

KRONES INC P.O. Box 321801, FRANKLIN WI 53132, USA

Delivery address XXXXXXXXX-PAULSBORO LUBE PLANT 1001 BILLINGSPORT ROAD, PAULSBORO NJ 08066, USA

Detailed quotation of 12.09.2014 Krones guarantees a 97% efficiency on the packer based on Din Standard 8782. 26459065 / Layout PL094556B0000006

5 qt XXXXX 1 bottles, 2x2 case @ a speed of 8.400 bottles per hour 5 qt XXXXX 1 bottles, 3x1 case @ a speed of 5.400 bottles per hour 5 qt conventional bottles, 2x2 case @ a speed of 8.400 bottles per hour 5 qt conventional bottles, 3x1 case @ a speed of 5.400 bottles per hour 1 gallon conventional bottles, 2x2 case @a speed of 8.400 bottles per hour 1 gallon conventional bottles, 3x1 case @ a speed of 5.400 bottles per hour

KRONES, INC 9600 South 58th Street Franklin, WI 53132-6300 Sales representative/Subsidiary John Muha Krones Inc. FRANKLIN WI 53132-0100 USA Tel. 973-829-1040 Fax 973-829-1305 john.muha@kronesusa.com Internal contact person Lisa Wentland Franklin Tel. +1 414 409 4028 Fax Lisa.Wentland@kronesusa.com



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Management Summary

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We do more

KRONES installs 150 to 170 packaging lines per year. Each line is a combination of machines manufactured by KRONES and by 3rd party vendors (OEMs). Based on experience in integration projects ranging in varying levels of complexity

KRONES can offer a customized integration solution that understands product, market, and machinery synergies. Our experience in these areas offers a unique blend of engineering professionalism and technical acumen not to be matched with other suppliers. In selecting KRONES as a turnkey-supplier or integrator, YOU can rely on this depth of experience and high level of know-how.

Service support / Project execution

KRONES has a global service team comprised of over 1400 resources worldwide. Our service organization is decentralized offering 7 Life Cycle Centers globally. Thus, KRONES offers the assurance that regardless of project or country your corporate goals will be met in a timely, professional manner.

The KRONES Inc. domestic integration team is headquarted in Franklin, Wisconsin. Based on the scope and dimension of this Project, a domestic team leader will be selected along with assigned technical divisions that include Electrical, Mechanical, Software, and IT. A combination of technical expertise will be drawn on from Franklin as well as KRONES AG with parallels in all disciplines both domestically and internationally.

Project Management

KRONES has a team of 175 Project Managers, speaking over 20 languages. These Project Managers are the key contact, communicating to YOU and all subsuppliers. This leads to a reduction in communication errors and a clear definition of responsibility. Of course we will select the best possible Project Manager for your project based on know-how, experience, and language skills.

Strong Partnership

A strong partnership needs two strong partners and a good and trustful relationship. This is especially true when considering a long term business strategy. It is crucial to select a vendor who can offer its products and services today and also in 5 to 10 years from now. YOU can trust in KRONES as the right partner for a long term business relationship.

Installation costs depending on work involved:

• The customer is responsible for complete machine installation. This includes but is not limited to uncrating, transport, leveling, line integration, wiring, piping, and removal of any existing equipment.

• Installation supervision, machine start up, and machine commissioning are available at an additional cost on a time and material basis for both Krones equipment and any third party OEM equipment supplied with the original order.

• Scheduling of required services are the responsibility of the customer or their designated agent in charge of the installation project.

• A purchase order must be issued to Krones Incorporated before the dispatching of any technicians to the customers location.

• Services will be invoiced per the current General terms and conditions of the Krones Incorporated Service Department Please contact Krones Technical Service Department at 414-409-4440 from 7:00am to 4:30pm central time to obtain the latest service rates, to schedule any of these services, or if you have any additional questions.

Management Summary

Quote validity: This quote is valid for 30 days

Sample material: Machine sizing and pricing is subject to review and evaluation of actual samples and product specifications please do not hesitate to contact me.

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Contract basis:

according to Incoterms 2010 of International Chamber of Commerce

Pricing:

The prices do not include any access devices (stairs, ladders, platforms etc. corresponding to design EN ISO 14122-2/-3) according to EU Declaration of Confirmity 98/37/EU annex 1, figure 1.6.2, as far as the access devices are not included and described in the document. Regarding these access devices, the parties will make separate price agreements whether the access devices are not provided by the customer.

Delivery and prices (in Euro) are DAP (Delivered at Place)

Warrantv

The warranty period starts from the end of commissioning, or at latest 6 months after delivery, if the stipulated acceptance schedule can not be adhered to due to reasons for which KRONES AG is not responsible. If the customer is in default of acceptance, the warranty period starts at the date of the default of acceptance.

Limitation of Liability, Indemnity

Warranty for defects does not cover wear parts of normal use. Furthermore, KRONES shall not be liable for defects or damages arising for the following reasons: improper use, poor maintenance, modification without the written consent of KRONES, incorrect repairs carried out by the customer, noncompliance with operating manual and instructions, normal wear and tear, chemical, electronic or electrical conditions not mentioned in the agreement, faulty replacement materials, and defects based on designs stipulated or defined by the customer or on materials stipulated, defined or supplied by the customer, including sample materials, and on any other items supplied by the customer. KRONES is not liable for any indirect damages and/or consequential damages (including damages resulting from lost profit, production shortfall and/or works stoppage), whatever the legal basis. This exclusion of liability does not apply to claims pursuant to Section 1 ff of the German Product Liability Law (Produkthaftungsgesetz), nor to claims due to a maliciously concealed defect, nor to claims of the customer for damages due to gross negligence (premeditation/gross negligence) or due to the acceptance of a quality warranty, nor to claims due to injury to the life or limb or health of the customer, his organs and his employees, nor to claims due to a hindrance of performance existing at the time of signing the agreement which was known to KRONES at the time of signing the agreement or ignorance of which was within the control of KRONES. The aforementioned arrangements do not change the burden of proof to the disadvantage of the customer.

Miscellaneous

Any and all legal relationships resulting from the contract and from any ancillary business and/or consequential business for the contracting parties and for their legal successors shall only be governed by the law of the Federal Republic of Germany. The present choice of law shall also be governed by the law of the Federal Republic of Germany. The UN Convention on Contracts for the International Sale of Goods (Convention of the United Nations of 11 April 1990) shall not be applied. In addition, the General Terms and Conditions of Sale and Delivery of KRONES shall apply.

Commissioning

Commissioning is completed if a saleable product is available at the inferface downstream the KRONES machine or "on pallet" in any configuration of the sold processing programme. A prerequisite for observation of the commissioning deadlines is the customer's timely and appropriate compliancy with the contractual obligations.

Commissioning is also considered completed if the stipulated commissioning schedule can not be adhered to, and KRONES AG is not responsible for this failure. KRONES AG announces successful commissioning.

In the event of any kind of obstructions for which KRONES AG is not responsible, KRONES AG is authorised to demand an adequate prolongation of the commissioning term and additional payment for compensation of additional work and/or mance, Sale and Delivery of KRONES (Allgemeine Leistungs-, Verkaufs- und costs.

Acceptance conditions, on-site assembly

Acceptance is carried out according to DIN 8782 / 8783 / 8784.

downtimes according to DIN 8782 / 8783 / 8784. Acceptance begins with a flying be provided on request. start, i. e., the line is filled prior to the start of the acceptance procedure. Then, production will be stopped and time measurement will be started once the bottle Packing

stop at the filler has been released.

The acceptance procedure lasts 1 x 8 hours.

Acceptance is carried out with a defined configuration of the processing programme. This processing programme must be determined during a meeting preliminary to the acceptance procedure. It must have already been run on the respective KRONES machine.

During performance acceptance, the efficiency stipulated in the contract must be met.

In the event of unforseeable malfunctions, such as power failures, component failures, or failure of devices not included in the KRONES scope of supply, the acceptance procedure will be interrupted for the times required for elimination of the malfunction. These times are considered downtimes according to DIN 8782 / 8783 / 8784. The test time will prolonged accordingly.

The line is operated by the customer's operators instructed by KRONES. The acceptance is carried out by KRONES personnel in cooperation with the customer.

Sample Material

During order clarification, sample material of at least 1 to 5 pieces of each unit to be handled (containers, labels, packs, etc.) including the respective customer drawings must be provided so that classification and machine dimensioning will be possible.

Customer object drawings should be provided as IGES files for KRONES 3D-CAD. If a PET container already exists on the market, the customer should provide mould, customer drawing, and sample bottle.

If a container is newly designed, the KRONES Plastic Technology is to be involved as early as possible.

Also for proposals of labels, shrinkpacks or carton, the respective KRONES divisions should be involved as soon as possible for clarification.

Test material

To guarantee the test run in the KRONES factory stipulated in the contract, the complete customer objects according to test material request with reference to the scope of the order must be provided.

The test material request is sent by the KRONES sales department to the customer within 10 days after order notification. The customer must provide the test material free of charge and carriage paid.

The test material must have been provided 8 weeks prior to the delivery of the KRONES machines so that it will be available prior to commissioning of the respective KRONES machine.

The complete test material packages must always be delivered at the KRONES goods receipt 1/Neutraubling so that they can be forwarded to the individual plants. The test material and the bill of delivery must be marked with the respective order number.

Delivery date test/sample material

Date confirmations, particularly delivery, commissioning, or acceptance dates are based on the provision of sample material 5 days after placement of the order at the latest, and test material not later than 8 weeks prior to machine delivery. If these dates are not adhered to, set-up or the test for proper operation will be carried out at the customer's site and confirmed dates will be postponed accordingly.

Delayed test material delivery

The quoted prices refer to machine set up and test for proper operation at KRONES. If these can be carried out only at the site, extra costs will arise which will be charged to the customer if he is responsible for this change of location.

General Standard Terms and Conditions

The General Terms of Performance, Sale and Delivery of KRONES (Allgemeine Leistungs-, Verkaufs- und Lieferbedingungen von KRONES) and the General Terms of Installation of KRONES (Allgemeine Montagebedingungen von KRONES) shall apply in addition to the above. if any provisions of the General Terms of Perfor-Lieferbedingungen von KRONES) and the General Terms of Installation of KRONES (Allgemeine Montagebedingungen von KRONES) contradict the provisions of the current document, the latter shall take precedence. The customer's terms of purchase are excluded. The General Terms and Conditions of Performance, Sale Times such as handling parts change-over, maintenance times, CIP, are considered and Delivery and General Terms and Conditions of Installation of KRONES AG will

As far as the packaging rules and regulations oblige KRONES to take back the

transport packing material, the costs for the return of the packing material and the reasonable costs for its recycling are born by the customer. If the packing material can not be used again, the customer takes over the costs for material recycling. Additionally, the customer has to take over the costs for customs duties, costs for customs clearance caused by the return of the packing material.

A crane harness is disposed as a loan. Whether a crane harness is necessary for transport or positioning, KRONES reserves the right to pick up and take back the crane harness from the customer at own expense. The crane harness remains property of KRONES.

The customer is obliged to inform KRONES in due time and without having to be requested all proper packing requirements specific to the country (legal and real type, especially due to specific climatic conditions). If KRONES is not informed in due time, KRONES standard packaging as described in the quotation will be applied. In each case, the liability of KRONES is excluded due to insufficient packaging.

Freight / insurance

The customer is obliged to take over immediately the supplied machine(s) or equipment (hereinafter called "delivery item") upon notice that the goods are ready for dispatch or upon delivery according to the delivery agreement. In the case that the customer does not accept accordingly the conventionary delivery item, he is obliged to take over the caused costs for storage. Should KRONES receive payments with delay due to this delayed acceptance, the customer is obliged to compensate the interest loss according to§ 288 BGB. We reserve the right to claim further compensations. In case of a delayed acceptance of the depend on the acceptance, as though the delivery item has been accepted.

Unless otherwise agreed, the risk of accidental loss and accidental deterioration of the delivery item are passed from KRONES to the customer with transfer to the or transfer is delayed due to customers responsibility the risk of accidental loss and accidental deterioration is passed to the customer with the day of readiness for dispatch.

If KRONES has arranged the transport of the delivery item and if a transport damage or defects occurring during transport after transfer to the carrier KRONES transfers, if required by the customer, a title to insurance benefits to the customer 4. IMPAIRMENT OF CREDIT: for resulting claims against the transport insurance(s) and/or the carrier - with exclusion of liability of existence of these claims. This is effected step by step against payment of the agreed total price of the delivery item and all owed costs. Further claims of transport damage or defects occurred during transport against KRONES are excluded. This also applies if the delivery item includes assembly or turnkey installation.

1. OFFER; GOVERNING PROVISIONS:

This quotation is an offer or counteroffer by KRONES, Inc., a Wisconsin corporation additional security for any remaining balance of the purchase price. ("Seller"), to sell to the buyer identified in this quotation ("Buyer") the goods and/or services described in this quotation (the "Goods") in accordance with these 5. LATE PAYMENT: General Terms and Conditions (these "Terms and Conditions"), is not an acceptance or confirmation of any offer made by Buyer, and is expressly made conditional on assent to these Terms and Conditions. No additional or different terms or conditions will be binding upon Seller unless specifically agreed to in writing by Seller. Seller hereby objects to any such additional or different terms or mand, for any costs (including without limitation attorneys' fees and legal costs) conditions contained in any request for quotation, request for proposal, purchase incurred by Seller in the collection of any amounts owed to Seller hereunder. order, notice of award or other form, document or communication heretofore or hereafter received from Buyer. This quotation, including these Terms and Conditions, constitutes the entire agreement between the parties regarding the subject matter hereof (this "Contract"). Except as expressly contemplated herein, this Contract may not be altered, modified or amended, expect by a writing signed by added, excise or similar taxes, customs or other duties imposed on the sale of both parties hereto. This Contract may not be suspended, terminated or cancelled goods or services pursuant hereto (collectively, "Sales Taxes"). All such Sales Taxes by Buyer except upon terms and conditions accepted by Seller in writing.

2. LAYOUTS AND TECHNICAL DATA:

Buyer shall, at its sole expense, promptly furnish Seller with such layouts, technical specifications, sample materials, product specifications and any and all other KRONES the amount of the Sales Tax reflected in such invoice. KRONES uses the data and materials as may be necessary for the engineering and manufacture of the Goods and for all efficiency testing, acceptance testing and the like (if any). Seller has provided or intends to provide a questionnaire in connection with

Buyer's furnishing of such data and materials. Buyer shall submit all data and materials as contemplated by such questionnaire within ten (10) calendar days after Buyer accepts this quotation and submits its order for the Goods hereunder. Buyer shall not thereby be relieved of its obligations under the first sentence of this Section 2, however. Any and all costs that result from any changes in any such layouts, technical specifications, sample materials, product specifications and other data and materials so furnished shall be charged to Buyer, and any delay caused by such changes shall extend the delivery date. All such layouts, technical specifications, sample materials, product specifications and other data and materials shall be delivered at Buyer's sole expense to such KRONES AG facility (or other KRONES facility) as may be designated by Seller.

3. PRICE: DELIVERY TERMS

(a) The purchase price payable to Seller for the Goods will be as set forth in the quotation, subject to adjustment as contemplated by these Terms and Conditions. Unless otherwise provided in this Contract, the Goods shall be delivered to Buyer EXW plant of manufacture (as that trade term is defined in Incoterms 2010). Buyer shall bear all expenses paid or incurred by Seller in delivering the Goods.

(b) In the absence of shipping instructions agreed upon by the parties, the Goods are to be shipped by whatever shipping method Seller deems appropriate, and, in any event, the Goods are at the risk of Buyer from and after delivery and Buyer assumes all responsibility for shortage, loss, delay or damage in transit. All scheduled delivery dates are approximate. Seller shall not be liable for any damage or liability as a result of any delay, failure to deliver or other failure to perform due to any cause beyond Seller's reasonable control, including but not limited to any delivery item, the customer is obliged to effect the payment, whose payment date embargo or other governmental act, regulation or request, civil insurrection, civil disturbance, war, act of terrorism, fire, flood, hurricane or other act of nature or act of God, accident, strike or other labor disturbance, slowdown, act of Buyer, shortage of materials or failure of suppliers or subcontractors to satisfactorily meet scheduled deliveries, or any other factor or event beyond Seller's reasonable first carrier. If the delivery item or parts of it are ready for dispatch but the delivery control. In the event of any such delay, the date of delivery shall be extended for a period equal to the time lost because of the delay. Similarly, if Buyer fails to make the initial payment as required by this Contract or fails to furnish a completed questionnaire with all data or the required material within ten (10) calendar days after it orders the Goods, the delivery date shall be extended on the same basis. Use of the Goods by Buyer shall constitute a waiver of any claim for delay.

If Buyer (a) is or becomes insolvent or is unable to pay its debts as they mature, (b) files or has filed against it a bankruptcy, insolvency or any similar petition or is made the subject of an "order for relief" as that term is defined in the U.S. Bankruptcy Code, or (c) fails to make any payment hereunder as and when due, or if Seller has a reasonable belief that any of the foregoing is impending or otherwise in good faith doubts the ability of Buyer to pay the purchase price for the Goods, then Seller may at its option (i) suspend performance hereunder, (ii) terminate this Contract, (iii) demand cash payment in advance before shipments are made, regardless of the payment terms otherwise agreed upon, or (iv) otherwise require

Buyer agrees to pay interest at the rate of eighteen percent (18%) per annum, or at the highest rate permitted under applicable law, whichever is less, on invoiced amounts not paid when due and further agrees to reimburse Seller, upon de-

6. TAXES AND DUTIES:

The Aggregate Purchase Price does not include any applicable sales, use, valueare ultimately the responsibility of Purchaser and Purchaser hereby indemnifies KRONES in respect of such Sales Taxes. For jurisdictions in which KRONES is required to pay Sales Tax directly to the governmental entity, it will issue an invoice to Purchaser (either as a separate line item in an invoice or as a separate invoice) for the amount of the Sales Tax and Purchaser will promptly pay to Vertex computer software to calculate Sales Taxes and is required to pay Sales Taxes in most cases on a monthly basis. Therefore, if Purchaser believes that calculation of Sales Tax on the KRONES invoice is in error, it will (i) nevertheless



promptly remit to KRONES the amount of the Sales Tax reflected in such invoice, and (ii) give KRONES written notice of its calculation of the Sales Tax specifying the basis for the difference in detail and detailing its calculation of the applicable Sales Tax. Provided that KRONES finds that there is a reasonable basis for Purchaser's basis for disputing the amount of Sales Taxes, KRONES will undertake commercially reasonable efforts to assist Purchaser in filing for a refund or credit on Purchaser's applicable tax return for such disputed amount of Sales Taxes. If Purchaser believes that some or all of the goods or services purchased under this Agreement are exempt from Sales Tax, it shall before KRONES issues its first invoice under this Agreement provide KRONES with the form of exemption certifi- (b) This warranty is expressly limited to repair or replacement of the affected cate or other applicable instruments required by applicable law (if any) duly executed by Purchaser. If KRONES, using its reasonable judgment, determines that it is permitted without liability to rely on such exemption certificate or other instrument, it will forego the collection of Sales Tax for those items that are covered by the exemption certificate. If buyer provides seller with a tax exemption certificate or otherwise instructs seller that some or all of the transaction is tax free or that buyer will pay any sales or use tax directly, and ultimately some or all of the applicable tax is imposed on seller, buyer will indemnify seller against the taxes so imposed and any other costs arising therefrom.

7. INSPECTION AND ACCEPTANCE:

The Goods shall be deemed finally inspected and accepted within ten (10) calendar days after receipt thereof unless notice of a claim is given in writing to Seller within such time period.

8. INSTALLATION AND COMMISSIONING:

(a) Installation, commissioning and efficiency testing are not included in the purchase price for the Goods and must be specifically contracted for. The efficien- disclaims all other warranties, express and implied, including, but not limited to, effect at the time such tests are contracted for and will be conducted pursuant to those arising from course of dealing or usage of trade. Seller does not warranty the DIN 8782 standard.

ble at an additional cost pursuant to Seller's "General Terms for Technical Service" in terms of their correctness, accuracy, quality, reliability, appropriateness for a in effect at the time of contracting therefor. The period of service is generally dependent upon the type of machinery being installed.

(c) It is understood that one (1) "day" of service time is defined as eight (8) hours per day so that one (1) "week" of service amounts to forty (40) hours of time and each "week" or "day" additional are multiples of those respective times. It is understood that a reasonable charge for travel expenses will be made if such service time, because of a delay in the installation or of other factors or events within Buyer's control, is not provided on consecutive workdays. Also, an additional charge and traveling expense shall be made in the event the time exceeds the allowed period.

are to be installed conforms to the specifications and drawings furnished to Seller attempt to validate the Warranty Defect. If the Warranty Defect is valid, Seller or approved by Buyer, (ii) to procure any and all permits, licenses and similar authorizations necessary for Seller to perform its obligations at such facility, and (iii) in general, to make sure that such facility is adequately prepared for installation and operation of the Goods. Installation does not include start-up services unless such start-up services are specifically contracted for. Such start-up services Please Read Carefully*** Seller's sole obligation in respect of its warranty obligaare available for an additional charge on a time and materials basis.

(e) If installation and commissioning are specifically contracted to be performed by Seller, then, promptly upon completion of installation, Seller will begin the process of commissioning the Goods in accordance with such contract. Commissioning typically will need to be conducted using the same kinds of packaging and ** bottles throughout the process. Therefore, Buyer agrees that for the duration of contractors be liable to Buyer or any third party for any incidental or consequening type during production. If Buyer does not adhere to such commitment, then the ability of Seller successfully to conduct an efficiency test or tests will have been significantly compromised, and as a result, the requirement to conduct an efficiency test or tests will be deemed waived and any and all such tests will be deemed to have been successfully completed.

(f) Training is not included in this quotation unless expressly included and specifi- liability shall apply even if the express warranty set forth above shall fail of its cally itemized herein as a purchased item.

9. WARRANTY:

(a) Seller warrants that the Goods shall (i) be free from defects in materials and workmanship for a period (the "Warranty Period") ending on the earlier to occur of (x) 6,000 hours of operation on the Goods or (y) expiration of one (1) year after the first to occur of commencement of production by the Goods of saleable product or lapse of one hundred twenty (120) calendar days after the date of arrival of the Goods at Buyer's facility; and (ii) will be transferred free and clear of any thirdparty liens. The foregoing warranties are conditioned on Buyer paying the full purchase price for the Goods.

Goods (or component thereof). To the extent Seller elects to replace the defective part or component, its sole obligation shall be to provide the replacement without charge, and any associated freight or labor is not included in the warranty. This warranty shall not apply to any part of the Goods which becomes defective through misuse or abnormal use that is not contemplated as reflected in this Contract, nor shall it apply if the prerequisite conditions detailed in the warranty provision itself are not satisfied. This warranty shall not apply to any part of the Goods which becomes defective due to normal wear and tear or other causes that do not arise from any defect in the Goods. This warranty does not apply to any parts or components manufactured by third parties, including electrical components. Such parts and components are instead covered by the applicable manufacturer's warranty. Seller shall not be responsible for any defect or damages actually caused by failure to follow the operating instructions reflected in the Goods' various manuals, or failure to comply with the recommended maintenance program reflected in the Goods' various manuals.

(c) ***Important - Please Read Carefully*** Except as provided in these terms and conditions, the goods are provided "as is" with all faults and without warranty of any kind. Except as provided in these terms and conditions, Seller expressly cy test(s) (if any) will be conducted in accordance with Seller's standard protocol in the implied warranties of merchantability, of fitness for a particular purpose, and that the goods will meet Buyer's requirements or expectations, or that the operation of the goods will be uninterrupted or error-free. Seller does not warrant or (b) A service engineer to aid in the installation and start-up of the Goods is availa- make any representation regarding the use or the results of the use of the goods particular task or purpose or otherwise. No oral or written information or advice given by Seller shall create a warranty or in any way expand the scope of this warranty. This Section 9 constitutes the entire warranty provided under this contract.

> 10. BUYER'S EXCLUSIVE REMEDIES AND PROCEDURES REGARDING CLAIMS UNDER THE WARRANTY:

(a) Buyer shall notify Seller of any claim of defective material or workmanship (collectively the "Warranty Defect") in writing promptly upon its discovery by Buver.

(d) It is Buyer's responsibility (i) to make sure that Buyer's facility where the Goods (b) Promptly upon receipt of a written notice of a Warranty Defect, Seller shall shall, at its option, repair or replace the affected pieces of the Goods. Such repair or replacement shall be made as quickly as commercially reasonably possible. Any repaired or replaced Goods shall themselves be deemed to be covered by the warranty hereunder for the balance of the Warranty Period only. ***Important tions hereunder shall be repair or replacement of the affected goods (at Seller's option).

11. LIMITATION OF LIABILITY:

*Important - Please Read Carefully*** In no event shall Seller, its affiliates or any such commissioning, the Goods will be run using the same bottle and packag- tial damages (including, without limitation, indirect, special, punitive, or exemplary damages for loss of business, loss of profits, loss of goodwill or business reputation, business interruption, loss of data, or loss of business information) arising out of or connected in any way with this contract, or for any claim by any third party, whether arising out of breach of contract, warranty, tort (including negligence, errors and omissions and strict liability) or other theories of law, even if Seller has been advised of the possibility of such damages. This limitation of essential purpose. The maximum aggregate liability of Seller arising out of or related to breach of contract, breach of warranty (including the cost of repairing or replacing the goods), tort (including negligence, strict liability and errors and omissions) or any other cause or form of action shall not exceed the amount of



the purchase price actually received by Seller hereunder. The foregoing is not intended to limit Seller's liability in tort for personal injury (including death) or physical damage to property caused by Seller.

12. SECURITY INTEREST; INSURANCE:

Buyer grants to Seller a security interest in the Goods to secure payment of the purchase price therefor and all other fees or amounts, which are or become due and payable to Seller. In the event of nonpayment in breach of this Contract, or disposition or transfer of any of the Goods to a third party, Seller shall be entitled to foreclose on its security interest in the Goods. Seller is hereby authorized to file document is issued by Buyer to Seller that is intended to add, delete or change any financing statements or other documents to perfect the security interest granted in this Contract, including a UCC-1 statement in a form that is satisfactory to Seller. Buyer shall upon request provide Seller with a legal description of the such officers, shall override only those terms and conditions hereof as are specifi-"fixture filing". Seller's security interest in the Goods shall terminate upon Buyer's hereof not referenced or overridden in any separate document will remain bind-full and final payment of all sums due and owing. In addition, for so long as any ing. ***Important - Please Read Carefully*** This Contract shall be governed by full and final payment of all sums due and owing. In addition, for so long as any amount of the purchase price for the Goods remains unpaid, Buyer shall keep the and construed in accordance with the internal laws of the State of Wisconsin Goods insured against all casualty or loss for not less than the full amount of such without reference to principles pertaining to conflicts of laws. The rights and purchase price with an insurer reasonably acceptable to Seller, and Seller shall be named an additional insured and loss payee under such insurance policy. Such policy shall provide that Seller will be notified not less than thirty (30) calendar days prior to cancellation or amendment of the policy. However, the foregoing shall not change the time at which the risk of loss passes to Buyer, which shall remain in all events as set forth in Section 3 hereof.

13. SPECIFICATIONS:

Seller reserves the right to alter the design or specifications of the Goods at any time prior to delivery so long as such alteration does not materially change the basic function of the Goods or increase the purchase price therefor.

14. PATENTS:

tual property right of any third party. Seller shall indemnify and hold Buyer harmless from any third-party claim against Buyer arising from breach of the foregoing sentence if, and only if, Buyer notifies Seller thereof within a reasonable C. All prices are subject to change by Seller during the time prior to acceptance of period of time after Buyer is or becomes aware of such claim and gives authority, information and assistance (at Seller's expense) for the defense of such claim. If at any time Seller determines that there is a substantial question of infringement or in case the sale of the Goods or any part thereof is judicially held to constitute infringement and the use of the Goods or part thereof is enjoined by reason of such infringement, then in addition to the foregoing indemnification obligation, Seller shall have the right (but not the obligation) to, at its own expense, either (a) procure for Buyer the right to continue using and selling the Goods or part thereof; or (b) replace the Goods or part thereof with non-infringing goods; or (c) modify the Goods or part thereof so that they become non-infringing; or (d) remove the Goods and refund the purchase price and the transportation and installation costs thereof. The foregoing states the entire liability of Seller for patent infringement or other intellectual property infringement relating to the Goods.

The preceding paragraph does not apply to modifications made by Buyer to any goods (including the Goods), nor does it apply to any goods (including the Goods) or parts thereof manufactured to Buyer's design or specifications, and Seller shall have no liability or obligation whatsoever under the preceding paragraph in respect of any such goods. As to any and all such goods, Buyer shall indemnify and hold Seller harmless from and against any and all claims that such goods infringe the rights of any third party.

15. SAFETY:

Buyer assumes responsibility for the operation of the Goods in accordance with sound safety practices. Buyer shall use and shall require its employees to use any and all safety devices, guards, signs, instructions and safe operating procedures required by law, regulation, code or applicable safety standard or by Seller, and Buyer agrees not to remove or modify any such safety device, guard, sign, instruc- and without legal effect. tion or procedure for use provided with the Goods. Buyer shall indemnify Seller from and against any and all losses, liabilities, damages and expenses (including, without limitation, attorneys' fees and other costs of defense) that Seller may incur as a result of any breach by Buyer of this Section 15.

The terms and conditions of this Contract shall be considered to be the terms and conditions governing any purchase order issued by Buyer to Seller and any sales contract entered into by Buyer and Seller, and this Contract shall constitute the complete and exclusive statement of the terms and conditions hereof and thereof and shall supersede all prior oral and written statements of any kind whatsoever made by either party or their respective representatives. No statement or writing subsequent to this quotation purporting to modify or add to the terms and conditions hereof shall be binding unless consented to in writing by duly authorized representatives of Seller. Specifically, whenever a separate statement or purchase contract terms as stated herein, that document shall be binding only when signed by two (2) officers of Seller. Such a separate document, signed by location of Buyer's facility where the Goods are installed to aid Seller in making a cally referenced in such separate document. All other terms and conditions of sale obligations of the parties hereunder shall not be governed by the 1980 U.N. Convention on Contracts for the International Sale of Goods. This Contract shall be deemed to have been executed and performed in the State of Wisconsin.

> MISCELLANEOUS TERMS, CONDITIONS AND POLICIES GOVERNING SALES AND OUOTATIONS

A. All prices are quoted and payable without set-off or deduction in U.S. Dollars unless otherwise specified in writing by Seller. Quoted dollar amounts are subject to examination by Seller of final sample containers, product specifications and labels, which may increase or reduce final purchase price based upon the specific geometry and resulting complexity. In these cases, Seller will make Buyer aware of such changes by sending a "confirming" quotation.

B. Quoted delivery dates are based upon timely receipt of final bottle and label Seller shall not sell to Buyer any Goods the sale of which infringes on any intellec- and other required samples, completed and signed SAP document and line layout. All delivery dates are approximate.

> Buyer's purchase order by Seller. Such changes will be communicated to Buyer in writing.

> D. Any requested termination of an order, or any part thereof, must be submitted to Seller in writing by Buyer and, if accepted by Seller in its sole discretion, is subject to termination charges.

E. Payment Terms. The Aggregate Purchase Price shall be payable as follows:

(i) Thirty percent (30%) of the Aggregate Purchase Price shall be payable immediately upon execution of this Agreement;

(ii) Sixty percent (60%) of the Aggregate Purchase Price shall be payable prior to shipment of the Equipment.

(iii) Five percent (5%) of the Aggregate Purchase Price shall be payable within fourteen (14) days after the earlier of (A) the first date of production by the Equipment of salable product, and (B) the date that is 60 days after the date of the Bill of Lading for the Equipment,

(iv) The balance of the Aggregate Purchase Price for Equipment shall be payable immediately upon the earlier of (A) successful completion of the KRONES Efficiency Test applicable to such Equipment, and (B) the date that is 180 days after the date of the Bill of Lading for the Equipment.

F. This Contract shall be binding upon and inure to the benefit of the parties hereto and their respective successors and assigns. This Contract shall not be assigned by Buyer without the prior written consent of Seller. Any such attempted assignment by Buyer without such prior written consent shall be null and void

G. If, for any reason whatsoever, one or more of the provisions of this Contract shall be held or deemed to be illegal, invalid or unenforceable, the remaining provisions of this Contract shall not be affected thereby and shall remain in full . force and effect.

16. CONTRACT TERMS:

H. All disputes arising out of or related to this Contract shall be submitted to binding arbitration under the Commercial Rules of Arbitration of the American Arbitration Association. All such proceedings shall be held in Milwaukee, Wisconsin.

These Terms and Conditions are subject to change upon notice by Seller.



John Muha

Lisa Wentland

Model description

The packaging line VARIOLINE is a highly flexible system which can provide a multi-stage packaging process. Depending on the machine requirements primary or secondary packagings can be made. This concept allows packing of losoe containers in multipacks or multipacks in plastic crates, trays, folder-type case or wrap-around cartons. Depending on the combination or number of used standard or compact modules(2M) different final packings can be created with the VARI-OLINE. The individual units (modules) are applied according to the processing programme for different tasks. The carton production module includes the supply, erection and gluing of carton blanks. The separation and grouping of loose containers as well as the placing into the primary packing is made by the feed module. The basic module places multipacks (primary packing) into secondary packing or is used as carton sealer.



System advantages

- Short change-over times by partially automated change of tools and automatic tool detection
- Adaptation to new packs variants by modular machine concepts (tools)
- Machine extension without having an impact on existing formats
- Ergonomically optimised design of the individual components
- Easy access through high machine frame and large access doors



Illustrations are only for non-binding information, the text description has precedence.



Prices

Basic machine

- Basic equipment
- Control cabinet assembly according to UL508a/CSA
- Modules and machine feeds

Customer-related expansions Additional electrical equipment

- Main and auxiliary contactors, make: Allen Bradley
- Manufacturer relay, Allen Bradley
- Motor protector, make: Allen Bradley
- Manufacturer signal beam, Allen Bradley
- Conductor cross-section of control voltage inside of housings minimum 18 ampere-turns
- Conductor cross-section 2-wire min. 14 ampere-turns inside and outside of housings
- Conductor cross-section 3-wire min. 16 ampere-turns inside and outside of housings
- Core marking according to contact/terminal numbers with BRADY marker
- Wire colours, special design
- Frequency converter, make: Allen Bradley
- Motor isolator for all drive motors in the conveyor area (separate isolation and display for per grouped unit)
- Network connection
- Control cabinet with electrical door lock
- Indicating and control devices, make: Allen Bradley
- Power lines according to UL/CSA standards
- Cooling unit for control panel, make: Krones, in sheet steel

Customer requirement

- Robatech auto glue feed system
- special electric:

```
    Signal exchange via Ethernet.
    See position "Signal exchange via Ethernet" and "Network technology".
```

Notes

Krones standard machine design 2M Varioline. - module 1 = RSC erecting + bottle inserting

- module 2 = RSC sealing * Containers will arrive in 3 or 2 lanes at the Varioline infeed.

Ma	chi	ine	da	ta
			~~~~	

Machine design

- Machine model
- Machine type
- Processing by
- Number

Technical data Varioline electrical equipment *

Varioline module 1

Function module 1*

Design of module 1

- Module 1
- Module 1
- Module 1
- Infeed, module 1

Varioline module 2

- Function module 2 *
- Design of module 2
- Module 2
- Module 2
- Module 2
- Finish pneumatic components lubrication system
- Manufacturer of pneumatic maintenance unit
- Manufacturer pneumatic system components
- Minimum operating air pressure *
- Finish of machine parts, contrasting element, remaining assemblies in
- Machine finish colour in dry line section

2M Standard width of processing unit in the modules Triple tool holder two modules

****Special electrical components are not possible with this machine.****

- create repacking
- place container in pack
Feed module
2 handling axes
two conveyor lanes for primary packaging one conveyor lane for secondary packaging
H-Version

close repacking
push repacking
Basic module
1 handling axis
two conveyor lanes for primary packaging one conveyor lane for secondary packaging

Festo Festo (depending on function, partially others necessary) 72,52 psi (5 bar) RAL 9018 (papyrus white) und RAL 7037 (dusty grey)

RAL 5013 (cobalt blue)

* Features which do not affect pricing of this quotation item within KRONES standard

### **Model description**

The KRONES container conveyor SYNCO is of high importance as connection between the machines of a filling and packing line. Buffer functions as well as infeed and discharge of containers are basis for a high line efficiency.

Illustrations are only for non-binding information, the text description has precedence.



#### **Prices**

#### Conveyor

- Control cabinet assembly according to UL508a/CSA
- Container conveyor, drive and control technology included
- Mass conveyor for low-wear chain guide
- Drives and electrical components manufactured to KRONES electrical design standards
- PLC programme and control according to KRONES

#### Further system components

#### Conveyor lubrication system to reduce friction and for chain protection

 Blast connection with piping system for wet conveyor belt lubrication system

#### **Customer-related expansions**

- Complete sprocket, divided
- Container guide handling parts, 3 lanes for curve

#### Additional electrical equipment

- Cable design according to UL/CSA standards.
- Main and auxiliary contactors, make: Allen Bradley
- Motor overload switch, make: Allen Bradley
- Anufacturer hardware switching devices, make: Allen Bradley
- Control and indicating devices, make: Allen Bradley 800E
- Manufacturer signal beam, Allen Bradley
- Conductor cross-section of control voltage inside of housings minimum 18 ampere-turns
- Conductor cross-section 2-wire min. 14 ampere-turns inside and outside of housings
- Conductor cross-section 3-wire min. 14 ampere-turns inside and outside of housings
- Core marking according to contact/terminal numbers with BRADY marker
- Wire colours, special design
- Motor isolator for all drive motors in the conveyor area (separate isolation and display for per grouped unit)
- Frequency converter Allen Bradley
- Network connection
- Control cabinet, material: sheet steel, make: Rittal
- Air conditioning for the separate control cabinet, make: according to KRONES, sheet steel
- Mini cooling unit, KRONES design
- Control cabinet with mechanical door locking mechanism

## **Customer requirement**

- special electric:
  - Signal exchange via Ethernet.
  - => See position "Signal exchange via Ethernet" and "Network technology".

## Notes

chain cleaning performed by the customer guarantees an efficient conveyor operation.

Please note:

Advice for lubrication of the wet conveyors: Supplier of hardware: Ecolab Lubricant has to be purchased from Ecolab.

The friction coefficient of the conveyor lubrication system must always be between 0.08 and 0.12.

Please note: Existing conveyors are not controlled by KRONES.

The technical characteristics of the conveyor depends on the layout situation and is only then definite when no more changes are made in the respective layout plan.

#### Machine data

Conveyors

- Machine assemblies
- Design of shaft bearing
- Axle or shaft diameter

Conveyor category -1-

- Design of conveyor body
- Conveyor support made of stainless steel
- Axle design
- Disassembly of axes and shafts on bearing

Drive Technology

- Drive type
- Gear type
- Gear manufacturer
- Manufacturer of synchronous motor
- Motor manufacturer
- Motor allowance *

Rail category -1-

- Design of guide rail
- Horizontal rail adjustment
- Container guidance by
- Number of lanes

Rail category -2-

- Design of guide rail
- Horizontal rail adjustment
- Container guidance by
- Number of lanes

Chain category -1-

- Conveyor chain type
- Chain material
- Manufacturer of conveyor chain
- Chain thickness
- Multiple-lane straight guides

Chain operating conditions, category 1

- Lubrication of chain *
- Material of chain wear strips
- Chain return of mass-flow conveyors *
- High-speed chain return system *

Finish - pneumatic components - lubrication system

- Finish colour for visible three-phase motors and their mounted gears or pumps in the wet line section
- Finish colour of separate control cabinets of machines in wet line section
- Finish colour of machine housings in wet line section
- Manufacturer pneumatic maintenance unit

wet lubrication system 2-hole sheet metal cage 30 mm or 40 mm, depending on stress

Sectional frame construction with plastic footpad fixed axle bearing pull shaft axially

Gear motor directly mounted on drive shaft gear with bevel spur gear transmission Make: SEW make: SSB make: SEW approval cURus/CSA (NAD)

Shackle support with base material 40x8 fixed, adjustable at machine infeed highly-wear-resistant plastic profile 3

Shackle support with base material 40x8 fixed, adjustable at machine infeed highly-wear-resistant plastic profile 1

flush-grid belt plastic is determined by KRONES 0,34 inch (8,70 mm) One-sided double Positrack

wet lubrication plastic GUR 4150 roller, diameter = 50, green rubber-coated roller, diameter = 50, green

RAL 9018 (papyrus white)

RAL 7035 (light grey)

RAL 9018 (papyrus white) Make: Festo Customer compressed air quality according to ISO 8573-



Manufacturer pneumatic system components

Accessories

- Drip pans
- Drip pans design
- Supplier of conveyor lubrication *
- Disposition of dosing centre for wet lubrication
- Mounting position of electrical components
- Control

1 class 7.3.1. (2001-02) Oil-free compressed air supply with a particle size of max.  $40\mu m$  make: Festo

at crossings and passages plastic drain valve is determined by KRONES without dosing centre, only nozzles

in a separate control cabinet. of frequency converter in bus technology (Ethernet)

* Features which do not affect pricing of this quotation item within KRONES standard



# 3. Linear rejection unit 083 S

#### **Model description**

The linear rejection unit rejects or distributes glass and PET containers on two up to six lanes. It is controlled either via IRIS (Improved Resolution Inspection System) or via DART (Distributed Architecture for Real Time).



### System advantages

- Guaranteed rejection of upright containers, also rejection of fallen-over containers is possible.
- Sorting out of faulty containers from the production pool
- Distribution of the container flow to several lanes
- Recording of all relevant production data
- Modem for remote maintenance installed as standard

Illustrations are only for non-binding information, the text description has precedence.



## 3. Linear rejection unit 083 S

#### **Prices**

**Basic machine** 

Basic module container Checkmat (touch panel)

## Further system components

Linear rejection unit

Varioglide basic module 2.9 m length / 4 channel

## Customer-related expansions

Additional electrical equipment

Cable design according to UL/CSA standards.

#### Notes

allocation in 3 lanes

#### Machine data

Linear rejection unit

- Nominal output of the machine
- Container filling condition
- Number of lanes
- Design for *
- Pneumatic system *
- Lubrication lines
- Finish color for visible three-phase motors and their mounted gears or pumps in the wet line section
- Maximum ambient temperature of linear rejection unit
- Air conditioning of the linear rejection unit
- Conveyor height *
- Rated operating voltage AC, 1 phase *
- Voltage supply *
- Supply of the power line is effected *

10.080 cph full 4 4 channel linear distribution unit with a length of 2,900 mm and a stroke of 155 mm Make: Festo material: plastic RAL 9018 (papyrus white)

The maximum ambient temperature of the linear rejection unitk is below 36 °C. In case of temperatures exceeding 36 °C a cooling unit has to be installed in order to guarantee a smooth function of the linear rejection unit. via fan 45,28 inch (1.150 mm)

230 V via the conveyor control by KRONES

* Features which do not affect pricing of this quotation item within KRONES standard



#### **Model description**

The KRONES pack conveyor MULTICO conveys and buffers packs of different sizes and designs. Safety regulation of the European CE standard and corresponding DIN standards must be fully complied.

## System components

#### Variopush

- Rejection system driven by servo linear unit
- Parallel rejection with even speed for full, partially filled and empty packs
- Also possible as right-angle discharge



Illustrations are only for non-binding information, the text description has precedence.

#### **Prices**

#### Conveyor

- Control cabinet assembly according to UL508a/CSA
- Pack conveyor, drive and control technology included
- Roller conveyor for gentle pack conveyance
- Flush-grid belt conveyor with low-wear chain guide
- Rejection system Variopush driven by servo-driven linear unit
- Link conveyor curve
- Drives and electrical components manufactured to KRONES electrical design standards
- PLC programme and control according to KRONES

#### **Customer-related expansions**

- Plastic rail for gentle treatment of packs
- Manual lane adjustment for straight conveyors
- Manual lane adjustment for curves
- Return sprockets in rust-proof stainless steel/chrome nickel steel (similar to AISI 304) at flush-grid belt conveyor

#### Additional electrical equipment

- Cable design according to UL/CSA standards.
- Main and auxiliary contactors, make: Allen Bradley
- Motor overload switch, make: Allen Bradley
- Manufacturer hardware switching devices, make: Allen Bradley
- Control and indicating devices, make: Allen Bradley 800E
- Manufacturer signal beam, Allen Bradley
- Conductor cross-section of control voltage inside of housings minimum 18 ampere-turns
- Conductor cross-section 2-wire min. 14 ampere-turns inside and outside of housings
- Conductor cross-section 3-wire min. 14 ampere-turns inside and outside of housings
- Core marking according to contact/terminal numbers with BRADY marker
- Wire colours, special design
- Motor isolator for all drive motors in the conveyor area (separate isolation and display for per grouped unit)
- Frequency converter Allen Bradley
- Network connection
- Control cabinet, material: sheet steel, make: Rittal
- Air conditioning for the separate control cabinet, make: according to KRONES, sheet steel
- Air conditioning for integrated control cabinet, make acc. to

KRONES in rust-proof stainless steel/chromium nickel steel (similar to AISI 304)

- Mini cooling unit, KRONES design
- Control cabinet with mechanical door locking mechanism

### **Customer requirement**

special electric:

```
Signal exchange via Ethernet.
See position "Signal exchange via Ethernet" and "Network technology".
```

#### Notes

Option: sensor for After 5 consecutive faults, the machine will stop

The technical characteristics of the conveyor depends on the layout situation and is only then definite when no more changes are made in the respective layout plan.



#### Machine data

Conveyor category -1-

- Design of conveyor body
- Conveyor supports made of stainless steel
- Cleaning of conveyor body
- Design of roller conveyor

**Drive Technology** 

- Drive type
- Gear type
- Gear manufacturer
- Motor manufacturer

Pack guide

Base material of pack guide

Rail category -1-

- Number of lanes
- Rail adjustment
- Pack guides

Chain category -1-

- Conveyor chain type
- Chain designation
- Conveyor chain manufacturer
- Width class
- Chain thickness
- Thickness of rubberised chain
- Surface mass-flow conveyor
- Surface, not suitable for back-up

Chain category -2-

- Conveyor chain type
- Chain designation
- Conveyor chain manufacturer
- Width class
- Chain thickness
- Thickness of rubberised chain
- Thickness of roller chain
- Surface, mass-flow conveyor
- Surface, not suitable for back-up
- Surface, can highly be accumulated

Finish - pneumatic components - lubrication system

- Finish colour for three-phase motors in the dry line section
  Finish colour of separate protective devices in dry line section
  Machine finish colour in dry line section
  Machine guards design
  Finish colour of stand-alone control cabinets of machines in dry line section
  Finish colour of stand-alone control cabinets of machines in dry line section
  Finish colour of stand-alone control cabinets of machines in dry line section
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  Finish colour of stand-alone control cabinets of machines in dry line section
  Finish colour of stand-alone control cabinets of machines in dry line section
- Finish colour of machine housings in dry line section

sectional frame construction with plastic footpad without cleaning with support rollers in stainless steel

gear motor directly mounted on drive shaft gear with bevel gear transmission SEW make: SEW

C-profile

1 lane manually adjustable plastic profile

plastic flush-grid belt flat top is determined by KRONES 3,35 inch (85,00 mm) 0,34 inch (8,70 mm) 0,42 inch (10,70 mm) closed surface rubberised 100 %

plastic flush-grid belt heavy-duty chain is determined by KRONES 3,35 inch (85,00 mm) 0,50 inch (12,70 mm) 0,60 inch (15,20 mm) 1,07 inch (27,20 mm) closed surface rubberised 100 % reels for stream conveyor chain

RAL 9018 (papyrus white)

<ul> <li>Manufacturer pneumatic maintenance unit *</li> <li>Manufacturer pneumatic system components</li> </ul>	Make: Festo Customer compressed air quality according to ISO 8573- 1 class 7.3.1. (2001-02) Oil-free compressed air supply with a particle size of max. 40µm make: Festo
Accessories Drip pans Drip pans design Drain pipe for drip pans	at the area of crossings and passageways with plastic drain valves not included
<ul><li>Mounting position of the electrical components</li><li>Control</li></ul>	in a separate control cabinet. of frequency converters in bus technology (Ethernet)

 *  Features which do not affect pricing of this quotation item within KRONES standard



# 5. Spare parts kit

## Machine data

Spare parts kit

KRONES has created an individual emergency spare parts kit to increase plant availability based on KRONES experience.

# 6. IT-S (SET head)

#### **Model description**

SitePilot is a shared brand name that covers all of Krones' IT products. It includes a modular software system for all tasks, from production to logistics. The system enables processes to be planned, visualised, documented and controlled. The modular system allows also to include existing IT and lines and thus provides, together with the machines and lines supplied by KRONES, IT competence from a single source. Millions of bottles and cans are processed on KRONES lines every day - with the help of KRONES IT solutions. The expertise and experience from thousands of installations all over the world are an integral part of all IT products. They combine comprehensive business know-how and competent knowledge of our processes.



### System advantages

- SitePilot supplies precise, reproducible data out of the production process
- SitePilot provides an integrated information flow
- SitePilot supplies the right information at the right time to the right persons
- SitePilot compacts complex interrelations to structurised information (codes)
- SitePilot plans, records and checks reliably the product quality
- SitePilot knows and monitors the operating hours of your machines
- SitePilot guarantees the efficient interlocking of different operative company levels



Illustrations are only for non-binding information, the text description has precedence.



# 7. Network / hardware technology

#### System components

**Technical highlights** 

Networking of all machines to a centralised point

#### **Technical highlights**

KRONES is Microsoft Gold Certified Partner and can offer software solutions which are distinguished by high quality, current technological standard and low price conditions. These solutions can be integrated seamless in existing MS Office environments.



ISV/Software Solutions

Illustrations are only for non-binding information, the text description has precedence.



# 7. Network / hardware technology

#### **Prices**

Engineering

### Machine data

Machine design	
Connected machine positions	(1 X) CONTAINER CONVEYOR (1 X) PACK CONVEYOR (1 X) PACKAGING LINE
<ul><li>Further machine positions</li><li>Network package</li></ul>	OEM MACHINES network by customer
Hardware	
Incidentals	not included
Engineering <ul> <li>Network engineering</li> </ul>	included
System components <ul> <li>No cable material, laying of cables and trays</li> </ul>	
No connection of line network to customer network	
Antivirus solutions by customer after consultation of k	RONES IT-S
No updates and patches after acceptance test by KRON	NES
■ No performance of maintenance (current administrati	on activity)

■ No VPN software client solutions for remote maintenance

# 8. Signal transmission via Ethernet

### **Prices**

Engineering

## **Machine data**

Machine design Connected machine positions

Further machine positions

Engineering

- Basic Engineering
- Selection signal transmission (PLC)

Engineering Allen Bradley, number of machines

Engineering third-party machines, number of machines

(1 X) CONTAINER CONVEYOR (1 X) PACK CONVEYOR (1 X) PACKAGING LINE OEM MACHINES

included

- Engineering Allen Bradley
- Engineering third-party machines
- 3 PCE

2 PCE

#### **Model description**

The used machines require an optimum energy supply in the complex production process of line and process technology. A well planned and performed electrical installation ensures an optimal line operation. It can fulfil the line requirements which are growing and changing continuously and provides safety and efficiency. A well though-out concept for the electrical installation, especially designed by a specialist to match the respective requirements, is a good condition for a well-working line and process technology.



Illustrations are only for non-binding information, the text description has precedence.



### Prices

## General

Planning and project planning

## Cable trays

Cable trays material

Cable trays fastening - material

Vertical cable trays ■ Vertical cable trays material

## Cable ducts

Cable ducts material

## **Connection lines**

Connection lines material

<ul> <li>General - Assembly</li> <li>The electrical installation material is supplied by</li> <li>Project planning is made by</li> <li>Electrical installation plan</li> <li>The electrical installation plan includes:</li> <li>Material allowance, electrical installation</li> <li>Installation documents, electrical installation</li> </ul>	KRONES KRONES included - the way of cable trays - the vertical cable trays - the cable duct at the conveyor - the control cabinets, area planned - the power demand data list for electrical installation necessary necessary
Main feeder The main power lines are supplied by	the customer
Design of feed pipes <ul> <li>Design of electrical feeders</li> </ul>	Power cables according to UL/CSA and NEC (NFPA 70), conductor material copper
<ul> <li>Power lines subdistribution to control cabinet</li> <li>The feeders from the energy distributor to the feeding points of the machines are supplied by</li> </ul>	the customer
Cable trays The cable trays are supplied by Cable tray type The design of the cable trays The material of the cable trays is Cable tray height is	KRONES wide-span cable tray without cover is performed with partition sendzimir galvanised EN 10142 16,40 feet (5,00 m)
Cable tray fastening <ul> <li>The fastenings for the cable trays are supplied by</li> <li>Fastening type ceiling for cable trays</li> <li>The fastening type wall for cable trays</li> </ul>	KRONES galvanized is galvanised
<ul> <li>Vertical cable trays</li> <li>The vertical cable trays are supplied by</li> <li>The type of vertical cable tray is</li> <li>The design of the vertical cable trays</li> <li>The vertical cable tray material is</li> </ul>	KRONES closed duct is with partition rust-proof stainless steel / chromium nickel steel (similar to AISI 304)
Cable ducts <ul> <li>The supply of the cable ducts is performed by</li> <li>The cable duct is made of</li> </ul>	KRONES rustproof stainless steel / chrome nickel steel (simlar to AISI 304)
<ul> <li>The cable duct at the container conveyor is necessary</li> <li>Design of cable routing at the container conveyor</li> <li>Connection type of cable duct</li> <li>The design of cable duct at the container conveyor</li> <li>Cable glands design</li> <li>The cable conduits at the container conveyors are designed as</li> </ul>	yes closed cable duct is welded is with partition is the cable guide. round pipe 28 * 1, rustproof stainless steel /c hrome nickel steel (similar to AISI 304)

<ul> <li>The cable duct at the pack conveyor is necessary</li> <li>Design of cable routing at the pack conveyor</li> <li>Connection type of cable duct</li> <li>The design of the cable duct at the pack conveyor</li> <li>Cable glands</li> <li>The cable conduits at the pack conveyors are designed as</li> <li>The cable duct at the pallet conveyor is necessary</li> <li>The cable duct at the air conveyor is necessary</li> </ul>	yes closed cable duct is welded is with partition is a cable conduit round pipe 28 * 1, rustproof stainless steel /c hrome nickel steel (similar to AISI 304) no no
Control cabinets <ul> <li>The energy distributor is supplied by</li> </ul>	the customer
<ul> <li>Connection lines</li> <li>Design of electrical connection lines which are guided outside the machines via cable trays</li> <li>The connection lines between the separate control cabinets and the electrical equipment of the machines are supplied by</li> <li>The supply of the network cable between the machines of the KRONES scope of supply is performed by</li> </ul>	Sheathed cable according to UL / CSA requirements, suitable for laying in cable trays (TC-ER), construction type MTW. KRONES the customer
False floor ■ False floor necessary	not necessary
Disassembly <ul> <li>Disassembly of the material of electrical installation</li> </ul>	customer
Re-assembly Reassembly of electrical installation material	customer
Notes See SAP Attachment for Electrical SOS	



# 10. On-site assembly

Disassembly Supply of the material for disassembly	customer
Re-assembly Supply of the material for reassembly	customer
Accessories Set of tools:	Following auxiliary material is provided by the customer: forklift with sufficient lifting force set of solid rollers lifting unit with oil-pressure long crane harness fork-lift truck hardwoods for underlaying
<ul> <li>General - Assembly</li> <li>Supply of material for pipe system media</li> <li>Scope of supply insulating material</li> <li>Supply of shut-off valve transfer point</li> <li>Scope of supply pipe material for media</li> </ul>	customer customer customer no connections indicated
<ul> <li>General - Assembly</li> <li>Assembly of pipe material</li> <li>Assembly insulating material</li> <li>Performance of pressure test, endoscopy, documentation</li> </ul>	customer customer customer
<ul> <li>Notes</li> <li>For the pipe system of KRONES scope of supply the KRO They are based on valid standards and apply essentially Welding process WIG manual (H) or alternatively WIG of certificate according to DIN EN 287-1. The site manage Welding gas: Argon purity 99,996 (protective gases accorded weld seam preparation: The pipes, fittings and special before and after welding. Weld seam preparation accorded to the seam preparation accorded to th</li></ul>	DNES guidelines for pipe systems have to be observed. y to: orbital welding (O) is made by examined welders with test r on site may ask for welding samples if necessary. ording to DIN EN 439). -shaped pieces are examined for their perfect condition rding to DIN EN 29692.

Weld seam post-treatment: To reduce the corrosion risk the temper colours are removed. The weld seam fronts are cleaned by stainless steel or plastic brushes and pickled with pickling paste.

Oxidation and heating according to DIN 50930 part 4 (exterior pickling and brushing or polishing, in the pipe interior discolouration max. straw-coloured).

For each material the approved welding additives according to DIN EN 12022 have to be applied.

Tacking of weld seams: The connection parts must be tacked manually among forming gas without additives. Please consider fit, minimum width of gap, parallel edges and axial orientation.

When using closed welding guns the tacking is not necessary.

Welding supervision acc. to EN 719

Welding seam design according to DIN EN 5817 / assessment group B.

Tacking and welding only after reaching the pre-rinsing time, form as long as the temperature in the weld seam area drops below 250° C.

### **Prices**

**General - installation** 

Personnel costs supervisor

Personnel costs, site manager und fixed costs, further personnel

# Initial start-up including production programme 1 ■ Personnel costs

Acceptance of production programme 1 Personnel costs

General - Assembly	
Mechanical installation	KRONES supervision
Invoicing of the mechanical installation according to	flat rate
Commissioning/acceptance	KRONES
Invoicing of commissioning/acceptance	flat rate
Integration of new scope of supply into an existing	not necessary
line	
Flight	included
Flight organisation	KRONES
Flight costs	included
Organisation of the transfer from the airport to the	KRONES
hotel	
Transfer costs from the airport to the hotel	included
Organisation of transfer from hotel to the site	KRONES
Transfer costs from the hotel to the site	included
Organisation of hotel/accommodation	KRONES
Costs for hotel / accommodation	included
Calculation of allowance according to	KRONES flat rate, according to travel policy
Provision of toilets and washing rooms	customer
Provision of lockable, equipped office(s)	customer
Provision of lockable storage room	customer
Parking area at the customer to be sued by KRONES	existing
Workshops at the customer to be used by KRONES	existing
Provision of work platform for assembly	customer
<ul> <li>VISa</li> <li>Letter of invitation from the sustamer</li> </ul>	necessary
Letter of invitation from the customer	not necessary
<ul> <li>Work permit</li> <li>Enosial codes of hobaviour at the sustamente consid</li> </ul>	not existing
Special codes of behaviour at the customer to consid-	lotexisting
Local safety instructions according to	standard "Germany"
Special safety regulations at the customer	not existing
KRONES specialist for operational safety	not necessary
Medical examination(s)	not necessary
Construction site security	not necessary
Interpreter	not necessary
Waste removal	customer
Return transport of the tools	customer
Description of opening for installation	Opening on one level as the unloading
Mechanical installation of customer machine	not necessary
Unloading	
Unloading of machines	customer
Provision of auxiliaries for unloading	customer
Description of unloading area:	distance of delivery is in front of opening for installation
	(distance < 100 m)
Bringing-in and transport to machine position	
Unpacking and transport of the machines to the	customer
opening for installation	
The bringing-in route is	continuously accessible
The floor protection is	not necessary
The auxiliaries for the bringing-in are provided	by the customer
Transverse transport of the machines from the open-	customer

<ul> <li>ing for installation to the position</li> <li>The transport route is</li> <li>The transport way is continuously accessible on one level</li> <li>The auxiliaries for the transverse transport of the machines are provided</li> </ul>	continuously loadable see description by the customer
Assembly <ul> <li>Positioning and orientation of the machines</li> <li>The auxiliaries for the transverse transport of the machines are provided</li> </ul>	customer by the customer
Disassembly <ul> <li>Disassembly of mechanical installation</li> </ul>	customer
Re-assembly <ul> <li>Reassembly of the mechanical installation</li> </ul>	customer
<ul> <li>Commissioning</li> <li>Name of the commissioning of the production programme 1</li> <li>Status of commissioning of production programme 1</li> <li>Performance of commissioning of production programme 1</li> <li>Invoicing of commissioning of production programme 1</li> </ul>	GPP - 1. 5 QT HDPE BOTTLE - MO reference KRONES lump sum
<ul> <li>Acceptance test</li> <li>Name of the acceptance of the production programme 1</li> <li>Status of acceptance of production programme 1</li> <li>Performance of acceptance of production programme 1</li> <li>Invoicing of acceptance of production programme 1</li> <li>Duration and output, acceptance of production programme 1</li> <li>Date of acceptance test</li> </ul>	GPP - 1. 5 QT HDPE BOTTLE - MO reference KRONES lump sum Acceptance production programme, degree of efficiency DIN8782, 1 day/8 hours net production time is performed directly after commissioning
Notes Calculation of assembly costs based on layout PL094556B0000000 02	

and sales-configuration in SDCC and on site assembly Set-Header. Possible necessary de- and reassembly of existing line components were not considered and have to be done by customer.The calculation considers costs for installation as assembly with supervisor.

In the case of assembly with supervisor:

Customer has to supply 3 skilled personnel with tools, crane and lifting equipment for installation. Commissioning of 1 production program(s) and acceptance of 1 production program(s) according to DIN8782, 1 day with 8 hours.

Commissioning and acceptance of additional production programs have to be charged separately!

Customer specifications were not considered.



• For the mechanical installation of the KRONES scope of supply the KRONES guidelines have to be observed. They can be requested for the respective machines at the KRONES sales dept. or service dept. - if they have not been supplied automatically.

# **12**. Electrical installation with flat rate

### Prices

## General

Site manager

Additional costs

## Cable trays

- Cable trays installation
- Cable trays fastening installation

## Vertical cable trays

Vertical cable trays installation

### Cable ducts

Cable ducts installation

### **Connection lines**

- Laying of connection lines
- Connect connection lines

## **Control cabinet installation**

Control cabinet installation

# 12. Electrical installation with flat rate

Conoral Accomply	
<ul> <li>The installation of the identification of the electrical components is performed by</li> <li>The installation for the identification of the electrical components is involved according to a second process.</li> </ul>	KRONES a lump sum
components is involced according to	
Main feeder ■ Laying of main power lines is performed by ■ The main power lines are connected by	the customer the customer
<ul> <li>Power lines subdistribution to control cabinet</li> <li>The laying of the feeders from the energy distributor to the feeding points of the machines is performed by</li> <li>Connection of the feeders from the energy distributor to the feeding point of the machines is performed by</li> </ul>	the customer the customer
Cable trays Installation cable trays The instalaltion of cable trays is invoiced according to	KRONES a lump sum
<ul> <li>Cable tray fastening</li> <li>The installation of the fastenings for the cable trays is performed by</li> <li>The installation for the fastening of cable trays is invoiced according to</li> </ul>	KRONES a lump sum
<ul> <li>Vertical cable trays</li> <li>The installation of the vertical cable trays is performed by</li> <li>The vertical cable tray installation is invoiced according to</li> </ul>	KRONES a lump sum
<ul> <li>Cable ducts</li> <li>The installation of the cable ducts is performed by</li> <li>The installation of the cable ducts is invoiced according to</li> </ul>	KRONES a lump sum
<ul> <li>Control cabinets</li> <li>The installation of the control cabinets is performed by</li> <li>The installation of control cabinets is invoiced according to</li> <li>The installation of the energy distributor is performed by</li> </ul>	KRONES a lump sum the customer
Connection lines	
<ul> <li>The laying of connection lines between separate control cabinets and the electrical components of the machines is performed by</li> <li>The laying of the connection lines between the sepa-</li> </ul>	KRONES a lump sum



# 12. Electrical installation with flat rate

<ul> <li>the machines is performed by</li> <li>The connection of the connection lines between the separate control cabinets and the electrical compo-</li> </ul>	a lump sum
<ul> <li>The laying of the network cables between the machines which are included in the KRONES scope of supply is performed by</li> </ul>	the customer
<ul> <li>The connection of the network cables between the machines which are included in the KRONES scope of supply is performed by</li> </ul>	the customer
Disassembly <ul> <li>Disassembly of the electrical installation</li> </ul>	customer
Re-assembly <ul> <li>Reassembly of electrical installation</li> </ul>	customer
Notes See SAP Attachment for Electrical SOS	

# 13. Training

### **Prices**

 Training for machine electrical components (long form) electricians is not necessary

## scope of basic training

- BASIC TRAINING ON SITE: The training is performed by our trainer(s).
- TRAVEL AND STAY TRAINER: Outward and return flight for our trainer(s)
- Travel time for our trainer(s)
- Daily transfer for our trainer(s)
- Hotel costs for our trainer(s)
- Any waiting times (at the weekend) for our trainers
- Any visa costs for our trainer(s)

# 13. Training

<ul> <li>- COURSE DATA*</li> <li>- COURSE DATA*</li> <li>Basic training</li> <li>on site in your plant.</li> <li>TOTAL NUMBER of trainees*</li> <li>maximum 8 persons</li> <li>SCHEDULE DATES:</li> <li>Amount of CANCELLATION COSTS:*</li> <li>Amount of CANCELLATION COSTS:*</li> <li>Amount of CANCELLATION COSTS:*</li> <li>Trainslator:</li> <li>Training documentation *</li> <li>Seminar success *</li> <li>Training documentation *</li> <li>Seminar success *</li> <li>Training for basic standard electrical components (long form) electricians on site</li> <li>- MACHINES*</li> <li>Training of packing and palletising technology</li> <li>Training of packing and palletising technology *</li> <li>- ASSIGNMENT OF TRAINERS*</li> <li>Necessary training days</li> <li>Training of training days</li> <li>- ASSIGNMENT OF TRAINERS*</li> <li>- TRAVEL DATA OF TRAINERS*</li> <li>-</li></ul>	Basic training	
<ul> <li>asis training</li> <li>TOTAL NUMBER of trainees*</li> <li>SCHEDULE DATES:</li> <li>Amount of CANCELLATION COSTS:*</li> <li>Amount of CANCELLATION COSTS:*</li> <li>are attended as soon as schedule dates have been appointed with us.</li> <li>Course language:*</li> <li>Training documentation*</li> <li>Semiar success*</li> <li>To ensure optimum success of a seminar, we recommend that the machines should be available for practical training during 50% of the seminar duration.</li> <li>MACHINES*</li> <li>Training for basic standard electrical components, throughout the machines</li> <li>Training of packing and palletising technology*</li> <li>Training of packing and palletising technology*</li> <li>Training of packing and palletising technology*</li> <li>- ASSIGNMENT OF TRAINERS*</li> <li>- ASSIGNMENT OF TRAINERS*</li> <li>- TRAVEL DATA OF TRAINERS*</li></ul>	<ul> <li>COURSE DATA *</li> <li>Desistations</li> </ul>	COURSE DATA
IDTAL NOWBER OF Latries       Intaktinum a persons         SCHEDULE DATES:       have to be coordinated with KRONES academy in good time (include into total planning of training dates), are attended as soon as schedule dates have been appointed with us.         Course language:*       The course is held in English.         Training documentation*       The course is held in English.         Training documentation*       The course is held in English.         Training documentation*       To ensure optimum success of a seminar, we recommend that the machines should be available for practical training during 50% of the seminar duration.        MACHINES*      MACHINES*         Training for basic standard electrical components, throughout the machines       is not necessary         Training for basic standard electrical components (long form) electricians       is not necessary         Machines division packing and palletising technology*       -operators on site         ASSIGNMENT OF TRAINERS*       -ASSIGNMENT OF TRAINERS*         Necessary training days       9,0 days         Training of third-party machines:*       -TRAVEL DATA OF TRAINERS*         - TRAVEL DATA OF TRAINERS*       - SASIGNMENT OF TRAINERS*         - TRAVEL DATA OF TRAINERS*       - TRAVEL DATA OF TRAINERS*         - TRAVEL DATA OF TRAINERS*       - TRAVEL DATA OF TRAINERS*         - TRAVEL DATA OF TRAINERS -	Basic training TOTAL NUMPER of trainage *	on site in your plant.
<ul> <li>Amount of CANCELLATION COSTS: *         <ul> <li>Amount of CANCELLATION COSTS: *</li></ul></li></ul>		maximum 8 persons
<ul> <li>Amount of CANCELLATION COSTS: *</li> <li>Amount of CANCELLATION COSTS: *</li> <li>Amount of CANCELLATION COSTS: *</li> <li>In a fitted the tool of the training of training (waiting time)</li> <li>Training of training *</li> </ul>	SCHEDULE DATES:	time (include into total planning of training dates)
<ul> <li>Course language: *         <ul> <li>Translator:</li> <li>Translator:</li> <li>Translator:</li> <li>Transing documentation *             <li>Seminar success *</li></li></ul></li></ul>	Amount of CANCELLATION COSTS: *	are attended as soon as schedule dates have been ap- pointed with us
<ul> <li>Translator:</li> <li>Translator:</li> <li>Training documentation *</li> <li>Seminar success *</li> <li>To ensure optimum success of a seminar, we recommend that the machines should be available for practical training during 50% of the seminar duration.</li> <li>MACHINES *</li> <li>Training for basic standard electrical components, throughout the machines</li> <li>Training for machine electrical components (long for machine electricians</li> <li>Machines division packing and palletising technology</li> <li>Training of packing and palletising technology</li> <li>- ASSIGNMENT OF TRAINERS*</li> <li>Necessary training days</li> <li>Training of third-party machines: *</li> <li>Training of third-party machines: *</li> <li>- TRAVEL DATA OF TRAINERS*</li> <li>Journey of trainer by:</li> <li>Trasfer between accomodation and training place</li> <li>Trainer accomodation</li> <li>Number of weekends without training (waiting time)</li> <li>Number of weekends without training (waiting time)</li> <li>Number of weekends without training (waiting time)</li> <li>Visa for the trainers</li> <li>- TARGET GROUPS*</li> <li>Advanced training *</li> <li>- COURSE DATA*</li> <li>Up to now, we have not received any respective request.</li> <li>We would be pleased to submit you a separate quota-</li> </ul>	Course language: *	The course is held in English.
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<ul> <li>Seminar success *</li> <li>Seminar success *</li> <li>Seminar success *</li> <li>To ensure optimum success of a seminar, we recommend that the machines should be available for practical training for basic standard electrical components, throughout the machines</li> <li>Training for basic standard electrical components, throughout the machines</li> <li>Training for machine electrical components (long form) electricians</li> <li>Machines division packing and palletising technology</li> <li>Training of packing and palletising technology*</li> <li>ASSIGNMENT OF TRAINERS*</li> <li>Necessary training days</li> <li>Training of third-party machines:*</li> <li>Training of third-party machines:*</li> <li>Training of third-party machines:*</li> <li>Training of trainer by:</li> <li>Journey of trainer by:</li> <li>Trainer accomodation and training place</li> <li>STAY OF TRAINERS*</li> <li>Trainer accomodation</li> <li>Number of weekends without training (waiting time)</li> <li>Visa for the trainers</li> <li> TARVEL DATA OF TRAINERS*</li> <li>Trainer accomodation</li> <li>Number of weekends without training (waiting time)</li> <li>Visa for the trainers</li> <li> TARGET GROUPS*</li> <li> TARGET GROUPS*</li> <li> COURSE DATA*</li> <li>Advanced training*</li> <li> COURSE DATA</li> <li>Up to now, we have not received any respective request. We would be pleased to submit you a separate quota-</li> </ul>	Training documentation *	in English
<ul> <li>MACHINES*</li> <li>MACHINES*</li> <li>Training for basis standard electrical components, throughout the machines</li> <li>Training for machine electrical components (long form) electricians</li> <li>Machines division packing and palletising technology</li> <li>Training of packing and palletising technology*</li> <li>- ASSIGNMENT OF TRAINERS*</li> <li>Necessary training days</li> <li>Training of third-party machines:*</li> <li>- TRAVEL DATA OF TRAINERS*</li> <li>Journey of trainer by:</li> <li>Training for the trainers</li> <li>- TRAVEL DATA OF TRAINERS*</li> <li>Necessary</li> <li>- TRAVEL DATA OF TRAINERS*</li> <li>Trainer accomodation and training place</li> <li>- TRAVEL DATA OF TRAINERS*</li> <li>Trainer accomodation</li> <li>Number of weekends without training (waiting time)</li> <li>Visa for the trainers</li> <li>- TARGET GROUPS*</li> <li>- TARGET GROUPS*</li> <li>Advanced training</li> <li>- COURSE DATA*</li> <li>Advanced training *</li> </ul>	Seminar success *	To ensure optimum success of a seminar, we recom-
<ul> <li>MACHINES*</li> <li>Training for basic standard electrical components, throughout the machines</li> <li>Training for machine electrical components, (long form) electricians</li> <li>Machines division packing and palletising technology</li> <li>Training of packing and palletising technology*</li> <li>- ASSIGNMENT OF TRAINERS*</li> <li>Necessary training days</li> <li>Training of third-party machines:*</li> <li>Trainse fe between accomodation and training place</li> <li>- TRAVEL DATA OF TRAINERS*</li> <li>Journey of trainer by:</li> <li>Trainer accomodation</li> <li>Number of weekends without training (waiting time)</li> <li>Visa for the trainers</li> <li>- TARGET GROUPS*</li> <li>- COURSE DATA*</li> <li>Advanced training*</li> <li>Cal training during 50% of the seminar duration.</li> <li>- MACHINES*</li> <li>- COURSE DATA*</li> <li>Advanced training*</li> </ul>		mend that the machines should be available for practi-
<ul> <li>MACHINES*         <ul> <li>MACHINES*</li> <li>MACHINES*</li> <li>not necessary</li> <li>R67 MULTICO 5                  <ul> <li>R67 MULTICO 5</li> <li>R40 VARIOLINE 2M</li></ul></li></ul></li></ul>		cal training during 50% of the seminar duration.
<ul> <li>Training for basic standard electrical components, throughout the machines</li> <li>Training for machine electrical components (long form) electricians</li> <li>Machines division packing and palletising technology</li> <li>Training of packing and palletising technology *         <ul> <li>- ASSIGNMENT OF TRAINERS*</li> <li>- ASSIGNMENT OF TRAINERS*</li> <li>Necessary training days</li> <li>Training of third-party machines: *</li> <li>- TRAVEL DATA OF TRAINERS*</li> <li>- TRAVEL TRAINERS*</li> <li>- TRAVEL DATA OF TRAINERS*</li> <li>- TARGET GROUPS*</li> <li>- TARGET GROUPS*</li> </ul> </li> <li>Advanced training *&lt;</li></ul>	MACHINES *	MACHINES
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<ul> <li>form) electricians</li> <li>Machines division packing and palletising technology</li> <li>Training of packing and palletising technology * <ul> <li>operators on site</li> <li>operators on site</li> <li>mechanicians and electricians on site</li> <li>- ASSIGNMENT OF TRAINERS*</li> <li>Necessary training days</li> <li>Training of third-party machines: *</li> <li>P,0 days</li> </ul> </li> <li>Training of third-party machines: *</li> <li>pliers is not planned - (the respective instruction is part of third-party suppliers scope of supply. An overview of these machines is shown in our prices summary of third-party machines.)</li> <li> TRAVEL DATA OF TRAINERS *</li> <li>Journey of trainer by:</li> <li>Transfer between accomodation and training place</li> <li> STAY OF TRAINERS *</li> <li>Trainer accomodation</li> <li>Number of weekends without training (waiting time)</li> <li>Visa for the trainers</li> <li> TARGET GROUPS *</li> <li> COURSE DATA *</li> <li>Advanced training</li> <li> COURSE DATA *</li> <li>Advanced training *</li> </ul>	Training for machine electrical components (long	is not necessary
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<ul> <li>R40 VARIOLINE 2M</li> <li>Training of packing and palletising technology*</li> <li>- ASSIGNMENT OF TRAINERS*</li> <li>Necessary training days</li> <li>Training of third-party machines: *</li> <li>- Training of third-party machines: *</li> <li>- TRAVEL DATA OF TRAINERS*</li> <li>- TARGET GROUPS*</li> <li>- COURSE DATA*</li> <li>- Advanced training</li> <li>- COURSE DATA*</li> <li>- Advanced training*</li> <li>- COURSE DATA*</li> <li>- We would be pleased to submit you a separate quota-</li> </ul>	Machines division packing and palletising technology	R67 MULTICO S
<ul> <li>Training of packing and palletising technology*         <ul> <li>- operators on site</li> <li>- mechanicians and electricians on site</li> <li>- mechanicians and electricians on site</li> <li>- ASSIGNMENT OF TRAINERS*</li> <li>Necessary training days</li> <li>Training of third-party machines:*</li> <li>- Training of third-party machines:*</li> <li>- Training of third-party machines:*</li> <li>- Training of third-party machines:*</li> <li>- TRAVEL DATA OF TRAINERS*</li> <li>- STAY OF TRAINERS*</li> <li>- TARGET GROUPS*</li> <li>- TARGET GROUPS*</li> </ul> </li> <li>Advanced training         <ul> <li>- COURSE DATA*</li></ul></li></ul>		R40 VARIOLINE 2M
<ul> <li> ASSIGNMENT OF TRAINERS*</li> <li>Necessary training days</li> <li>Training of third-party machines: *</li> <li> ASSIGNMENT OF TRAINERS</li> <li>Necessary training days</li> <li>Training of third-party machines: *</li> <li> Training of third-party machines: *</li> <li> TRAVEL DATA OF TRAINERS *</li> <li> Transfer between accomodation and training place</li> <li> STAY OF TRAINERS *</li> <li> STAY OF TRAINERS *</li> <li> Trainer accomodation</li> <li>Number of weekends without training (waiting time)</li> <li>Visa for the trainers</li> <li> TARGET GROUPS *</li> <li> COURSE DATA *</li> <li>Advanced training *</li> <li> COURSE DATA</li> <li> COURSE DA</li></ul>	Training of packing and palletising technology *	- operators on site
<ul> <li> ASSIGNMENT OF TRAINERS*</li> <li>Necessary training days</li> <li>Training of third-party machines: *</li> <li>9,0 days</li> <li>Training of third-party machines: *</li> <li>yo days</li> <li>Training of third-party machines: *</li> <li>training of machine and components of third-party suppliers is not planned - (the respective instruction is part of third-party suppliers scope of supply. An overview of these machines is shown in our prices summary of third-party machines.)</li> <li> TRAVEL DATA OF TRAINERS*</li> <li>Journey of trainer by:</li> <li>Transfer between accomodation and training place</li> <li> STAY OF TRAINERS*</li> <li>Trainer accomodation</li> <li>Number of weekends without training (waiting time)</li> <li>Visa for the trainers</li> <li> TARGET GROUPS*</li> <li>Advanced training</li> <li> COURSE DATA*</li> <li>Advanced training *</li> </ul>		<ul> <li>mechanicians and electricians on site</li> </ul>
<ul> <li>Necessary training days</li> <li>Training of third-party machines: *</li> <li>Training of third-party machines: *</li> <li>Training of third-party machines: *</li> <li>training of machine and components of third-party suppliers is not planned - (the respective instruction is part of third-party suppliers scope of supply. An overview of these machines is shown in our prices summary of third-party machines.)</li> <li> TRAVEL DATA OF TRAINERS *</li> <li>Journey of trainer by:</li> <li>Transfer between accomodation and training place</li> <li> STAY OF TRAINERS *</li> <li>Trainer accomodation</li> <li>Number of weekends without training (waiting time)</li> <li>Visa for the trainers</li> <li> TARGET GROUPS *</li> <li>Advanced training</li> <li> COURSE DATA *</li> <li>Advanced training *</li> <li>9,0 days</li> <li>9,0 days</li> <li>training of machine and components of third-party suppliers is not planned - (the respective instruction is part of third-party suppliers is not planned - (the respective instruction is part of third-party suppliers is not planned - (the respective instruction is part of third-party suppliers is not planned - (the respective instruction is part of third-party suppliers is not planned - (the respective request. We would be pleased to submit you a separate quota-</li> </ul>	ASSIGNMENT OF TRAINERS *	ASSIGNMENT OF TRAINERS
<ul> <li>Training of third-party machines: *</li> <li>Training of third-party machines: *</li> <li>training of machine and components of third-party suppliers is not planned - (the respective instruction is part of third-party suppliers is not planned - (the respective instruction is part of third-party suppliers is not planned - (the respective instruction is part of third-party suppliers is not planned - (the respective instruction is part of third-party suppliers is not planned - (the respective instruction is part of third-party suppliers is not planned - (the respective instruction is part of third-party suppliers is not planned - (the respective instruction is part of third-party suppliers is not planned - (the respective instruction is part of third-party suppliers is not planned - (the respective instruction is part of third-party suppliers is not planned - (the respective instruction is part of third-party suppliers is not planned - (the respective instruction is part of third-party suppliers is not planned - (the respective instruction is part of third-party suppliers is not planned - (the respective instruction is part of these machines is shown in our prices summary of third-party machines.)</li> <li>TRAVEL DATA OF TRAINERS *</li> <li>Transfer between accomodation and training place</li> <li>ransfer between accomodation</li> <li>Number of weekends without training (waiting time)</li> <li>visa for the trainers</li> <li>r- TA</li></ul>	Necessary training days	9,0 days
<ul> <li>of third-party suppliers scope of supply. An overview of these machines is shown in our prices summary of third-party machines.)</li> <li> TRAVEL DATA OF TRAINERS*</li> <li>Journey of trainer by:</li> <li>Transfer between accomodation and training place</li> <li> STAY OF TRAINERS*</li> <li>Trainer accomodation</li> <li>Number of weekends without training (waiting time)</li> <li>Visa for the trainers</li> <li> TARGET GROUPS*</li> <li> COURSE DATA*</li> <li>Advanced training *</li> <li> COURSE DATA</li> <li>Up to now, we have not received any respective request. We would be pleased to submit you a separate quota-</li> </ul>	Training of third-party machines: *	training of machine and components of third-party sup- pliers is not planned - (the respective instruction is part
<ul> <li>these machines is shown in our prices summary of third-party machines.)</li> <li> TRAVEL DATA OF TRAINERS*</li> <li>Journey of trainer by:</li> <li>Transfer between accomodation and training place</li> <li>Trainer accomodation</li> <li>Number of weekends without training (waiting time)</li> <li>Visa for the trainers</li> <li> TARGET GROUPS*</li> <li>Advanced training*</li> <li> COURSE DATA</li> <li>Up to now, we have not received any respective request. We would be pleased to submit you a separate quota-</li> </ul>		of third-party suppliers scope of supply. An overview of
<ul> <li>party machines.)</li> <li> TRAVEL DATA OF TRAINERS *</li> <li>Journey of trainer by:</li> <li>airplane</li> <li>Transfer between accomodation and training place</li> <li>Trainer accomodation</li> <li>Number of weekends without training (waiting time)</li> <li>Visa for the trainers</li> <li> TARGET GROUPS *</li> <li>Advanced training</li> <li> COURSE DATA *</li> <li>Advanced training *</li> <li> COURSE DATA</li> <li>Up to now, we have not received any respective request. We would be pleased to submit you a separate quota-</li> </ul>		these machines is shown in our prices summary of third-
<ul> <li> TRAVEL DATA OF TRAINERS *</li> <li>Journey of trainer by:</li> <li>Transfer between accomodation and training place</li> <li>Trainer accomodation</li> <li>Number of weekends without training (waiting time)</li> <li>Visa for the trainers</li> <li> TARGET GROUPS *</li> <li>Advanced training</li> <li> COURSE DATA *</li> <li>Advanced training *</li> <li> COURSE DATA</li> <li> COURSE DATA</li> <li>Up to now, we have not received any respective request. We would be pleased to submit you a separate quota-</li> </ul>		party machines.)
<ul> <li>Journey of trainer by:</li> <li>Transfer between accomodation and training place</li> <li>Transfer between accomodation and training place</li> <li>STAY OF TRAINERS *</li> <li>Trainer accomodation</li> <li>Number of weekends without training (waiting time)</li> <li>Number of weekends without training (waiting time)</li> <li>Visa for the trainers</li> <li> TARGET GROUPS *</li> <li>Advanced training</li> <li> COURSE DATA *</li> <li>Advanced training *</li> <li> COURSE DATA</li> <li>Up to now, we have not received any respective request. We would be pleased to submit you a separate quota-</li> </ul>	TRAVEL DATA OF TRAINERS *	TRAVEL DATA OF TRAINERS
<ul> <li>Transfer between accomodation and training place</li> <li>Is necessary</li> <li> STAY OF TRAINERS *</li> <li>Trainer accomodation</li> <li>Number of weekends without training (waiting time)</li> <li>Visa for the trainers</li> <li> TARGET GROUPS *</li> <li>Advanced training</li> <li> COURSE DATA *</li> <li>Advanced training *</li> <li> COURSE DATA</li> <li>Up to now, we have not received any respective request. We would be pleased to submit you a separate quota-</li> </ul>	Journey of trainer by:	airplane
<ul> <li> STAY OF TRAINERS *</li> <li>Trainer accomodation</li> <li>Number of weekends without training (waiting time)</li> <li>Visa for the trainers</li> <li> TARGET GROUPS *</li> <li>Advanced training</li> <li> COURSE DATA *</li> <li>Advanced training *</li> <li> COURSE DATA</li> <li>Up to now, we have not received any respective request. We would be pleased to submit you a separate quota-</li> </ul>	Iransfer between accomodation and training place	IS necessary
<ul> <li>Trainer accomodation</li> <li>In a notel</li> <li>Number of weekends without training (waiting time)</li> <li>Visa for the trainers</li> <li> TARGET GROUPS *</li> <li>Advanced training</li> <li> COURSE DATA *</li> <li>Advanced training *</li> <li> COURSE DATA</li> <li>Up to now, we have not received any respective request. We would be pleased to submit you a separate quota-</li> </ul>	Trainer account dation	STAY OF TRAINERS
<ul> <li>Number of weekends without training (waiting time)</li> <li>Visa for the trainers</li> <li>- TARGET GROUPS *</li> <li>Advanced training</li> <li> COURSE DATA *</li> <li>Advanced training *</li> <li> COURSE DATA</li> <li>Up to now, we have not received any respective request. We would be pleased to submit you a separate quota-</li> </ul>	<ul> <li>Irainer accomposition</li> <li>Number of weekende without training (weiting time)</li> </ul>	in a notei
<ul> <li>Visation the trainers</li> <li> TARGET GROUPS *</li> <li>Advanced training</li> <li> COURSE DATA *</li> <li>Advanced training *</li> <li> COURSE DATA</li> <li>Up to now, we have not received any respective request. We would be pleased to submit you a separate quota-</li> </ul>	<ul> <li>Number of weekends without training (waiting time)</li> <li>Visa for the trainers</li> </ul>	L is possesant
Advanced training         COURSE DATA *         Advanced training *         COURSE DATA *         Up to now, we have not received any respective request. We would be pleased to submit you a separate quota-		TARGET GROUDS
Advanced training COURSE DATA COURSE DATA * COURSE DATAAdvanced training * Up to now, we have not received any respective request. We would be pleased to submit you a separate quota-		TARGET GROUPS
<ul> <li> COURSE DATA *</li> <li>Advanced training *</li> <li> COURSE DATA</li> <li>Up to now, we have not received any respective request. We would be pleased to submit you a separate quota-</li> </ul>	Advanced training	
<ul> <li>Advanced training *</li> <li>Up to now, we have not received any respective request.</li> <li>We would be pleased to submit you a separate quota-</li> </ul>	COURSE DATA *	COURSE DATA
We would be pleased to submit you a separate quota-	Advanced training *	Up to now, we have not received any respective request.
	0	We would be pleased to submit you a separate quota-

 *  Features which do not affect pricing of this quotation item within KRONES standard



tion if required.

# 14. Technical documentation

User documentation set 1

- Delivery date:
- Output medium:
- Quantity
- Shipment:
- Supply
- Operation documentation
- Language
- Edition:
- Format:

User documentation Set 2

- Delivery date:
- Output medium:
- Quantity
- Shipment:
- Supply
- Operation documentation
- Language
- Edition:
- Format:
- Spare parts documentation
- Language
- Edition:
- Format

User documentation Set 3

- Delivery date:
- Output medium:
- Quantity
- Shipment:
- Supply
- Operation documentation
- Language
- Edition:
- Format:
- Spare parts documentation
- Language
- Edition:
- Format
- Electrical documentation
- Language
- Edition:
- Format:

with machine delivery paper KRONES file 1 to consignee separately per machine ------English final documentation A4 KRONES file

for line commissioning CD in eCat format

1 to consignee

per order

English

final documentation KRONES eCat

English as-delivered documentation KRONES eCat

12 weeks after final line accpetance CD in eCat format 1 to consignee per order

_____

English final documentation KRONES eCat

English final documentation KRONES eCat

English final documentation KRONES eCat

# 15. Packing

Prices Type of packing

All machines and/or equipment are packed seaworthy (cases and/or containers).

Packaging



# 16. Freight

# Prices

- Incoterms
- Named place
- Pre-carriage
  Type of main carriage
  Onward carriage
- Transport insurance

Delivered at Place, delivered defined location PAULSBORO, NJ by truck by sea freight by truck The usual transport insurance (according to Incoterm) exists until the place of delivery determined by the orderer.

Pre-transport Main transport Post-transport Transport insurance

# **Performance data**

Machine	Equipme	R/O	A/M	Line out-	Factor	Machine	Customer objects
	ητ			ρυτ		ουτρυτ	
1. Packaging line VA- RIOLINE 2M	01.01	R	А	5.400	1,15	6.210	1) 5 qt HDPE bottle - Xxxxx1 (N1048- 8A1) 1) screw cap, plastic (flat cap) 1) 5 qt Xxxxx 1 1x3 case
	01.02		м	8.400	1,00	8.400	1) 5 qt HDPE bottle - Xxxxx 1 (N1048- 8A1) 1) screw cap, plastic (flat cap) 3) 5 qt Xxxxx 1 2x2 case
	02.01		м	5.400	1,15	6.210	2) 5 qt HDPE bottle Conventional (N1049-A-1) 1) screw cap, plastic (flat cap) 2) 5 qt bottle conventional 1x3 case
	02.02		м	8.400	1,00	8.400	2) 5 qt HDPE bottle Conventional (N1049-A-1) 1) screw cap, plastic (flat cap) 4) 5 qt bottle conventional 2x2 case
	03.01		м	5.400	1,15	6.210	3) 1 gallon HDPE bottle (E-38682-1) 1) screw cap, plastic (flat cap) 5) 1 gallon 3x1 case
	03.02		м	8.400	1,00	8.400	3) 1 gallon HDPE bottle (E-38682-1) 1) screw cap, plastic (flat cap) 6) 1 gallon 2x2 case
3. Linear rejection unit 083 S	01.01		м	5.400	1,20	6.480	1) 5 qt HDPE bottle - Xxxxx1 (N1048- 8A1) 1) Screw finish
	02.01		м	8.400	1,20	10.080	1) Screw finish 2) 5 qt HDPE bottle Conventional (N1049-A-1)
4. Pack conveyor MUL- TICO S	01.01	R	А	5.400	1,00	5.400	1) 5 qt HDPE bottle - Xxxx1 (N1048- 8A1) 1) screw cap, plastic (flat cap) 1) 5 qt Xxxx1 1x3 case
	01.02		Μ	8.400	1,00	8.400	1) 5 qt HDPE bottle - Xxxxx1 (N1048- 8A1) 1) screw cap, plastic (flat cap) 3) 5 qt Xxxxx1 2x2 case
	02.01		м	5.400	1,00	5.400	2) 5 qt HDPE bottle Conventional (N1049-A-1) 1) screw cap, plastic (flat cap) 2) 5 qt bottle conventional 1x3 case
	02.02		м	8.400	1,00	8.400	2) 5 qt HDPE bottle Conventional (N1049-A-1) 1) screw cap, plastic (flat cap) 4) 5 qt bottle conventional 2x2 case
	03.01		м	5.250	1,00	5.250	3) 1 gallon HDPE bottle (E-38682-1) 1) screw cap, plastic (flat cap) 5) 1 gallon 3x1 case
	03.02		м	4.200	1,00	4.200	3) 1 gallon HDPE bottle (E-38682-1) 1) screw cap, plastic (flat cap) 6) 1 gallon 2x2 case

 $\mathsf{R}/\mathsf{O}$  = Reference and/or optional equipment,  $\mathsf{A}/\mathsf{M}$  = Line output and/or required output

# Customer object list

Container	1 reference	2	3
Container type	Bottle	Bottle	Bottle
Container description	5 qt HDPE bottle - Xxxx 1 (N1048-8A1)	5 qt HDPE bottle Con- ventional (N1049-A-1)	1 gallon HDPE bottle (E- 38682-1)
Container drawing no.	8F00ZZ5977	8F00ZZ5979	8F00ZZ6002
Material number	0903492318	0903492342	0903613749
Material	Plastic HDPE	Plastic HDPE	Plastic HDPE
Use	Non-returnable	Non-returnable	Non-returnable
Nominal volume	4,732	4,732	3,785 l
Circumcircle diameter (mm)	9,25 inch (235,01 mm)	8,49 inch (215,70 mm)	8,51 inch (216,19 mm)
Container width	4,40 inch (111,76 mm)	4,40 inch (111,76 mm)	4,40 inch (111,76 mm)
Container length	8,10 inch (205,74 mm)	8,10 inch (205,74 mm)	8,10 inch (205,74 mm)
Total height	12,66 inch (321,56 mm)	12,66 inch (321,56 mm)	10,94 inch (277,88 mm)
Body shape	parallel	parallel	special shape
Body cross section	oval	oval	oval
Base shape	Sparkling wine/champagne base	Sparkling wine/champagne base	Sparkling wine/champagne base
Container orientation	handle	handle	handle
Volume/weight unit	Liter (I)	Liter (I)	Liter (I)
Neck finish drawing no.	0902155761	0902155761	0903636963
Tilting angle filled	19 deg	18 deg	17 deg
Tilting angle empty	18 deg	17 deg	16 deg

Сар	1 reference
Cap designation	unknown
Material number	0903492340

Pack	1 reference	2	3	4
Pack type	Carton	Carton	Carton	Carton
Pack description	5 qt Xxxxx 1 1x3 case	5 qt bottle con- ventional 1x3 case	5 qt Xxxxx 1 2x2 case	5 qt bottle con- ventional 2x2 case
Pack content	loose containers	loose containers	loose containers	loose containers
Formation	3x1	3x1	2x2	2x2
Number of layers per pack	1 PCE	1 PCE	1 PCE	1 PCE
Pack length	13,87 inch (352,4 mm)	16,50 inch (419,1 mm)	17,13 inch (435,0 mm)	13,43 inch (341,0 mm)
Pack width	8,25 inch (209,6 mm)	9,37 inch (238,1 mm)	10,04 inch (255,0 mm)	8,31 inch (211,0 mm)

The information with a frame are supposed data.



# Customer object list

Total height, pack	12,81 inch	12,81 inch	13,98 inch	13,11 inch
	(325,4 mm)	(325,4 mm)	(355,0 mm)	(333,1 mm)
Material number	0903617289	0903617291	0903617283	0903656070

Pack	5	6
Pack type	Carton	Carton
Pack description	1 gallon 3x1 case	1 gallon 2x2 case
Pack content	loose containers	loose containers
Formation	3x1	2x2
Number of layers per pack	1 PCE	1 PCE
Pack length	14,19 inch (360,4 mm)	16,42 inch (417,0 mm)
Pack width	8,56 inch (217,5 mm)	9,02 inch (229,0 mm)
Total height, pack	11,75 inch (298,5 mm)	11,39 inch (289,4 mm)
Material number	0903629391	0903617285

The information with a frame are supposed data.



# Container/Decoration overview

Dry section decoration	01.01 reference	01.02	02.01	02.02
Container	1	1	2	2
Container description	5 qt HDPE bottle - Xxxxx 1 (N1048-8A1)	5 qt HDPE bottle - Xxxxx 1 (N1048-8A1)	5 qt HDPE bottle Conventional (N1049-A-1)	5 qt HDPE bottle Conventional (N1049-A-1)
Material	Plastic HDPE	Plastic HDPE	Plastic HDPE	Plastic HDPE
Nominal volume	4,732	4,732	4,732	4,732
Total height	12,66 inch (321,56 mm)	12,66 inch (321,56 mm)	12,66 inch (321,56 mm)	12,66 inch (321,56 mm)
Сар	1	1	1	1
Cap designation	unknown	unknown	unknown	unknown
Pack	1	3	2	4
Pack type	Carton	Carton	Carton	Carton
Pack description	5 qt Xxxxx1 1x3 case	5 qt Xxxxx 1 2x2 case	5 qt bottle con- ventional 1x3 case	5 qt bottle con- ventional 2x2 case
Formation	3x1	2x2	3x1	2x2
Pack length	13,87 inch (352,4 mm)	17,13 inch (435,0 mm)	16,50 inch (419,1 mm)	13,43 inch (341,0 mm)
Pack width	8,25 inch (209,6 mm)	10,04 inch (255,0 mm)	9,37 inch (238,1 mm)	8,31 inch (211,0 mm)
Total height, pack	12,81 inch (325,4 mm)	13,98 inch (355,0 mm)	12,81 inch (325,4 mm)	13,11 inch (333,1 mm)
Packaging line VARIOLINE 2M				
Packs per hour	2.070	2.100	2.070	2.100
Pack direction at infeed	shortside lea- ding	shortside lea- ding	shortside lea- ding	shortside lea- ding
Pack conveyor MULTICO S				
Pallets per hour	0	0	0	0
Packs per layer	0	0	0	0
Packs per hour	2.160	2.520	2.160	2.520
Pack direction at infeed	longside leading	longside leading	longside leading	longside leading

Dry section decoration	03.01	03.02
Container	3	3
Container description	1 gallon HDPE bottle (E-38682-1)	1 gallon HDPE bottle (E-38682-1)
Material	Plastic HDPE	Plastic HDPE
Nominal volume	3,785 l	3,785 l
Total height	10,94 inch (277,88 mm)	10,94 inch (277,88 mm)
Сар	1	1
Cap designation	unknown	unknown
Pack	5	6
Pack type	Carton	Carton
Pack description	1 gallon 3x1	1 gallon 2x2 case
Formation	3x1	2x2
Pack length	14,19 inch (360,4 mm)	16,42 inch (417,0 mm)
Pack width	8,56 inch (217,5 mm)	9,02 inch (229,0 mm)
Total height, pack	11,75 inch (298,5 mm)	11,39 inch (289,4 mm)
Packaging line VARIOLINE 2M		
Packs per hour		



# Container/Decoration overview

Pack direction at infeed	shortside leading	shortside leading
Pack conveyor MULTICO S		
Pallets per hour	0	0
Packs per layer	0	0
Packs per hour	1.750	1.050
Pack direction at infeed	longside leading	longside leading

Container	01.01	02.01
Container	1	2
Container description	5 qt HDPE bottle - Xxxxx1 (N1048-8A1)	5 qt HDPE bottle Conventional (N1049-A- 1)
Material	Plastic HDPE	Plastic HDPE
Nominal volume	4,732	4,732 l
Total height	12,66 inch (321,56 mm)	12,66 inch (321,56 mm)

## Line characteristics

#### General conditions

General conditions	
Geographic installation height above M.S.L.	16,40 feet (5 m)
Minimum ambient temperature at machine installa-	68,00 deg F (20 °C)
tion area - wet part	•
Maximum ambient temperature at machine installa-	96,80 deg F (36 °C)
tion area - wet part	•
Minimum ambient temperature at machine installa-	46,40 deg F (8 °C)
tion area - dry part	
Maximum ambient temperature at machine installa-	96,80 deg F (36 °C)
tion area - dry part	
Minimum relative humidity -wet part	50 %
Maximum relative humidity - wet part	75 %
Minimum relative humidity - dry part	40 %
Maximum relative humidity - dry part	60 %
Air quality operating air	Customer compressed-air quality of the operating air for
	pneumatic control of the machine is required according
	to ISO 8573-1, class 7.3.1.
	Air pressure of 6 - 7 bar (87 - 100 PSI).
	Oil-free compressed air supply (max. 0.01 mg/m³)
	Particle size of max. 40 micrometer (40 microns)
	Particle density of 10 mg/m³ (6.24e-007 lbs/ft³)
	Dew point temperature - 20°C (- 4°F )
	Alternatively, dew point temperature of 3°C (37°F) ac-
	cording to class 7.4.1 ISO 8573-1 if operation of all pres-
	surised components at a min. temperature of 8° C (46° F)
	is guaranteed.
Drive selection	Standard drives are applied.

■ Note concerning the noise emission value warranty:

Noise which is harmful to operators (immission value) is not attributable solely to the noise emitted by individual machines (emission value), but also - and to a significant extent - to the size and nature of the building, the production line layout and peripheral equipment (conveyors). Furthermore, the handling of packaging materials (bottles, cans, crates, etc.) also contributes to the generated noise level. This contribution is taken into account in the quoted machine noise emission value.

If the conditions for noise reduction technology are not sufficiently fulfilled by the customer or plant proprietors, or if third-party sound sources become influential, an increased immission level can result. In such cases, additional secondary noise reduction measures may become necessary - and such measures can be offered by us.

In view of the above, it is clear that the machine manufacturer, KRONES, and the proprietor must work together in order to minimise noise levels generated and address any noise level problems:

- KRONES regarding their technical products, and
- the proprietor with respect to the size and nature of the building
- (The suitable machine layout is significantly influenced by the size of the room in which it is positioned)

The sound absorption coefficient, sound propagation per doubled distance and reverberation time are all crucial factors in designing low-noise rooms.

Experience has shown that a minimum sound absorption coefficient must be 0.35. The noise level propagation per doubled distance should be approx.5 dB (A). Depending on the hall area, the reverberation time should be ideally between 0.6 and 0.8 sec. However, for hall sizes smaller than 300m², reduced reverberation times (less than 0.6 sec.) are necessary. In most cases, this can only be achieved when additional noise abatement measures are introduced.

These features are also an important prerequisite for the efficiency of the additional noise reducing measures

# Line characteristics

such as screens, noise protection panels, etc.. It should be noted that the acoustic ceiling should be positioned with a headway of 4m and the sound absorption coefficient should amount to a frequency of 500 - 4000 Hz >0.8.

KRONES shall not be held liable for the emission values of third-party machines and third-party auxiliary devices!

## Configuration factor

<ul><li>Planned number of operators</li><li>Line control</li></ul>	see layout Conventional: The conveyor speed is set according to the speed of the machines picking up the containers. The machines are controlled via limit switches at infeed and discharge (isolated control).
Line installation site	according to hall layout
Hall plan number	N.A.
Gradient diagram	N.A.
Electrical documentation <ul> <li>Electrical connection diagram structure</li> </ul>	according to JIC for North American Design
Marking and dialog displays:	
Language of PLC software	English
Language of machine inscription	English
Design of machine label	with pictograms according to KRONES company stand- ard
Language monitor / touch-screen	English
Additional influencing variables <ul> <li>Potentially explosive material</li> </ul>	no

#### **Electrical line components**

The electrical equipment of KRONES machines and line parts is designed, manufactured and finally inspected according to NFPA 79 and UL508A. KRONES has the certification according to UL 508A for the manufacturing of control cabinets and has the UL identification number (file umber) E226540. The inspection results are documented and supplied with the electrical equipment. For all control cabinets manufactured at KRONES for supply to the United States and Canada KRONES confirms by the UL-LISTED Label (Enclosed Industrial Control Panel) that all relevant requirements of UL508A and NFPA79 are observed. Operation of the electrical equipment:

KRONES indicates and supposes that the supplied electrical equipment is operated within the limits of the maximum allowed net parameters of NFPA79, item 4.3. Additionally the requirements in IEC 61000-2-4 (environment class 2) must be obtained.

#### Material :

For the KRONES NAD standard equipment variant well-proved and high-quality branded products with the necessary UL approvals and applications (CCN code) are applied for the electrical equipment.

Note on safety technology:

Safety parts of controls are designed especially according to the standard specifications EN ISO 13849 and EN 62061. For risk analysis the contents of standard EN ISO 14121 are applied,

The technology of KRONES machines and lines is designed up to a maximum performance level "d" (according to EN ISO 13849) and up to SIL 2 (according to EN 62061).

The individual performance level and/or SIL for the respective safety function at the machine is determined individually by a risk analysis and accordingly planned.

### Reservation

All specifications for electronic components and equipment are valid for the entire quotation and/or the order. Deviations for technical reasons are possible. All deviations from the specifications are explicitly stated for each quoted item and are regarded as mandatory in their changed version. Items described "according to KRONES design" are electronic components or equipment which cannot be determined until the execution of the contract. In those cases, KRONES reserves the right to change the make / manufacturer or equipment types of the used electrical components without extraordinary information for the customer.

#### **Electrical connection data**

Network in customers net Solidly Grounded Wye Network (L1, L2, L3, GND). Network type similar to TN three-phase network according to IEC 364-3. The neutral point of the secondary winding transformer is grounded and designed as protective earth conductor (Ground GND). There is no neutral conductor in this network. 460 V Rated operating voltage in customer's network 60 Hz Supply voltage frequency +/-10% Voltage fluctuations in customer's network The customer's network has no loadable neutral conduc-Neutral conductor in the connected customer's network tor. The adaptation of the electrical power supply is not effected. The electrical components will be sized for each available non-standard main voltage, if possible. If, for technical reasons, electrical components with different voltage specifications are used, corresponding transformers are necessary in the machine electric. A network type allowed for the operation of Krones line components (TT network, TN-C network, TN-S network) must be provided. Connection of KRONES machines and line system Power is supplied to KRONES machines and system parts parts with 4-conductors system, 3 phases and protective earth conductor (L1, L2, L3, GND). The incoming-feeder bays are also structured as 4-conductors system. The required



Rated operating voltage for line components of	operating voltages for electric components whose oper- ating voltage is not provided by the customer's power supply system are generated by additional transformers in the machines and line system parts. 460 V
<ul> <li>KRONES scope of supply.</li> <li>Voltage fluctuations at the supply units of the line components and/or power subdistribution included in KRONES scope of supply.</li> </ul>	+/-10%
Neutral conductor at the connection of KRONES ma- chines and line components	Power is supplied to KRONES machines and line parts without loadable neutral conductor.
Contactors and disconnectors Main and auxiliary contactor Motor safety device Time-delay relay Relay Main switch Main switch cut-off Hardware safety switching devices Manufacturer of mechanical position switch Safety switch design Safety switch without interlocking Safety switch with interlocking Circuit breaker DC	make: Allen Bradley make: Allen Bradley make: Allen Bradley make: Allen Bradley, but not for special applications make: Allen Bradley 3 pins make: Allen Bradley make: Schmersal without interlocking make: Allen Bradley / Guardmaster make: Allen Bradley / Guardmaster make: Heinemann
Sensors Light sensors Proximity detector	KRONES applies standard and high-quality sensors which are adapted optimally to the respective use. Determined by function and requirements, make Pep- perl & Fuchs, IFM and Turck are used.
<ul> <li>Power supply</li> <li>power supply unit, controlled</li> <li>Control voltage, D.C.</li> </ul>	make: Siemens 24 V
<ul> <li>Display and operation</li> <li>Indicating and control devices with a diameter of 22.5 mm</li> </ul>	make: Allen Bradley, AB 800
Operating system design	The components used are explicitly indicated in the ma- chines.
<ul> <li>Operating system Touchscreen</li> <li>Minimum size and/or type of the touch-screen used for machine operation.</li> </ul>	make: B&R, visualisation software ZenOn The screen sizes used are explicitly indicated in the ma- chines.
Design of touch-screen operator surface	Version 2.00: task-oriented visualisation with optimised operator guidance as well as solution-oriented message and diagnostics system according to style guide of KRONES AG 2011.
<ul> <li>Manufacturer of signal beam</li> <li>Following functions are defined for the standard KRON Visual signal red : Continuous light for malfunction, fl Visual signal green: Continuous light for automatic ope Visual signal blue: Continuous light for imperative han ating materials approaching the end, opera Visual signal yellow: Flash lamp for attention restart o</li> </ul>	Make. Allen Bradley ES signal beams: ash lamp for emergency stop eration, flash lamp for production process interrupted. dling necessary, flash lamp for raw, processing and oper- tor intervention necessary. f process unit.



Visual signal white: Muting signals the actual safe overriding of a contact-free safety device This lamp is usually integrated in the safety device.

Acoustic signal message: Automatic restart, general malfunction

Further specific functions are indicated in the respective operating manual of the process unit.

The structure of the signal beam depends on the type and function of the process unit and is indicated explicitly in the unit.

Tr	ansformers Thermistor protection	Make: Allen Bradley
Ca	bles and connections	
	Design of socket for programming unit	according to UL/CSA
1	Design of the electrical lines for the internal machine	sheathed cable according to UI /CSA requirements
	installation	
	Design of electrical connection cables which are guid- ed outside the machine by trays.	sheathed cable according to UL/CSA requirements, suit- able for laying in cable trays (TC-ER), construction type MTW.
	Design of electrical lines	Power cable according to UL/CSA and NEC (NFPA 70), conductor material copper
	Electric lines	according to KRONES design. The manufacturer is de- termined by KRONES depending on the application.
	Line screw connections	make: Lapp
	Line identification plates	make: Murrplastik
	Cable protection design	Protective hoses are installed at machines infeed and
		discharge, adjacent to aggregates and turning machine
		narts of the line or with using lattice travs
	Wire colours	conductor colours according to KRONES, similar to VDE
		standards
	Main circuit outer conductor L1	black
	Main circuit outer conductor L2	black
	Main circuit outer conductor L3	black
	Main circuit outer conductor L1 transformer, second- ary side	brown
	Main circuit outer conductor L2 transformer, second- ary side	brown
	Main circuit outer conductor L3 transformer, second- ary side	brown
	Main circuit neutral conductor N	white
	Protective earth conductor, equipotential bonding	green
	conductor PE	
	Control circuit DC, outer conductor positive L+	dark blue
	Control circuit DC, return conductor negative 0V	dark blue/white
	External voltage AC/DC	orange
	Measuring lines AC/DC	violet
	Minimum core cross section with three-phase current	AWG 14 Under certain circumstances the minimum cross section may fall below within housings, if the con-
	Minimum core cross section with alternating current	AWG 14 Under certain circumstances the minimum
	(1 and 2 phases)	cross section may fall below within housings if the con-
		nection of AWG is technically not possible (UL508A).
	Minimum wire cross section in control circuits inside housings	AWG 18, with power supply lines AWG 16. With ready- made or permanently attached lines the cross section



	may differ and cannot be changed.
Minimum wire cross section in control circuits outside housings	AwG 18 for circuits with 2 wires and frequently moved
nousings	lines AWG 16. With ready-made or permanently at-
	tached lines the cross section may differ and cannot be
	changed.
The identification of individual cores is ensured	by using the existing identification of the terminals or
	devices in compliance with the connection diagram.
	KRONES uses cables marked with colour-code or im-
	printed numbers which can be clearly indentified by the
	corresponding terminal diagram. Additionally, an identi-
	fication with self-adhesive labels, make: Brady, is ap-
	plied whose numbering is identical to contact and ter-
	minai number.
Additional identification of the conductors	is only effected inside the nousing, i.e. all cores in the
	control cabinet, control panel, terminal box, etc. include
	an additional identification feature. Feed lines, number
	wires and colour-coded cables as well as all cables at
	discharge for actuators, sensors and motors are not
	marked in this way.
Drive technology in general	
Machine drive motors	make: SEW
Synchronous motor for machine drive	make: SSB
<ul> <li>Servo motors for machine drive</li> </ul>	make: SEW
Gear motors for machine drive	according to KRONES design. The manufacturers are
	determined by KRONES in dependence upon the applica-
	tion.
Convevor drives	The frequency converters are installed in central design.
	All frequency converters are in the control cabinet.
Drive motors for container convevor	make: SEW
Drive motors for pack conveyor	make: SEW
Synchronous motors for conveyor drives	make: SSB
Other drive units	according to KRONES design. The manufacturer is de-
	termined by KRONES depending on the application.
Protection type of drive motors	SEW drives in totally-enclosed, fan-cooled design, oth-
	erwise IP55
Protection type of the pump motors	in totally enclosed fan cooled design
Motor start conditions	Soft-start equipment for three-phase asynchronous
	motors from 5.5. kW upwards
Insulation class of drive motors	F
Protection against restart of the drives during	by switching off and locking the main switch or the
maintenance is ensured	maintenance switch on site. Additionally, a lockable
	isolator per drive is installed in the indicated areas.
Motor isolators used for	all three-phase motors of the conveyor drives, where the
	switch actuation can not cause a malfunction or damage
	at the machines or the line parts.
Motor isolator	make: Siemens
Function of motor isolator	Isolation of main and control circuit per drive, with visu-
	al display. Display and isolation of control circuit once
	per grouped unit.
Frequency inverter	make: Allen Bradley
Frequency inverter - manual input board	Each make of frequency inverter gets one manual input
	board per machine. In the transport technology each
	control cabinet gets a manual input board.
Frequency inverter for synchronous motors	make: Allen Bradley





- Manufacturer of decentralized frequency inverter motor - machine
- Frequency inverter for servo motor
- Soft start equipment

## Automation technology

### Automation system

- Manufacturer of programmable logic control unit (PLC)
- Programmable logic control unit (PLC)
- Power supply of programmable logic control (PLC)
- Reserved space at the input and output ports
- Field bus design
- Sensor / actuator design

## Housing and cooling

- Location of the electrical components
- Acceptance
- Housing protection type
- Material of the integrated control cabinet
- The cable infeeds of the integrated control cabinet
- Design
- Stand-alone control cabinets
- Material of stand-alone control cabinet(s)
- Width of stand-alone control cabinets
- Height of stand-alone control cabinets
- Depth of stand-alone control cabinets
- Stand-alone control cabinets
- Stand-alone control cabinets
- Material of bases of stand-alone control cabinets
- Base height of stand-alone control cabinets
- Base of stand-alone control cabinets
- Side part of stand-alone control cabinets
- Cable inlet into the stand-alone control cabinets
- Ax. transportation unit of the control cabinets
- Control cabinet foodpad levelling supports
- Reserve space in the control cabinet or on the component panel for the entire electrical installation
- Manufacturerof illumination of mounted control cabinet and the free-standing control cabinets
- The stand-alone control cabinets
- Door latch of integrated control panel and freestanding control cabinets
- Control cabinet lock for min. 2 control cabinets
- Control cabinet door
- Turning on of illumination of the mounted control cabinet and the free-standing control cabinets

#### make: Danfoss

Due to constructional limits the manufacturer of the frequency inverter for servo motors is determined by KRONES and is described with the respective machines. according to KRONES design. The manufacturer is determined by KRONES depending on the application.

designed according to KRONES. Make: Allen Bradley

Allen Bradley ControlLogix or GuardLogix provided by KRONES 10 % Ethernet IP conventional

is set by KRONES due to constructional reasons is performed internally acoording to UL508A and NFPA79 for the electrical equipment manufactured by KRONES.

NEMA 12

Sheet steel (only for machines in the dry section) are performed according to KRONES.

of the stand-alone control cabinets according to KRONES make: Rittal

sheet steel

31,50 inch (800 mm)

70,87 inch (1.800 mm)

15,75 inch (400 mm)

make Rittal, TS 8884.333 (WxHxD) 800 x 1800 x 400

- sheet steel
- with base
- sheet steel
- 7,87 inch (200 mm)

Complete housing with mounted base

make Rittal, type TS 8184.235 (wxh) 400 x 1800 made of sheet steel

in the control cabinet base from the side 125,98 inch (3.200 mm)

for Rittal control cabinet

10 %

according to KRONES. Lamps with energy-saving LED technology are applied. The orientation of the light beam is limited possible by turning the support. are delivered with door. with double bit key

for commercial main switches for an aperture angle of 130 degrees via toggle switch, integrated into the lamp

<ul> <li>Cooling of housing at the machines in the wet sector</li> <li>Cooling of the separate control cabinets in the wet sector</li> <li>Cooling of the housing at the machines in the dry sector</li> </ul>	with cooling unit with cooling unit (under the condition that the control cabinets are supplied with doors). with cooling unit
<ul> <li>Cooling of the separate control cabinets in the dry sector</li> <li>Control cabinet ventilation</li> <li>Control cabinet ventilation</li> <li>Control cabinet ventilation</li> </ul>	with cooling unit (under the condition that the control cabinets are supplied with doors). according to KRONES design. The manufacturer is de- termined by KRONES depending on the application. continuous operation, without thermostat
<ul> <li>Cooling unit design</li> <li>Cooling unit for stand-alone control cabinet</li> <li>Material of cooling unit for stand-alone control cabinets</li> </ul>	tion are determined by KRONES depending on the appli- cation. make: KRONES sheet steel
<ul> <li>Control panel material</li> <li>Material of the sub-control panel</li> <li>Cooling unit for the control panel</li> <li>Material of the housing of the indicating and control devices</li> </ul>	according to KRONES design steel plate Make: KRONES plastic
Material of terminal boxes / receptacles	according to KRONES
<ul> <li>Equipment</li> <li>Marking of electrical components outside the housings is made</li> <li>Marking of electrical components in the housing</li> <li>Analog signal exchange between the machines of this</li> </ul>	with yellow film sticker with yellow film stickers at the object 4 - 20 mA DC
line	
Network technology  Provision  Network design	for customer's network via Ethernet. The simultaneous operation of not ap- proved customer applications and KRONES applications on the same network are not allowed.
<ul> <li>Network cabling</li> <li>Network cabling material</li> </ul>	with copper cables and fibre optic cables
Deviating for machines is applied: 1. Packaging line VARIOLINE 2M	
<ul> <li>Electrical connection data</li> <li>Identifier of process unit for connection diagram</li> <li>Full-load current lb max.</li> <li>Rated connected apparent power</li> </ul>	=EPB1 67 A 53,7 kVA
Contactors and disconnectors <ul> <li>Safety switch without interlocking</li> </ul>	make: Schmersal
Display and operation ■ Operating system	Control of the machine / the conveyors is effected via a touch-screen. For safety functions as well as main activation functions additional indicating and control devices are used.
Type and/or size of the touch-screen used	15" Clean Design - colour display in stainless steel hous-



Structure of signal beam	ing with ZenOn visualisation software Bottom-up: illuminating indicator blue, green, red
<ul> <li>Drive technology in general</li> <li>Machine drive motors</li> <li>Frequency inverter for servo motor</li> </ul>	make: SEW make: B&R
<ul> <li>Automation technology</li> <li>Automation technology</li> <li>Manufacturer of programmable logic control unit (PLC)</li> <li>Series of the programmable logic control (PLC)</li> </ul>	Programmable Logic Control (PLC) make: Siemens Siemens S7 300
CPU - type of programmable logic control (PLC)	CPU 317-2DP
<ul> <li>Housing and cooling</li> <li>Installation place of electrical components</li> <li>Cooling unit design</li> </ul>	in the control cabinet integrated in the machine according to KRONES. The installation is determined by KRONES depending on the application.
<ul> <li>Cooling unit for control panel</li> <li>Material of the control cabinet cooling unit</li> <li>Material of the free-standing control panel (operator panel)</li> </ul>	make: KRONES sheet steel stainless steel
<ul><li>Network technology</li><li>■ Provision</li></ul>	for a KRONES network
2. Container conveyor SYNCO S	
<ul> <li>Electrical connection data</li> <li>Identifier of process unit for connection diagram</li> <li>Full-load current lb max.</li> <li>Rated connected apparent power</li> <li>Rated connected active power</li> <li>Power factor cosinus phi</li> <li>Length of the electrical connection lines from the separate control cabinet to the machine</li> </ul>	=TBB1 14 A 11,1 kVA 10,81 kW 0,97 328,08 feet (100 m)
<ul> <li>Contactors and disconnectors</li> <li>Handle (pressing main switch)</li> <li>Design of safety technology</li> </ul>	FMD (Flange Mounted Disconect) with hardware switching devices The logics of the safety technology is only implemented in the connection of hardware devices.
Display and operation ■ Operating system	Control of the machine / the conveyors is effected via a touch-screen. For safety functions as well as main activation functions additional indicating and control devices are used.
<ul> <li>Type and/or size of the touch-screen used</li> <li>Structure of signal beam</li> </ul>	15" colour display with ZenOn visualisation software Illuminating indicator red
Automation technology <ul> <li>Automation technology</li> <li>CPU - type of programmable logic control (PLC)</li> </ul>	Programmable Logic Control (PLC) ControlLogix 1756-L71



#### Housing and cooling

- Installation place of electrical components
- Number of stand-alone control cabinets
- Cooling for separate control cabinet
- Cooling of control panel, control cabinet and control desk
- Control panel design
- Control panel material
- Cooling unit for control panel

#### Cooling unit for the control panel

Material of the terminal boxes / receptacles

#### 3. Linear rejection unit 083 S

# Electrical connection data

- Supply of the power line is effected
- Voltage supply
- Identifier of process unit for connection diagram
- Full-load current lb max.
- Rated connected apparent power
- Rated active power

#### **Contactors and disconnectors**

- Main switch
- Handle (pressing main switch)
- Design of safety technology

#### **Display and operation**

Operating system

#### Operating system touch-screen

Type and/or size of the touch-screen used

#### Housing and cooling

Material of the integrated control cabinet

#### 4. Pack conveyor MULTICO S

#### **Electrical connection data**

- Identifier of process unit for connection diagram
- Full-load current lb max.
- Rated connected apparent power
- Rated connected active power
- Power factor cosinus phi
- Length of the electrical connection lines from the separate control cabinet to the machine

in stand-alone control cabinets

with air conditioning (under the condition that the control cabinets are supplied with doors). with cooling unit

fix mounted stainless steel according to KRONES. Material, manufacturer, type and installation are determined by KRONES according to the application. make: KRONES stainless steel

by KRONES via the conveyor control =LA1 4 A 0,9 kVA 0,92 kW

make: Eaton/Moeller rotating in red/yellow with hardware switching devices The logics of the safety technology is only implemented in the connection of hardware devices.

Control of the machine / the conveyors is effected via a touch-screen. For safety functions as well as main activation functions additional indicating and control devices are used. make: B&R 5.7" colour display (mini panel) with ZenOn process visualisation software

stainless steel

=TBG1 19 A 15,1 kVA 15,13 kW 1,00 328,08 feet (100 m)

Contactors and disconnectors

- Handle (pressing main switch)
- Design of safety technology

## **Display and operation**

Operating system

- Type and/or size of the touch-screen used
- Structure of signal beam

## Automation technology

- Automation technology
- CPU type of programmable logic control (PLC)

## Housing and cooling

- Installation place of electrical components
- Number of stand-alone control cabinets
- Cooling for separate control cabinet
- Cooling of control panel, control cabinet and control desk
- Control panel design
- Control panel material
- Cooling unit for control panel
- Cooling unit for the control panel

FMD (Flange Mounted Disconect) with hardware switching devices The logics of the safety technology is only implemented in the connection of hardware devices.

Control of the machine / the conveyors is effected via a touch-screen. For safety functions as well as main activation functions additional indicating and control devices are used.

15" colour display with ZenOn visualisation software Illuminating indicator red

Programmable Logic Control (PLC) ControlLogix 1756-L72

in stand-alone control cabinets 4

with air conditioning (under the condition that the control cabinets are supplied with doors). with cooling unit

free-standing control panel stainless steel according to KRONES. Material, manufacturer, type and installation are determined by KRONES according to the application. make: KRONES