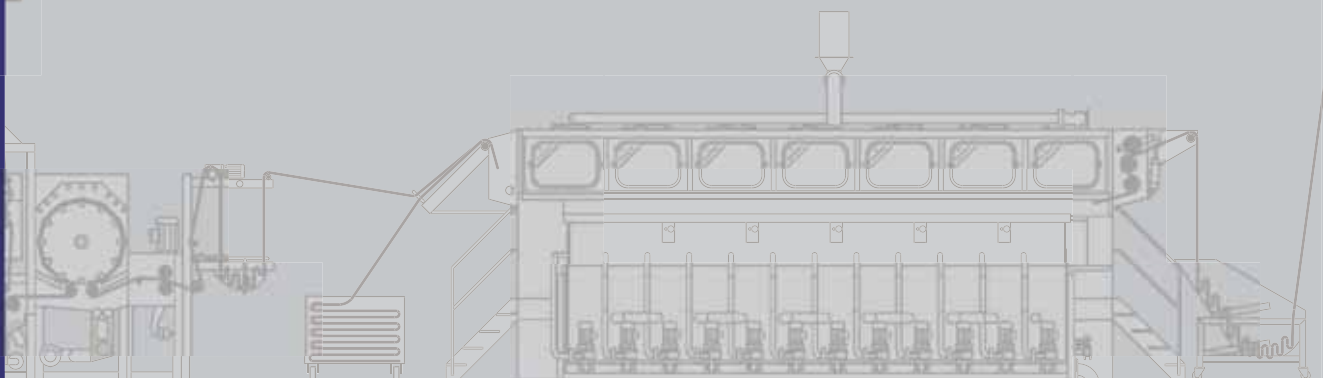


# DELPHIN



Rope Washing & Bleaching Range



# DELPHIN

Rope processing range for continuous washing and bleaching of knitted and woven fabrics



## Fields of application

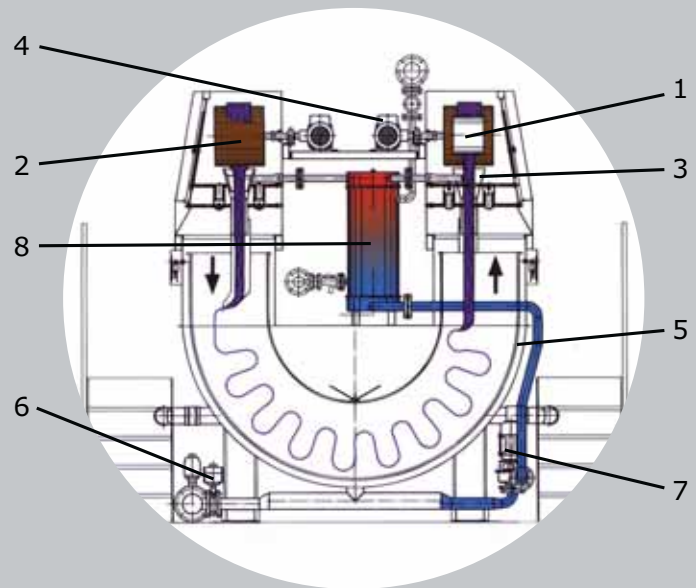
- Processing of knitted and woven fabrics
- Washing/scouring/desizing of greige fabrics
- Bleaching before dyeing
- Full-white bleaching with application of softener and optical brightener
- Washing after dyeing, mercerizing or causticizing
- Washing after printing (in conjunction with open-width pre-treatment)

## Advantages

- Low tension and crease free fabric run
- Full counter flow of washing liquor
- Low water and steam consumption
- Fast bath renewal and discharge of the pollutant load
- Selectable and reproducible dwelling time
- Short set-up time for filling and heating up
- Exact dosing of chemicals per kg of fabric
- High washing efficiency
- High production capacity

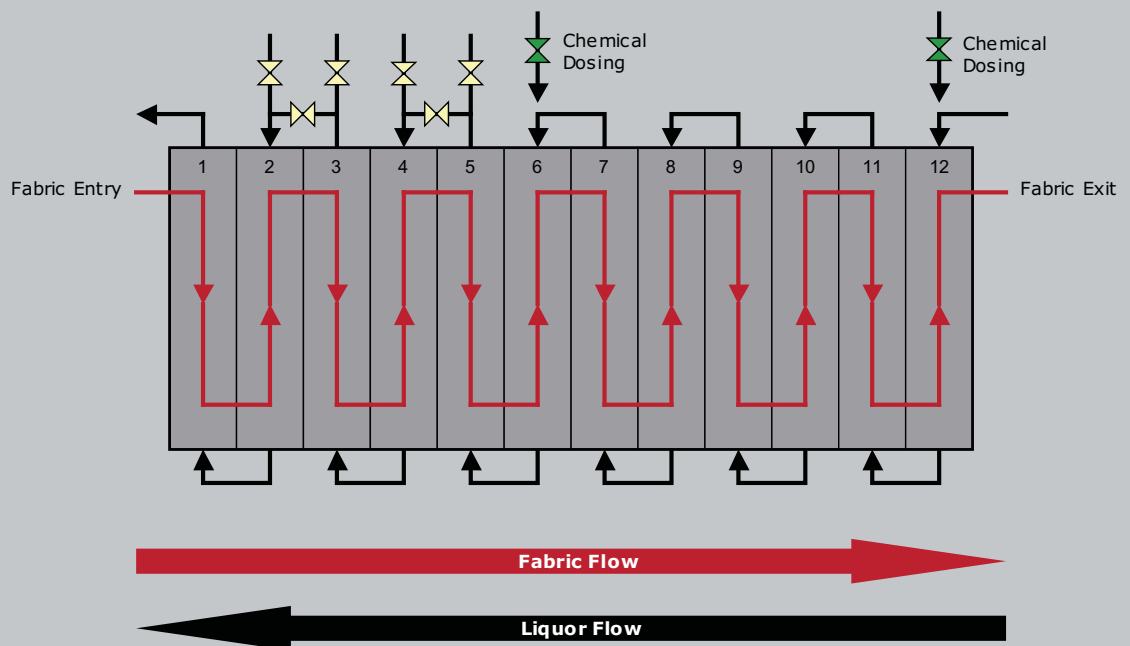
## Layout of DELPHIN®

1. Squeezing roller
2. Fabric transport roller
3. Liquor overflow funnel
4. Frequency controlled roller drives
5. Weight controlled fabric cage
6. Machine drain valves
7. Liquor circulation pump
8. Heat exchanger



## Liquor flow

The liquor flows against the direction of the fabric, both inside each compartment as well as over the entire machine. The resulting counterflow in combination with a high liquor circulation within each compartment leads to a very intense contact of the liquor and the fabric.



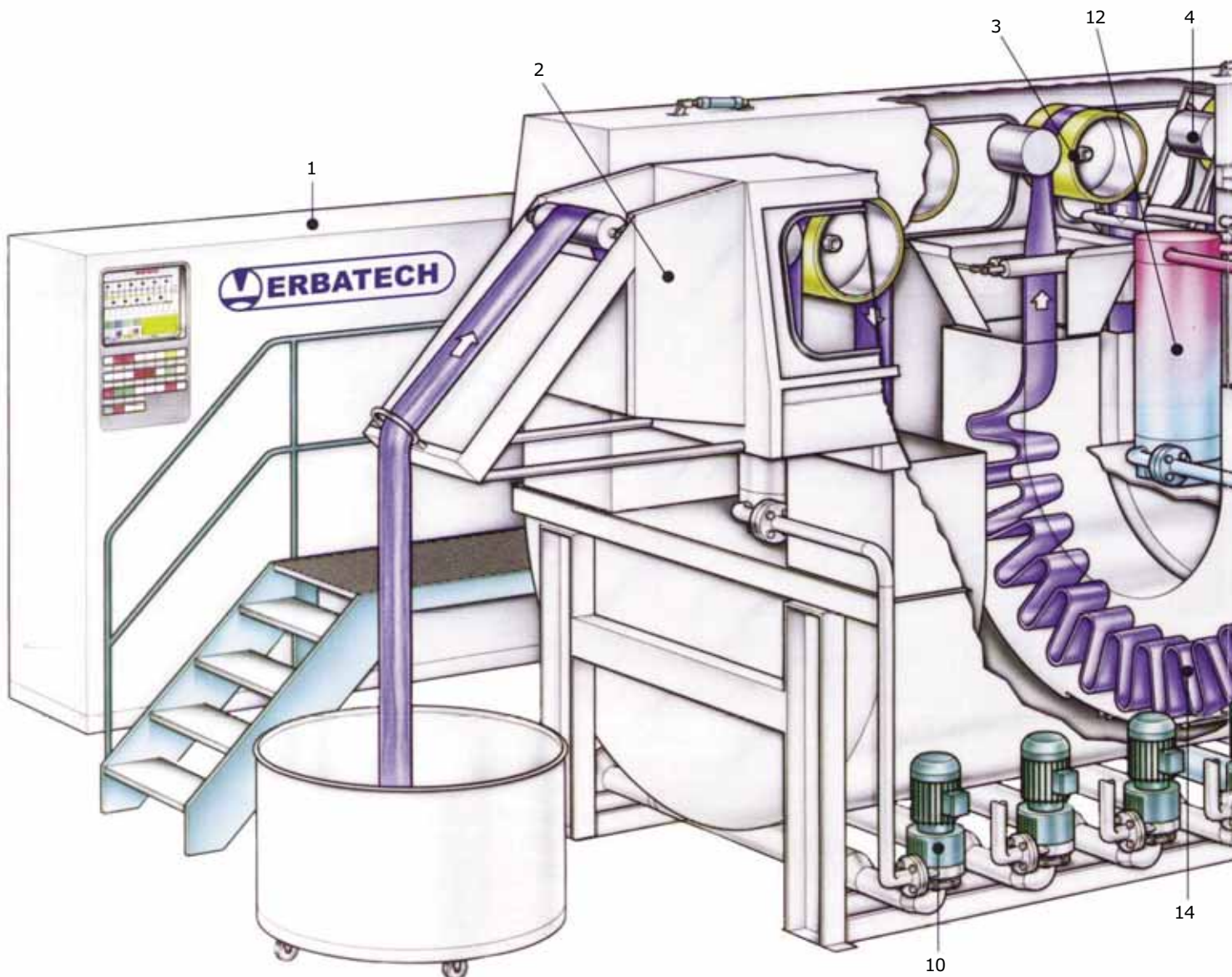
The fresh water is fed in at the end of the machine where the fabric needs to be cleanest. The dirt loaded water is used at the entry of the machine where the fabric contamination is greatest. The result of this arrangement is a very high washing efficiency and extremely low water/steam consumption figures.

# DELPHIN®

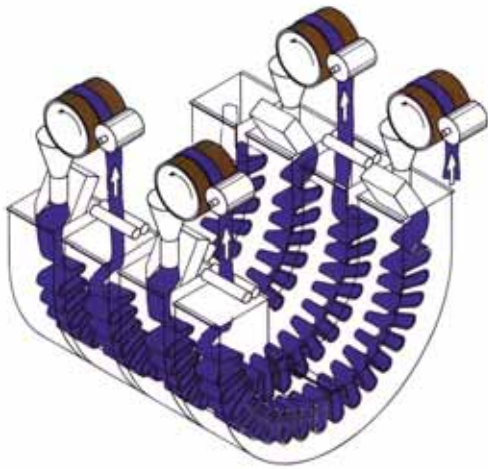
Rope processing range for continuous washing and bleaching of knitted and woven fabrics

## Design Features:

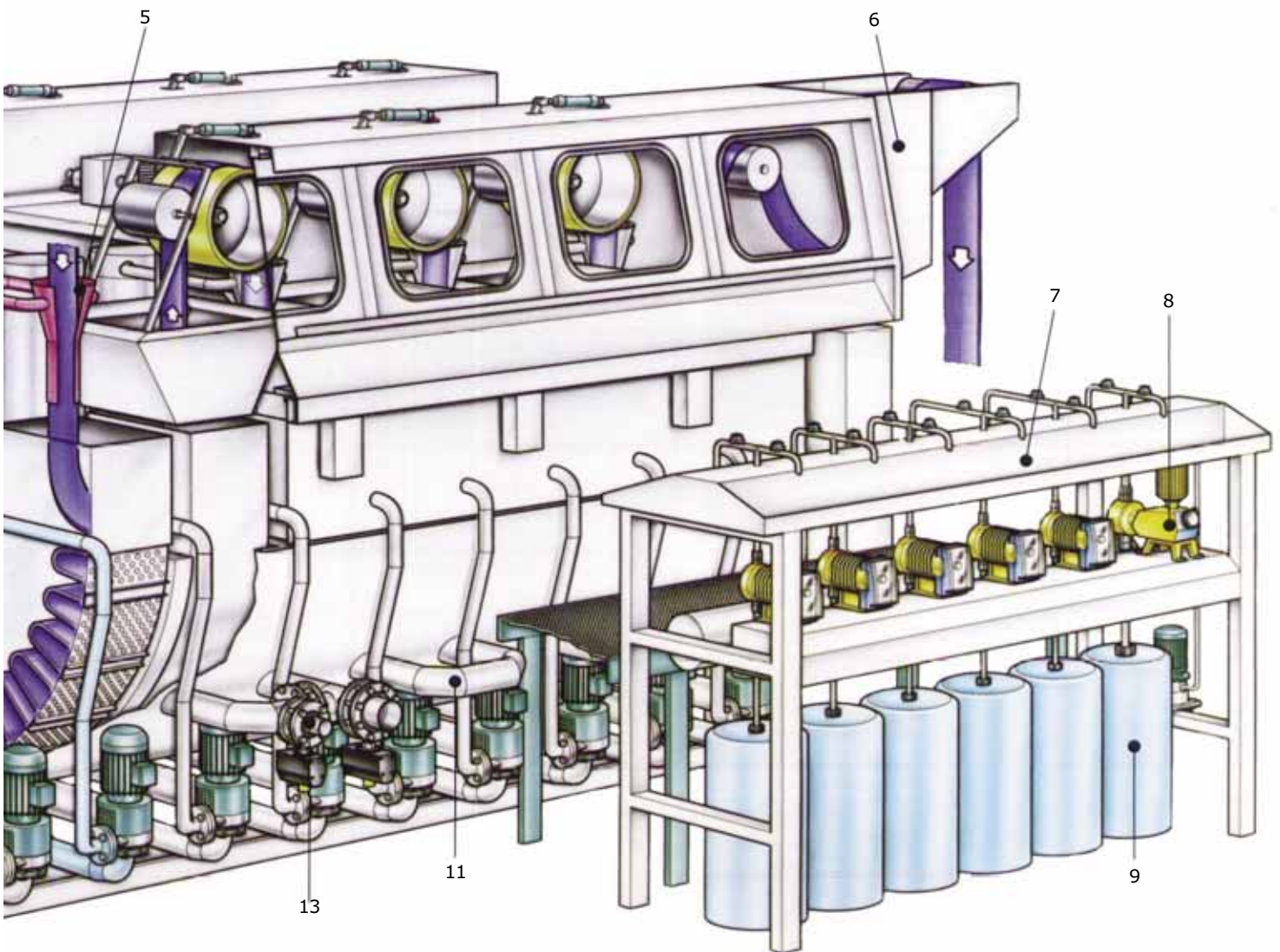
1. Electrical cabinet with fully automated control system
2. Fabric entry section
3. Transport rollers with frequency controlled gear drive
4. Squeezing roller for bath separation and transport
5. Liquor overflow funnel
6. Fabric exit section
7. Chemical dosing station
8. Chemical dosing pump
9. Chemical supply tank
10. Liquor circulation pump
11. Connecting liquor pipe
12. Heat exchanger for individual temperature control
13. Motorized liquor entry/exit valve
14. Weight controlled fabric cage



## Cloth run

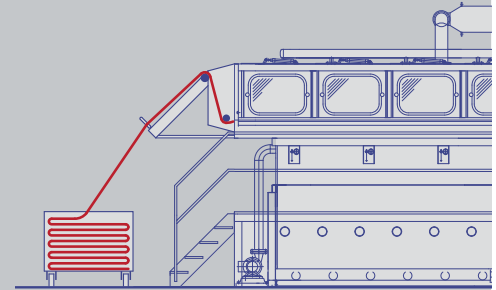


The fabric enters the next compartment via the transport rollers. In the liquor overflow funnel it is intensely impregnated with liquor and subsequently laid down into the compartment. The fabric moves slowly through the compartment and has time to react at the right temperature and chemical conditions. The reaction time per stage is controlled by the weighted fabric cage inside each compartment. The filling of the compartment in terms of kg controls the speed of the extracting transport roller - over or under filling of the compartments are reliably avoided.

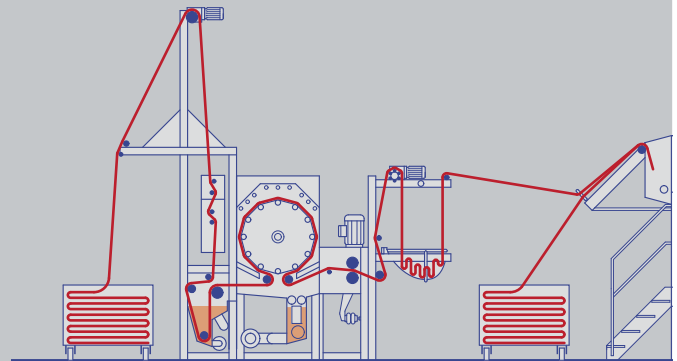


# Application Examples

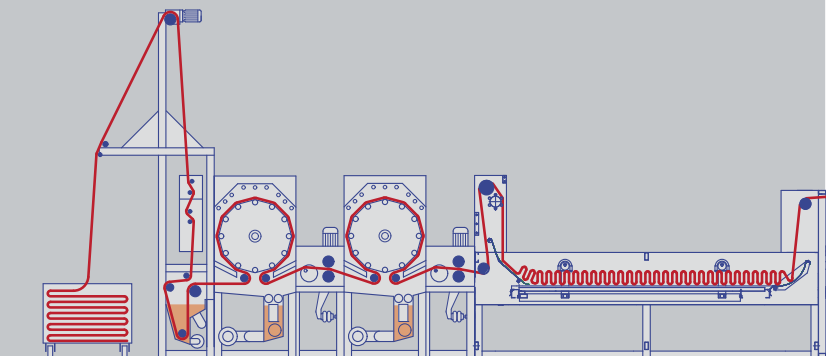
DELPHIN® D16 in combination with rope opener and hydroextractor for washing after dyeing before further finishing processes e.g. stenter frame

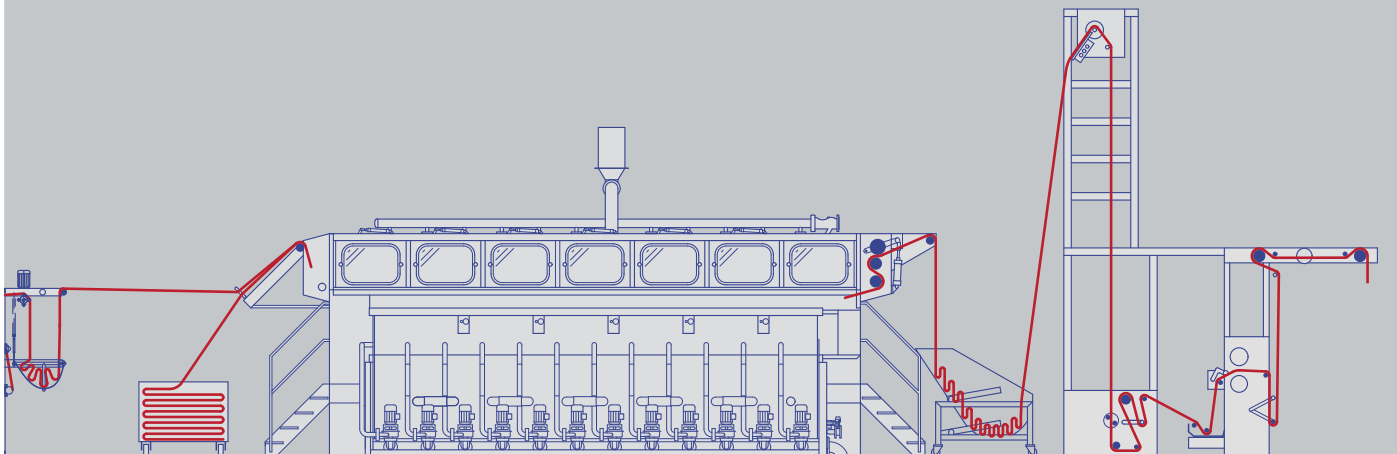
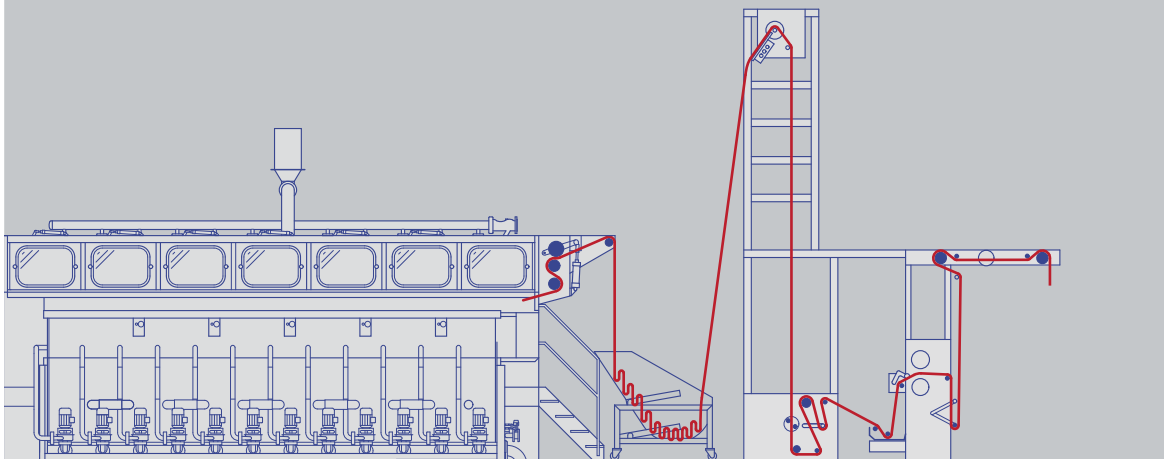
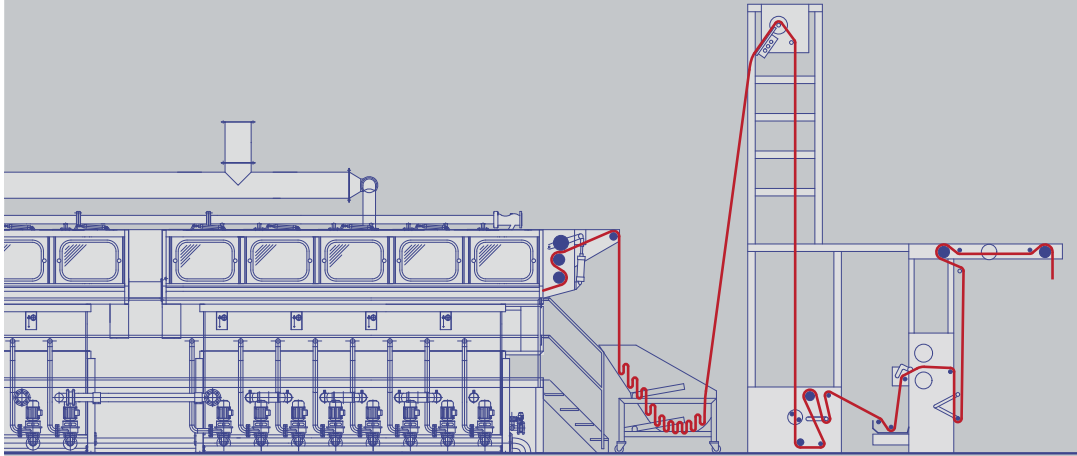


DELPHIN® D12 in combination with SCOUT® open-width washing range and rope opener for washing after printing for woven and knitted fabrics

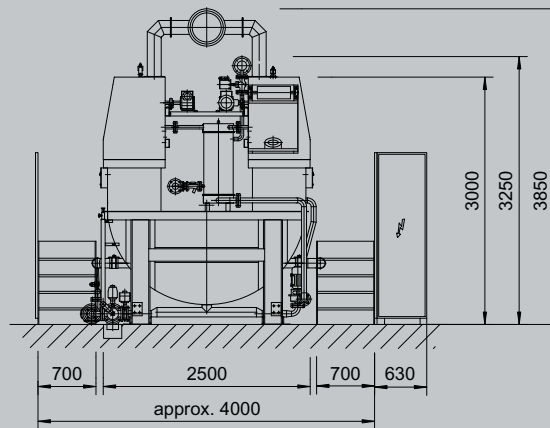
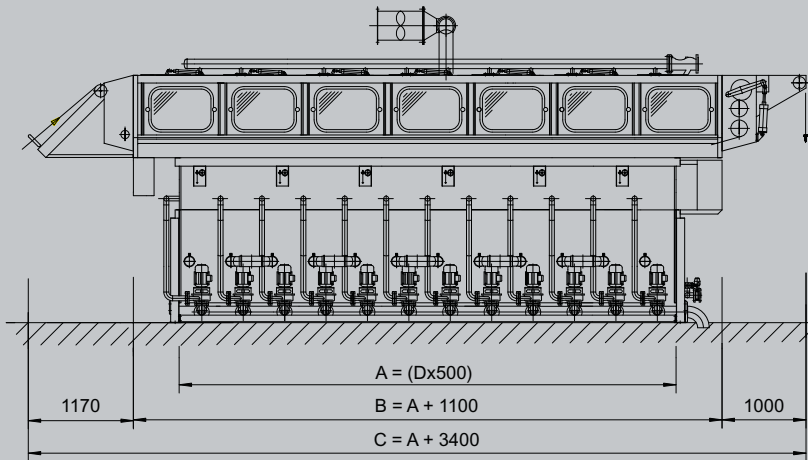


Delphin® D12 with two Scout® rotary wash sections and dwell zone for prescouring and swelling print thickener





# Technical dimensions



Model	D6	D8	D10	D12	D14 (6+8)	D16 (8+8)
Dimension 'A' mm	3000	4000	5000	6000	3000+4000	4000+4000
Dimension 'B' mm	4100	5100	6100	7100	4100+5100	5100+5100
Dimension 'C' mm	6400	7400	8400	9400	11400	12400
No. of compartments	6	8	10	12	14	16
Connected load in kw installed power	29	36	43	50	56	62
Fabric holding capacity per compartment (max.) kg	75	75	75	75	75	75
Max. temperature in °C	92-98	92-98	92-98	92-98	92-98	92-98
Machine speed in m/min (mechanical)	0-120	0-120	0-120	0-120	0-120	0-120