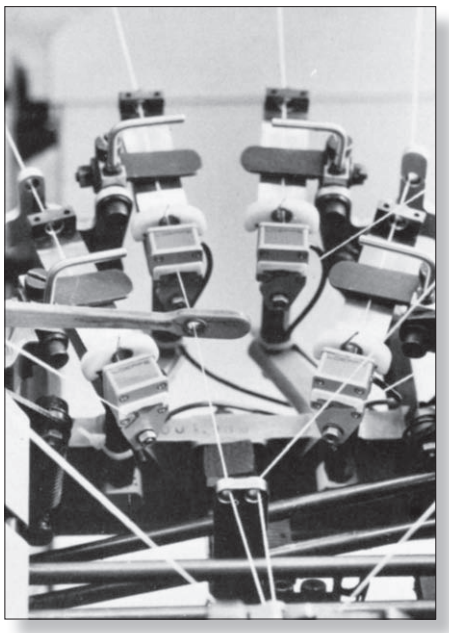
Longer yarn signal through lateral and simultaneous cross movement of the weft at upward movement of pullback lever; therefore, monitoring into the pullback motion phase possible.



C

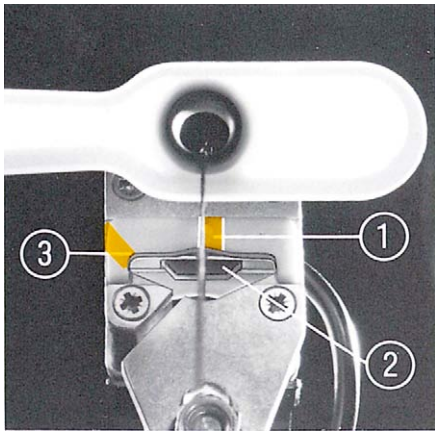
No contact of the signal emitter in rest position of pullback lever, therefore...





...no disturbing yarn signals of wefts not being inserted on multicolour machines; especially important for extreme yarn mixtures.

Setting and Fitting

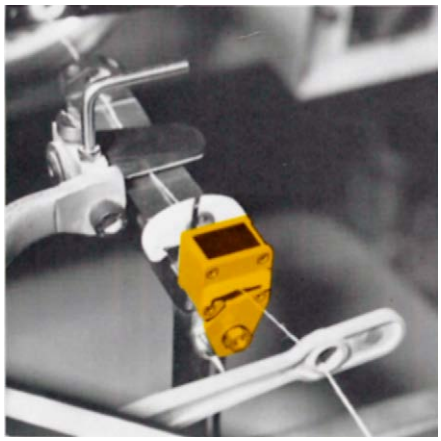


Setting of mini sensing head:

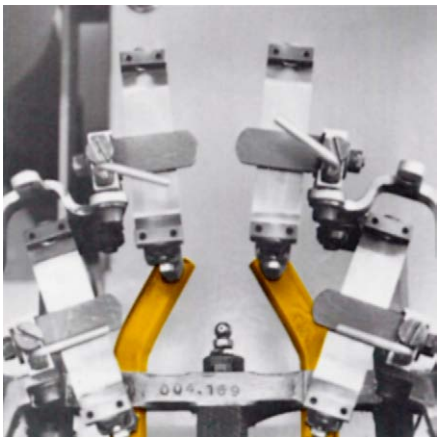
In order to obtain the **longest possible monitoring time** the weft yarn must be placed in range ① during insertion and the torsion rod twist must be set as low as possible.

The sensing head must be fitted at a height level which assures reliable contact of the sensing part ② by the weft yarn.

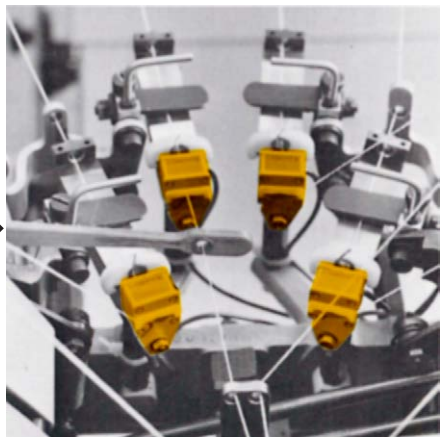
At the highest position of the pullback lever the weft yarn should lie in the corner ③ of the ceramic yarn guide.



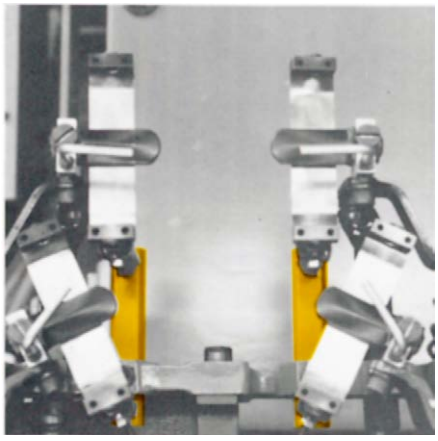
fitting to SWM type “ES”



brake layout 45° “VS”

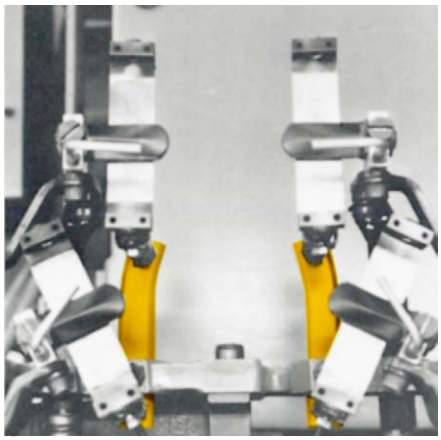


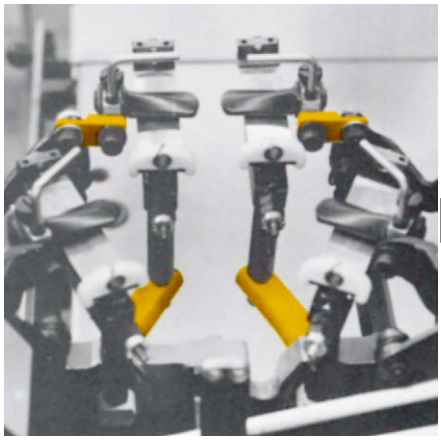
fitting to SWM type “VS”



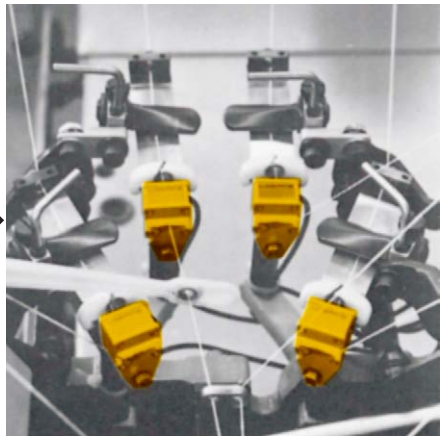
brake layout 35° “VS”

For the fitting of the mini sensing heads the brake layout must be modified from 35° to 45°.





conversion from 35° to 45°



fitting to converted SWM type “VS”

New Circuitry, Conversion Possibilities

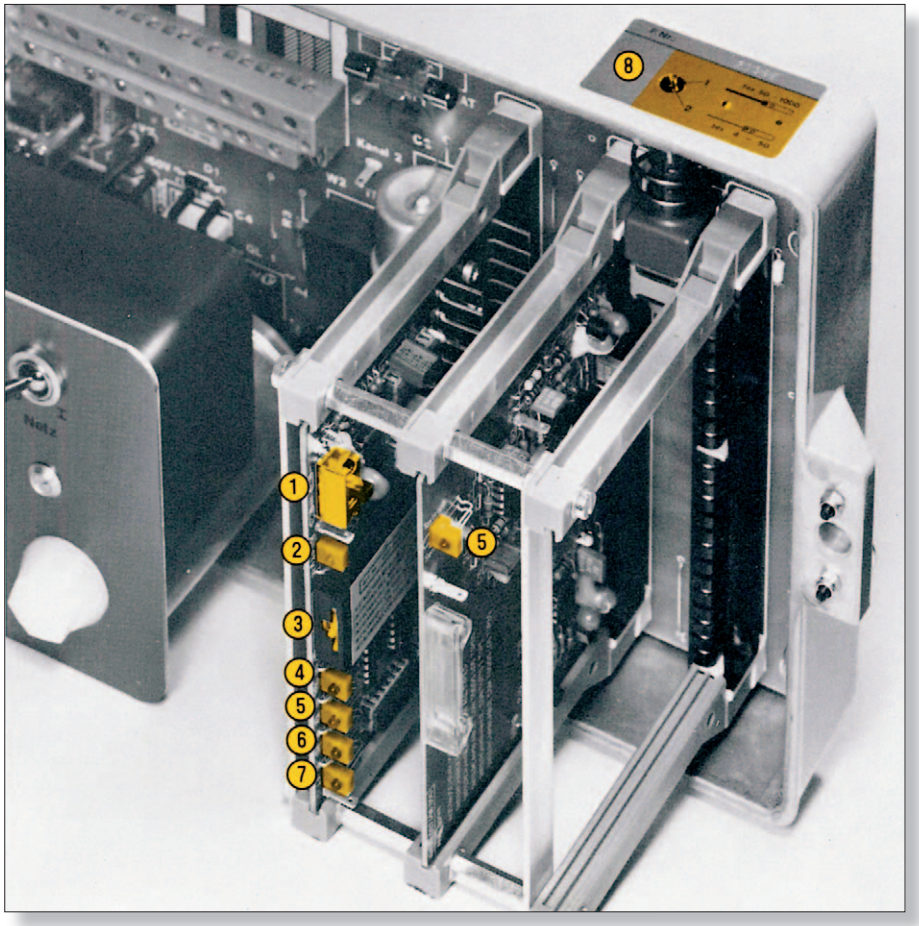
Control box SFW-L10/L20

In order to make use of all advantages of the mini sensing head the logic and analog prints were further developed for the new control box version.

Important new features

- flight trigger extension time FTV can be set by means of step switch from 8 to 36 ms, thus making monitoring into the pullback motion phase possible
- separate light diode for the function indicator of the flight trigger
- separate light diode for indication of SWM-Stop through SFW-L
- improved automatic yarn signal regulator
- only two potentiometer settings for fine and coarse yarns

The new prints are fully interchangeable and can be built into every existing control box whether in connection with mini or eyelet sensing head.



1. switch single/ double pick
2. FTV-LED flashes if chosen monitoring time is too long
3. FTV step switch for the prolongation of the monitoring time (8, 10, 12, 14, 16, 18, 20, 24, 28, 36 ms)
4. STOP-LED glows if a SFW stop occurs
5. TK-LED glows when yarn is running
6. KI-LED glows during the control interval
7. FT-LED flashes at flight trigger impulse (projectile arrival)
8. Potentio meter
   Approx. values for the setting appropriate for the weft yarn:
   = coarse tex 36-1000/Nm 28-1/Ne 16-1
   = fine tex 4-36/Nm 260-28/Ne 150-16

Conversion possibilities of existing SFW-L1/L2 on TW11-SWM

The mini sensing head can be adapted to any type of SFW-L control box (TW11-SWM).
The conversion of existing SFW-L1/L2 to the new type SFW-L10/L20 with mini sensing head can easily be carried out by mill personnel by means of special conversion sets (no soldering work).

Nevertheless, we recommend to have the first unit fitted by a Loepfe or a Sulzer specialist as a sample and for instruction purposes. Ask for a conversion offer by indicating the exact machine and weft stop motion types as well as the brake layout (35° or 45°).

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