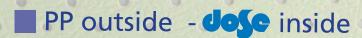


The polypropylene-Dosemat





■ 100% made in Germany



NEW



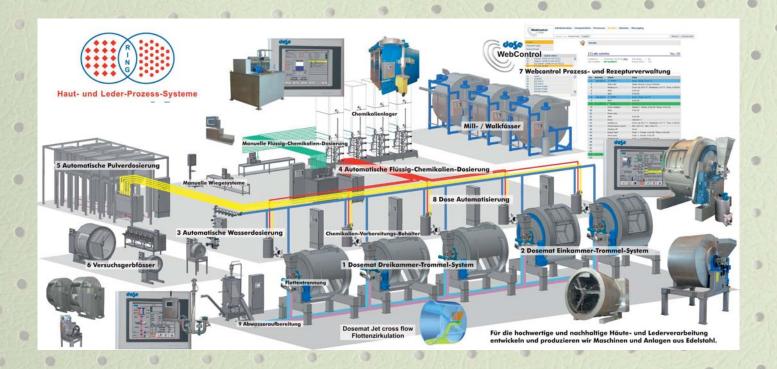




Soaking/Liming

Tanning

Retanning / Dyeing



We offer the following services and equipment:

- laboratary drums
- production drums
 - automation: automatic water dosing
 - automatic chemistry dosing for liquid and powder chemicals
 - WebControl: Higher-level tannery control software and server
 - Projekt planing, planing and support for your tannery

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The PP-Dosemat sets new standards in polypropylene engineering and offers the highest quality as you are used to know from the Dose-drums since decades.

Standard machine sizes

Typ Drum	diameter	with	volume m³	shaved wt (kg)	green/pelt (kg)
92204 PP04	Ø2000	1500	4m³	300kg	800kg
92206 PP06	Ø2400	1250	5,6m³	500kg	1.300kg
92208 PP08	Ø2400	0 1500	6,8m³	700kg	1.900kg
92212 PP12	Ø2400	2500	11,3m³	1.100kg	3.300kg
32218 PP18	Ø3000	2500	17,6m³	1600kg	4.300kg
32221 PP21	Ø3000	3000	21m³	2000kg	5.600kg
32228 PP28	Ø3500	3000	28m³	2700kg	7.500kg

automation

tannery automation system

State of the art tannery automation that complies to your expectation.

The automation system has been developed together with leading tanneries of the industry. Safety reliability and ease of use in one package.

Open to communicate with existing machinery and peripheral equipment. Visualisation of the production plant with standard web technology.

Dose automation qualities

- easy handling
- reliable soft- and hardware
- configuration to match your needs
- quick and easy trouble-shooting
- minimal spare-part costs
- complete control of the process
- data evaluation of all recipe and machine events
- checks before mistakes happen
- check all process parameters from any point in the world



webformula
iPControl
Machine control for all hide and leather processors
dosemix
Water mixing and dosing control
chemdos
Hide and leather chemical dosing control
pH-test
Control system for measuring and logging of pH-values
weight-check
Manual weighing system

business

Dose is a german company located next to the city Baden-Baden in Southwest Germany, near France.

Since more than 60 years now we are experienced in developing and manufacturing machines and systems made in stainless steel for the tanning industry.



dose competence

hide and leather processing systems

Elements of core competence

- dosemotion and dosemat 3division float processors
- laboratory and testing drums
- water mixing and dosing systems
- hide and leather chemical dosing
- dose tannery automation system
- process and recipe management software
- service and consulting







dosemotion

float processor - state of the art

The dosemotion is a float processor that combines state of the art technology with a proven float circulation, a simple construction and the latest findings relating to the hide and leather action in the drum.

The interaction of the intelligent float circulation with the interior division of dosemotion increases the efficiency of your hide and leather process.



Characteristics

- the dosemotion is made in stainless steel, that enables best economic designs and developments
- on that score, the dosemotion works with a double cylinder design and intelligent float circulation

Resultant qualities

- most effective penetration of hide and leather chemicals
- most effective temperature and pH value control
- homogeneous action and distribution over the entire drum
- safe accessible reduced water and chemical consumption
- no tears and no entanglements with difficult ware
- shorten processing times

dosemotion

float processor - state of the art

Characteristics

- the interior division is based on curved drum paddles
- for loading and unloading the drums are equipped with large pneumatic controlled sliding doors

Resultant qualities

- heavy action by low drum speed, 3 6 rpm
- more flexible in process development and recipe optimation
- less electrical power consumption
- fast and complete unloading, 1½ minutes





More characteristics

- admixtures, measurements and water changes by mixing box
- the float circulates over fixed mixing box during drum rotation
- drum ventilation works several times per revolution
- spherical roller bearings and helical-bevel gear drive

More resultant qualities

- fast and controlled water changes
- less mechanical fading with high efficiency factor







dosemotion

float processor - state of the art

dosemotion	sm 05	sm 07	dm 10	dm 12	dm 14
type number	31805	31807	32210	32212	32214
drum ø (mm) drum width (mm)	2.100 1.500	2.200	2.500 2.000	2.500 2.500	3.000
drum volume (m³) shaved wt (kg)	5.0 500	7.0 750	10.0	12.5 1.250	14.0 1.500
green/pelt (kg)	1.200	2.300	3.300	4.000	4.500
motor power (kW)	5	7.5	11	11 .	15

dosemotion	dm 18	dm 21	dm 30	dm 38	dm 50	dm 63	
type number	32218	32221	32230	32238	32250	32263	
drum ø (mm) drum width (mm)	3.000 2.500	3.000 3.000	3.500 3.000	4.000 3.000	4.000 4.000	4.000 5.000	
drum volume (m³) shaved wt (kg) green/pelt (kg)	18.0 2.000 5.800	21.0 2.400 6.800	30.0 3.400 9.500	38.0 4.500 12.500	50.0 5.600 16.000	63.0 6.800 18.500	
motor power (kW)	15	15	22	30	2x15	2x22	



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dosemat 3division

float processor - state of the art

The dosemat 3division - the superior machine for making leather in constant quality. Hides and leather are processed uniformly by the intelligent float circulation system.





Characteristics

- perforated inner walls separate the drum into 3 working areas
- the dosemat 3division works with 3 by 3 step float circulation





Resultant qualities

- maximum capacity possibilities in same space
- fast and controlled water changes
- effective penetration of hide and leather chemicals
- most effective temperature and pH value control
- homogeneous action and distribution over the entire drum
- safe accessible reduced water and chemical consumption
- shorten processing times
- no tears



dosemat 3division

float processor - state of the art

dosemat	sd 2.0	sd 2.5	sd 3.0	sd 5.0	dd 7.5	
type number	30820	30825	30830	30852	31207	,
drum ø (mm) drum width (mm)	1.600 1.000	1.600 1.250	1.600 1.500	2.100 1.500	2.500 1.500	
drum volume (m³) shaved wt (kg) green/pelt (kg)	2.0 350 800	2.5 450 1.000	3.0 550 1.200	5.0 900 2.000	7.4 1.300 3.000	0
drum speed (rpm) motor power (kW)	7/20 5.5	7/20 5.5	7/20 7.5	4/16	6/12	
		•				
dosemat	dd 10	dd 12	dd 17	dd 21	dd 28	
drum ø (mm)	31210	31212	31217	31221	31228	
drum ø (mm) drum width (mm)	2.500 2.000	2.500 2.500	3.000 2.500	3.000 3.000	3.500 3.000	
drum volume (m³) shaved wt (kg) green/pelt (kg)	9.8 1.700 4.000	12.3 2.000 5.000	17.7 3.000 7.000	21.0 3.500 8.000	28.8 5.000 11.000	
drum speed (rpm)	6/12	6/12	4.5/9	4.5/9	3.5/7	
motor power (kW)	18	18	22	22	37	

		TO SET MENT A WAR OF THE	OF STREET OF STREET STREET	
dosemat	dd 38	dd 50	dd 63	
drum ø (mm)	31238	31250	31263	9
drum ø (mm) drum width (mm)	4.000 3.000	4.000 4.000	4.000 5.000	3
drum volume (m³) shaved wt (kg) green/pelt (kg)	37.7 6.800 15.500	50.0	63.0 21.000	•
drum speed (rpm) motor power (kW)	3/6 37	1.5/5 2x22	1.5/5 2x22	•
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dosemat VG

laboratory and testing drum

Leather is fashion. To design new products is rather expensive.

Dosemat VG helps to make new developments sure of success.





Dosemat VG provides production conditions on laboratory scale. This drum type also employs intelligent 3 step float circulation.

The float circulates several times per round via the scoops and mixing vat where dosing occurs. The design of the scoops and their positioning across the entire drum width ensure a uniform treatment of the leather.

The temperature and running duration can also be regulated with the iPControl.



Features of the VG are rounded off with comprehensive innovations ranging from individual processing aids to a fully-automatic system.



dosemat VG

laboratory and testing drum

type number	30215	30220	30231	30239	30245
drum ø (mm)	800	800	1.000	1.000	1.200
drum width (mm)	300	400	400		400
drum volume (liter)	150	200	315	390	450
minimal float (liter)	3	4	4	5	5
shaved weight (kg)	15	20	32	40	46
drum speed (rpm)	8/40	8/40	7/35	7/35	6/30
motor power (kW)	0.75	0.75	1.1	1.1	1.5
heating (kW)	3.6	3.6	3.6	3.6	3.6
			1		

		The second secon	The second secon	The second secon				100	
type number	30257	30268	30276	30292	30316				
drum ø (mm) drum width (mm)	1.200 500	1.200 600	1.400 400	1.400 600	1.650 750	•	•		The state of the s
drum volume (liter) minimal float (liter) shaved weight (kg)	565 6 58	680 6 70	769 6 78	920 7 92	1.600 10 160	,	9	3	
drum speed (rpm) motor power (kW) heating (kW)	6/30 1.5 3.6	6/30 1.5 3.6	5/25 2.2 3.6	5/25 2.2 3.6	4/20 4 steam	•		•	
						- 100			

	NOT THE RESERVE OF THE PARTY OF		SECTION AND PROPERTY.	A SECTION OF STREET
type number	30	0321	30326	30340
drum ø (mm) drum width (mm)				1.850 1.500
drum volume (liter) minimal float (liter) shaved weight (kg)	0 15	5	20	4.000 35 400
drum speed (rpm) 4/20 motor power (kW) heating (kW)	5.	.5		9.2 steam



dose VGI

laboratory and testing drum

The Dose VGI has been specially designed for laboratory use and has set the standard for decades in leather research. The chemical industry, institutes and tanneries value the efficiency and productiveness of this unit





An unusual characteristic of this machine is the electric heating system.

Separated from the float, the heating circuit circulates in a twin drum casing.

This means that even heated drying processes can be realised.

The temperature and running duration can be regulated easily with the iPControl.

Features ranging from comprehensive innovations to a fullyautomatic system enable you to meet even the most difficult requirements.







dose VGI

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laboratory and testing drum

type number	30503	30508	30509	30515	30520 30531
drum ø (mm)	400	600	600	800	800 1.000
drum width (mm)	200	300	300	300	400 400
drum volume	25	85	85	150	200 315
shaved weight	2	7	7	12	16 25
drum speed (rpm)	5/50	8/40	8/40	8/40	8/40 7/35
motor power (kW)	0.1	0.22	0.55	9.75	0.75 1.1
heating (kW)	1	2	3	3	3 4.5

type number	30539	30545	30557	30568	30576 30592
drum ø (mm)	1.000	1.200	1.200	1.200	1.400 1.400
drum width (mm)	500	400	500	600	500 600
drum volume	390	450	565	680	769 920
shaved weight	32	36	45	54	62 74
drum speed (rpm)	7/35	6/30	6/30	6/30	5/25 5/25
motor power (kW)	1.1	1.5	1.5	1.5	2.2 2.2
heating (kW)	4.5	4.5	4.5	4.5	6 6





dose PFI

parallel colour processor

Realisation and scalability of comparative trials are the key factor when it comes to achieving an effective laboratory result.

The parallel colour unit employs reliable technology and the latest control, adapting to requirements to meet every expectation of a machine utilised for comparative testing.

A drum pair is supplied by a heating circuit, thus ensuring ideal heating conditions for comparative trials. The temperature range is between 20°C and 80°C.

Desired and actual values can be controlled separately for each heating circuit.

The effective heating system ensures that a maximum deviation of only 2° can occur between the float and heating circuit temperature a sound basis for achieving your test results.







All drums are driven by one electric motor, and each one can be disconnected separately. Motor running and stop times and continuous speed control can be adjusted, enabling dditional enhancement of performance. The direction of rotation reverses after each stop.

The PFI is available with 2, 4 or 6 drums and 1, 2 or 3 heating circuits.

Drum ø: 300mm Drum width: 150 mm Drum volume: 10 liters Motor power: 0.4 kW

Including stepless speed control up to 45 rpm

dosemix

water mixing and dosing system

Water, the most important medium of all, plays a decisive role during leather production. It is the ideal solvent for use in the leather process when the correct volumes are utilised at the right temperature.

The Dose water mixing and dosing system sets standards in celerity, precision and operational control.

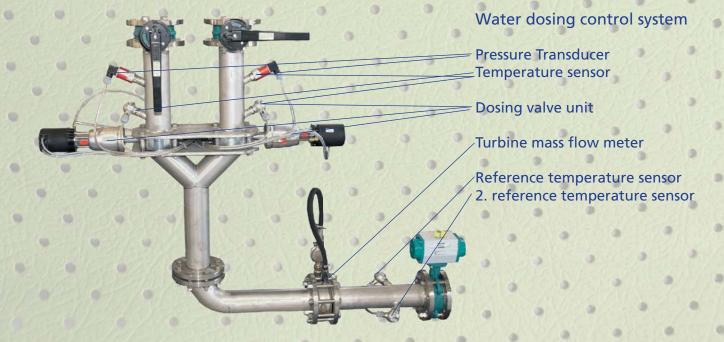




The system mixes hot and cold water to the specified temperature and conveys correct volume to the preselected consumer.

Water pressure and the intake temperature are transmitted in real time.

The computer calculates the correct start valve setting for the independent control valves and realises these.



dosemix

water mixing and dosing system

The Dose water mixing and dosing system sets standards in celerity, precision and operational control.

Water can be recirculated to the storage tank via a separate valve until the preselected temperature is reached.





The system enables recording of the exact mixing temperature after the medium has travelled the shortest possible distance. The computer then processes this value to achieve a fine correction.

A second temperature sensor ensures that temperature readings are correct.

The desired temperature is achieved within a few seconds and the water is directed into the drum.





system number	NW 15	NW 25	NW 50
pipe diameter	1/2"	01"	2"
pressure zone (bar)	0.5-6	0.5-6	0.5-6
temperature zone (°C)	10-90	10-90	10-90
flow rate (bar/l/min)	25	100	500

NW 80	NW 100	NW 125
3"	4"	5"
0.5-6	0.5-6	0.5-6
10-90	10-90	10-90
1 000	1 500	2 000



chemdos

hide and leather chemical dosing

Established recipes which can be reproduced with precision are the basis for homogenous quality in leather manufacturing.

The chemdos dosing system is fully-automatic liquid dispensing of up to 30 components in a batch (an automatic dosing process), including hot and cold water.

Any chosen number of automatic dosing processes can be entered in the recipe itself and dispensed at the specified time.

Specified mixing ratios for individual components are adhered to exactly, thanks to the separate configuration option available for each dosing valve.









system type
capacity (liter)
pipe to dosing valve
standard consumer

chemdos	150
150	
1"	0
6	

1	
chem	dos 500
500	0
1"	
6	

chemdos 850	chemdos 1200
850	1.200
2"	2"
6	6



chemdos

hide and leather chemical dosing

The chemdos dosing system is fully-automatic liquid dispensing of up to 30 components in a batch (an automatic dosing process), including hot and cold water.

The agitator in the weighing tank ensures that an optimum mix of liquids is achieved. A centrifugal pump then conveys the mixture to its destination.

A purging system subsequently facilitates cleaning of the system and all associated pipes and tanks. Additional dosing systems can be easily integrated in existing plants.





The liquid management system is an additional option that rounds off the chemdos, achieving a safe and efficient production system employing state of the art technology.

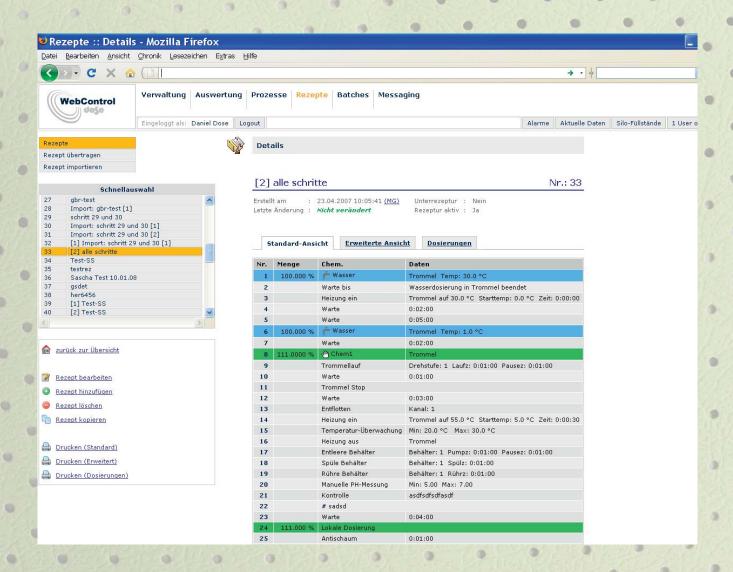


webcontrol

recipe and process management

Now and in future an innovative development environment and recipe evolvement become the deciding basis for a successful leather product.

The recipe and process management system webformula with an optimised user interface, easy handling and the comprehensive applicabilities improves and amplifies your product evolution.



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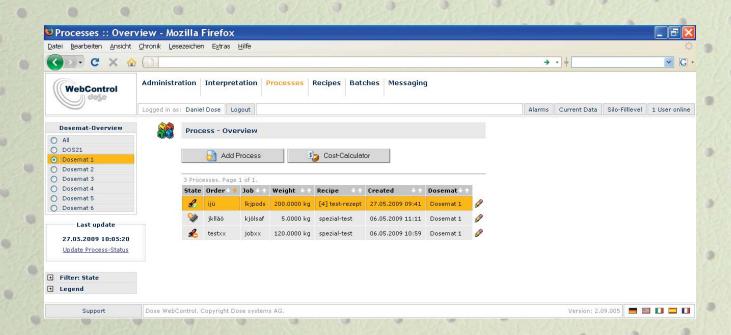
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webformula

recipe and process management

WebFormula substructure

- recipe and process management
- interpretation of data
- chemical administration with Cost control
 - allocation of suppliers
 - filteroption for chemicaltypes
- magazine-code creation
- printable list-generation
- machine administration with
 - all machine types
 - alarm in realtime
- all parameter data in realtime
 - actual silolevel visible
- chemical supplier administration
- WebFormula user-management
- extensive configuration menue



iPControl

machine control system

The iPControl secures constant leather quality.

One screen shows all important information like temperature, total running time and step running time.

iPControl can save 20 recipes composed of 500 steps and 30 processes can be entered.

iPControl qualities

- can be run fully automatic without PC connection
- 20 main recipes can be stored and edited
- dependend and decision based recipe run
- process sequel
- alarmhandling
- including preparation-tank control
- fully customisable to fit all needs
- comfortable data handling
- optional barcode scanner
- optional pH-meter available
- automatic water orders to dosemix
- automatic chemical orders to chemdos
- automatic pH-measurement orders to pH-check
 - automatic orders to weight-check







All data of a machine (recipes, PLC-Programm, settings), are stored on an easy interchangeable compact flash card.

In the seldom case of a breakdown, the compact flash is inserted into a new iPC and the production can be continued within minutes.







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