

IMPROVENESS TECHNOLOGICAL DEVELOPMENTS

no.2 - year 2007









Dear Sirs, in a period of more and more intense globalization, with the not always positive consequences it involves in terms of quality assurance, COLINES® pursue a policy based on the traceability of components so as to assure the reliability of the extrusion lines supplied.

For this reason, unlike some of our competitors who often buy mechanical parts and components in extra-European countries where quality is not guaranteed, with the mere purpose of proposing more competitive prices, COLINES® relies on Italian suppliers with proven experience, for the most part located within 40 km from our premises.

Our internal quality control, accurate and rigorous, and the procedures certified according to the standard UNI EN ISO 9001:2000, are a further guarantee for the supply of a product for which the "made in Italy" mark stands for state of the art technology and safety for us and for our customers.

THEE CORNER CORNER

The human image, a subject going through the history full of symbolic values, in particular the portrayal of the female nude, archetype of the "creation", is a steady and sound theme of the artwork of Cristian Pironato.

Name: "Torsione Plastica"

Dimension : 350 x 200 - h. 300 cm.

Material: Colored metal

continue page 11





the name is actually new. The object of this operation is the merger of Gruppo Colines® Srl and Colines PP&P® Srl, already belonging to the same owners and to the same industrial group and active since the early 70's. The newborn company, COLINES® S.p.A develop its activity in two factories located nearby Milan and Malpensa airport. Colines® Novara factory (on the top) design and manufacture big-size cast lines and special projects, while Colines® Azzate factory specializes in the manufacture of the innovative cast stretch film line HANDrollEX®, of air-bubble film lines, blown-film systems and equipment for the production of magnetic gaskets for refrigerators. The rationalization process is nowadays commonly associated to situations of decline; on the contrary this merger has got a strategic importance for Colines® as it places the customer in a priority position. With a presence in the field as a unique subject, and with a work flow constantly monitored by the internal quality system, customers and suppliers receive quick replies, better service and above all effective and fast after sales assistance. An example of this priorities is the investment in a protected data transmission line putting through the two facilities, far from each other, as if they were a unique structure. Colines® Extrusion Lines avail themselves of the best suppliers all over the world. All of our machines are designed, manufactured and assembled in Italy.



top: cast line for CPP film, web width 4500 mm. In assembling bottom: view of the green area around Colines® Azzate factory



COUNES cast > stretch

*HANDrollEX®

Extrusion lines for the production of cast stretch film. Manual use (hand rolls) and Automatic use (machine rolls)

www.colines.it/colines/cast_handrollex.aspx

Recovery of the waste

Another plant of the **HANDrollEX®** series for the **in-line production of hand rolls and machine rolls** of stretch film has been sold in these days in North Africa. This 1000 mm wide line is equipped with automatic die and thickness adjustment system. This series, introduced to the market in the first half of 2006, has proven to be a success as it allows a remarkable saving in terms of investment and a very **fast amortization**. This line has got a unique conception as it is the only one that permits the suction of trimmed edges even when they account for over 30% of the film produced: this means a **total recovery of the waste!** The consumption of stretch film for manual use is booming and the exceptional versatility and productivity of the line make its use ideal for the future years.







HANDrollEX® stretch film line presented on the USA market

Colines® programme of events included a table top at the **Stretch Film Conference 2006 in Atlanta**. This decision has been motivated by the interest aroused by the HANDrollEX® stretch film line and by the large number of lines already sold. In fact converters from overseas countries have shown great interest in the topic. The **special winding system**, producing in-line stretch film reels for manual and automatic use, as well as the line performances have attracted a lot of attendees so much that in the next few months the first line for the south-American market will be delivered. Description

COURSE CO



we have participated in more than 20 events among exhibitions and conferences, in which we have presented reports on stretch film, barrier film, CPP and Bubble Guard®. in conferenc

Gabriele Peccetti, Colines® area manager, will present a paper at the Stretch Film Conference in Barcelona (Spain) next May 2007, with a more exhaustive illustration of the HANDrollEX® technology. At the moment two lines are in manufacture at Colines® factory, destined one to the Central European and one to the North European markets.



****HANDrollEX**®

Extrusion lines for the production of cast stretch film. Manual use (hand rolls) and Automatic use (machine rolls)

www.colines.it/colines/cast_handrollex.aspx



HANDrollEX® on the go

The second line, on a total of 12 already sold, of the HANDrollEX® series has been delivered to an Italian customer and is already in full production, with a 1000 mm width and a production speed of more than 500 m/min. A twin line is at the moment under manufacture and is expected to be delivered to the same customer within the end of October. Both lines are equipped with automatic thickness adjustment and produce reels for manual and automatic use, directly in-line. Colines® reliability and the spirit of collaboration with our customers that characterize our reality has generated significant improvements in the manufacture in this range of machines for the production of stretch film. As a result this version is suitable not only for small-size producers but also for large-size industries.

KEEP YOU UPDATED! VISIT www.colines-stretch.it

Simplicity and modular solution for HANDrollEX® delivered in North Europe

Thanks to the **modular design** studied for the series of HANDrollEX® extrusion lines, transportation, assembly and relative start-up of the machinery prove to be extremely **quick and economical**. In confirmation of this concept, a HANDrollEX® 1000 line just installed in the premises of a North-European customer presents the extrusion platform module with integrated electrical boards and thermoregulation unit.



The study of this series of extrusion lines was started with the precise aim of offering a product easily adaptable to the

diverse production requirements, such as for example the ever-increasing cost per square meter of industrial buildings, or the **full exploitation of already existing production units**. As a matter of fact it is possible to place the extrusion line adapting it to spaces where it would be hardly possible to find room for conventionally conceived machinery.



The winding system, moreover, allows an even larger functionality, since with the same structure it is possible to use 2" and 3" cores, for a 2000 mm wide line is possible to place no.2 1000 mm winding modules side by side, and in addition to **modernize** already existing lines with this innovative winding units. 16007

COURT, CORREL CO

Stretch film conference AMI The AMI Stretch Film 2006 conference was held in Colonia from May 8 to 10. This Conference turned out to be very motivating and well organized, featuring major speakers both in the raw material and in the line manufacturing fields. At the table top dedicated to Colines® it has been possible to see the latest novelties in the field with the HANDrollEX® 1000 and 2000 lines and the JUMBOrollEX® 2000 and 4000 lines, obtaining a significant success and interest from both the major industries in the field and small converters mainly interested in the HANDrollEX® 1000 mm version.

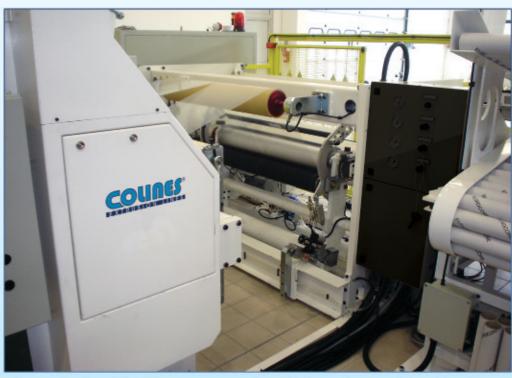
****HANDrollEX**®

Extrusion lines for the production of cast stretch film. Manual use (hand rolls) and Automatic use (machine rolls)

www.colines.it/colines/cast handrollex.aspx

Precious seconds...

One of the latest machines designed and realized by Colines® is a modular type winder for stretch film. This innovative equipment, first applied in the HANDrollEX® lines, is able to wind up 2" and 3" reels both for manual use and for machine use, with a complete change cycle of just 18 seconds, an extremely valuable feature in these complex production processes where speed has become an essential factor. This is the only line in the world that allows to produce film with useful width of 900 and/or 1000 mm with the possibility of in-line cold recovery (as ground film) the approximate 500 mm of edge trims with a negligible cost. The possibility to set the length of the wound-up film on the single reel, and an easy and quick shaft change operation make it possible to achieve a flexible, on demand production.



The winder can be supplied with an integrated system for the reel handling, to prepare pallets with the reels arranged in cardboard boxes. The modularity of this machine make it suitable and functional also for the **expansion and the modernization** of existing extrusion lines. Colines® does not only provide the most advanced technological solutions, but also reliability and constant assistance.

CONNEL CO

HANDrollEX® stretch film line do you need something more?

Production speed of more than 500 m/min, total output of up to 1200 kg/h (for the 2000 mm. version), both 2" and 3" cores for manual and machine rolls: these are the main features that make HANDrollEX® one of the top extrusion machine on the market. This line is **completely automated**: the reels stored in the rack are loaded on continuous operation on the rotary shafts of the winder, which unloads the wound-up reels on a palletizer, thus completing the production cycle. The time required to wind a hand roll is of 18 seconds, whilst for the machine roll it is of 180 seconds. The advantages of the HANDrollEX® line can be summarized in 4 significant points:

- 1-Production of hand rolls and machine rolls without further processing machinery.
- 2-Attractive machine cost as a result of the excellent price/quality ratio.
- **3-**Low labour cost thanks to a balanced automation which permits the line running with one operator only.
- 4-Saving on investments for the installation building as a result of the new modular layout. decide



BARRIERCAST®

http://www.colines.it/colines/cast_barriercast.aspx

The Power of Synergy®

Our group of companies is very peculiar, boasting a **unique structure** embracing both machine manufacturing and film production facilities. As a result we can demonstrate our knowledge not only in the machine manufacture but also in the production processes. In fact, we are **leading manufacturers** of high-technology extrusion lines which are installed at the major producers all over the world, including the production facilities belonging to the group, which in a few years have gained a **leading market position in Italy** in the barrier and CPP film, as well as Bubble Guard® and Ondubol® products. As you can understand, our expertise is not merely limited to machinery 'hardware', but is also enlarged to include the **film production**, as a result of the exchange of information between the associated companies, thus permitting our products always to represent the state of the art. In addition, as a further significant and undisputable benefit for our customers, we are in a position to **supply together with the extrusion lines** also the know-how, the choice of raw materials, formulations, structures and applications, workforce training as well as the possibility of pre-marketing campaigns.



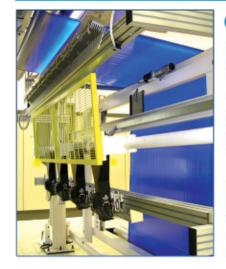
COURSE CO

Cast coex line in South Africa

A Barriercast® coextrusion lines to produce 5-layer film with encapsulation, DITTERING® and REFESAVE® techniques has been shipped to a customer in South Africa. This line is dedicated to the production of 5-layer barrier film and CPP film with a useful width of 1700 mm and a production output up to 250 m/min. **sq*D**



visit also the dedicated web site www.barriercast.com



Optical web control

In the controlled environment of the new production facility, B-Pack® has installed the new 5-layer cast film line Barriercast®, supplied by Colines® with a width of 2000 mm and a throughput up to 3500 tons/year. Among the innovations the line boasts a film inspection system with cameras signalling even the slightest imperfections in the films produced. This investment is aimed both at increasing the productive power with a further improvement in the delivery times, and at safeguarding our customers more and more with the film inspection system.

Conferences 2006, Pagev and Speciality Plastic Film

Natale Ferioli, area manager of Colines®, took part as speaker to the conference Pagev 2006 in Istanbul- Turkey, at the end of November 2006. Theme of the report was an accurate presentation of the results we got in the production of barrier films with Colines® 5 and 7 layers Barriercast® lines. With more than 10 lines of the Barriercast® series working all over the world, Colines® allowed to many companies to make their production highly profitable. In fact, thanks to the owner systems DITTERING® e REFESAVE® a reduction of up to values close to 3-5% of the gross product is possible. Please remark also our presence with a table-top at the conference SPF 2006 in Düsseldorf on last October 2006. mov 06



BARRIERCAST®

www.colines.it/colines/cast_barriercast.aspx



Barriercast®, top-technology in the production of barrier film

In the early 90's Colines® had the feeling that the multilayer barrier film would exceptionally grow for complex applications in fields such as foodstuff, medical, pharmaceutical packaging, etc. Also, Colines® realised that the technology available at that time was not appropriate for the production of good quality barrier film, even with low cost-effective aspects due to **high incidence** of the lateral trims which cannot be recovered. The critical factor substantially conditioning the production costs and thus sales difficulty was since the very beginning identified as the percentage of scraps. As a consequence we developed new technical and technological solutions targeted to **scrap reduction**. In 1998 the first applications involving scrap reduction were developed and tested. In 2002, after several trials a technique has been achieved,

which permits to recover in line the material originally considered production scrap. Still nowadays our competitors are offering 7 and 9 layer cast film lines, equipped with encapsulation system but nonetheless giving no production guarantee. This is the evidence that without **specific experiences** it is practically impossible to obtain an effective fine-tuning of this system. Colines* obtained excellent results in finalizing the encapsulation process with the **Dittering**® system, exclusively with the support of the sister company B-Pack® that taking advantage of the film production activity has gained over the years a deep knowledge of raw materials and developed the know how for barrier film production. The experience accumulated over the many years of activity in the manufacture of cast extrusion lines and the **close synergy** with Companies such as Cloeren Inc. and Electronic Systems, giving a valuable contribution to meet this sought-after goal with their specific technical and technological expertise. On the market such a high synergy level is impossible to find and the results are evident and available for the benefit of all converters. The advantages of this system are evident and significant. The economic saving is estimated around **1 million Euro/Year** for a 2100 mm line. The current year 2007 has seen the achievement of more than no.10 Barriercast® 5 and 7-layer in operation worldwide, fitted with up to 8 extruders, encapsulation, Dittering® and Refesave® systems and Combiwind® winding station. Colines®, as only manufacturer in the world, ensuring the **maximum cost-effectiveness** of the process by reducing the scraps even to values close to 3-5% of the gross product. Colines® SpA is a noted manufacturer of extrusion lines for the production of cast PP films, cast barrier films,



BARRIERCAST®

www.colines.it/colines/cast_barriercast.aspx

Production of high quality barrier film

Chemton, leader in South America for the production of plastic films, preferred Colines® as technological partner to enter the world of the high quality barrier film production. The purchased machine is a seven layer extrusion line with useful width of 2100 mm of the Barriercast® series, fitted with the proprietary techniques Dittering® and Refesave®, as well as with the patented winding group Combiwind®, Cloeren feedblock and die and measuring unit from Electronic Systems. This line was exhibited at the Chemton factory with a dedicated open house. The excellent organization of the event has attracted a lot of customer and experts in the field, which had the opportunity of seeing the line in operation, representing the state-of-theart in the barrier film production. With this new line the company Chemton has further strengthened and developed its leading market position.





POLYCAST®

www.colines.it/colines/cast_polycast.aspx

European Plastic Product Manufacturer (www.eppm.com) Interview Me & My Machine

What kind of equipment do you currently have?

B-Pack Due® has installed a dosing system for raw materials with 32 silos, three Colines® extrusion lines. three slitters and two monofolding units.

How many Extrusion Machines do you currently

Our extrusion zone is composed of three Polycast® CPP extrusion lines: one of 2700 mm and two of 4500 mm. The latest line put into production, 4500 mm wide, has recently replaced another Polycast® 2700 mm line and increased the overall production capaci-ty to 25,000 - 30,000

Do you have machines from different suppliers or do you only stick to one brand?

We have installed only extrusion machines manufactured (belonging to Gruppo Colines/8 Holding). B-Pack Due®, established in 1997 as

Why was the new machine purchase necessary?

The B-Pack Due® strategy since the very beginning already planned for the instal-lation of three lines in operation to get the Italian market leadership. The growth of the Italian market in these last years permitted in fact to increase our production capacity by replacing the two 2700 mm machines with two high-capacity lines boasting a width of 4500 mm. The decision of replacing the last line was taken in 2005 with a forecast of starting the production during the second-half of 2006

What particular features were you looking for in this new machine?

Considering the positive experience of the first 4500 mm wide line, installed in 2004, also for this new installation we have searched high reliability in order to ensure high performances and quality of the produced film, combined with a minimum stop requirement for maintenance.

Client Portfolio

Name: Mauro Ulivi

Job Title: President

Company Name: B-Pack Due® S.p.A.

Location: Campiglia Marittima fraz.

Venturina (LI)

Company Activity: Cast Polypropylene film

Turnover: 30,5 million

Number of Employees: 90

Name of the Line: Polycast®

Supplier: Collines® Extrusion Lines

Me & My

Direct download on EPPM web site:

http://www.eppm.com/img/static/MMMcolines.pdf

part of B-Pack® Holding (whereas Gruppo Colines® Holding and B-Pack® Holding belong to the same owners) has gained a leading position in the Italian market in the CPP film production thanks to the synergy developed between the two groups.

What do you produce?

As mentioned above, we produce coextruded polypropylene film with cast process mainly destined to food lamination, pet food lamination, medical lamination, twist for metallisation, neutral or coloured, CPP for bags and special applications.

Qualified to any QS/QA

B-Pack Due® is certified ISO 9001 since 2001.

How many shifts do you run?

B-Pack Due® since the very beginning has fully exploited the capacity of the installed machines, organising the work on 3 daily shifts and 7 days a week

What type of machine is it?

The Polycast® CFC/450 line is characterised by:

- Useful width of the net film of
- Max reel diameter up to 1200 mm
- Max production speed up to 350 m/min (depending on
- product thickness)
 Max production per hour up
- to 2400 kg/h Extrusion zone composed by 4 extruders; 2 of 180 mm and
- 2 of 130 mm Cloeren automatic 5-layer die and feedblock
- Electronic Systems double scan thickness gauge and Mero corona treatment
- Dual trimming system
- Jumbowind®

Why did you choose this

My collaborators and me have always been very demanding in defining the quality perform ance of the production lines and this brought B-Pack Due® to a leading position in the

MACHINE



Italian market in a short time. Colines® has supplied to us competitive machines from the beginning implementing over the years many technical innovations, as a result of the previously mentioned synergy

CONTACT DETAILS

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8839 8321 486 311 Fax: 0039 0321 486 355 Email: Info@colines.it Web- www.colines.it

POLYCAST®

http://www.colines.it/colines/cast_polycast.aspx

True quality at 350 m/min not only do we listen.. we also provide!

Colines® has introduced **new technological improvements**, designed by its engineering staff, in
the new Polycast® extrusion line for the production of
4500 mm wide CPP film. The expected performances
of this new version are very impressive: a mechanical
speed of 400 m/min and a **production speed** up to
350 m/min, with a net throughput up to 2400 kg/h,
depending on the type, thickness and structure of the
film. It must be highlighted that such throughput and
speed values do not affect the quality of the film
obtained, which is **excellent** for all the specific
applications demanded by the market.



COURSE CO

visit also the dedicated web site www.air-bubble.com

Air-bubble film line in Saudi Arabia

The test run of the air bubble line type Stec/160-S for the Middle East market has been successfully completed. The customer's choice was Colines® since the beginning as it was considered the only company on the market to guarantee the suitable technology and performances for a **reduction of the cost** incidence per product kilo. The line, with its **compact layout** is equipped with an extruder diam. 100 with high capacity screw. It is additionally equipped with 2 motor driven double unwinders for **in line lamination** on a thermoregulated unit. The customer needed to produce also light film, laminated and not, and during the tests we achieved high-quality productions with **40 gr/sgm air-bubble film**.



Among the noteworthy features of this line, it is worth mentioning the **automatic** turret winder with two axes, roller unit and in-line cutting, and the edge trim suction system for in-line recovery, equipped with a **video inspection** system. Colines® is the leading manufacturer of extrusion lines to produce air bubble film. With more than 200 lines sold all over the world and more than 35 years of experience in this field we can guarantee quality, performance, assistance and reliability.



COUNTS cast > stretch + CPP

UNICAST®

www.colines.it/colines/cast_unicast.aspx

Production flexibility

Unicast® is the series of Colines® cast extrusion lines which allows to produce with the same line both stretch film and CPP of high quality. The possibility of diversifying the production campaigns makes of this plant the ideal line for all the small and medium companies which need to cover various markets but which have limited budgets at their disposal. The Colines® quality standards include also for this kind of line modern technological solutions with different sophistication levels such as: automatic dies, gravimetric dosing systems, beta, X-ray or infrared thickness measuring units, fully automatic winding stations with gap, contact and axial mode, with automatic load of the shafts. The extruders with screws of new thread form grant a perfect homogeneity of the materials together with a high productivity. The cooling section of the film allows furthermore such a precise control of the temperature in order that films with very good mechanical and optical characteristics can be obtained. The Colines® system for trim recovery Refesave®, allows moreover to reprocess in line the edge trims of the polyolefin materials, polyethylene and polypropylene, with high efficiency in both cases. The Unicast® series was born thanks to a study of the Colines® internal market, which showed the economy of this line particularly in the quick development countries. party





COURSE COURSE

3-5-7 layer Blown Film Extrusion

Colines® Extrusion Lines recently commissioned a new 5-layer BARRIERBLOWN® line with a re-designed die, that offers a major step forward in rheology. From the outset it was clear that the design goals had to be; further reduction of the thermal mass and physical dimensions (thus saving energy and building height); improve the flow characteristics and reduce residence times; increase the flexibility in processing resins of fundamentally different nature; enhance the individual layer tolerances. The result is an outstanding tool, which fulfills the expectations better than previewed. The obtained tolerances can be considered amongst the best in the industry, on par with the guarantees claimed by other manufacturers. The same end effects are to be taken for granted for the 7-layer blown film die, where layers of two micron thickness are feasible under optimum conditions. Availing ourselves of the same, undisputed experts that were responsible for the successful barrier blown-film die, Colines® Extrusion has set out to design a complete range of 3-layer dies for mostly high end blown-film applications. Where in case of the barrier film dies the accent is mostly on quality and not so much on volume, the 3-layer dies (and the 5-layer dies for non-barrier applications) will be designed around both

BARRIERBLO

www.colines.it/colines/prodotti_blown.aspx

Hi-performance 5-layer Barrierblown®

A new BARRIERBLOWN® line with a web width of 1700 mm has recently started at B-PACK® the production of a 5-layer coextruded barrier film. This new machinery boasts higher performances than the previous ones, and is also equipped with thickness measuring system and a corona treatment station. The feedback provided by B-PACK®, producing barrier film up to seven



layers, is one of the most precious factors of the significant experience acquired by COLINES® in the blown technology. The minimum thickness of the film produced is of 24 micron with sigma ± 0,7, with a central barrier layer of 3 micron of EVOH, suitable for food packaging as well as medical applications. The net hourly throughput is of 400 kg/h. ==v/bs

New member in Gruppo Colines® Holding



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Elay, historical and exclusive supplier of Colines® for the

automation of extrusion plant, has joined the Gruppo Colines® Holding. This integration has got the purpose of continuing to offer a more and more tailor-made service to the Colines® customer. Elay stands out in the automation sector for its field-proven technology that is applied in the electrical and electronic design and in the subsequent installation. The tight cooperation between the two companies, which begun in 1980, allowed notable

user-friendliness. For the future therefore ELAV will flank Colines® as official partner in the more and more specialized market of extrusion machinery. 66/07

helped improving the reliability of the extrusion lines and their

COURSE CO

...con'd page 1 The artist is focusing his the body, born from its torsion around a if we can say, that is really appropriate to own professional formation on the study "classics", bearers of purity and perfection, but nonetheless creating really modern "shapes". These shapes seem to be hanging in an archaic past whilst projected into the future. This artwork is expanding on a further "fusion";

is generating in itself a screw. path along its metamorphosis, thus underlining the concept of 'technology produced by the

be a symbol of Colines®, which is not only "mechanical process", where the material a plastics machinery manufacturer, but undergoes a also a company producing and caring for the technology itself for plastics production. Like a ring closing where the man'; it is not by chance that the final product man is acting as a go-between and is coming out the joint hands. A "metaphor", superintends all phases of the procreation.



high flow rates and quality. For obvious reasons the quality needs to be maintained, since high quality does fetch slightly better prices, even in the difficult commodity markets. However, high production rates do have a very positive impact when it comes to cutting down the per-weight-unit cost of producing films, so ample attention will be dedicated to this aspect. High quality and high quantity are definitely not in contradiction with each other. Both can be obtained in the same die, provided they are designed in from the beginning. It all has to do with shear rates and pressure drop of the resin melts on their way to the die lip. In simple wording, a die designed for high flow rates will not yield good films at low flow rates, owing to the rheological characteristics of the melt. On the other hand, if one tries to push the output on a die that was not designed for this purpose, the resins will suffer badly in view of the higher shear rates. They will overheat, degrade and produce very poor overall thickness tolerances, mechanical characteristics, etc., phenomena often experienced by many. The newly designed IBC air passages for the 5-layer BARRIERBLOWN® die offer more than enough breathing space to allow for a very high air exchange rate that, in combination with an excellent air ring design, is needed to cool down important volumes of films of various nature. Depending on customer requirements and preferences, the new range of 3—layer dies will be available with a gauge tolerance control system based on heater cartridges integrated in the external die lip, or they can be delivered with a standard female die lip to allow the end-user to employ a gauge tolerance control system incorporated into the air ring design. Colines® plans to manufacture a first complete 3-layer POLYBLOWN® line in 2007, which will then be available for interested parties to view in operation. Our readers will of course be informed of this event through our newsletter system and information bulletins from our local representatives. msrv2



Worldwide sales network

ARGENTINA - Comercio Digital

N KRUK juan.kruk@comerciodigital.us juan@kruk.us

BIELORUSSIA - Variant

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RUSSIA - Variant

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Our Web Sites

www.colines.it www.colines-stretch.it www.polycast.it www.barriercast.com www.air-bubble.com www.bubbleguard.com www.weldingmachinery.it

Keep yourself updated!

Colines® news is a free monthly newsletter having the intent of keeping you constantly updated on innovations and technological developments of those companies belonging to Gruppo Colines® Holding. The target of our newsletter is to inform without causing any "inconvenience" and without invading your mailbox. Accordingly, this newsletter will be issued every month, easy and quick to download and providing immediate understanding. Register now at www.colines.it/colines/servizi_newsletter.aspx

Conferences & Exhibitions

--- Arab Plast 2007 - Dubai, UAE ---

--- Upakovka-Upak Italia - Moscow, Russia ---

--- Saudi Plas - Riyadh, Saudi Arabia ---

--- PEPP 2007 - Zurich, Switzerland ---

--- Meccanoplast 2007 - Gyula - Hungary ---

--- Multilayer pack. film - Colonia, Germany ---

--- Plastica 2007 - Salonicco, Greece ---

--- Brasil Plast 2007 - Sao Paulo - Brasil ---

--- AMI stretch film - Barcellona, Spain------ China Plas 2007 - Guangzhou, China ---

--- Goplast 2007 - Angers, France ---

--- **2007** - Dusseldorf, Germany ------ Plastivision 2007 - Mumbai, India ---

Used as New

The Used As New Colines® service has been created with the specific objective of ensuring to customers the greatest reliability and cost-effectiveness. The lines are completely revamped and restored to the original production conditions after passing severe control and upgrade tests to the single components, in particular:

- Automatic replacement of all those components for which spare parts

Complete disassembly of each machine component up to the supporting framework.

Check the current availability of second-hand machine directly on: http://www.colines.it/colines/usato.aspx