



# **RE**volution

in the edge colouring





catalogue 2020

# PL 1105



Description

# Combined edge painting system for single parts "PL 1105"

The „PL 1105“ painting system combines in a smooth harmony a dyeing aggregate with a support station. This optimal combination enables the use of all types of painting heads developed by PL Project.

A few patents pending due to this invention.



Advantages  
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# Advantages

- Possibility to use both painting heads with vertical painting shaft, which are more convenient for dyeing soft workpieces, as well as ones with horizontal shaft which are not quite comfortable if painting soft details, but give to the operator a good look over the result of the painting process.
- Adjustment of the painting shaft's height above the floor 25 cm.
- An option makes possible to adjust the shaft's height electrically just pressing a button.
- Another option - washing aggregate for fingers or part's edges makes possible cleaning of the erroneous „over-edges“ and other fails direct after painting - before drying of the dye.
- There is no mechanical or electrical connection between the combined box and the cleaning option. Thus it's extremely easy for maintaining - changing the water or belt.
- The machine powers on each mechanism automatically only if there is a painting head or washing option installed. Thus the power consumption and the noise pollution are always on the lowest possible level.
- Starting the washing option is touch less.
- The washing aggregate stops automatically if not used.
- Ergonomic position of the machine on the table's edge.
- Compact solution of three machines in one. Needed place on the table for an edge dyeing machine, one support station with two sockets and a washing machine is reduced to only W480/D330/H350 mm. No additional space on the floor is occupied.



# PL 1100



Description



## Edge painting system for single parts "PL 1100"

Suitable for applying paint and other low viscosity water based liquids on the edges of flat details and assemblies in leather production industry. This machine has a patent application for invention. The innovation consists of the contactless way of transmitting the movement to the dyeing roller and also supplying the dyeing roller with paint. The exceptional design of the machine's dyeing head allows both easy operation and easy service.



Advantages  
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# Advantages

- Simple, compact and ergonomic design with dimensions only W260/D320/H330 mm.
- Dyeing roller with diameter 7 mm, allowing on one hand to apply significantly more paint on the piece to be dyed and on the other to dye details with sharp internal corners.
- Smooth adjustment of the layer thickness on the dyeing roller between 0.1 and 1 mm.
- Step-less adjustment of the rotation speed of the dyeing roller between 170 and 350 rpm.
- Easy cleaning of the painting head.
- Low electrical power consumption, below 35 W. No need of other media.
- Fully detached construction of the dyeing part from the drive unit and the machine electronics. There is no mechanical connection between the tank and the dyeing roller on one hand and the drive unit and the machine control. The dyeing head can be removed from the machine without the need for any disassembly.
- When using a support station with two or four dyeing heads there is no need to clean the head when changing the applied agent - color or kind.



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# Support stations

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Description ↓



## Support stations

One of the serious challenges in edge dyeing of leather parts is the reduction of the time needed for change of the dye color /or the agent type/ in the machine. This change requires washing of the machine prior to supplying the new color. Normally this time reaches 15 min. To avoid this shortcoming, „PL Project“ developed support stations SS 1101 and SS 1102.



It operates as an ancillary machine to the painting machine "PL 1100". In each socket, a dyeing head filled with different color can be installed. The task of "SS 1101" and "SS 1102" is to maintain each of the inserted heads in normal operational condition and reduce drying of the dyeing agent.

By using the PL 1100 painting machine in combination with a support station, changing the color of the paint in the painting unit is related to changing the head of the unit with one of the heads filled with the respective color from the support station. This change is made without interrupting the operation of any of the machines. Saves time and ensures the flexibility of the production department.

# Other accessories and products

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Suitable for applying various kinds of water-based dyes and primers on the edges of flat pieces and assemblies in leather industry



## Advantages

- The tool has an optimal design for ultimate reliability, with maximum ergonomics.
- It has an accurate dosing system of the applied solution.
- A specially selected volume and position of the dye tank ensures maximum convenience in working with it.
- The low weight of 320 g makes it extremely convenient device for painting both finished products and single leather details.
- The cleaning when changing the dye color is convenient and is limited to filling the reservoir with water and holding the trigger. At the end of the working day it is enough to dismantle the nozzle and wash with lukewarm water.
- The gun needs no external supply either electrical or pneumatic

# Other accessories and products

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This type of painting head is preferred by the operators, although it is not as versatile as the vertical one.



## Advantages

- It is made out of special polymer, which is designed for easy cleaning, robustness and long life.
- No tools are needed for disassembly and cleaning.
- Paint tank is bigger.
- The painting tank is closed and the painting shaft is covered in case the head is not used. The evaporation of water from the paint is minimised. The most of the water based paint types remain in good condition even 16 hours after end of work. That means if the color is not changed the painting head could stay on the support station or in painting position without cleaning after end of work til next day.
- The position of the film thickness regulator is controlled precisely in steps of 0.07mm in the interval 0.1 to 0.7 mm.

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