

We coat everything!



survey of machines

applications material machines accessories products solutions



Axel Wirth Maschinen GmbH
Aalener Str. 76 – 80
D-73447 Oberkochen / Germany
Phone +49 (0)7364 9577090
Fax +49 (0)7364 95770919
www.awm-gmbh.com
info@awm-gmbh.com



customized machinery made in germany

www.awm-gmbh.com

WELCOME
TO

AXEL
WIRTH
MASCHINEN
GMBH

APPLICATIONS

roller applicators for

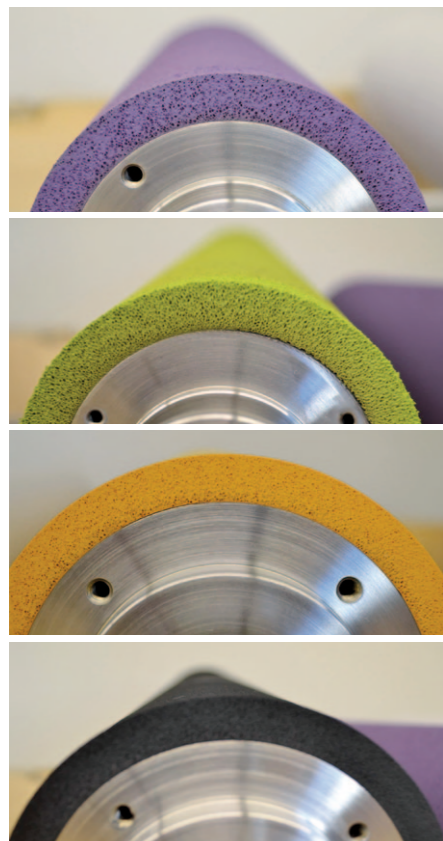
- >> glues
- >> adhesives
- >> cold PU-adhesives
- >> water based lacquers
- >> UV-lacquers
- >> oils
- >> UV-oils
- >> lyes
- >> stains
- >> colours

dosing roller machines
type DWO

reverse roller machines
type DDWO

distributor conveyor belts
in working widths
400 and 600 mm

complete surface finishing
lines – also special coatings



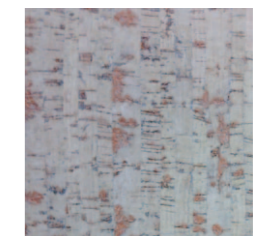
WHAT MATERIALS ARE POSSIBLE



WOOD-
COMPOSITE
MATERIAL



WOOD



CORK



STONE



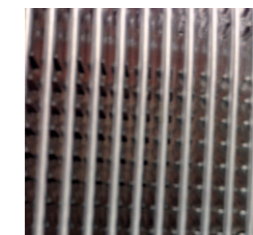
GLASS



FOAM
MATERIAL



BRAKES



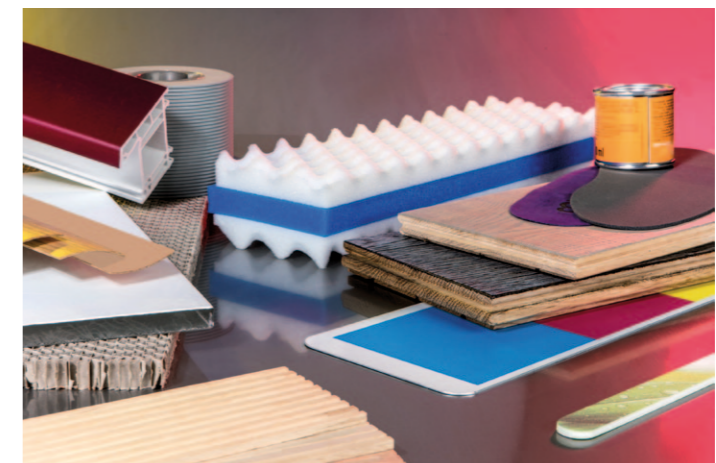
METAL



RUBBER



SOLES



... and many other
board shaped materials

TYPE LW 100



EASY TO CLEAN THANKS
TO QUICK DISMOUNTING.

EASY HANDLING.

RUGGED CONSTRUCTION.

HIGH EFFICIENCY AND HIGH
PERFORMANCE.

APPLICATION BY ROLLERS OF
FLUIDS SUCH AS GLUE, OIL, WAX,
LYE, STAIN, PAINT ...

ROLLER APPLICATOR LW 100

For one-sided or two-sided application by rollers of fluids such as glue (also cold PUR, suitable to be used in machines), oil, wax, scumble, stain, paint etc. on flat workpieces from materials such as wood, cork, high-resistant foam, cardboard, metal, granite etc.

Allows for versatile usage in traditional wood treatment – from furniture production and lamination to unilateral glue application onto sheets of veneer of 0.6 mm thickness.

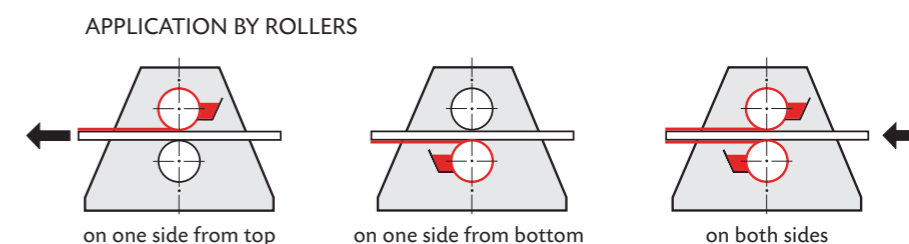
Application of oil, wax, lye and stain onto furniture, floors and parquets is obvious. Fluid dosage can be precisely adjusted by infinitely variable eccentric levers. The minimum quantity applied depends on the quality of the roller surface. Rough, middle, fine grooved, rough and fine porous, smooth. Different hardness and

chemical constancies. Containers and rollers can easily be removed for cleaning within half a minute.

All pieces – except for the drive unit – are made of high-quality, rust-resistant material such as aluminium, V2A / stainless steel.



MACHINE COMBINATIONS TO MATCH YOUR SPECIFIC NEEDS:



	TYPE LW 100/300	TYPE LW 100/450	TYPE LW 100/650
Nominal width/Roller width	300/310 mm	450/460 mm	650/660 mm
Max. material thickness	80 mm	80 mm	80 mm
Rubberized bottom rollers, smooth or grooved	100 mm Ø	100 mm Ø	100 mm Ø
Rubberized top rollers, smooth or grooved	100 mm Ø	100 mm Ø	100 mm Ø
Capacity per fluid container	ca. 1,5 l	ca. 2,3 l	ca. 3,25 l
Motor power at 230/400 V, 50 Hz – 3 phases	0,37 kW	0,37 kW	0,55 kW
Feeding speed (other speeds optional)	24 m/min 6 – 35	24 m/min 6 – 35	24 m/min 6 – 35
Machine dimensions	Width 860 mm Depth 630 mm Height 540 mm	1010 mm 630 mm 540 mm	1230 mm 630 mm 540 mm
Accident Preventing Device	Switch panel located at work piece infeed, CE certified		
Options	Larger thickness of material than 80 mm Variable speed motor 6 – 35 m/min Special voltages		

TYPE DWO



EASY TO CLEAN THANKS
TO QUICK DISMOUNTING.

EASY HANDLING.

RUGGED CONSTRUCTION.

HIGH EFFICIENCY AND HIGH
PERFORMANCE.

APPLICATION BY ROLLERS OF
FLUIDS SUCH AS GLUE, OIL, WAX,
LYE, STAIN, PAINT ...

DOSING ROLLER SYSTEM

For application by rollers of fluids such as glue (also cold PUR-adhesive, suitable to be used in machines), oil, UV-oil, wax, scumble, stain, paint, lye etc on flat work-pieces from materials such as wood, cork, cardboard, high-resistant foam, metal, granite etc.

Application of oil, wax, lye and stain onto furniture, floors and parquets is obvious.

Smallest application quantities of e. g. UV-oil 5 g/m² in small or big series.

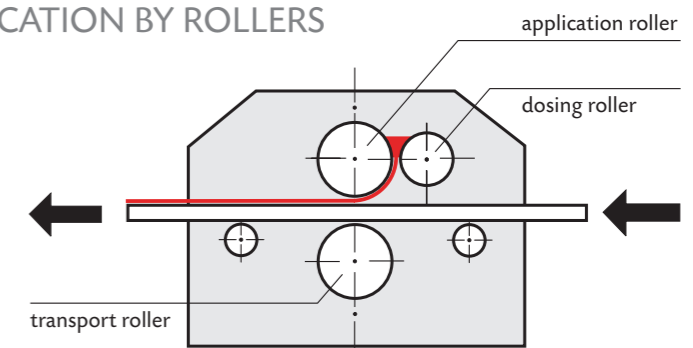
Fluid dosage can be precisely adjusted by the infinitely variable dosing roller.

The minimum quantity applied depends on the quality of the roller surface. Rough, middle, fine grooved, rough and fine porous, smooth. Different hardness and chemical constancies. Containers and

rollers can easily be removed for cleaning within half a minute.

All pieces – except for the drive unit – are made of high-quality, rust-resistant material such as aluminium, V2A / stainless steel.

APPLICATION BY ROLLERS



		TYPE DWO	
Nominal width/Roller width		450/460 mm	650/660 mm
Max. material thickness		100 mm	100 mm
Rubberized top roller		120 mm Ø	120 mm Ø
Rubberized bottom roller		120 mm Ø	120 mm Ø
Dosage roller in stainless steel		100 mm Ø	100 mm Ø
Motor power application roller		0,37 kW	0,55 kW
Motor power dosage roller		0,38 kW	0,38 kW
Electrical requirements		400/230 V, 50 HZ, 3 phases	400/230 V, 50 HZ, 3 phases
Adjustable speed		2 – 35 m/min	2 – 35 m/min
Machine dimensions	Width	1130 mm	1330 mm
	Depth	800 mm	800 mm
	Height	670 mm	670 mm
Accident preventing device:		Switch panel located at work piece infeed, CE certified	

Technical modifications reserved



EASY TO CLEAN THANKS
TO QUICK DISMOUNTING.

EASY HANDLING.

RUGGED CONSTRUCTION.

HIGH EFFICIENCY AND HIGH
PERFORMANCE.

APPLICATION BY ROLLERS OF
FLUIDS SUCH AS GLUE, OIL, WAX,
LYE, STAIN, PAINT ...

TYPE DDWO

DOSING ROLLER SYSTEM WITH REVERSE ROLLER DDWO

For application by rollers of fluids such as glue (also cold PUR-adhesive, suitable to be used in machines), oil, UV-oil, wax, scumble, stain, paint, lye etc on flat workpieces from materials such as wood, cork, cardboard, high-resistant foam, metal, granite etc.

Application of lacquer, oil, wax, lye and stain onto furniture, floors and parquets is obvious.

Smallest application quantities of e. g. lacquer 3 g/m² and planing by reverse roller.

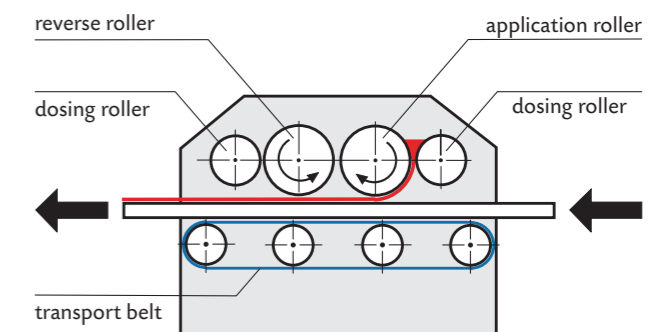
Fluid dosage can be precisely adjusted by the infinitely variable dosing roller.

The minimum quantity applied depends on the quality of the roller surface.

Rough, middle, fine grooved, rough and fine porous, smooth. Different hardness and chemical constancies. Containers and rollers can easily be removed for cleaning within half a minute.

All pieces – except for the drive unit – are made of high-quality, rust-resistant material such as aluminium, V2A / stainless steel.

APPLICATION BY ROLLERS



		TYPE DDWO	
Nominal width/Roller width		450/460 mm	650/660 mm
Max. material thickness		100 mm	100 mm
Rubberized top roller		120 mm Ø	120 mm Ø
Dosing roller in stainless steel		100 mm Ø	100 mm Ø
Reverse roller		120 mm Ø	120 mm Ø
Dosing roller of reverse roller		100 mm Ø	100 mm Ø
Detachable transport belt		410 mm	610 mm
Motor transport belt		0,48 kW	0,48 kW
Motors application/transport roller		0,38 kW	0,38 kW
Motors of dosing rollers		0,38 kW	0,38 kW
Pneumatic pump			
Electrical requirements		400/230 V, 50 HZ, 3 phases	400/230 V, 50 HZ, 3 phases
Adjustable advance		0 – 35 m/min	0 – 35 m/min
Machine dimensions	Width	1195 mm	1395 mm
	Depth	1000 mm	1000 mm
	Height	1550 mm	1550 mm
Accident Preventing Device		Switch panel located at work piece infeed, CE certified	



EASY TO CLEAN THANKS
TO QUICK DISMOUNTING.

EASY HANDLING.

RUGGED CONSTRUCTION.

HIGH EFFICIENCY AND HIGH
PERFORMANCE.



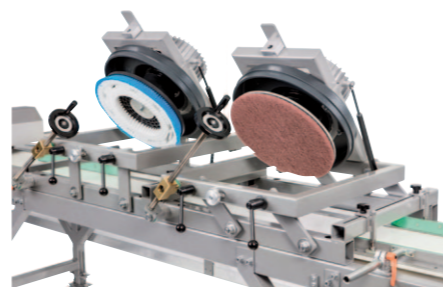
disk brush



distributor pad

The roller applicator LW 100 enables to apply oil, stain etc. on plane surfaces. In general, surfaces are wiped, brushed softly or polished at once, or a short time after the application. We also say, the remaining fluid is distributed.

Floor board manufacturers and parquetrys combine the roller applicator with the distributor conveyor VE. Oil is applied on the floor boards from the top. Conveyor belt with lateral stability leads the wood under strong distributor heads of 400 mm width, installed above the belt. Disk brushes and round disk pads treat the oiled surface. Plane surface and chamfer are ready, oiled and distributed, after a short distance.



TYPE VE

DISTRIBUTOR CONVEYOR VE

IN ADDITION TO APPLICATOR LW 100 FOR OIL, STAIN...

This combination of applicator and distributor conveyor VE enables craftsmen, floor board manufacturers and parquetrys to apply their oil, wax, oily stain, resisting agents, protective colour ... from the top, and to treat the surfaces and chamfers.

Infinitely variable roller pressure of the applicator and the pliable roller surfaces apply oil regularly on and in wood. Infinitely variable dosage of oil quantity. We do not need, and we do not want to leave a rest of oil. Depending on type of wood, grinding, structure and surface temperature, wood needs some time to suck enough.

Strongly absorbing spots do not get more oil than less absorbing spots. This simple fact helps to avoid dark speckles. On less absorbing spots on the wood, such as knots, some oil is left. We do not want to leave it like that, otherwise it becomes sticky. Conventionally, we wipe the surfaces with a cloth. We do not remove the remaining oil, but we distribute it regularly to other spots. If this is done by a machine, we call it a distributor conveyor.

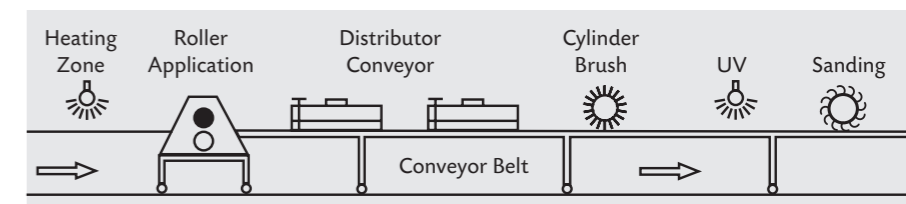
Innovative are the disk shaped tools i.e. disk brushes and pads with a diameter of 400 mm or 635 mm (option), which are larger than the work piece. New surface quality with an enormous repetitive accuracy.

Besides colourless fluids, especially coloured oils or oils with pigments which can be applied by rollers are distributed rapidly and safely with the disk system. Chamfers are covered regularly and treated thanks to the combination of the pre-installed roller applicator and the disk tools. Belt construction with lateral stability, on which disks turn and exert power on the passing wood. Infinitely variable transport speed of the wood and rotating speed of the disks. Also infinitely variable height and pressure

of disks. Brushes and disk pads can be replaced quickly. Pads with hook and loop fastening can be changed quickly. Up to 4 aggregates, distributor heads can be installed successively on our standard distributor conveyor. In case that there is applied more fluid than wood can absorb, we have installed vertical sheets in special steel beside the horizontal brushes which collect the rest.

Roller applicator LW 100 or DWO is flanged on a prepared surface before the conveyor belt and connected with the switch box by means of a plug.

Applicator refer to leaflet LW and DWO



DISTRIBUTOR CONVEYOR VE	
Dimensions of the complete unit	length 7000 mm width 1200 mm (option 1400 mm) exit applicator to first distributor head 2400 mm
Conveyor belt	width of belt 450 mm (option 635 mm) length of support 6000 mm motor 1,5 kW speed 7 – 30 m/min infinitely variable
Tool head	motor 2,0 kW disk diam. Ø 400 mm (option 635 mm) brush material commercial pad material commercial quick replacement system for brushes and pad disks number of tool heads standard 2 pieces, option 1 – 4 pieces
Supply point	400 Volt, 50 Hertz, 3 phases

TYPE LW 120



APPLICATION BY ROLLERS OF
FLUIDS SUCH AS GLUE, OIL, WAX,
LYE, STAIN, PAINT ...

EASY TO CLEAN THANKS
TO QUICK DISMOUNTING.

EASY HANDLING.

RUGGED CONSTRUCTION.

HIGH EFFICIENCY AND HIGH
PERFORMANCE.

ROLLER APPLICATOR LW 120

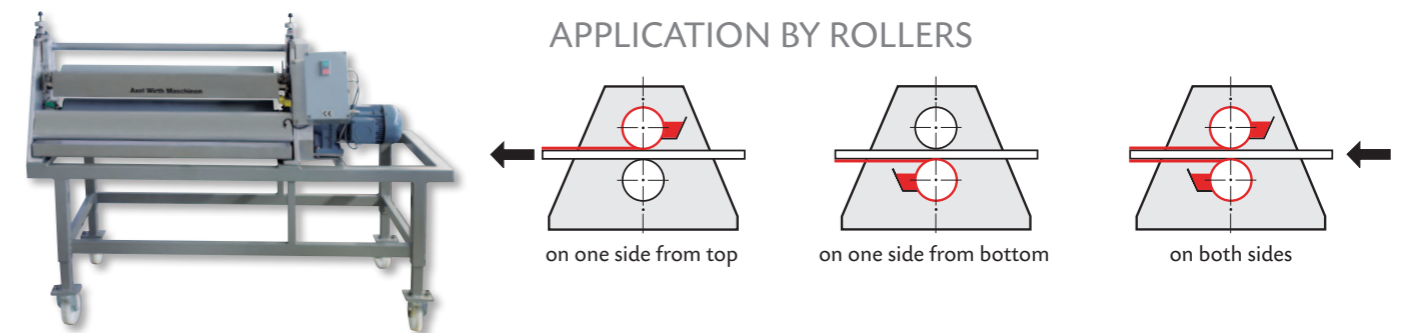
For one-sided or two-sided application by rollers of fluids such as glue (also cold PU, suitable to be used in machines), oil, wax, scumble, stain, paint etc. on flat workpieces from materials such as wood, cork, high-resistant foam, cardboard, metal, granite etc. Allows for versatile usage in traditional wood treatment – from veneering of furniture boards to lamination of formed wood parts

In industry, adhesion between metal and high-resistant foam is common use. Application of oil, wax, lye and stain onto furniture, floors and parquets is obvious. Fluid dosage can be precisely adjusted by infinitely variable eccentric levers. The minimum quantity applied depends on the quality of the roller surface. Rough, middle, fine grooved, porous or smooth. Different hardness and chemical constan-

cies. Containers and rollers can easily be removed for cleaning within half a minute. This is important for the use of cold PU adhesive.

All pieces – except for the drive unit – are made of high-quality, rust-resistant material such as V2A / stainless steel.

Machine combinations to match your specific needs:



	TYPE LW 120/850	TYPE LW 120/1100	TYPE LW 120/1300
Roller width	850 mm	1100 mm	1300 mm
Max. material thickness	100 mm	100 mm	100 mm
Rubberized stainless steel top roller, smooth, grooved, porous	120 mm Ø	120 mm Ø	120 mm Ø
Rubberized stainless steel bottom roller, smooth, grooved, porous	120 mm Ø	120 mm Ø	120 mm Ø
1 or 2 pcs. Stainless steel fluid container (glue, oil ...)	850 mm	1100 mm	1300 mm
Motor power at 400 V, 50 Hz – 3 phases	0,75 kW	0,75 kW	0,75 kW
Feeding speed (other speeds optional)	18 m/min 6 – 35	18 m/min 6 – 35	18 m/min 6 – 35
Machine dimensions	Width Depth Height	1460/1660 mm 630 mm 540 mm	1760/1960 mm 630 mm 540 mm
Accident Preventing Device	Switch panel located at work piece infeed, CE certified		
Options	Larger thickness of material than 100 mm Variable speed motor 6 – 30 m/min Special voltages		

Technical modifications reserved

Other machine sizes: 300 – 450 – 650 mm



THE NEW SPRAYING MACHINE SPW 400

The new spraying machine from Axel Wirth Maschinen is the first choice for spray application of non-explosion-proofed materials like oil, pigmented and acrylic lacquers and matt or glossy varnishes. This new SPW 400 is also suitable for water based products like pigmented stains, dispersions and even cold glue types. Its extremely steady and durable construction grants proper results even on solid and heavy profiles, architraves, staves, skirtings, and gluelam, if these are required to be coated on three sides in one run. Less weighing items keep fixed by springy supported mountings, feeded on non-skid conveyor belt. The construction of SPW 400 is easily accessible and therefore quickly cleanable. That's not only time and money saving, but also second to none. The new spraying machine SPW 400 is first choice if

reliability and professionalism counts. Constructed for stand-alone placement, but also appropriate to be part of a complete processing line. Axel Wirth Maschinen is first class specialist for surface application on demand. We are offering all needed peripheral devices for oil based surface coating – from distribution to drying units, no matter if UV or conventional ovens, Fulfillment – from Axel Wirth Maschinen.

Advantages of the new SPW 400:

- spray area visible from 4 sides
- inlet air via top opening and front side cowling grants safe flow of spray material
- comfortable and spacious construction offers easy access to all machine parts, thus enabling a quick and easy cleaning

- suitable for up to 4 spray guns, to be fixed on cyclopaedically adjustable mountings
- swivel mounted control panel for easiest adjustment
- simple operation, also with programmable SPS unit on demand
- conveyor belt transmission infinitely adjustable irrespective from spray settings
- springy supported mountings and non-skid conveyer belt for secure positioning of work pieces
- secure work place and clean work pieces by ergonomic design of spraying machine to avoid undesired overspray and contamination.
- simplest replacement of filter media by comfortable drawer construction

minimum workpiece length	400 mm	overall dimension	3900 by 1200 by 1700 mm
maximum workpiece width	400 mm	working height	850, adjustable mm
min./max. workpiece height	4 up to 100 mm	weight	approx. 675 kg
conveyor speed	approx. 10 – 60 m/min	installed power	0,55 KW
filter	2 baffle strainer	extraction volume demand	approx. 2500 – 4000 m ³ /h

ACCESSORIES



UV-DRYER



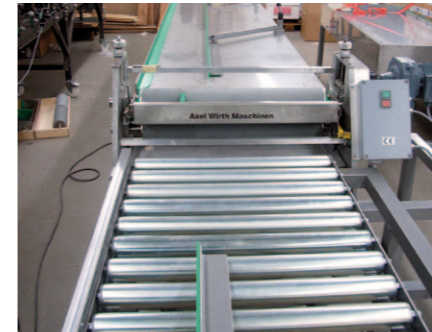
BRUSHING MACHINES



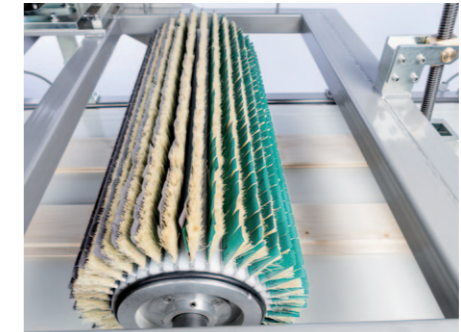
SPW SPRAYING MACHINES



DISK ROLLER CONVEYORS



INFEEED AND OUTLET ROLLER CONVEYORS



SANDING BRUSHES FOR WOOD SMOOTHING



VARNISH CHAMBER DRYERS



CUSTOMIZED MACHINERY

... and much more to equip a complete production