



Foiling solutions for window profiles

DUESPOHL MASCHINENBAU

INNOVATIVE SOLUTIONS
FOR PROFILE WRAPPING, LAMINATING, REEL SLITTING

düspohl
A COMPANY OF CEFLA

Experience and
expertise, global
presence, local care:
Duespohl Maschinenbau.











About Duespohl

Founded in 1967 by Reinhard Duespohl from whom the company's name derives, Duespohl is part of Cefla s.c. based in Imola, Italy, since 2005. Duespohl headquarters and production site remain in Schloss Holte in northwest Germany. The name Duespohl stands for innovation and high quality in profile wrapping.



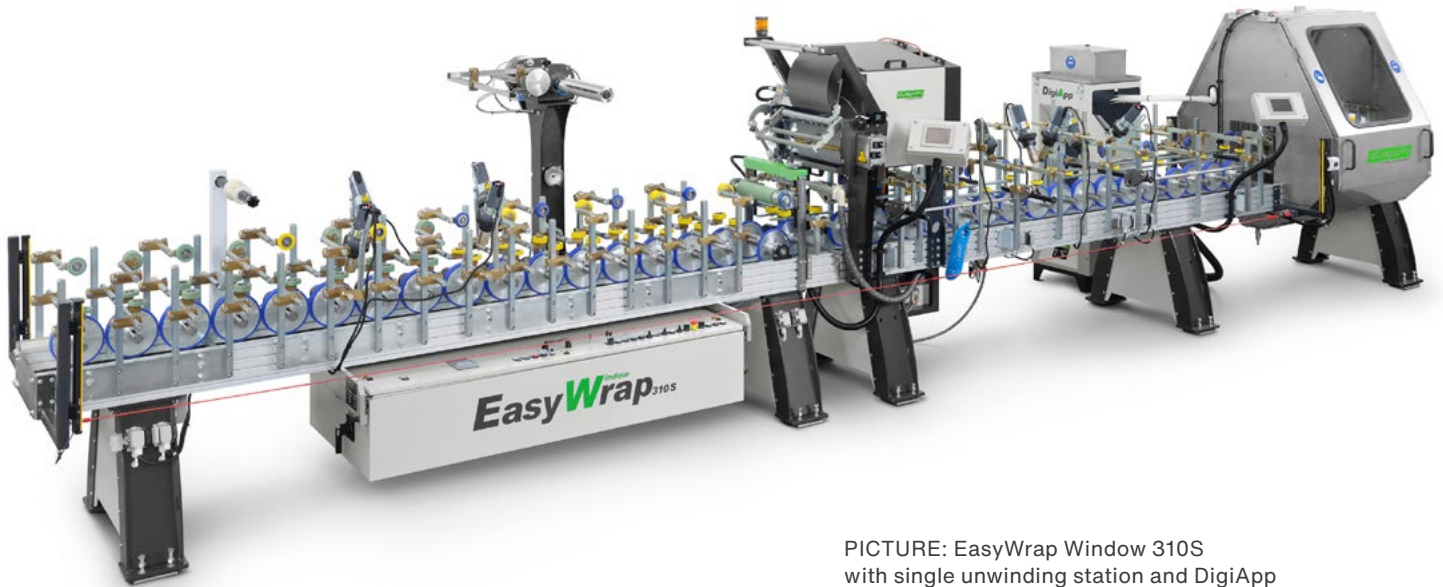
- ✓ Only producer of the fully automated profile wrapping line RoboWrap
- ✓ Member of national technology networks like AI Marketplace
- ✓ In-house software development team
- ✓ Many unique, patented solutions
- ✓ Customised lines made from a large choice of efficient components

MACHINE RANGE FOR WINDOWS

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|--|---|----------------|
|  | Profile wrapping lines for PVC profiles | Pag. 04 |
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EasyWrap Window

COMPACT SOLUTION FOR WRAPPING PVC PROFILES



PICTURE: EasyWrap Window 310S
with single unwinding station and DigiApp

Includes high-performance pre-melter and glue application system

YOUR ADVANTAGES

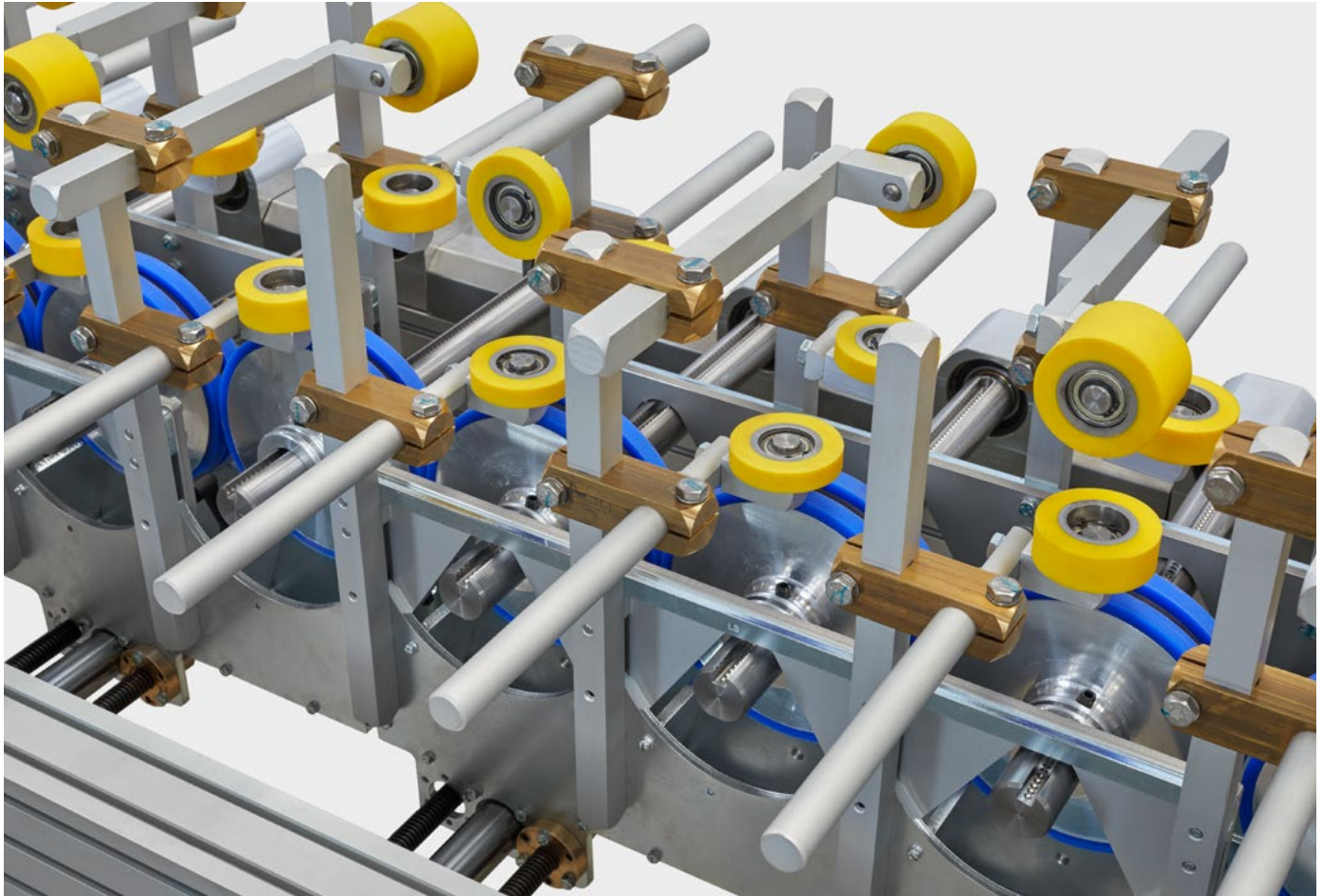
- ✓ includes combined 3-in-1 unit with premelter, SlotCoater and dosing pump
- ✓ same high-quality SlotCoater as is seen in all Düspohl lines
- ✓ pump with stable level of torque for high process safety
- ✓ sensitive melting process for consistently good results
- ✓ mechanisms to reduce set-up times and increase productivity

REASON TO INVEST

**Entry-level line
with high-standard
process optimisation
and quality**

EasyWrap Window

COMPACT SOLUTION FOR WRAPPING PVC PROFILES



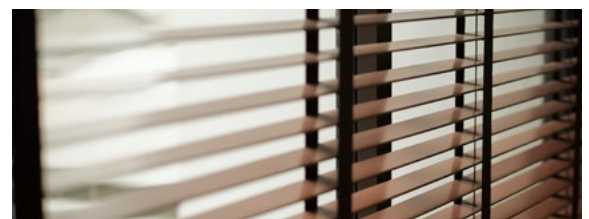
PICTURE: wrapping zone with quick-fix-system and system for quick adjustment of transport wheels

TECHNICAL DATA

- ✓ Working widths 310, 400, 550 mm
- ✓ Profile width 10 - 550 mm
- ✓ Max. profile height 130 mm
- ✓ Speed 5 - 40 m/min
- ✓ Melting capacity up to 30 kg/h

APPLICATION

- ✓ Window profiles
- ✓ Sash bars
- ✓ Other PVC profiles



MultiWrap Window

MULTI-USE PROFILE WRAPPING LINE FOR PVC PROFILES



PICTURE: MultiWrap Window 250S
with double unwinding station and UniMelt 40

Large selection of smart components to increase output and process safety



YOUR ADVANTAGES

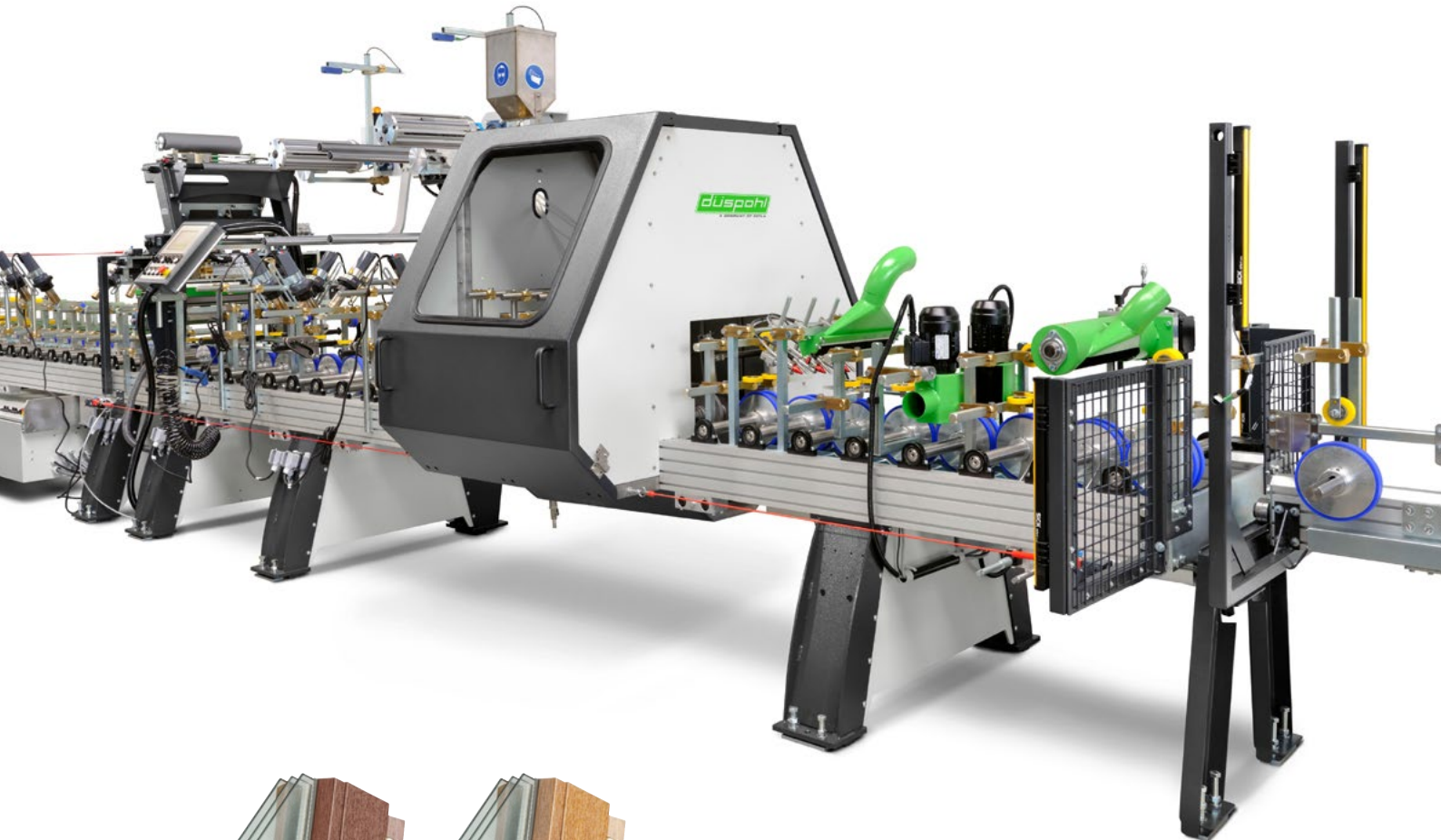
- ✓ Includes Duespohl's internationally-renowned SlotCoater
- ✓ Duespohl exclusive: primer application with vacuum system PrimeStar for homogeneous and streak-free application independent of the profile's geometry
- ✓ Speeds of up to 40 m/min in combination with PrimeStar
- ✓ Solutions to reduce set-up times
- ✓ Also available as a line for simultaneous wrapping on both sides

REASON TO INVEST

Combines Duespohl advantages including patented solutions in one efficient line

MultiWrap Window

MULTI-USE PROFILE WRAPPING LINE FOR PVC PROFILES



PICTURE: Extract MultiWrap Window with cleaning zone, primer cabin and double unwinding station



APPLICATION

- ✓ PVC profiles for windows
- ✓ PVC profiles for other applications
- ✓ also for inline use in connection with extrusion lines

TECHNICAL DATA

- ✓ Working widths 250, 310, 400, 550 mm
- ✓ Profile width 5-550 mm
- ✓ Transport speed 5 - 40 m/min
- ✓ Melting capacity Uni Melt up to 160 kg/h

RoboWrap Window

AUTOMATED PROFILE WRAPPING LINE



Picture: RoboWrap Window 400S with SynCut 150G

Extremely reduced set-up times and consistently repeatable results

YOUR ADVANTAGES

- ✓ Considers shape variation for pressure rollers and transport wheels contributing to use and wearout
- ✓ Consistent quality, thanks to reliable reproducibility
- ✓ Able to teach new profile geometry and prepare job lists at your desk
- ✓ Intuitive language-independent software that uses an easy drag and drop system
- ✓ Correction of roller's position while machine is in production, using a tablet
- ✓ New software calibrates the machine independently
- ✓ Reduction of waste parts since the software memorises the pressure rollers' wear

REASON TO INVEST

**Significant increase
of output, flexibility
and process safety
thanks to automated
solutions in all
components**

RoboWrap Window

AUTOMATED PROFILE WRAPPING LINE



TECHNICAL DATA

- ✓ Working width 400
- ✓ Profile width 10-400 mm
- ✓ Max. profile height 130 mm

APPLICATION

- ✓ PVC profiles for windows
- ✓ Other PVC profiles



Watch the video on robowrap.com
or visit our [YouTube channel](#) and
discover the full potential of the most
advanced software in profile wrapping

DigiApp

DIGITAL DOSING SYSTEM FOR PRIMER
APPLICATION WITH FELT STRIPS



**Constant dosing,
independent of the
line's speed**

YOUR ADVANTAGES

- ✓ Primer does not drip when line stops
- ✓ Felt strips do not dry out
- ✓ Primer consumption can be calculated
- ✓ Intuitive use by touch screen
- ✓ Limit values of solvent emission will be monitored
- ✓ 8 individually controllable dosing pumps for automatic dosing

REASON TO INVEST

**Higher process safety
for reliable results**

APPLICATION & TECHNICAL DATA

- ✓ Dosing of primer, applied with felt strips
- ✓ For VOC-reduced, MCL or MEK primer
- ✓ 8 individually acting pumps, expandable to 16
- ✓ Can save up to 500 settings

PrimeStar

VACUUM PRIMER APPLICATION SYSTEM
WITH APPLICATION HEADS
FOR ALL GEOMETRIES



Set-up time 20 seconds – for all shapes

YOUR ADVANTAGES

- ✓ Peeling values are process safe and repeatable
- ✓ Results correspond to the current RAL-GZ 716
- ✓ Consistently homogeneous and streak-free application of primer, including uneven surfaces
- ✓ Primer does not accumulate in “valleys“
- ✓ Clean processing, no primer dripping
- ✓ Very little space required within the primer application zone (400 mm)
- ✓ Also available as retrofit for existing lines

APPLICATION

- ✓ For applying VOC-reduced, NEP and Pyrrolidone free primer solutions
- ✓ Works completely without felt strips
- ✓ Also available as twin PrimeStar for simultaneous primer application on both sides

REASON TO INVEST

**Maximum process safety and
consistent quality thanks to
homogeneous primer application**

ReelWizard

**AUTOMATIC REEL CHANGING SYSTEM
SPECIALIZED FOR THERMOPLASTIC FOILS**



**Each subsequent profile can be
wrapped with another colour**

YOUR ADVANTAGES

- ✓ Less waste of foil and substrate
- ✓ Reel change during production
- ✓ Higher flexibility
- ✓ Joint placed between two profiles
- ✓ Also suitable for sensitive foils
- ✓ Perfect add-on to boost the productivity of Robo Wrap and MultiWrap Window

APPLICATION

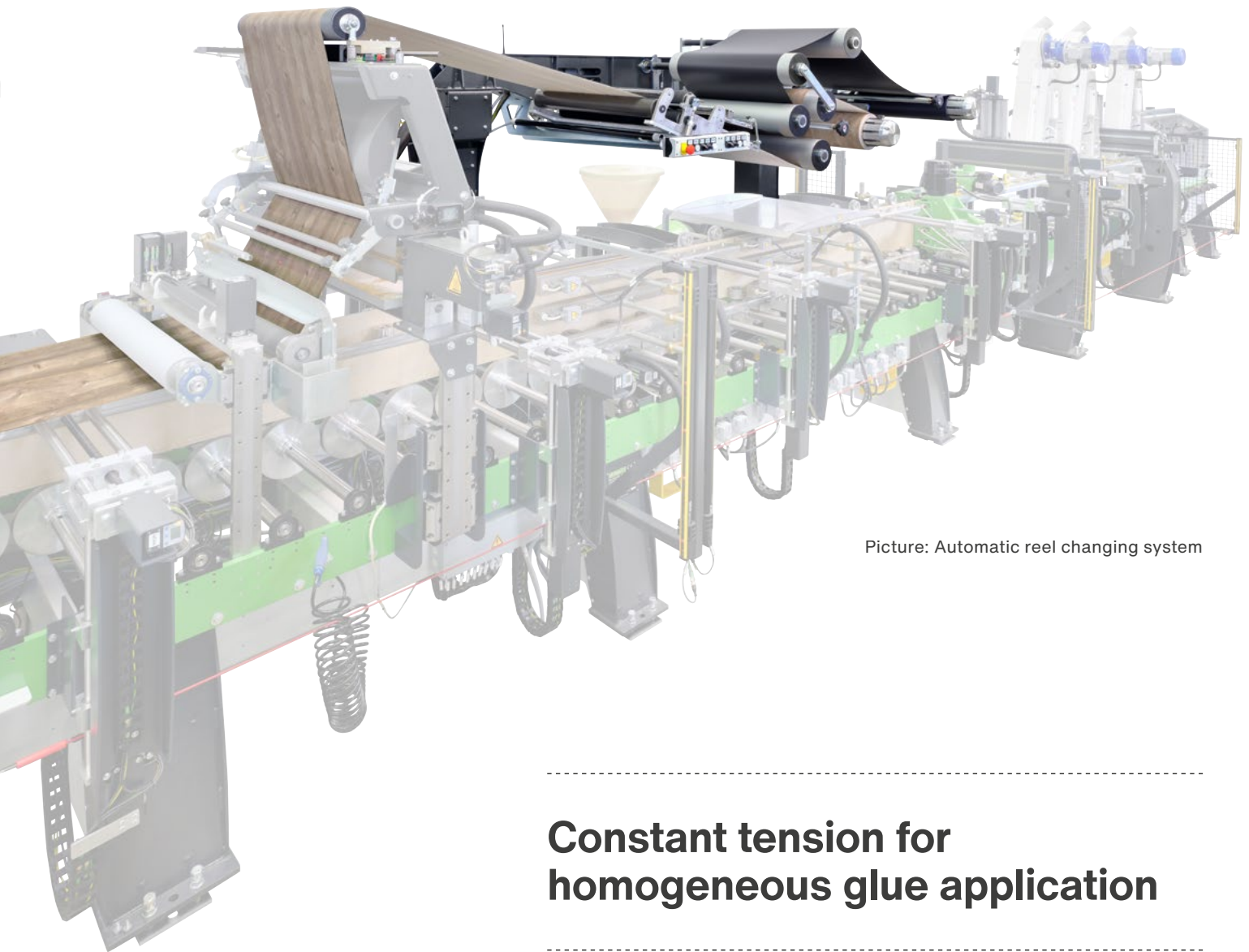
- ✓ For lines that wrap exclusively with thermoplastic foils
- ✓ Available as retrofit component

REASON TO INVEST

**Makes batch size 1 possible:
significant increase in
flexibility and productivity**

Unwinding systems

SINGLE, DOUBLE OR AUTOMATIC REEL CHANGING SOLUTIONS



Picture: Automatic reel changing system

Constant tension for homogeneous glue application

REASON TO INVEST

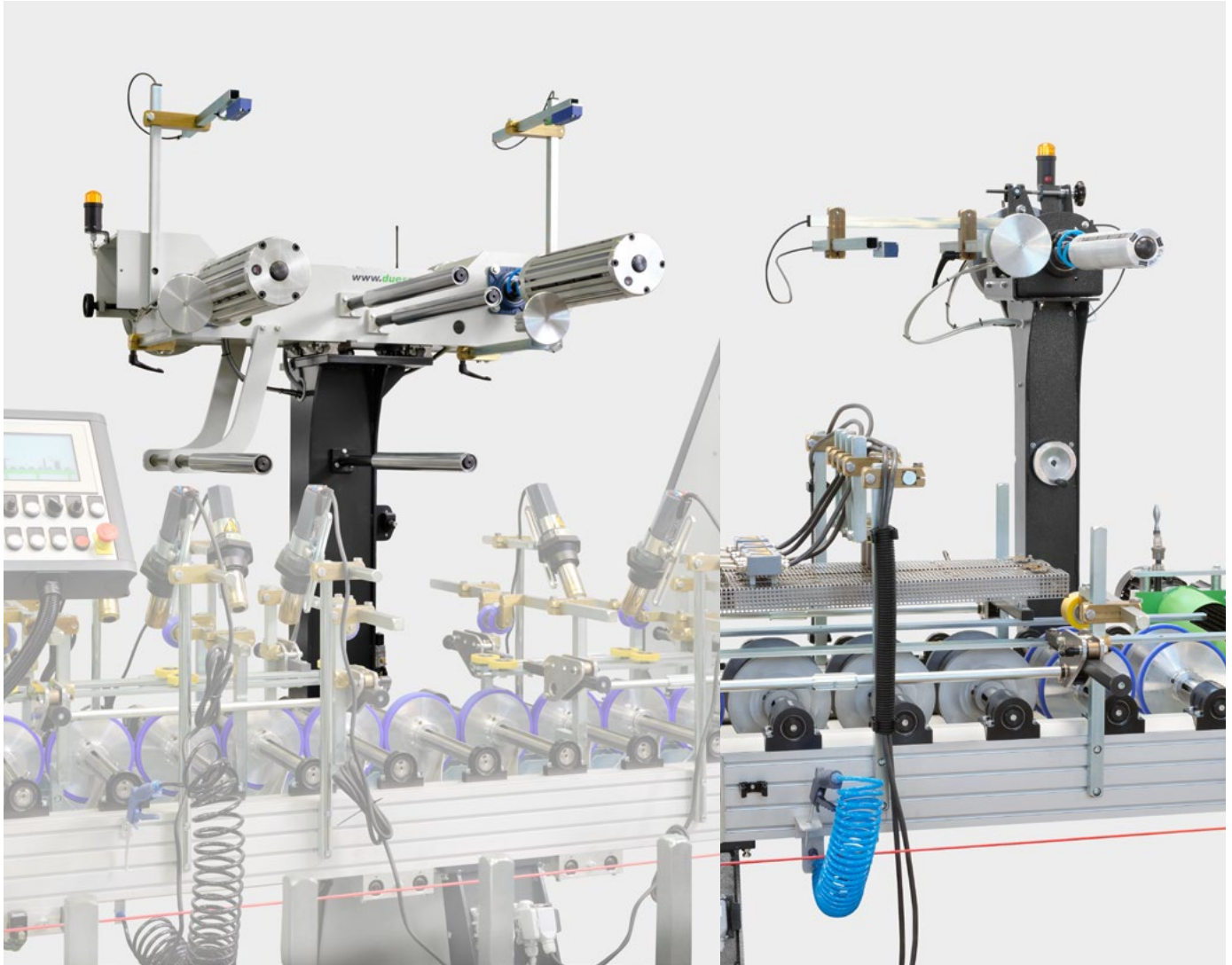
Increase output by 33% by working with an automatic reel changer

YOUR ADVANTAGES

- ✓ High process safety thanks to automatic adjustment of brake
- ✓ No hairline cracks in the acrylic layer of sandwich foils
- ✓ When working with double unwinding station or automatic reel changer: no production stop is required to change surface material
- ✓ Correct positioning of foil on profile
- ✓ Available with web edge control and set-up aid

Unwinding systems

SINGLE, DOUBLE OR AUTOMATIC REEL CHANGING SOLUTIONS



PICTURE: Double unwinding station with manual reel change

PICTURE: Single unwinding station

VARIANTS

- ✓ Single unwinding station
- ✓ Double unwinding station with manual changing system
- ✓ Automatic reel changer (also as a retrofit component)



UniMelt

**PISTON-TYPE PREMELTER FOR MELTING PUR AND EVA
HOT MELT GLUES, IN BLOCK OR GRANULATE FORM**



**Optimal efficiency and viscosity
independent dosing system**

YOUR ADVANTAGES

- ✓ Melts the quantity actually required by the process
- ✓ Refilling without interrupting on-going production
- ✓ Avoids burning the adhesive
- ✓ High availability thanks to low maintenance efforts
- ✓ Top quality anti-stick coating

TYPES

- ✓ UniMelt 40 (on the left-hand side)
- ✓ UniMelt 80 (without picture)
- ✓ UniMelt 160 (on the right-hand side)

Available as a retrofit component or efficient unit in a new profile wrapping line

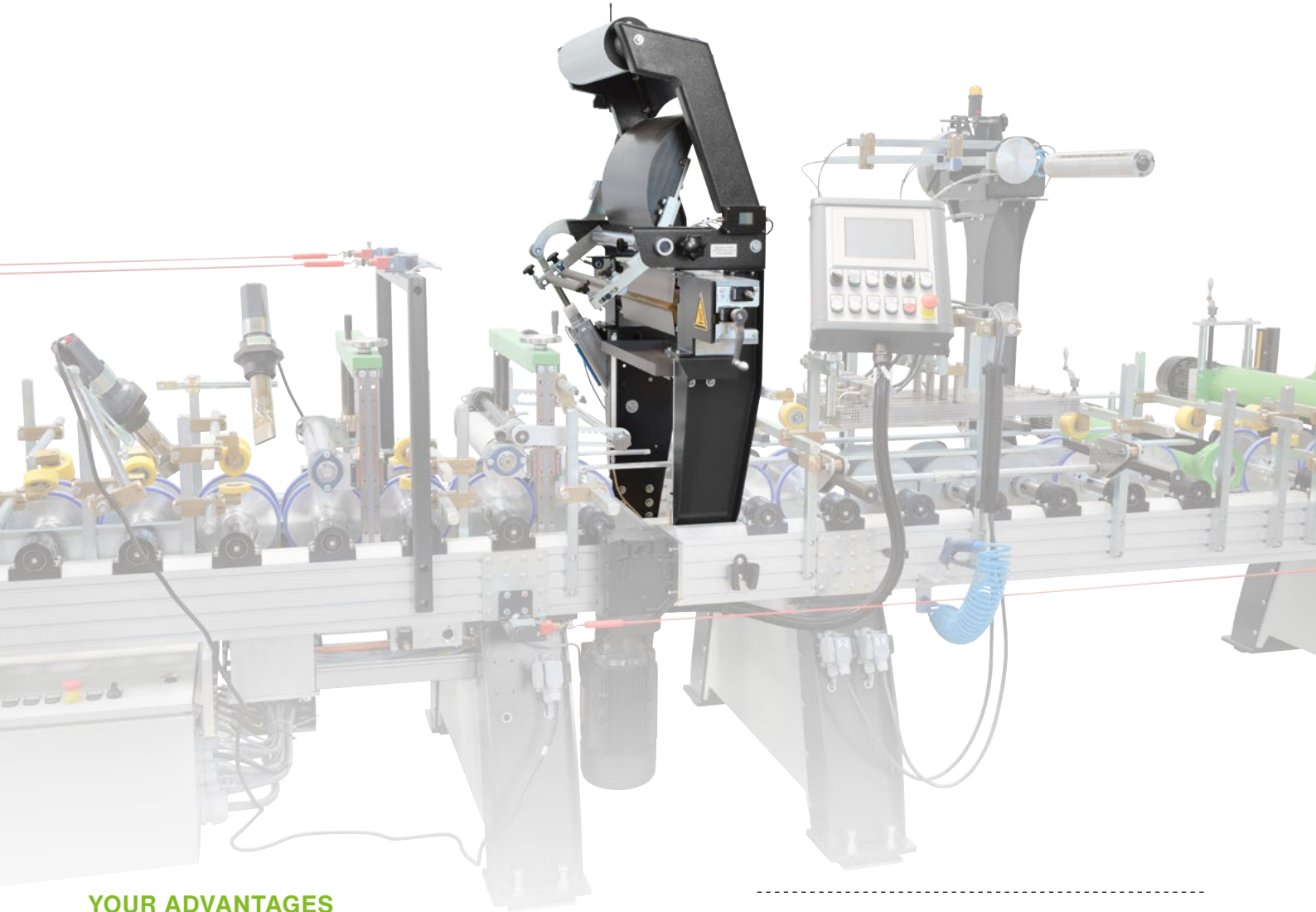
REASON TO INVEST

**100% processing of filled-in glue
at the highest energy efficiency**

Foil Heating System



**TO HEAT UP THE SURFACE MATERIAL TO A SET TEMPERATURE,
INDEPENDENT OF THE FOIL'S CURRENT TEMPERATURE**



YOUR ADVANTAGES

- ✓ Strong bonding
- ✓ Higher process safety
- ✓ Automatic adjustment to varying speed within seconds
- ✓ No thermic deformation of thermoplastic foils when machine stops
- ✓ Extremely low energy consumption
- ✓ Temperature regulation with constant set temperature display

REASON TO INVEST

Glue savings of up to 30%

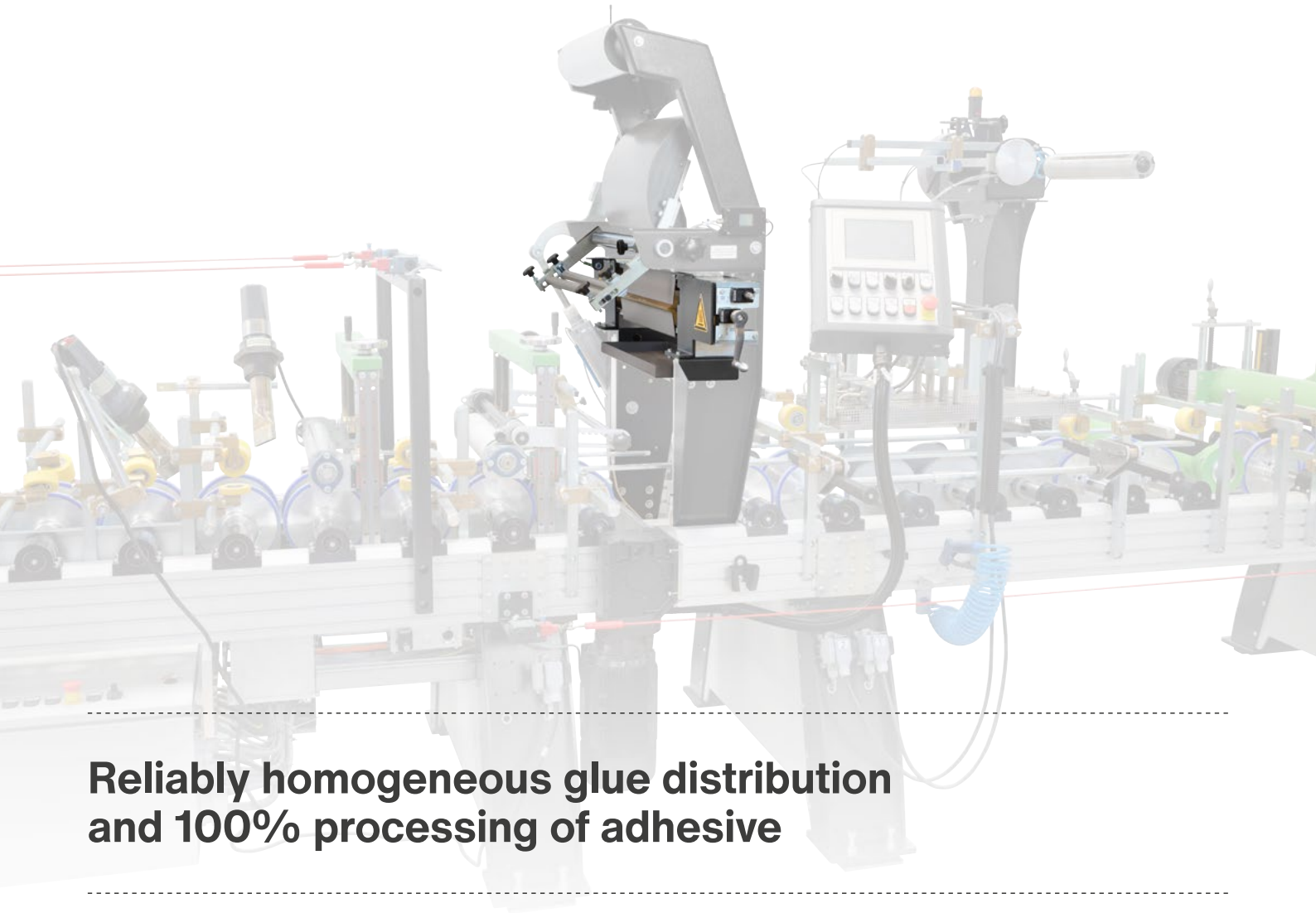
**Better quality
wrapped profiles
at lower expense**

APPLICATION

- ✓ As a retrofit component
- ✓ As a unit on new line
- ✓ For all colours and structures

SlotCoater

PATENTED GLUE APPLICATION SYSTEM



**Reliably homogeneous glue distribution
and 100% processing of adhesive**

YOUR ADVANTAGES

- ✓ Patented design
- ✓ 100% processing of the adhesive within the slot coater's body, independent of the application width
- ✓ Infinitely variable slot nozzle slides (also for eccentric coating)
- ✓ No valves or sealings
- ✓ Mouth pieces are extremely durable and covered with permanent anti-stick coating
- ✓ Exchanging the filter is easy and safe
- ✓ Available with automatic positioning of slot nozzle to the edge of the surface material

APPLICATION

- ✓ Suitable for all surface materials on reels
- ✓ For all wrapping lines from EasyWrap to RoboWrap
- ✓ Also available for laminating lines (PowerWrap Wide)
- ✓ Also available as a retrofit, especially with a high performing Duespohl premelter

REASON TO INVEST

**Long service life and
top-quality wrapping
results for high ROI**

SynCut 150G

CHIPLESS SEPARATION OF PVC PROFILES



**Enables double cut for exact division
without any overhanging foil**

YOUR ADVANTAGES

- ✓ Automated so staff can focus on other parts of the process
- ✓ Works without profile clamping
- ✓ No marks on an already wrapped profile
- ✓ Performs double cut for perfect edges

REASON TO INVEST

**High productivity
working at speeds
of up to 40 m/min**

SynCut 150B

SYNCHRONIZED CUT-OFF SAW TO SEPARATE AND DIVIDE PROFILES



**Highly dynamic
and gentle on surfaces**

YOUR ADVANTAGES

- ✓ High-quality cut
- ✓ Works without profile clamping, no deformations, no marks on the décor
- ✓ Cutting unit runs synchronised to the profile, cuts at full speed
- ✓ Available as a retrofit component to existing wrapping lines
- ✓ Control system recognizes cutting position automatically
- ✓ Ideal cut also when separating low-weight work pieces
- ✓ Up to 35 pulses /minute; works at up to 60 m/ min

APPLICATION

- ✓ Separating and cutting of profiles made from wood and wood composites with small to medium dimensions
- ✓ Comes with second transport belt for profile geometries that require additional stabilisation, like door casings
- ✓ Also available without transport belt
- ✓ Output increasing retrofit component for existing lines or final unit of a new line

REASON TO INVEST

**Great quality thanks to low tolerances
and design without profile clamping**

AutoCut

AUTOMATIC REEL SLITTING AND WINDING MACHINE



PICTURE: AutoCut1600
Equipped with friction winding shafts

Cutting performance of circular knives combined with quick and safe preparations

YOUR ADVANTAGES

- ✓ Automatic positioning of upper and lower knives with a precision of $\pm 0,1$ mm
- ✓ Set-up within few minutes
- ✓ Reduction of hazard potential
- ✓ Constant tension, independent from diameter and width of band
- ✓ Produces hard winding, as well as preventing hairline cracks in the acrylic layer of sandwich foils
- ✓ Comes with friction winding shafts to make sure reels will be rewound with uniform tension, independent of their individual widths

A SMART INVESTMENT

**More sellable
profiles thanks to
repeatable and precise
results in cutting
surface material**

AutoCut

AUTOMATIC REEL SLITTING AND WINDING MACHINE



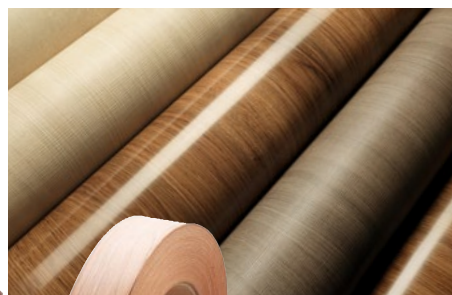
PICTURE: AutoCut1600 -
Unwinding station

TECHNICAL DATA

- ✓ Working widths: 700, 1600
- ✓ Connection to your network to allow exchange of data
- ✓ Material thickness: 0,5 mm, depending on the material
- ✓ Width of reel max.: 1600 mm
- ✓ Width of reel min.: 150 mm
- ✓ Reel diameter max.: 700 mm

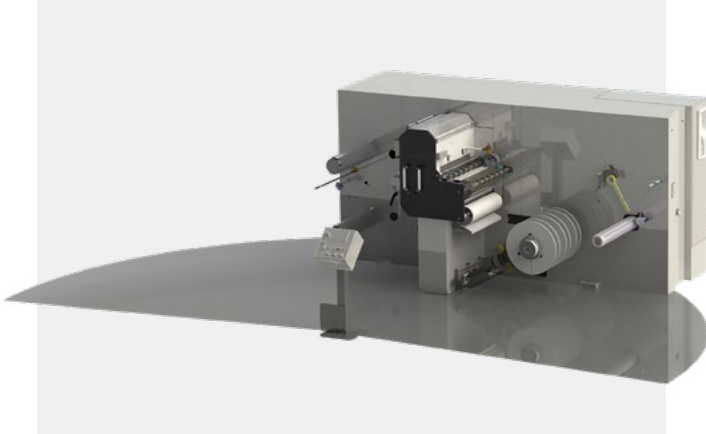
SUITED FOR CUTTING

- ✓ PVC, PP, PE, PU, sandwich foils, laminates, some textiles, metal foils



EdgeCut

REEL SLITTING AND WINDING SYSTEM FOR EDGE MATERIAL



Automatic knife positioning leaves more time for production

YOUR ADVANTAGES

- ✓ Extremely short set-up times
- ✓ Excellent rewinding quality thanks to constant tension
- ✓ Programming of cutting widths via touchscreen
- ✓ Highest precision
- ✓ System to secure constant speeds

REASON TO INVEST

Maximum process reliability and safety

APPLICATION

- ✓ Edge material made from ABS, PVC, PP, paper, thermoplastic foils, laminate or fleece-backed veneer

TECHNICAL DATA

- ✓ Material thickness: 0,2 – 2 mm (depending on material)
- ✓ Reel width: 70 - 700 mm
- ✓ Maximum reel diameter: 700 mm

Service

Excellent service in all phases of the projects - and later, including after-sales service



Competent advice
by our seasoned
Sales Engineers



Qualified service technicians
expertly install your line
and provide on-site training



Every line is tailored
to your individual application



Lines designed
for high production volume



Remote support
for fast assistance



Low maintenance
requirements





Carlo Coralli

COUNTRIES

Balkans, Central America, France, Greece, Italy, North Africa, Portugal, Romania, Spain, South America

CONTACT

carlo.coralli@cefla.it



Benjamin Demirel

COUNTRIES

Benelux, China, Czech Republic, Egypt, India, Ireland, Japan, Middle East, North & West Germany, Slovakia, South East Asia, South Korea, Taiwan, Turkey, UK

CONTACT

b.demirel@duespohl.com



Andreas Jäger

COUNTRIES

Austria, Canada, Poland, South & East Germany, Switzerland, US

CONTACT

a.jaeger@duespohl.com



Duespohl Maschinenbau GmbH

An der Heller 7-13
33758 Schloss Holte-Stukenbrock
Tel. +49 (0)5207 9291-0 Germany
www.duespohl.com

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