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1.9 Series LA 40-Z, LA 50-Z  
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3.2 LEC (Lanco Energy Control)  
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4.1 Bag discharging frame  
4.2 Octabin overturn frame  
4.3 Storage container  
4.4 Storage bin  
4.5 BIG BAG

LANCO GmbH  
subject to modifications  
01.11.2011
Trocknen
Drying
energiesparend
energy-saving

Dosieren
Dosing
exakt
accurate

Fördern
Conveying
schonend
gentle

Kristallisation
Crystallisation
wertschöpfend
value creation
Zuverlässige Trocknung der eingesetzten Rohstoffe ist für viele Verarbeiter inzwischen zwingende Notwendigkeit. LANCO verfügt über ein komplettes Programm von Trockenrichtern und Trocknluftherzeugern, mit dem Trocknungsanlagen für jeden Bedarfssfall realisierbar sind.

Für die meisten Anwendungen im technischen Spritzgut reicht einfache Warmlufttrocknung nicht mehr aus. Aufbereitete Trockenluft mit geringstmöglichem Wassergehalt gewährleistet bei entsprechender Verweilzeit Restfeuchtigkeit des zu verarbeitenden Granulates unter 0,02%.

Trocknungsanlagen von LANCO sind kombinierbar mit Einzelfördergeräten und Saugförderystemen. Natürlich können diese auch nachträglich in noch bereits bestehende Förderanlagen integriert werden.

Unsere Trocknluftherzeuger sind energiesparend durch geeignete Sensorik.

For most applications in technical injection moulding, simple hot air drying is no longer sufficient. With a corresponding dwell time, prepared dry air with the lowest possible water content guarantees a residual moisture content of the granulated material to be processed of less than 0,02%.

Drying systems from LANCO can be combined with individual conveyor units and suction conveyor systems. Of course, these can also be retrofitted into already existing conveyor systems. Our dry air generators are energy-saving due to suitable sensor technology.
Dosieren Mischen
dosing mixing

Zur Verarbeitung von Kunststoffen werden eine Vielzahl von Färbmitteln, Füllstoffen und Additiven eingesetzt. Für alle Dosieraufgaben in diesem Bereich steht eine Palette von Dosier- und Mischautomaten zur Verfügung für Maschinen-Durchsätze von ca. 1 kg/h - 1000 kg/h.

Zum direkten Aufbau auf Verarbeitungsmaschinen bauen wir die verschiedensten Mischrichtergrößen, in welche, je nach Aufgabenstellung, z.B. nur die Farbe in Abhängigkeit des Extruderdurchsatzes dosiert wird. Bei entsprechendem Bedarf können aber auch zwei, drei oder vier Komponenten in Form von Granulat, Grieß oder Pulver zusammengeführt und kontinuierlich vermischt werden.

Alle Dosier-Mischgeräte sind kombinierbar mit Einzelfördergeräten oder Abscheidern von Saugfördersystemen.

Numerous dyes, fillers and additives are used in processing plastics. Automatic dosing and mixing units for machine throughputs ranging from approx. 1 kg/h up to 1000 kg/h are available for dosing tasks in this area.

We build a great number of different mixing-hopper sizes for direct set-up on processing machines in which, depending on the task, for example only the dye is dosed in dependency on the extruder throughput. However, if required it is also possible to bring together and continually mix two, three or four components in the form of granulated material, grit or powder. All dosing and mixing units can be combined with individual conveyor units or separators of suction conveyor systems.

Microcomputer control systems with complete software for broad range of dosing and mixing tasks offer a maximum in operating comfort and safety.

Data interfaces for production monitoring, logging etc. are available. Electro-mechanical control systems are also available for simple tasks.

Central mixing stations for the supply of machine groups and special versions for dosing material with constant operating temperatures of up to 180°C – e.g. for PET – can also be supplied.
Fördergeräte
Conveying unit

nothing beats high quality

Zur automatischen Beschickung von Produktionsmaschinen, Trocknern, Tagessilos usw. steht ein komplettes Programm an Einzelförderungen zur Verfügung.
Alle üblichen Granulate sowie pulver- und grißförmige Rohstoffe lassen sich damit im Leistungsbereich von wenigen Kilogramm bis zu Tonnen pro Stunde im Saugbetrieb staubfrei fördern.
Elektronische Steuerungen für alle denkbaren Aufgabenstellungen arbeiten verschleißfrei für viele Jahre. Schutzvorkehrungen für Turbinen und Vakuumerzeuger, Überwachung gegen unbeabsichtigtes Leerlaufen und selbsttätig abreinigende Filtersysteme ergeben höchste Betriebssicherheit rund um die Uhr.

A complete line of individual conveyor units is available for the automatic loading of production machines, dry hoppers, outside silos etc. All standard granulated materials, and powder and grit-shaped raw materials can be conveyed dust free in suction operation in an output range of from just a few kilogram's up to several tonnes per hour.
All sizes are available on short notice as 1- or 2-component units, e.g. for the suction of new product and ground material. Special versions for feed material temperatures up to 180° are possible.
Electronic control systems for any conceivable task operate wear-free for many years. Protective measures for turbines and vacuum units, monitoring against running empty accidentally and self-cleaning filter systems provide the utmost in operating safety 24 hours a day.
LANCO also supplies unit versions according to customer specifications and for international export for mechanical and systems engineering, e.g. for suction in mills.
Modern processing firms require complete concepts for automatic material flow from the silo via the drying and preparing sections to the production machine, with the greatest possible reduction of load on the operating personnel, and with the possibility of data exchange via EDP. As after the introduction of a comprehensive conveying system the production is largely dependent on this system, the strictest requirements must be placed on the availability and operating safety of such a system. The basis for success is cooperation and trust starting at the planning stage, and sturdy design of the system components and their installation in the production firm.

LANCO suction conveyor systems are custom tailored solutions in which, in addition to the actual transport task, important secondary aspects for the conveyed material, such as light cleaning, the maximum possible freedom from dust, simple operation and virtually no maintenance, are naturally permanent components of the system design.

Dependable drying of the raw materials used is meanwhile a necessity for many processing firms. LANCO offers a complete line of drying hoppers and drying air generators with which drying systems for any requirement can be realized.
Um PET- oder PLA-Rohstoffe zu hochwertigen Endprodukten verarbeiten zu können, ist es notwendig, dass diese vor dem Plastifizieren eine gute bis sehr gute Trocknung erfahren müssen. Auch wenn einige Maschinenhersteller und PET-Verarbeiter Prozesse ohne Trocknung für realisierbar halten, hat es sich in der Praxis gezeigt, dass Rohstoffe feuchten unter 0,1% notwendig sind; besser jedoch Feuchtigkeiten unter 100 ppm. Nur unter solchen Voraussetzungen lassen sich hohe Prozess- und Produktqualitäten sicherstellen. Grundvoraussetzung dafür sind Aufbereitungstemperaturen über 120°C, idealweise 160°-180°C, so dass ein Kristallisationsprozess für ein gewisses Maß an Trocknung absolut notwendig ist.

In Lanco Kristallisatoren wird das Material unter schonender Bewegung aufgeheizt, kristallisiert und je nach Anforderung getrocknet.

To convert PET or PLA raw material into high-quality end products, it is essential to dry these materials very well before starting the plastification process. Although some machine manufacturers and PET processing factories consider processes without a prior drying procedure realisable, the practical experience shows that a raw material humidity below 0.1% or even humidity conditions below 100 ppm are required. The high process and product qualities can only be ensured by complying with these requirements.

The basic requirements for this are treatment temperatures higher than 120°C; the optimum temperature is between 160°C and 180°C so that a crystallisation process is absolutely required for a certain degree of dryness.

In Lanco crystallisation machines, the material will be heated, crystallised and dried according to the requirements, but always with gentle movements.
Kundenlösungen

Customer solutions

High-Tech-Probleme erfordern High-Tech-Lösungen.
Zu unseren erfolgreichsten Sonderkonstruktionen zählen inzwischen weltweit eingesetzte Förder- und Trockensysteme für die Herstellung von optischen Datenspeichern, die in Form der Compact Disc (CD)/DVD den Markt erobert hat.
Die intensive Entwicklungsarbeit in diesem Bereich hat uns hingeführt zu neuen Anwendungen im Bereich der sogenannten Video-Laser-Disc und den Reinraumfertigungen der Massen-Datenspeicher CD-ROM/DVD.
Nur die stetige Suche nach neuen Lösungen und die Anwendung modernster Bearbeitungsmethoden lässt in den Grenzbereichen des technisch Möglichen und wirtschaftlichen Sinnvollen diesen Erfolg entstehen.
Unser Motto bei der Suche nach neuen Lösungen: „Wenn immer nur die vermeintlichen Experten recht hätten, gäbe es keinen technischen Fortschritt mehr!“
Das Beispiel der CD/DVD-Anwendung soll zeigen, dass wir stets offen sind für das Aufgreifen neuer Aufgabenstellungen im Bereich der Kunststoffverarbeitung.
Zögern Sie nicht, uns anzusprechen, wenn unkonventionelle Lösungen für spezielle Fertigungen gebraucht werden. Unser kreatives Team von Mitarbeitern ist bereit und in der Lage, mit Ihren Türen zu öffnen zur Lösung stets neuer Probleme.

High-Tech problems require high-tech solutions.
Our most successful special designs meanwhile include internationally employed conveyor and drying systems for the manufacture of optical data memories, which have since conquered the music market in form of Compact Disc (CD)/DVD.
The intensive development work in this field has lead us to new applications in the area of the so called video laser disc and the clean-room production of the mass data memory CD-ROM/DVD.
Only the constant search for new solutions and the application of the most modern treatment methods allows this success to result in the border areas of the technically possible and economically practical.
Our motto for searching new solutions: "If the supposed experts were always right, there would be no more technical progress!"
LANCO®

nothing beats high quality

LANCO has its own plant property of approx. 2000 m² of production and storage area in modern generously equipped halls in Hanau, Germany. Comfortable offices, equipped with EDP, CAD and all means of communication, offer pleasant work places for a team of qualified employees.

A constantly updated pool of motor vehicles is always available for installation work, service trips and customer visits.

Interested customers who would like to make their selves a picture of our firm are always welcome to visit us in Hanau.

References? Experiences? Know-How? Service?
There is no question, we've got it!
And we'd be glad to prove it to you, too.

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Central vacuum systems are used for the automatic transportation of granulated plastic resins to processing machines. One or several kinds of resins that may be stored in outside or in house silos, octabins, big bags, drying hoppers etc. can be supplied automatically. A proven modular system of the necessary components allows an improvement of the material flow for any kind of plastic production and can be customized to the special needs a certain process may request.

A step by step expansion of a LANCO suction system is possible as well as combination with automatic color feeders, blenders and pre drying systems.

A central LANCO conveying system can always keep up with the functional needs that may vary by time and process developments and improvements.

The LANCO high tech concept for central systems is based on decades of experience of our engineers in plastic processing plants around the globe.

Economical use of energy, respecting the environment protection and safety at work are key points for LANCO suction systems. Best quality of the components and first class technical service guarantee trouble free production for many years.

**Components of LANCO suction systems:**

**Loaders** made from electro polished stainless steel with one or two material inlets, vacuum valve with implosion function for dust free operation, electronic control devices 24VDC with display and individual settings for conveying times and filter cleaning. Mixing mode and clean out valves as options. Side channel blowers or positive displacement pumps as **Vacuum generators**.

**Self cleaning safety filters** to protect vacuum pumps and environment from dust and pollutions.

**Common vacuum pipe** between loaders, central dust filters and vacuum generators.

**Product feed pipes** in stainless steel, alu-alloys, glass or plastic between pick up points and loaders.

**Central PLC controls** with first in first out routines for demand signals of loaders, survey of the vacuum pumps run time and alarms in case of misfunction, lack of materials etc. Software copyright by LANCO.

**Coupling stations** to select the kinds of resins on their way to the different machine loaders.
Hopper Loaders

Small Hopper Loader
LA 10 - K

for automatic transport of free flowing materials
with bulk density of 0,4... 0,8 kg/Litre and max. temp. 80 °C

<table>
<thead>
<tr>
<th>Materials</th>
<th>Granules, Pallets</th>
</tr>
</thead>
<tbody>
<tr>
<td>Througput</td>
<td>Approx. 5 kg/h</td>
</tr>
<tr>
<td>Distance</td>
<td>5 m horizontal / 4 m vertical</td>
</tr>
<tr>
<td>Pipe diameter</td>
<td>Ø 40 mm</td>
</tr>
<tr>
<td>Supply Voltage</td>
<td>230 V / 50 Hz</td>
</tr>
<tr>
<td>Hopper loader</td>
<td>Ø 120 mm / 413 mm height</td>
</tr>
<tr>
<td>Maintenace hopper</td>
<td>Ø 120 mm / 130 mm height</td>
</tr>
</tbody>
</table>

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Tel: +49 (0) 6181 91600 - 0
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www.lanco.de
Series LA 11
Single Phase Hopper Loader
(one- or two material components)

for automatic transport of free flowing materials
with bulk density of 0.4... 0.8 kg/Litre and max. temp. 80 °C

Standard features:

✓ Stainless steel construction
✓ Automatic filter cleaning
✓ Use-related optimizeable conveyor processes by microprocessor control

Option:

○ Empty suction of product pipe
○ Alarm output, alarm lamp
○ Quick couplings in suction and product pipe
○ Time relais for grinder suction pipe
○ High temperature version up to 160 °C
○ Upper top openable
<table>
<thead>
<tr>
<th>Model</th>
<th>Art. No.</th>
<th>Throughput*</th>
<th>Distance horizontal/vertical</th>
<th>Volume</th>
<th>Components</th>
<th>Filtercleaning</th>
<th>Height</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA 11 - K 1</td>
<td>1002.06</td>
<td>15 kg/h</td>
<td>10 m / 3 m</td>
<td>1,6 l</td>
<td>1</td>
<td>Compressed Air</td>
<td>520 mm</td>
<td>10 kg</td>
</tr>
<tr>
<td>LA 11 - N 1</td>
<td>1003.08</td>
<td>30 kg/h</td>
<td>10 m / 3 m</td>
<td>2,5 l</td>
<td>1</td>
<td></td>
<td>650 mm</td>
<td>11 kg</td>
</tr>
<tr>
<td>LA 11 - N 2</td>
<td>1021.08</td>
<td>30 kg/h</td>
<td>10 m / 3 m</td>
<td>2,5 l</td>
<td>2</td>
<td></td>
<td>650 mm</td>
<td>13 kg</td>
</tr>
</tbody>
</table>

* With information it concerns the maximum values dependent on product which are not at the same time accessible.

Drive: Single Phase Motor 1100 Watt
Voltage: 230 V AC, 50 Hz
Compressed air: 4 - 6 bar 10/8 mm
Protection class: IP 30/Steuerung IP 64
Noise level: L PA, 1 m <83 dB

**Function:**

Every conveyor cycle begins with the cleaning of the filter by air pressure. The turbine generates subpressure in the hopper loader, the outlet flap shuts, and in the product pipe will be a maelstrom. From the suction place material and air flows out in the separator. There, product and air separate. The product retreats, while the air is sucked by a filter outwardly.

With the two components hopper loader it is promoted alternately by suction place 1 and suction place 2. At the end of the opposed whole conveyor time the turbine switches off itself. A pressure balance occurs in the separator. The outlet flap opens and the material leaves. A magnet counter in the outlet flap initiates the next conveyor process. The hopper loader feed so long, until the container is filled under the outlet flap and the piled up material a closing of the flap prevented.

**Option:**

High temperature version up to 160° C
LA 11 – N1 HT / Art.Nr. 1359.08
LA 11 – N2 HT / Art.Nr. 1785.08

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Series LA 20
(one material component)

for automatic transport of free flowing materials
with bulk density of 0.4... 0.8 kg/Litre and max. Temp. of 100 °C

LA 20 - single phase motor                  LA 20 - three phase motor

Standard features:
✓ stainless steel construction
✓ automatic filter cleaning
✓ microprocessor controlled conveying functions
✓ control box 24VDC and power box separate housings

Options:
- clean out valve for product line
- alarm signal contact, alarm lamp

Series LA 20

<table>
<thead>
<tr>
<th>Model</th>
<th>Art. No.</th>
<th>Throughput *</th>
<th>Distance *</th>
<th>Vacuum generator</th>
<th>Filter cleaning by</th>
<th>Supply Voltage</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA 20</td>
<td>1006.08</td>
<td>50 kg/h</td>
<td>15 m / 2 m</td>
<td>1100 W</td>
<td>integrated turbine</td>
<td>Compressed Air</td>
<td>10 kg</td>
</tr>
<tr>
<td>LA 20-11</td>
<td>1012.08</td>
<td>100 kg/h</td>
<td>20 m / 4 m</td>
<td>1,1 kW</td>
<td>3ph-blower</td>
<td>230V 50Hz</td>
<td>10 kg</td>
</tr>
<tr>
<td>LA 20-15</td>
<td>1013.08</td>
<td>100 kg/h</td>
<td>30 m / 4 m</td>
<td>1,5 kW</td>
<td>Implosion</td>
<td>400V 50Hz</td>
<td>36 kg</td>
</tr>
<tr>
<td>LA 20-22</td>
<td>1014.08</td>
<td>150 kg/h</td>
<td>30 m / 5 m</td>
<td>2,2 kW</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LA 20-30</td>
<td>1015.08</td>
<td>200 kg/h</td>
<td>50 m / 5 m</td>
<td>3,0 kW</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Advice: the maximum values are depending on the individual products and may not all be reached at the same time.
Hopper loader LA 20 with single phase turbine
for transportation of: free flowing granulated resins + regrinds

Functions: The turbine creates an under pressure in the separator, the material outlet flap gets closed and in the material feed line a strong air stream is created. From the material pick up point a mixture of air and resin flows to the loader where the resin is separated by a filter from the incoming air. The product settles in the loader whilst the air is blown back to the atmosphere.

After the adjusted conveying time is run out the turbine motor is switched off. Atmospheric air flows in the separator through the turbine so that the outlet flap can be opened by the gravity of the resin. The material filling can flow out now.

A magnet fixed at the outlet flap operates a magnet switch in such a way that the contact of the magnet switch is closed when the outlet flap can fall back again after the resin was released. This starts a new conveying cycle that begins with compressed air pulses for the filter cleaning.

The loader is conveying material until the containment under the loader is filled up and the outlet flap remains in an open position hold by the resin still remaining in the separator.

- Reduced size LA 20-300 with all functions of LA 20
- with a total height of only 520mm is available for applications where height is limited.
  (for virgin resins only)

Loaders LA 20 with separate 3phase blower motors
for transportation of: free flowing granulated resins + regrinds

Functions: Each conveying cycle begins with a filter cleaning. The suction valve opens and the implosion inlet and material valve is closed. The outlet flap is sucked against the flap sealing. The loader body is partly evacuated to the max. under pressure the blower can built up. Now the suction valve is released and the implosion inlet opened. Ambient air now flows in as strong air stream through the filter and cleans it from dust and particles. No dust will come out to the environment. In stand by position the material valve and the suction valve remain closed and the implosion inlet is open.

During conveying the suction valve and the material valve is open and the implosion inlet is closed. By the air stream created by the blower motor a mixture of air and resin flows from the pick up point into the separator. The granulate settles in the separator and the conveying air gets sucked through the filter and is given back to the atmosphere at the air outlet opening of the blower motor. When the set conveying time has run out the blower motor is switched off, the suction valve and the product valve is gets closed and the implosion inlet is opened. The outlet flap now gets opened and the product in the separator can flow out. A magnet at the outlet flap operates a magnet switch and starts a new conveying cycle, until the containment under the loader is filled up and the outlet flap remains in an open stand-by position.

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Model LA 11 and LA 20

- **Suction probe vertical aluminium**
  - 40 mm Ø – Art.Nr. 1078.08
  - 50 mm Ø – Art.Nr. 1081.08
  - 60 mm Ø – Art.Nr. 1082.08
  (option with filter)

- **Suction probe horizontal aluminium**
  - 40 mm Ø – Art.Nr. 1079.08
  - 50 mm Ø – Art.Nr. 1080.08
  - 60 mm Ø – Art.Nr. 1083.08
  (option with filter)

- **PVC-flexible pipe transparency**
  - 40 mm Ø – Art.Nr. 1290.02
  - 50 mm Ø – Art.Nr. 1035.02
  - 60 mm Ø – Art.Nr. 1034.02

- **PVC-flexible pipe with copper litz wire**
  - 40 mm Ø – Art.Nr. 1038.02
  - 50 mm Ø – Art.Nr. 1039.02
  - 60 mm Ø – Art.Nr. 2857.02

- **PU- flexible pipe with**
  - 40 mm Ø – Art.Nr. 1031.02
  - 50 mm Ø – Art.Nr. 1479.02
  - 60 mm Ø – Art.Nr. 1472.02

- **Mixing ring Ø 210**
  - Art.Nr. 1355.08
  for mixing of two components or to remove the dust

- **Clamping ring Ø 210**
  - Art. Nr. 1286.02

- **Gasket ring Ø 210**
  - Art. Nr. 1944.02

- **Welded flange Ø 210/60, Edelstahl**
  - Art.Nr. 2135.08

- **Flange Ø 210/60**
  - Art.Nr. 1068.08

- **Flange Ø 210/125**
  - Art.Nr. 1288.08

- **Maintenance hopper Ø 210/245**
  - Art.Nr. 1066.08

- **Maintenance hopper Ø 210/124**
  - Art.Nr. 1065.08

- **Slide gate**
  - 150x150 – Art.Nr. 1075.08
  - 200x200 – Art.Nr. 1676.08

- **Flange 150/150**
  - 150x150 – Art.Nr. 1076.08
  - 200x200 – Art.Nr. 1291.08

- **Arburg adapter 45°, short**
  - Art. Nr. 1077.08

- **Arburg adapter 45°, long**
  - Art. Nr. 1292.08

- **Arburg hopper Ø 210 mm**
  - Art.Nr. 1070.08

Notice: Coorder hose clamp.
Please, declare with repeat orders always the serial number of your device.

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Hopper Loaders

Series LA 20 - Z
(two material components)
for automatic transport of free flowing materials
with bulk density of 0.4... 0.8 kg/Litre and max Temp. of 80 °C

LA 20 - Z - single phase motor   LA 20 - Z - 3 phase motor

Standard features:
✓ electro polished stainless steel construction
✓ automatic filter cleaning
✓ microprocessor controlled conveying functions
✓ Control box 24VDC and power box in separate housings

Options:
○ clean our valve for product line
○ alarm signal contact, alarm lamp

Series LA 20 - Z

<table>
<thead>
<tr>
<th>Model</th>
<th>Art. No.</th>
<th>Throughput</th>
<th>Distance *</th>
<th>Vacuum generator</th>
<th>Filter cleaning by</th>
<th>Supply Voltage</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA 20-Z</td>
<td>1022.08</td>
<td>50 kg/h</td>
<td>15 m / 2 m</td>
<td>1100 W</td>
<td>Compressed Air</td>
<td>230V 50Hz</td>
<td>10 kg</td>
</tr>
<tr>
<td>LA 20-11-Z</td>
<td>1017.08</td>
<td>100 kg/h</td>
<td>20 m / 4 m</td>
<td></td>
<td>1.1 kW</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LA 20-15-Z</td>
<td>1018.08</td>
<td>100 kg/h</td>
<td>30 m / 4 m</td>
<td></td>
<td>1.5 kW</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LA 20-22-Z</td>
<td>1019.08</td>
<td>150 kg/h</td>
<td>30 m / 5 m</td>
<td></td>
<td>2.2 kW</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LA 20-30-Z</td>
<td>1020.08</td>
<td>200 kg/h</td>
<td>50 m / 5 m</td>
<td></td>
<td>3.0 kW</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Advice: the maximum values are depending on the individual products and may not all be reached at the same time

Stand: 01.11.2011
Hopper loader LA 20- Z with single phase turbine
for transportation of: free flowing granulated resins + regrinds

**Functions:** The turbine builds up an under pressure in the separator, the material outlet flap gets closed and in the material feed line a strong air stream is created. From the material pick up point a mixture of air and resin flows to the loader where the resin is separated by a filter from the incoming air. The product settles in the loader whilst the air is blown back to the atmosphere. The total conveying time is split in a part time for component 1 and another part time for component 2. After the adjusted conveying times 1 and 2 ran out the turbine motor is switched off. Atmospheric air flows in the separator through the turbine so that the outlet flap can be opened by the gravity of the resin. A magnet fixed at the outlet flap operates a magnet switch in such a way that the contact of magnet switch is closed when the outlet flap can fall back again after the resin was released. This starts a new conveying cycle that begins with compressed air pulses for the filter cleaning. The loader is conveying material until the containment under the loader is filled up and the outlet flap remains in an open position hold by the resin still remaining in the separator.

Loaders LA 20-Z with separate 3phase blower motors
for transportation of: free flowing granulated resins + regrinds

- Loaders with 3phase blowers 2,2kW and up can also be used for free flowing powders

**Functions:** Each conveying cycle begins with a filter cleaning. The suction valve opens and the implosion inlet and material valves are closed. The outlet flap is sucked against the flap sealing. The loader body is partly evacuated to the max under pressure the blower can build up. Now the suction valve is released and the implosion inlet opened. Ambient air now flows in as strong air stream through the filter and cleans it from dust and particles. No dust will come out to the environment. In stand by position the material valves and the suction valve remain closed and the implosion inlet is open. During conveying the suction valve and the material valves one and two are open and the implosion inlet is closed. By the air stream created by the blower a mixture of air and resin flows from the pick up point into the separator. The granulates settle in the separator and the conveying air get sucked through the filter and is given back to the atmosphere at the air outlet opening of the blower motor. When the set conveying times ran out the blower motor is switched off, the suction valve and the product valves get closed and the implosion inlet is opened. The outlet flap can now open by the gravity of the resins and the materials can flow out. A magnet at the outlet flap operates a magnet switch and starts a new conveying cycle until the containment under the loader is filled up and the outlet flap remains in an open stand by position.
Hopper Loaders

Series LA 40
Series LA 50
Series LA 60
(one material component)

for automatic transport of free flowing materials
with bulk density of 0,4... 0,8 kg/Litre and max. temp. 80 °C

Standard features:
✓ stainless steel construction
✓ automatic filter cleaning
✓ microprocessor controlled conveying functions
✓ control box 24VDC and power box separate housings

Options:
  o clean out valve for product line
  o alarm signal contact, alarm lamp

<table>
<thead>
<tr>
<th>Series LA 40</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Model</td>
<td>Article-No.</td>
<td>Throughput *</td>
<td>Distance *</td>
<td>Vacuum generator</td>
<td>Filter cleaning by</td>
<td>Pipe Ø</td>
</tr>
<tr>
<td></td>
<td>LA 40-11</td>
<td>1027.08</td>
<td>100 kg/h</td>
<td>30 m / 4 m</td>
<td>1.1 kW</td>
<td>Implosion</td>
<td>40 mm</td>
</tr>
<tr>
<td></td>
<td>LA 40-15</td>
<td>1028.08</td>
<td>200 kg/h</td>
<td>40 m / 4 m</td>
<td>1.5 kW</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>LA 40-22</td>
<td>1029.08</td>
<td>200 kg/h</td>
<td>50 m / 5 m</td>
<td>2.2 kW</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>LA 40-30</td>
<td>1030.08</td>
<td>300 kg/h</td>
<td>60 m / 5 m</td>
<td>3.0 kW</td>
<td></td>
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</tr>
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</table>

Stand: 01.11.2011
**Series LA 50**

<table>
<thead>
<tr>
<th>Model</th>
<th>Article-No.</th>
<th>Throughput *</th>
<th>Distance *</th>
<th>Vacuum generator</th>
<th>Filter cleaning by</th>
<th>Pipe Ø</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA 50-22</td>
<td>1043.08</td>
<td>400 kg/h</td>
<td>50 m / 5 m</td>
<td>2.2 kW</td>
<td>Implosion</td>
<td>50 mm</td>
<td>50 kg</td>
</tr>
<tr>
<td>LA 50-22 H</td>
<td>1039.08</td>
<td>400 kg/h</td>
<td>50 m / 5 m</td>
<td>2.2 kW</td>
<td></td>
<td></td>
<td>50 kg</td>
</tr>
<tr>
<td>LA 50-30</td>
<td>1044.08</td>
<td>500 kg/h</td>
<td>50 m / 5 m</td>
<td>3.0 kW</td>
<td></td>
<td></td>
<td>52 kg</td>
</tr>
<tr>
<td>LA 50-30 H</td>
<td>1040.08</td>
<td>500 kg/h</td>
<td>50 m / 5 m</td>
<td>3.0 kW</td>
<td></td>
<td></td>
<td>52 kg</td>
</tr>
<tr>
<td>LA 50-40</td>
<td>1045.08</td>
<td>700 kg/h</td>
<td>80 m / 5 m</td>
<td>4.0 kW</td>
<td>2-stufig</td>
<td>50 mm</td>
<td>68 kg</td>
</tr>
<tr>
<td>LA 50-40 H</td>
<td>1041.08</td>
<td>700 kg/h</td>
<td>80 m / 5 m</td>
<td>4.0 kW</td>
<td>2-stufig</td>
<td>50 mm</td>
<td>68 kg</td>
</tr>
<tr>
<td>LA 50-92-H</td>
<td>1042.08</td>
<td>800 kg/h</td>
<td>80 m / 8 m</td>
<td>9.2 kW</td>
<td>2-stufig</td>
<td>50 mm</td>
<td>75 kg</td>
</tr>
</tbody>
</table>

*Advice: the maximum values are depending on the individual products and may not all be reached at the same time*

---

**Series LA 60**

<table>
<thead>
<tr>
<th>Model</th>
<th>Article-No.</th>
<th>Throughput *</th>
<th>Distance *</th>
<th>Vacuum generator</th>
<th>Filter cleaning by</th>
<th>Pipe Ø</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA 60-22</td>
<td>1057.08</td>
<td>10 m / 3 m</td>
<td>2.2 kW</td>
<td>Implosion</td>
<td></td>
<td>60 mm</td>
<td>50 kg</td>
</tr>
<tr>
<td>LA 60-30-H</td>
<td>1060.08</td>
<td>800 kg/h</td>
<td>80 m / 8 m</td>
<td>3.0 kW</td>
<td></td>
<td>60 mm</td>
<td>52 kg</td>
</tr>
<tr>
<td>LA 60-40</td>
<td>1058.08</td>
<td>900 kg/h</td>
<td>80 m / 8 m</td>
<td>4.0 kW</td>
<td>2-stufig</td>
<td>60 mm</td>
<td>68 kg</td>
</tr>
<tr>
<td>LA 60-40 H</td>
<td>1061.08</td>
<td>900 kg/h</td>
<td>80 m / 8 m</td>
<td>4.0 kW</td>
<td>2-stufig</td>
<td>60 mm</td>
<td>68 kg</td>
</tr>
<tr>
<td>LA 60-92</td>
<td>1059.08</td>
<td>1000 kg/h</td>
<td>80 m / 8 m</td>
<td>9.2 kW</td>
<td>2-stufig</td>
<td>60 mm</td>
<td>75 kg</td>
</tr>
<tr>
<td>LA 60-92 H</td>
<td>1062.08</td>
<td>1000 kg/h</td>
<td>80 m / 8 m</td>
<td>9.2 kW</td>
<td>2-stufig</td>
<td>60 mm</td>
<td>75 kg</td>
</tr>
</tbody>
</table>

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**Loaders LA 40, LA 50 and LA 60 with separate 3 phase blower motors**

*for transportation of: free flowing granulated resins + regrind*

- Loaders with 3phase blowers 2,2kW and up can also be used for free flowing powders

**Functions:** Each conveying cycle begins with a filter cleaning. The suction valve opens and the implosion inlet and material valve is closed. The outlet flap is sucked against the flap sealing. The loader body is partly evacuated to the max. under pressure the blower can built up. Now the suction valve is released and the implosion inlet opened. Ambient air now flows in as strong air stream through the filter and cleans it from dust and particles. No dust will come out to the environment. In stand by position the material valve and the suction valve remain closed and the implosion inlet is open. During conveying the suction valve and the material valve is open and the implosion inlet is closed. By the air stream created by the blower motor a mixture of air and resin flows from the pick up point into the separator. The granulate settles in the separator and the conveying air gets sucked through the filter and is given back to the atmosphere at the air outlet opening of the blower motor. When the set conveying time has run out the blower motor is switched off, the suction valve and the product valve is gets closed and the implosion inlet is opened. The outlet flap now gets opened and the product in the separator can flow out. A magnet at the outlet flap operates a magnet switch and starts a new conveying cycle, until the containment under the loader is filled up and the outlet flap remains in an open stand-by position

---

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Hopper Loaders

Series LA 40-Z
Series LA 50-Z
(two material components)

for automatic transport of free flowing materials
with bulk density of 0,4... 0,8 kg/Litre and max Temp. of 80 °C

Standard features:
✓ electro polished stainless steel construction
✓ automatic filter cleaning
✓ microprocessor controlled conveying functions
✓ Control box 24VDC and power box in separate housings

Options:
- clean our valve for product line
- alarm signal contact, alarm lamp
### Baureihe LA 40-Z

<table>
<thead>
<tr>
<th>Model</th>
<th>Art. No.</th>
<th>Throughput *</th>
<th>Distance * horizontal/vertical</th>
<th>Vacuum generator</th>
<th>Filter cleaning by</th>
<th>Pipe diameter</th>
<th>Supply Voltage</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA 40-11-Z</td>
<td>1032.08</td>
<td>100 kg/h</td>
<td>30 m / 4 m</td>
<td>1.1 kW</td>
<td>Implosion</td>
<td>40 mm</td>
<td>400V, 50Hz</td>
<td>41 kg</td>
</tr>
<tr>
<td>LA 40-15-Z</td>
<td>1033.08</td>
<td>200 kg/h</td>
<td>40 m / 4 m</td>
<td>1.5 kW</td>
<td></td>
<td></td>
<td>400V, 50Hz</td>
<td>41 kg</td>
</tr>
<tr>
<td>LA 40-22-Z</td>
<td>1034.08</td>
<td>200 kg/h</td>
<td>50 m / 5 m</td>
<td>2.2 kW</td>
<td></td>
<td></td>
<td>400V, 50Hz</td>
<td>52 kg</td>
</tr>
<tr>
<td>LA 40-30-Z</td>
<td>1035.08</td>
<td>300 kg/h</td>
<td>60 m / 5 m</td>
<td>3.0 kW</td>
<td></td>
<td></td>
<td>400V, 50Hz</td>
<td>58 kg</td>
</tr>
<tr>
<td>LA 40-40-Z</td>
<td>1036.08</td>
<td>400 kg/h</td>
<td>80 m / 5 m</td>
<td>4.0 kW</td>
<td>2-stufig</td>
<td></td>
<td>400V, 50Hz</td>
<td>70 kg</td>
</tr>
</tbody>
</table>

* Advice: the maximum values are depending on the individual products and may not all be reached at the same time.

### Baureihe LA 50-Z

<table>
<thead>
<tr>
<th>Model</th>
<th>Art. No.</th>
<th>Throughput *</th>
<th>Distance * horizontal/vertical</th>
<th>Vacuum generator</th>
<th>Filter cleaning by</th>
<th>Pipe diameter</th>
<th>Supply Voltage</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA 50-22-Z</td>
<td>1049.08</td>
<td>400 kg/h</td>
<td>50 m / 5 m</td>
<td>2.2 kW</td>
<td>Implosion</td>
<td>50 mm</td>
<td>400V, 50Hz</td>
<td>51 kg</td>
</tr>
<tr>
<td>LA 50-22-ZH</td>
<td>1052.08</td>
<td>500 kg/h</td>
<td>50 m / 5 m</td>
<td>2.2 kW</td>
<td></td>
<td></td>
<td>400V, 50Hz</td>
<td>53 kg</td>
</tr>
<tr>
<td>LA 50-30-Z</td>
<td>1053.08</td>
<td>500 kg/h</td>
<td>50 m / 5 m</td>
<td>3.0 kW</td>
<td></td>
<td></td>
<td>400V, 50Hz</td>
<td>70 kg</td>
</tr>
<tr>
<td>LA 50-40-Z</td>
<td>1051.08</td>
<td>700 kg/h</td>
<td>80 m / 5 m</td>
<td>4.0 kW</td>
<td>2-stufig</td>
<td></td>
<td>400V, 50Hz</td>
<td>70 kg</td>
</tr>
<tr>
<td>LA 50-40-ZH</td>
<td>1054.08</td>
<td>800 kg/h</td>
<td>80 m / 5 m</td>
<td>4.0 kW</td>
<td>2-stufig</td>
<td></td>
<td>400V, 50Hz</td>
<td>70 kg</td>
</tr>
</tbody>
</table>

### Series LA 40-Z

1. Compressed air connection
2. Name plate
3. Suction pipe
4. Material pipe
5. Balance hole
6. Control box

### Loaders LA 40-Z and LA 50-Z with separate 3phase blowers motors

*Advice*:

- Loaders with 3phase blowers 2,2kW and up can also
- be used for free flowing powders

**Functions:** Each conveying cycle begins with a filter cleaning. The suction valve opens and the implosion inlet and material valves are closed. The outlet flap is sucked against the flap sealing. The loader body is partly evacuated to the max under pressure the blower can build up. Now the suction valve is released and the implosion inlet opened. Ambient air now flows in as strong air stream through the filter and cleans it from dust and particles. No dust will come out to the environment. In stand by position the material valves and the suction valve remain closed and the implosion inlet is open. During conveying the suction valve and the material valves one and two are open and the implosion inlet is closed. By the air stream created by the blower a mixture of air and resin flows from the pick up point into the separator. The granulates settle in the separator and the conveying air get sucked through the filter and is given back to the atmosphere at the air outlet opening of the blower motor. When the set conveying times ran out the blower motor is switched off, the suction valve and the product valves get closed and the implosion inlet is opened. The outlet flap now can open by the gravity of the resins and the materials can flow out. A magnet at the outlet flap operates a magnet switch and starts a new conveying cycle until the containment under the loader is filled up and the outlet flap remains in an open stand by position.

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Stand: 01.11.2011
Supplies

Series LA 40 50 60

**Suction probe vertical aluminium**
- 40 mm Ø – Art. Nr. 1078.08
- 50 mm Ø – Art. Nr. 1081.08
- 60 mm Ø – Art. Nr. 1082.08
  (option with filter)

**Clamping ring Ø 290**
- Art. Nr. 1440.02

**Gasket ring Ø 290**
- Art. Nr. 1945.02

**Welded flange Ø 290/60, stainless steel**
- Art. Nr. 1687.05

**Gasket ring Ø 290**
- Art. Nr. 1945.02

**Flange Ø 290/60**
- Art. Nr. 1069.08

**Flange Ø 290/125**
- Art. Nr. 1289.08

**PVC-flexible pipe transparency**
- 40 mm Ø – Art. Nr. 1290.02
- 50 mm Ø – Art. Nr. 1035.02
- 60 mm Ø – Art. Nr. 1034.02

**Maintenance hopper Ø 290/340**
- Art. Nr. 1808.08

**Maintenance hopper Ø 290/290**
- Art. Nr. 1067.08

**PVC-flexible pipe with copper litz wire**
- 40 mm Ø – Art. Nr. 1038.02
- 50 mm Ø – Art. Nr. 1039.02
- 60 mm Ø – Art. Nr. 2857.02

**PU-flexible pipe**
- 40 mm Ø – Art. Nr. 1031.02
- 50 mm Ø – Art. Nr. 1479.02
- 60 mm Ø – Art. Nr. 1472.02

**Mixing ring Ø 210**
- Art. Nr. 1355.08
  for mixing of two components or to remove the dust

**Arburg adapter 45°, short**
- Art. Nr. 1077.08

**Arburg adapter 45°, long**
- Art. Nr. 1292.08

**Arburg hopper Ø 210 mm – Art. Nr. 1070.08**

Notice: Order hose clamp.
Please, declare with repeat orders always the serial number of your device.

---

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Stand: 01.11.2011
Hopper Loaders

Series LA 400
(one material component)

for automatic transport of free flowing materials
with bulk density of 0.4... 0.8 kg/Litre and max. temp. 80 °C

Standard features:
✓ stainless steel construction
✓ automatic filter cleaning
✓ microprocessor controlled conveying functions
✓ control box 24VDC and power box separate housings
✓ Throughput up to 1.800 kg/h

Options:
○ clean out valve for product line
○ alarm signal contact, alarm lamp
Series LA 400

<table>
<thead>
<tr>
<th>Model</th>
<th>Article-No.</th>
<th>Throughput *</th>
<th>Distance *</th>
<th>Vacuum generator</th>
<th>Pipe Ø</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA 450-30</td>
<td>1222.08</td>
<td>500 kg/h</td>
<td>30 m</td>
<td>6 m</td>
<td>3,0 kW</td>
<td>50 mm</td>
</tr>
<tr>
<td>LA 450-40</td>
<td>1225.08</td>
<td>600 kg/h</td>
<td>30 m</td>
<td>6 m</td>
<td>4,0 kW</td>
<td>50 mm</td>
</tr>
<tr>
<td>LA 460-40</td>
<td>1227.08</td>
<td>600 kg/h</td>
<td>50 m</td>
<td>8 m</td>
<td>4,0 kW</td>
<td>60 mm</td>
</tr>
<tr>
<td>LA 460-92</td>
<td>1228.08</td>
<td>800 kg/h</td>
<td>80 m</td>
<td>10 m</td>
<td>9,2 kW</td>
<td>70 mm</td>
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<tr>
<td>LA 470-92</td>
<td>1038.08</td>
<td>1,800 kg/h</td>
<td>100 m</td>
<td>10 m</td>
<td>9,2 kW</td>
<td>70 mm</td>
</tr>
</tbody>
</table>

* Advice: the maximum values are depending on the individual products and may not all be reached at the same time

Supply Voltage: 3 x AC 400 V, PE , 50 Hz

Loaders LA 400 with separate 3 phase blower motors

for transportation of: free flowing granulated resins + regrind

- Loaders with 3phase blowers 3,0 kW and up can also be used for free flowing powders

Functions: Each conveying cycle begins with a filter cleaning. The suction valve opens and the implosion inlet and material valve is closed. The outlet flap is sucked against the flap sealing. The loader body is partly evacuated to the max. under pressure the blower can built up. Now the suction valve is released and the implosion inlet opened. Ambient air now flows in as strong air stream through the filter and cleans it from dust and particles. No dust will come out to the environment. In stand by position the material valve and the suction valve remain closed and the implosion inlet is open. During conveying the suction valve and the material valve is open and the implosion inlet is closed. By the air stream created by the blower motor a mixture of air and resin flows from the pick up point into the separator. The granulate settles in the separator and the conveying air gets sucked through the filter and is given back to the atmosphere at the air outlet opening of the blower motor. When the set conveying time has run out the blower motor is switched off, the suction valve and the product valve is gets closed and the implosion inlet is opened. The outlet flap now gets opened and the product in the separator can flow out. A magnet at the outlet flap operates a magnet switch and starts a new conveying cycle, until the containment under the loader is filled up and the outlet flap remains in an open stand-by position.

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Hopper Loader

Series LA 600
(one material component)

for automatic transport of free flowing materials
with bulk density of 0,4... 0,8 kg/Litre and max. temp. 80 °C

Standard features:
✓ stainless steel construction
✓ automatic filter cleaning
✓ microprocessor controlled conveying functions
✓ control box 24VDC and power box separate housings
✓ Throughput up to 1.800 kg/h

Options:
  o clean out valve for product line
  o alarm signal contact, alarm lamp
### Series LA 600

<table>
<thead>
<tr>
<th>Model</th>
<th>Article-No.</th>
<th>Throughput *</th>
<th>Distance *</th>
<th>Vacuum generator</th>
<th>Pipe Ø</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>horizontal/vertical</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>horizontal</td>
<td>vertical</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LA 650-30</td>
<td>1047.08</td>
<td>600 kg/h</td>
<td>30 m</td>
<td>8 m</td>
<td>3.0 kW</td>
<td>50 mm</td>
</tr>
<tr>
<td>LA 650-40</td>
<td>1037.08</td>
<td>700 kg/h</td>
<td>40 m</td>
<td>6 m</td>
<td>4.0 kW</td>
<td>50 mm</td>
</tr>
<tr>
<td>LA 650-92</td>
<td>1048.08</td>
<td>900 kg/h</td>
<td>50 m</td>
<td>10 m</td>
<td>9.2 kW</td>
<td>50 mm</td>
</tr>
<tr>
<td>LA 660-40</td>
<td>2216.08</td>
<td>800 kg/h</td>
<td>80 m</td>
<td>10 m</td>
<td>4.0 kW</td>
<td>60 mm</td>
</tr>
<tr>
<td>LA 660-92</td>
<td>2217.08</td>
<td>1.600 kg/h</td>
<td>100 m</td>
<td>20 m</td>
<td>9.2 kW</td>
<td>60 mm</td>
</tr>
<tr>
<td>LA 670-92</td>
<td>1230.08</td>
<td>2.000 kg/h</td>
<td>100 m</td>
<td>20 m</td>
<td>9.2 kW</td>
<td>70 mm</td>
</tr>
</tbody>
</table>

* Advice: the maximum values are depending on the individual products and may not all be reached at the same time

Supply Voltage: 3 x AC 400 V, PE, 50 Hz

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**Loaders LA 600 with separate 3 phase blower motors**

*for transportation of: free flowing granulated resins + regrind*

- Loaders with 3phase blowers 3.0 kW and up can also be used for free flowing powders

**Functions:** Each conveying cycle begins with a filter cleaning. The suction valve opens and the implosion inlet and material valve is closed. The outlet flap is sucked against the flap sealing. The loader body is partly evacuated to the max. under pressure the blower can built up. Now the suction valve is released and the implosion inlet opened. Ambient air now flows in as strong air stream through the filter and cleans it from dust and particles. No dust will come out to the environment. In stand by position the material valve and the suction valve remain closed and the implosion inlet is open. During conveying the suction valve and the material valve is open and the implosion inlet is closed. By the air stream created by the blower motor a mixture of air and resin flows from the pick up point into the separator. The granulate settles in the separator and the conveying air gets sucked through the filter and is given back to the atmosphere at the air outlet opening of the blower motor. When the set conveying time has run out the blower motor is switched off, the suction valve and the product valve is gets closed and the implosion inlet is opened. The outlet flap now gets opened and the product in the separator can flow out. A magnet at the outlet flap operates a magnet switch and starts a new conveying cycle, until the containment under the loader is filled up and the outlet flap remains in an open stand-by position.

---

1.1 Suction pipe
1.2 Name plate
1.3 Compressed air connection
1.4 Controller
1.5 Material pipe

---

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www.lanco.de

Stand: 01.11.2011
Supplies

Model LA 400 and LA 600

**Clamping ring for LA400**
400 mm Ø – Art.Nr. 1285.02

**Flange for LA600**
Customer care

**Clamping ring Ø 400**
Art. Nr. 1286.02

**Gasket ring Ø 400**
Art. Nr. 1243.02

**Flange Ø 400/60**
Art.Nr. 4057.05

**Flange Ø 400/100**
Art.Nr. 2497.05

**Silencer**
for side channel blower
Art.Nr. 1188.08

**Suction probe vertical aluminium**
60 mm Ø – Art.Nr. 1082.08
70 mm Ø – Art.Nr. 1783.08
(option with filter)

**Suction probe horizontal aluminium**
60 mm Ø – Art.Nr. 1083.08
(option with filter)

**PVC-flexible pipe transparency**
60 mm Ø – Art.Nr. 1034.02

**PVC-flexible pipe with cupper litz wire**
60 mm Ø – Art.Nr. 2857.02

**PU- flexible pipe with**
60 mm Ø – Art.Nr. 1472.02
70 mm Ø – Art.Nr. 1037.02
80 mm Ø – Art.Nr. 1975.02

Notice: Coorder tube bells.
Please, declare with repeat orders always the serial number of your device.

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Stand: 01.11.2011
Mixer MT210 / MT290

to continuous mixing of different material components

Special features:

- Small compact construction
- Stainless steel hopper
- Prepared to the admission of a hopper loader
- Funnel approx. 6 litres of volume
- Time switch relay in the interval of 1 – 10 minutes adjustable

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Batch Blender

Series BD
with microprocessor control unit

Special features:

- ejects smallest amounts of colour concentrates
- precise dosing of additives in granulated form
- fast and easy colour change, no material losses

<table>
<thead>
<tr>
<th>Art. #</th>
<th>Type</th>
<th>Throughput</th>
<th>Volume</th>
<th>Electric supply</th>
<th>Air pressure</th>
<th>Compressed air hose connection</th>
<th>Air consumption</th>
<th>Weight</th>
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<td>1799.08</td>
<td>BD1-M</td>
<td>3 kg/h</td>
<td>6 Liter</td>
<td>230 V / 50 Hz</td>
<td>6 bar</td>
<td>6/4 mm Ø</td>
<td>&lt; 10 Ni/min</td>
<td>8.5 kg</td>
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<tr>
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<td>BD1-K-M</td>
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<td>6 Liter</td>
<td>230 V / 50 Hz</td>
<td>6 bar</td>
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<td>6/4 mm Ø</td>
<td>&lt; 20 Ni/min</td>
<td>15.0 kg</td>
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</table>
LANCO - batch blenders
Series BD

LANCO automatic blenders series BD... the BD carry out small amounts of colour concentrates or additives in granulated form directly into the inlet zone of injection moulding machines. With dyes such as Microbatch or gritty additives, this precludes the risk of segregation as a result of stirring and vibrations of the processing machines.

Colour fluctuations in the moulded parts due to changes in the plastifying behaviour of the processing machine are now consigned to the past. Irrespective of the area in which fluctuations in dosing times occur, whether the hydraulic oil is cold or hot, or regardless of whether or not the non-return valve is leaking, the microprocessor control unit constantly stabilises these variations and recalculates the ideal time for the dye feed for each injection operation.

The device is installed directly onto the inlet aperture of the extruder instead of the machine hopper. The raw material feed (3) can be fitted with an intermediate hopper (2) and a feeder device if necessary. Dye or additive is filled into the acrylic funnel (1) and transferred in small quantities into the inlet of the moulder by the dosing device (6), which is operated by a pneumatic drive (4). The procedure can be watched through the inspection glass (8). The microprocessor control unit receives a floating reference signal from the processing machine. The plastifying time is usually suitable for this. The dosing signals from the control unit are transmitted to the dosing drive by a solenoid valve (7). If a change in product or colour is required, the dosing device including the dye reservoir can be taken off and emptied. The raw material feed can be drained using a slide valve. Only the quantity of raw material currently required is dyed, thus avoiding residual material.

Microprocessor control unit
The smart control unit of the BD direct dosing systems is easy to use, and there are no complicated calculations. The computer constantly optimises the dye feed at the right moment on the basis of the injection weight, dye chamber weight and desired percentage.
Batch Doser

Series LA 2 - 4
with Microprocessor control unit

for automatic dosing and mixing from two to four raw materials

Special features:

✓ volumetric metering of two to four components
✓ used as a central batching and mixing plant
✓ continuous mixing of the raw materials
✓ product contact parts made of polished stainless steel

<table>
<thead>
<tr>
<th>Type</th>
<th>Art.No.</th>
<th>Volume</th>
<th>Througput (kg/h)</th>
<th>Power consumption (kW)</th>
<th>Dimensions h1/h2 (mm)</th>
<th>b1/b2 (mm)</th>
<th>d1/d2 (mm)</th>
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</thead>
<tbody>
<tr>
<td>Mixer (Liter)</td>
<td>Dosing (Liter)</td>
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<td>LA2-L</td>
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<td>10</td>
<td>5,5</td>
<td>100</td>
<td>1,0</td>
<td>250/600</td>
<td>640/510</td>
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<td>LA3-L</td>
<td>1249.08</td>
<td>25</td>
<td>12,0</td>
<td>250</td>
<td>1,0</td>
<td>310/660</td>
<td>1070/840</td>
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<td>LA4-L</td>
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<td>40</td>
<td>12,0</td>
<td>400</td>
<td>1,0</td>
<td>310/660</td>
<td>1070/840</td>
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<td>LA2-V</td>
<td>1239.08</td>
<td>80</td>
<td>12,0</td>
<td>800</td>
<td>1,0</td>
<td>310/660</td>
<td>1070/840</td>
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<td>LA4-V</td>
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<td>LA2-H</td>
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<td></td>
</tr>
</tbody>
</table>

Power supply: 3 x 16A, Spannung: 400 V, 50 Hz
LANCO-Batch Doser  
Series LA 2 – 4

The dosing system employs the volumetric dosing principle. In this system each component is proportioned in precisely uniform units and added synchronously with the other components, according to the mixing proportions specified by the recipe. This ensures that the mixture complies with the recipe at any point of the dosing procedure; furthermore, no mechanical mixer is required for granule processing. Due to the reduced amount of material above the feed area, separation is prevented even when processing critical additives.

In order to ensure a uniform mixture, an additional blending unit can be used when processing powdered additives with regrinds.

All dosing stations are designed as exchangeable stations, i.e. they can be easily replaced, for example if materials and colours are changed frequently.

The microprocessor control system can store up the recipes. All messages are displayed in plain text and stored in an event journal. Essential functions are protected by password against unauthorised access. The control system is equipped for communication. A printer can also be connected to the system.

---

1 dosing tank  
2 mixer motor  
3 dosing motor  
4 control box  
5 collecting tank

Dosing stations A, B, C, D

---

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Color Blender

Disc Dosing Systems
Series LA-M
Micro Processor controlled

Dosing of one or two colors or additives
and mixing with virgin materials

Special features:
✓ smart microprocessor control, software copyright by LANCO
✓ exact dosing of one or two small components to virgin materials
✓ digital volumetric dosing and perfect mixing of all components
✓ mixing hopper made from electro polished stainless steel
✓ prepared for combination with LANCO-hopper loading systems

<table>
<thead>
<tr>
<th>Blender type</th>
<th>Article No.</th>
<th>volumes mixer and dosing stations in Liter</th>
<th>Throughput up to</th>
<th>Shot weight max. Gramm</th>
<th>electric load 3phase 400/50</th>
<th>Gross weight</th>
<th>Dimensions (wide x deep x h)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA-M 1 / MK</td>
<td>1233.08</td>
<td>4 l 7 l</td>
<td>25 kg/h</td>
<td>500 g</td>
<td>0.3 kW</td>
<td>30 kg</td>
<td>680/320/600 mm</td>
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<tr>
<td>LA-M 1 / MN</td>
<td>1235.08</td>
<td>8 l 7 l</td>
<td>50 kg/h</td>
<td>1.000 g</td>
<td>0.37 kW</td>
<td>33 kg</td>
<td>720/400/640 mm</td>
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<tr>
<td>LA-M 1 / MH</td>
<td>1237.08</td>
<td>15 l 7 l</td>
<td>100 kg/h</td>
<td>2.000 g</td>
<td>0.45 kW</td>
<td>38 kg</td>
<td>720/400/750 mm</td>
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<tr>
<td>LA M 2 / MK</td>
<td>1234.08</td>
<td>4 l 2 x 7 l</td>
<td>25 kg/h</td>
<td>500 g</td>
<td>0.4 kW</td>
<td>42 kg</td>
<td>680/600/800 mm</td>
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<tr>
<td>LA M 2 / MN</td>
<td>1236.08</td>
<td>8 l 2 x 7 l</td>
<td>50 kg/h</td>
<td>1.000 g</td>
<td>0.47 kW</td>
<td>47 kg</td>
<td>720/740/640 mm</td>
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<td>LA M 2 / MH</td>
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<td>15 l 2 x 7 l</td>
<td>100 kg/h</td>
<td>2.000 g</td>
<td>0.55 kW</td>
<td>52 kg</td>
<td>720/740/750 mm</td>
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</tbody>
</table>

Power supply: 3phase 400V, 50Hz, 3x16A pre fuse
Voltage: 400 V, 50 Hz  (Special voltage on request)

Stand: 01.11.2011
LANCO - Colour Blenders
Series LA-M

For best performance this blenders should be installed directly on the extruder inlet of processing machines replacing the original machine hopper. They work in a continuously self optimizing dosing mode in such a way that small portions of additives fall in the mixing chamber where an agitator makes a uniform mixture of all ingredients. A signal contact from the processing machine sends life signs to the controller.

For all possible additives like colour masterbatch, foaming agents, antistatic agents, stabilizers a. s. o. there are dosing stations available. Customized dosing stations for powders and liquids are possible.

On special request there can also be installed automatic loading systems on dosing stations for additives.

Interchangeable dosing stations that fit on the same dosing gear motors allow fast colour changes and set up.

A start up procedure that calculates based on the volume of the mixing hopper, the preset percentages of the additives and the bulk weight of the main component makes it easy to get stable colouring results after just a few shots of the processing machine. This saves time and reduces reject parts.

The inlet for the main material carries in most cases an automatic hopper loader. Automatic filling by gravity is a possible option.

Pre-dried resins can be processed with the standard blenders up to 80°C. Special high temp. versions up to resin temp. of 180°C are possible on special request.

Long life 3phase gear motors for dosing and mixing operations last for many years of operation.

1.1 mixing gear motor
1.2 acrylic dosing hopper
1.3 dosing gear motor
1.4 mixing hopper

dimensions see chart
Crystallizers LAK

Special features:

- crystallizer hoppers made from stainless steel, fully insulated
- enforced lid carrying a strong gear motor for the agitator
- stainless rotors especially designed for operation around the clock
- process air blower with frequency controlled 3phase motor
- process air heater directly connected to the crystallizing hopper
- temperature resistant level control sensors
- touch screen control unit with Ethernet plug for teleservice support

Options:

- energy saving mode in combination with cooling hopper
- best quality dry air generators for online drying process
- various combinations with customized pneumatic loaders
crystallization plant LAK with cooling hopper
huge energy savings as contribution
to reduce global warming

Special features:

✓ cooling hoppers in stainless steel or aluminium, fully insulated
✓ lids prepared for Lanco hopper loaders
✓ temperature resistant level control sensors
✓ modular flanged piping system for process air between cooling hopper and crystallizer
✓ process air filter as stainless steel permanent filter in metal housing
and controlled by pressure difference

Options:

- waste air filtration of larger particles by cyclone separator
- additional insulations against heat losses

<table>
<thead>
<tr>
<th>LAK without cooling hopper</th>
<th>LAK150</th>
<th>LAK300</th>
<th>LAK600</th>
<th>LAK1200</th>
<th>LAK1600</th>
<th>LAK2600</th>
<th>LAK4200</th>
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<tbody>
<tr>
<td>item #</td>
<td>1440.08</td>
<td>1441.08</td>
<td>1442.08</td>
<td>2620.08</td>
<td>2621.08</td>
<td>1445.08</td>
<td>1446.08</td>
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<tr>
<td>throughput [kg/h]</td>
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<td>LAK with cooling hopper</td>
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<td>crystallizer</td>
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<td>2,2</td>
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LAK: Kristallisationsbehälter
Volumen [dm³]

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<tr>
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<th>LAK300</th>
<th>LAK600</th>
<th>LAK1200</th>
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<td>12</td>
<td>24</td>
<td>36</td>
<td>48</td>
<td>72</td>
<td>96</td>
</tr>
<tr>
<td>blower power [kW]</td>
<td>1,5</td>
<td>3,0</td>
<td>4,0</td>
<td>6,5</td>
<td>7,5</td>
<td>11</td>
</tr>
<tr>
<td>agitator motor power [kW]</td>
<td>1,1</td>
<td>1,5</td>
<td>1,5</td>
<td>2,2</td>
<td>2,2</td>
<td>7,5</td>
</tr>
</tbody>
</table>
LAK crystallization process with cooling hopper KT

**principal function:**

**material flow**
cold material is loaded into the crystallizer and then heated up to the process gas temperature. The hot material then is discharged from the crystallizer into the cooling hopper where the material is cooled by incoming process air at 2°C.

**process air**
the process air blower sucks in filtered ambient air and blows it into the cooling hopper. The heat coming with the material from the crystallizer is transferred to the process air as the material cools down. The preheated process air then passes filters before it goes to the heating chamber where the air is brought up to the specific crystallizing temperature. After the process air went through the crystallizer where it transfers its heat load to the incoming cold material and is finally released in cool condition back to the environment.

By pre warming the process air in the cooling hopper the process air heater has only to generate the energy difference from the air temperature leaving the cooling hopper to the specific crystallizing temperature.

**Energy Savings Potential:**
up to 60%

---

**Description of the crystallizing process - "Crystallization"**

In the plastic processing industries crystallizers are mainly used where bulk materials (granulates or regrinds) after an extrusion process and sharp cooling phases remain partly or complete in amorphous condition and the transfer of molecules from amorphous to partly crystalline structures happens during solid condition of the resins. This goes along with a glass transition which sets free energy that weakens temporarily the material. The most common applications for this kind of crystallization can be found where PET (Polyethylene terephthalate) and PLA (Polyactid) is processed. PLA is a degradable plastic material based on lactic acid.

Crystallization in an exothermic reaction which has an impact on the flowing characteristics of the bulk materials that may stick together temporarily. The glass transition temperatures of PET vary in the range of 72 to 110°C. Higher grades of crystallization are typically reached at drying temperatures of 160 to 180°C. But this does not lead any more to significant changes of the product characteristics. The crystallization process as such happens typically in a time window of a few minutes. Depending on the composition of different plastic materials the sticking phases may vary remarkably.

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Series LEC
Lanco Energy Control

patented single chamber desiccant dryer
with continuous process air stream
German Patent #10 2006 049 437

combination of:

✓ LPC (Lanco Plast-Conditioner), a drying hopper with it’s own process air stream
and
✓ LEC - a single chamber dryer equipped with a blower for regeneration air and for filling up the drying hopper with resin

special features:
✓ no interruption of drying air stream during regeneration of the desiccant
✓ permanently constant dry air temperature regulation (+/- 1°C)
✓ very energy efficient and economical, no return air cooling needed
✓ universal applications up to 160°C drying temperature as standard

options:
- automatic re filling of the drying hopper by single loader or central systems
- min level sensor with horn or light signal
- slide gate at the funnel outlet
- adapter flange to fit on processing machine
- mobile support frame for the dry air generator LEC
- separate stand for dryer and hopper for installation besides processing machines
- suction pipe for connection with machine loaders
- separate control with cable connection and junction box
Functions:

1. dry air process
The process air flows from the blower (9) to a 3-way valve (11) and then through the desiccant chamber (14). Here the moisture in the process air is absorbed. Dried air then flows to another 3-way valve (19), passes the optional Hepa filter (22) or goes directly to the heater (23) to the drying hopper (1). The drying air flows through the resin filling in the drying hopper and carries out the released moisture from the plastic granules (5). The drying air then goes as return air (6) to the return air filter (7) where dust particles are separated. Then the air goes back in a closed loop to the suction side of the process air blower (3).

2.) regeneration process
By activating the solenoid valve (39) both 3 way valves (11+19) are switched over is such a way that the process air stream through the drying hopper bypasses now the desiccant chamber. A constant air stream through the drying hopper and the exact dry air temperature regulation is now given while the desiccant chamber is regenerated. For driving out the moisture from the desiccant ambient air is sucked by a filter (36) to the regeneration blower (36) and then on the pressure side passes a check valve (33) and flows to the desiccant chamber (14) where the heater (16) is driving out by hot air over 200°C the collected moisture from the desiccant agent (17). The moisture loaded exhaust air then is guided by the 3way valve (19) back to the environment (31). After reaching the preset regeneration air temperature the heater (16) is switched off and the desiccant bed is now cooled down again to avoid a sharp peak of the dry air when switching the desiccant back in the process air stream. After cooling down the 3way valves (11 +19) switch the desiccant chamber back in the air stream going through the drying hopper.

<table>
<thead>
<tr>
<th>Hopper Volume</th>
<th>resin filling</th>
<th>Process air</th>
<th>heating capacity</th>
<th>Supply Voltage</th>
<th>Regeneration heater</th>
</tr>
</thead>
<tbody>
<tr>
<td>Litres</td>
<td>[kg]*</td>
<td>amount</td>
<td>[kW]</td>
<td>[V]</td>
<td>[kW]</td>
</tr>
<tr>
<td>15</td>
<td>9</td>
<td>20</td>
<td>1</td>
<td>230 V</td>
<td>3.0 kW</td>
</tr>
<tr>
<td>30</td>
<td>18</td>
<td>40</td>
<td>1.5</td>
<td>230 V</td>
<td>3.0 kW</td>
</tr>
<tr>
<td>50</td>
<td>30</td>
<td>60</td>
<td>2.4</td>
<td>230 V</td>
<td>3.0 kW</td>
</tr>
<tr>
<td>80</td>
<td>48</td>
<td>100</td>
<td>4.5</td>
<td>400 V - 3phase</td>
<td>3.0 kW</td>
</tr>
</tbody>
</table>

*at bulk density 0.6 kg/l
Equipment assembly for plastic processing machines that guarantees extremely constant material terms in the extruder inlet zone. No more short shots or mould flashing due to temperature or density variations and/or moisture variability.

The highly exact temperature regulation leads to very stable conditions as far as reproducibility of injection pressure at moulding machines and sturdy extruder output is concerned.

By use of pre-dried hygroscopic resins and also when feeding back sprue regrind to moulding machines the LANCO Plast-Conditioner uniforms the drying degree entering the extruder in such a way that the best possible yield rates are no longer an hazardous game but get achieved permanently.

The unique application possibilities and the range of optional features open new dimensions for an advantageous material preparation.
Special features:

- constant, highly exact temperature regulation (+/- 1 °C).
- extremely energy-efficient and economically
- increase of plastification output and quality
- 2 temperature presets for running machine or stand by
- universal applications in plastic processing

Options:

- applicable for inert gas or pre dried compressed air
- applicable for dried air supply
- automated material feeding by single loaders or central systems
- level control coupled with signal lamp / horn
- slide valve in the material outlet of the LPC
- flange assembly to fit on the processing machine
- central dry air generator to supply several LPC’s
- mobile basic frame for the LPC
- static basic frame for a separate installation
- suction devices for automatic material loading
- external control and supervision via Ethernet

<table>
<thead>
<tr>
<th>Hopper volume</th>
<th>Art.no.</th>
<th>Capacity</th>
<th>Airflow</th>
<th>Heating power</th>
<th>Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>[l]</td>
<td>[kg]</td>
<td>[m³/h]</td>
<td>[kW]</td>
<td></td>
<td>[V]</td>
</tr>
<tr>
<td>5-10</td>
<td>2541.08</td>
<td>3-6</td>
<td>1-12</td>
<td>1</td>
<td>230 V</td>
</tr>
<tr>
<td>15</td>
<td>2513.08</td>
<td>9</td>
<td>20</td>
<td>1</td>
<td>230 V</td>
</tr>
<tr>
<td>30</td>
<td>2514.08</td>
<td>18</td>
<td>40</td>
<td>1.5</td>
<td>230 V</td>
</tr>
<tr>
<td>50</td>
<td>2515.08</td>
<td>30</td>
<td>60</td>
<td>2.4</td>
<td>230 V</td>
</tr>
<tr>
<td>80</td>
<td>2516.08</td>
<td>48</td>
<td>100</td>
<td>4.5</td>
<td>400 V</td>
</tr>
</tbody>
</table>

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Dew-Point-Measurement

The mobile dew point measuring suitcase LA – TPK is the ideal service device. It misses fast and reliably the dew point. By the internal accumulator the device runs up to 15 hours.

Special features:

✓ mobile dew point measuring
✓ measuring chamber
✓ suitcase
✓ nemeral Display
✓ integrated power supply 110 – 240 V/AC
✓ loading in tehe outlet
✓ connection possibility for 12 V of car outlet
✓ LxBxH: 345 x 230 x 150 mm
✓ measurement range: -42 bis +20Td, 0.1 bis 90%rF, 1 to 50 °C
✓ display range: -46 bis +46Td, 0 bis 100%rF, -20 to 60 °C
Dryer

Series LTA
dehumidifying system for technical polymers

Standard features:

- air conditioning with molecular sieves
- automatic regeneration of the three bed chamber
- heating control over solid state relays
- touch screen
- weekly timer
- timing cycle or rather in option dew point control
- filter interception
- energy saving regeneration
- high efficiency level up to -40°C dew point
LANCO-Dryer
Series LTA

Dryer of the model LTA existing with three bed chambers. Special thermodynamics use Zeolites featuring low energy consumption and a high production capacity.

The regeneration of the bed chambers are working by timing cycle or in option with dew point control.

The chilling of the regenerated molecular sieves happens with process air from the drying air circulation. Through this a loading with humidity is avoided in the chill phase, and the procedure thereby reaches a very favorable efficiency.

The control of the dryer happens by an own - LANCO - microprocessor control.

From LANCO even developed and consecutively cultivated software guarantees sure operation for many years.

CE-Conformance is guaranteed and is certified obligatorily.

<table>
<thead>
<tr>
<th>Models</th>
<th>Art.No.</th>
<th>Airflow</th>
<th>Air blower power</th>
<th>Connected load</th>
</tr>
</thead>
<tbody>
<tr>
<td>LTA 4</td>
<td>10001.08</td>
<td>360 Nm³/h</td>
<td>2.2 kW</td>
<td>18 kW</td>
</tr>
<tr>
<td>LTA 5</td>
<td>10002.08</td>
<td>720 Nm³/h</td>
<td>3.0 kW</td>
<td>19 kW</td>
</tr>
<tr>
<td>LTA 5 plus</td>
<td>10003.08</td>
<td>900 Nm³/h</td>
<td>4.0 kW</td>
<td>20 kW</td>
</tr>
<tr>
<td>LTA 6</td>
<td>10004.08</td>
<td>1.100 Nm³/h</td>
<td>7.5 kW</td>
<td>23 kW</td>
</tr>
<tr>
<td>LTA 7</td>
<td>10005.08</td>
<td>1.800 Nm³/h</td>
<td>11 kW</td>
<td>37 kW</td>
</tr>
<tr>
<td>LTA 8</td>
<td>10006.08</td>
<td>2.000 Nm³/h</td>
<td>20 kW</td>
<td>47 kW</td>
</tr>
</tbody>
</table>

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Series LTC

dehumidifying system for technical polymers

Standard features:

✓ Small mobile dryer with great performance
✓ Compact unity with integrated drying hopper
✓ Dryer for small and middle processing companies
✓ Sensor-supervised expiries
✓ Automatic regeneration of the tower filled with zeolite
✓ From influence of the weather independent approach
✓ High operational safety

<table>
<thead>
<tr>
<th>Art.-No.</th>
<th>Description</th>
<th>Throuput</th>
<th>Airflow</th>
<th>Hopper-volume</th>
<th>Heating power</th>
<th>Total-power</th>
<th>(BxTxH)</th>
<th>Weight*</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019.08</td>
<td>LTC 40-50</td>
<td>15-30 kg/h</td>
<td>45 m³/h</td>
<td>50 Liter</td>
<td>3.4 kW</td>
<td>4.0 kW</td>
<td>43 x 110 x 144 cm</td>
<td>125 kg</td>
</tr>
<tr>
<td>2017.08</td>
<td>LTC 40-80</td>
<td>25-40 kg/h</td>
<td>65 m³/h</td>
<td>80 Liter</td>
<td>4.5 kW</td>
<td>6.3 kW</td>
<td>43 x 110 x 144 cm</td>
<td>155 kg</td>
</tr>
<tr>
<td>2030.08</td>
<td>LTC 100-125</td>
<td>40-80 kg/h</td>
<td>100 m³/h</td>
<td>125 Liter</td>
<td>4.5 kW</td>
<td>6.3 kW</td>
<td>43 x 110 x 154 cm</td>
<td>180 kg</td>
</tr>
</tbody>
</table>

Supply voltage 3 x AC 400 V, PE 50 Hz

Stand: 01.11.2011
LANCO- mobile dryers
series LTC

Modular dryers LTC consist of a desiccant dry air generator and a drying hopper as a mobile unit and are designed for automatic pre drying of granulated plastic materials by very dry air at adjustable temperatures due to the different resins. As result of the right drying temperatures and the necessary residence times very low track moisture levels are achieved for best yield figures. The automatic drying procedure is fully controlled by microprocessors and the necessary sensors for temperatures, air stream etc. This guarantees a high safety standard and improves the quality level of the final products.

<table>
<thead>
<tr>
<th>Material</th>
<th>Drying temperature °C</th>
<th>Drying time</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABS</td>
<td>80</td>
<td>2 - 3</td>
</tr>
<tr>
<td>CA</td>
<td>75</td>
<td>2 - 3</td>
</tr>
<tr>
<td>CAB</td>
<td>60</td>
<td>2 - 4</td>
</tr>
<tr>
<td>CP</td>
<td>60</td>
<td>2 - 4</td>
</tr>
<tr>
<td>PA 11 12</td>
<td>70 - 110</td>
<td>4 - 5</td>
</tr>
<tr>
<td>PA 6.x</td>
<td>70 - 110</td>
<td>4 - 6</td>
</tr>
<tr>
<td>PBT</td>
<td>140</td>
<td>4 - 5</td>
</tr>
<tr>
<td>PC</td>
<td>120</td>
<td>2 - 3</td>
</tr>
<tr>
<td>PE gefüllt</td>
<td>40 - 90</td>
<td>1 - 4</td>
</tr>
<tr>
<td>PEEK</td>
<td>150</td>
<td>2 - 4</td>
</tr>
<tr>
<td>PES</td>
<td>150</td>
<td>2 - 4</td>
</tr>
<tr>
<td>PET</td>
<td>140 - 180</td>
<td>3 - 6</td>
</tr>
<tr>
<td>PETG</td>
<td>50 - 70</td>
<td>4 - 5</td>
</tr>
<tr>
<td>PI</td>
<td>120</td>
<td>2 - 3</td>
</tr>
<tr>
<td>PMMA</td>
<td>80</td>
<td>3 - 4</td>
</tr>
<tr>
<td>POM</td>
<td>100</td>
<td>2 - 3</td>
</tr>
<tr>
<td>PP gefüllt</td>
<td>90</td>
<td>1 - 3</td>
</tr>
<tr>
<td>PPO</td>
<td>100 - 120</td>
<td>1 - 3</td>
</tr>
<tr>
<td>PPS</td>
<td>150</td>
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</tr>
<tr>
<td>PSU</td>
<td>120</td>
<td>2 - 3</td>
</tr>
<tr>
<td>PUR</td>
<td>90</td>
<td>2 - 4</td>
</tr>
<tr>
<td>PVC</td>
<td>70</td>
<td>1 - 2</td>
</tr>
<tr>
<td>SAN</td>
<td>80</td>
<td>2 - 3</td>
</tr>
<tr>
<td>SB</td>
<td>80</td>
<td>2 - 3</td>
</tr>
</tbody>
</table>

Drying Hoppers:
The drying hopper is an important component of the mobile dryer units. It is designed in such a way that equal flow of the granulated resins during the necessary residence time of the products is given. Heat losses are minimized by fully insulation of the hopper and the flow out cone with suction pipe. For automatic filling of the drying hopper its lid is equipped with a flange where a Lanco hopper loader can be easily fixed. For automatic transport to the processing machine a suction pipe 40mm Ø is integrated in the drying hopper outlet zone.

Functions:
During the drying mode dried air at constant temperature flows through the granulated resin in the hopper. As consequence of the high water pressure difference between the resin and the process air the internal moisture comes fast to the surface of the granules and is taken over by the vertical air stream in the hopper. The return air from the drying hopper is now send trough a desiccant bed where the moisture is absorbed by molecular sieve granules based on enriched Zeolithe crystals. In a closed loop circuit the process air now is heated up again to the selected drying temperature and goes back to the drying hopper at very low dew point. The absorbed moisture is driven out from the desiccant from time to time in a regene-ration cycle and the water molecules are given back as water steam to the surrounding atmosphere.

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Stand: 01.11.2011
Series LTW

dehumidifying system for technical polymers

Special features:

- air conditioning with molecular sieves (Zeolite)
- automatic regeneration of the molecular sieves
- heating control over solid state relays
- filter interception
- high efficiency level up to - 40 °C dew point

Series LTW

<table>
<thead>
<tr>
<th>Model</th>
<th>LTW 50</th>
<th>LTW 80</th>
<th>LTW 125</th>
<th>LTW 200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Article-No.</td>
<td>1992.08</td>
<td>1993.08</td>
<td>1787.08</td>
<td>1326.08</td>
</tr>
<tr>
<td>Airflow¹</td>
<td>m³/h</td>
<td>63-80</td>
<td>88-110</td>
<td>135-170</td>
</tr>
<tr>
<td>Power rating²</td>
<td>kW</td>
<td>8/9</td>
<td>8,75/10,55</td>
<td>12,5/14,30</td>
</tr>
<tr>
<td>Heater</td>
<td>kW</td>
<td>2 x 3,4</td>
<td>2 x 3,4</td>
<td>2 x 4,5</td>
</tr>
<tr>
<td>Air blower</td>
<td>kW</td>
<td>2 x 0,4</td>
<td>2 x 0,76</td>
<td>2 x 1,5</td>
</tr>
<tr>
<td>Rated current³ approx.</td>
<td>A</td>
<td>13/14,5</td>
<td>14/16</td>
<td>20/22</td>
</tr>
<tr>
<td>Ø-Voltage 80 °C</td>
<td>kW</td>
<td>4,5/5</td>
<td>4,5/5</td>
<td>5,5/6,5</td>
</tr>
<tr>
<td>B x T x H</td>
<td>mm</td>
<td>660 x 660 x 1.400</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flow line pipe/Return line pipe</td>
<td>mm</td>
<td>Ø 50 x 50</td>
<td>Ø 50 x 50</td>
<td>Ø 60 x 50</td>
</tr>
<tr>
<td>Regeneration pipe</td>
<td>mm</td>
<td>Ø 40 x 50</td>
<td>Ø 40 x 50</td>
<td>Ø 50 x 50</td>
</tr>
<tr>
<td>Zeolite in tower</td>
<td>kg</td>
<td>2 x 7,5</td>
<td>2 x 7,5</td>
<td>2 x 12,5</td>
</tr>
</tbody>
</table>

¹ Airflow programmable ² with/without option forward heater ³ Research means ⁴ Height measure without connection carbin and base
LANCO-Dryer
Series LTW

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<th>Drying temperature °C</th>
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<td>CA</td>
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</tr>
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<td>60</td>
<td>2 - 4</td>
</tr>
<tr>
<td>PA 11 12</td>
<td>70 - 110</td>
<td>4 - 5</td>
</tr>
<tr>
<td>PA 6.x</td>
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<tr>
<td>PBT</td>
<td>140</td>
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</tr>
<tr>
<td>PC</td>
<td>120</td>
<td>2 - 3</td>
</tr>
<tr>
<td>PE gefüllt</td>
<td>120 - 180</td>
<td>3 - 6</td>
</tr>
<tr>
<td>PEEK</td>
<td>150</td>
<td>2 - 4</td>
</tr>
<tr>
<td>PES</td>
<td>150</td>
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<tr>
<td>PET</td>
<td>140 - 180</td>
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<tr>
<td>PETG</td>
<td>50 - 70</td>
<td>4 - 5</td>
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<td>120</td>
<td>2 - 3</td>
</tr>
<tr>
<td>PMMA</td>
<td>80</td>
<td>3 - 4</td>
</tr>
<tr>
<td>POM</td>
<td>100</td>
<td>2 - 3</td>
</tr>
<tr>
<td>PP gefüllt</td>
<td>90</td>
<td>1 - 3</td>
</tr>
<tr>
<td>PPO</td>
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<td>PPS</td>
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<td>PVC</td>
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<tr>
<td>SB</td>
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</tbody>
</table>
Dryers

Series LTX

dehumidifying system for CD, DVD, Blu Ray and optical products

Standard features:

✓ perfect yield rates when producing optical mouldings
✓ drying resins down to less than 0.005% final humidity
✓ economical process with no cooling water required
✓ resin dust removal function included in machine loader
✓ closed loop conveying air circuit to moulding machines
LANCO-Dryer
Series LTX

The LANCO LTX modular dryers are the right choice for CD molders that wish to have the highest performance and perfect yields. Our newly designed cabinet fits on only 1/2 m² floor space, but still contains all of the components you need to feed up to four molding machines with dry PC at less than 0,005 % final humidity. Guaranteed!

The drying process is perfectly controlled by microprocessors. This control has been proven in more than 1000 dryers operating worldwide 24 hours a day.

LANCO is one of the pioneers serving the CD industry since 1986. Take advantage of the know how and experience we have developed over the years. Solutions for CD-Audio and -ROM, CD-R and CD-MO can be configured, as well as dryers for DVD and the recordable versions of this new optical disc formats.

Quality comes first
LANCO accepts no compromise when choosing the best materials and controls for its dryers and material handling systems. There is no simple gimmick that makes our systems work so well. It is our dedicated effort to improve both our product and our service to our customers. You can count on LANCO quality for many years of production.

Make LANCO LTX dryers work for your business. You will never find a better, more reliable solution.
Insulated Hoppers
made of aluminium or stainless steel

Special Features:
✓ hopper insulated with 50 mm thickness ceramic fibre for working temperatures up to 200 °C
✓ hopper lid with chamber for Lanco hopper loader
✓ cone with adapter flange

Option:
- Inspection door for easier cleaning
- other manufactured size on application

<table>
<thead>
<tr>
<th>Art.-No.</th>
<th>50L</th>
<th>100L</th>
<th>200L</th>
<th>300L</th>
<th>400L</th>
<th>500L</th>
<th>800L</th>
<th>1000L</th>
<th>1200L</th>
<th>1600L</th>
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www.lanco.de
Bag Discharging Frame

to empty of bag products

Special features:

✓ Welded angle iron construction
✓ support for emptying of the material
✓ swivelling cover
✓ cone 90°
✓ suction box mit suction probe Ø 60 mm
✓ Four legs and base plates to the anchorage
✓ LxBXH: 750 x 750 x 840 mm
Octabin Overturn Frame

for emptying Octabin

Special features:

- easy emptying by inclination of the Octabin to 30°.
- operation by pneumatic hand lever.
- steel frame platform with steel tear metal.
- supporting frame from square pipe.
- steel parts powder-coatedly (colour by customer wish).
- load-carrying capacity to 1,500 kg
- measure: 1.400 x 1.400 x 2.050 mm
Storage container

for the storage of plastic granulate material

Special features:
- 4 leg rack, mobile with 2 swivel rollers and 2 brake roles
- lateral carbine for removal by suction pipe NW 40
- cid removable with handle
- container lid prepares for automatic container filling
- crossbar
- movement handhold in the cylindrical container part

Options:
- show glass for optical filling state control
- filling level probe for automatic filling state supervision
- suction box for customer specification

<table>
<thead>
<tr>
<th>volume Litre</th>
<th>total height H mm</th>
<th>cyl. height mm</th>
<th>Ø / D mm</th>
<th>cone</th>
<th>Art.No. aluminium</th>
<th>Art.No. stainless Steel</th>
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<tbody>
<tr>
<td>50</td>
<td>600</td>
<td></td>
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<td>60°</td>
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<td>90°</td>
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</tbody>
</table>

* bulk density 0.65 kg/dm³

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Storage Bin

Storage bin
for the storage of plastic granulate material

Special features:
- mobile application with different raw materials
- available in two dimensions
- made of stable plastic, standard colour grey (red, yellow, green or blue - quotation)
- openable lid with handle
- connecting piece (Ø 70 oder 80 mm) to the automatic product withdrawal

<table>
<thead>
<tr>
<th>Volume Liter</th>
<th>Measure H/T mm</th>
<th>Suction probe* NW mm</th>
<th>Double probe Ø mm</th>
<th>Connecting piece Ø mm</th>
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</thead>
<tbody>
<tr>
<td>120</td>
<td>930/570</td>
<td>40</td>
<td>60</td>
<td>70</td>
</tr>
<tr>
<td>240</td>
<td>1,080/750</td>
<td>50</td>
<td>60</td>
<td>70</td>
</tr>
</tbody>
</table>

Description | Art.-No. |
-------------|----------|
Storage bin 120 Liter, grey | 1308.08 |
Storage bin 240 Liter, grey | 1307.08 |
Mounting plate aluminium with adapter for suction probe D 40 oder D 50 | 2104.08 |
Suction probe D 40, vertical, aluminium | 1078.08 |
Suction probe D 50, vertical, aluminium | 1081.08 |
Storage container

BIG - BAG - UNLOADER

for free flowing bulk materials

Special features:

✓ for free flowing bulk materials
✓ feed opening Ø 400 mm with removable lid
✓ cover removable
✓ cone with suction box and suction probe
  for the product removal of suction conveyor
✓ conveying air intake filter

Option:
  o fill nozzle diameter to customer care
  o aluminium or stainless steel

<table>
<thead>
<tr>
<th>Art.No.</th>
<th>Material</th>
<th>Volume</th>
<th>Fill nozzle Pcs.</th>
<th>Ø</th>
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<td>2407.08</td>
<td>aluminium</td>
<td>250 l</td>
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<td>2408.08</td>
<td>aluminium</td>
<td>400 l</td>
<td>2</td>
<td>70</td>
</tr>
<tr>
<td>2409.08</td>
<td>aluminium</td>
<td>750 l</td>
<td>2</td>
<td>70</td>
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<tr>
<td>2410.08</td>
<td>aluminium</td>
<td>1250 l</td>
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<td>70</td>
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<tr>
<td>1998.08</td>
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<td>250 l</td>
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<td>40</td>
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<tr>
<td>1298.08</td>
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<td>4</td>
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<tr>
<td>1999.08</td>
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<td>750 l</td>
<td>4</td>
<td>40</td>
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<tr>
<td>1917.08</td>
<td>stainless steel</td>
<td>1250 l</td>
<td>4</td>
<td>40</td>
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</tbody>
</table>
BIG-BAG-BIN

- top cover
- access cover
- fastener
- position level probe
- support electrical box
- support for filter
- metal connection piece diam./mm.

Available in different sizes on request.

Filter

### BIG-BAG-BIN

<table>
<thead>
<tr>
<th>Volume (l)</th>
<th>H (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>250</td>
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</tr>
<tr>
<td>400</td>
<td>1000</td>
</tr>
<tr>
<td>750</td>
<td>1250</td>
</tr>
<tr>
<td>1000</td>
<td>1400</td>
</tr>
<tr>
<td>1250</td>
<td>1600</td>
</tr>
</tbody>
</table>

Load capacity: 1500 kg

### BIG-BAG-adapter

<table>
<thead>
<tr>
<th>Nominal diameter</th>
<th>Internal diam. (mm)</th>
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</thead>
<tbody>
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<td>160</td>
<td>140</td>
</tr>
<tr>
<td>260</td>
<td>250</td>
</tr>
<tr>
<td>300</td>
<td>290</td>
</tr>
<tr>
<td>390</td>
<td>380</td>
</tr>
</tbody>
</table>

### Further Options:

- Inspection glass
- Level indicator (base, pr. 2500)
- Recessed

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