
Jakob Mueller machine show in Kadan / CZ

27. – 29. 11. 2013



Jakob Mueller machines on display in JMCR

- **Single End Seat Belt Machine**
 - Running dry, only with leader tape

- **Heavy Duty Pigment line**
 - Only for demonstration

- **Medium duty pigment line**
 - Pigment dyeing possible

- **Standard duty dyeing and finishing line**
 - Dyeing process on lab machine possible

- **Single / Dual end dye line**
 - Dyeing process on lab machine possible

- **Calendar MFR 48C**
 - Demonstration possible

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Single End Seat Belt Machine MFR SE

As a complete single end seat belt machine, this machine will consist of all standard components for processing seat belts, missing will be the optional extra of padder and steamer. Although this machine is configured for seat belts, with slight modifications any polyester webbing could be processed up to a maximum width of 80mm. The machine can also be adapted for pigment dyeing, were only the front section of the machine would be used. With the addition of a padder and steamer the machine could be used to dye nylon tapes, in which case the first half of the machine would not be required.

Components on display

- | | | | |
|----|---------------------|-----|------------------------|
| 1. | Accumulator | 9. | Cooling section |
| 2. | Dye Padder | 10. | Finish Padder |
| 3. | Pre Dry Oven | 11. | Infra red unit |
| 4. | Brake unit | 12. | Brake 2 |
| 5. | Thermosol Oven | 13. | Final drying |
| 6. | Haul unit | 14. | Free standing calendar |
| 7. | Wash tanks | 15. | Haul 2 |
| 8. | Intermediate drying | 16. | Festooning device |



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Heavy Duty Pigment line MFR 6.5 HD

A 650mm wide heavy duty pigment line for processing heavy webbings, for example lifting slings and tie down straps. This is a multi end machine capable of processing 8-off 50mm tapes or any combination. The machine is capable of applying a load of 8'000 kg to the material in order to stretch the webbing for greater yield, in general terms a customer would see an increase in yield of at least 6%. This is made up of the reduction in shrinkage which is normally seen on these webbings plus the increase from being able to stretch the webbing.

Components on display

1. Brake unit (heavy duty)
2. Thermosol oven (heavy duty)
3. Haul unit (heavy duty)

We will not have the dye pad or infra red on display, other smaller units will be on display, we will inform the customers that this is just for heat setting of spun dyed webbings and with the addition of the dye pad and infra red you can pigment the webbing.



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Medium duty pigment line MFR 4MD

A 400mm wide medium duty pigment line, this machine can be used for many different types of webbings, tie drop straps can be processed on this machine but we are not able to stretch such heavy webs like with a HD machine. This machine is most suitable for wider tapes or specialty type webs where the material needs heat setting or special coatings need applying.

The oven on display can easily be modified into a steamer like our standard range of machines so that it can operate either as a steamer only or a combi unit, this would allow for the processing of heavier nylon tapes with the addition of wash tanks.

The haul and brake unit which will be displayed on this machine are a recent new development adding to the medium duty product line.

Components on display

1. Dye Padder
2. Infra red unit
3. 5 roller brake
4. Thermosol oven
5. 5 roller haul
6. Cooling section
7. Take off



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Standard duty dyeing and finishing line MFR 3C

A 300mm wide standard duty dyeing and finishing line. This machine is excellent suitable for elastic and rigid tapes. As the machine is featured with a combi chamber the dyeing of Polyamide, Cotton, and Polyester is possible. Also a high temperate steaming process is possible. The steam protects the elastic fiber during thermosol dyeing. This allows a gentle dyeing process of Polyester elastic tapes. After the wash tanks a finishing module is connected. This allows a dyeing and finishing process online. As an option a vacuum extraction module is available to improve washing effect.

Components on display

1. Entry frame
2. Dye padder (3 roller horizontal)
3. Infra red unit
4. Combi Chamber
5. Wash tank section
6. Finishing padder
7. Drying oven
8. Cooling section
9. Take off



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Single / Double end dyeing range MFR 1C

A standard duty dyeing and finishing line especially for elastic tapes. Due to a light weight dancer roller construction the stretch on the tape is minimized. It is even possible to shrink the tapes during dyeing. As the machine is featured with a combi chamber the dyeing of Polyamide, Cotton and Polyester is possible. Also a high temperate steaming process is possible. The steam protects the elastic fiber during thermosol dyeing. This allows a gentle dyeing process of Polyester elastic tapes. After the wash tanks a finishing padder is connected. The drying is carried out on a cylinder dryer with PTFE coated surface to avoid sticking of finishing chemicals on it.

Components on display

1. Entry frame
2. Dye padder (3 roller horizontal)
3. Infra red unit
4. Combi Chamber
5. Wash tank section
6. Finishing padder
7. Cylinder dryer
8. Take off



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2-Roller Smoothing Calendar MFR 48C

A 300mm wide calendar for mechanical finishing webbing and elastic tapes.

This calendar is able to create a soft handle and also a nice luster effect on the tapes.

For a exact controlled heating of the rollers, an oil heater is connected to the calendar.

Thanks to a exact distance measurement, the gap between the two rollers can be exactly adjusted which allows reproducible finishing result.

Components on display

1. Entry frame
2. 2 roll calendar
3. Oil heater
4. Take off

