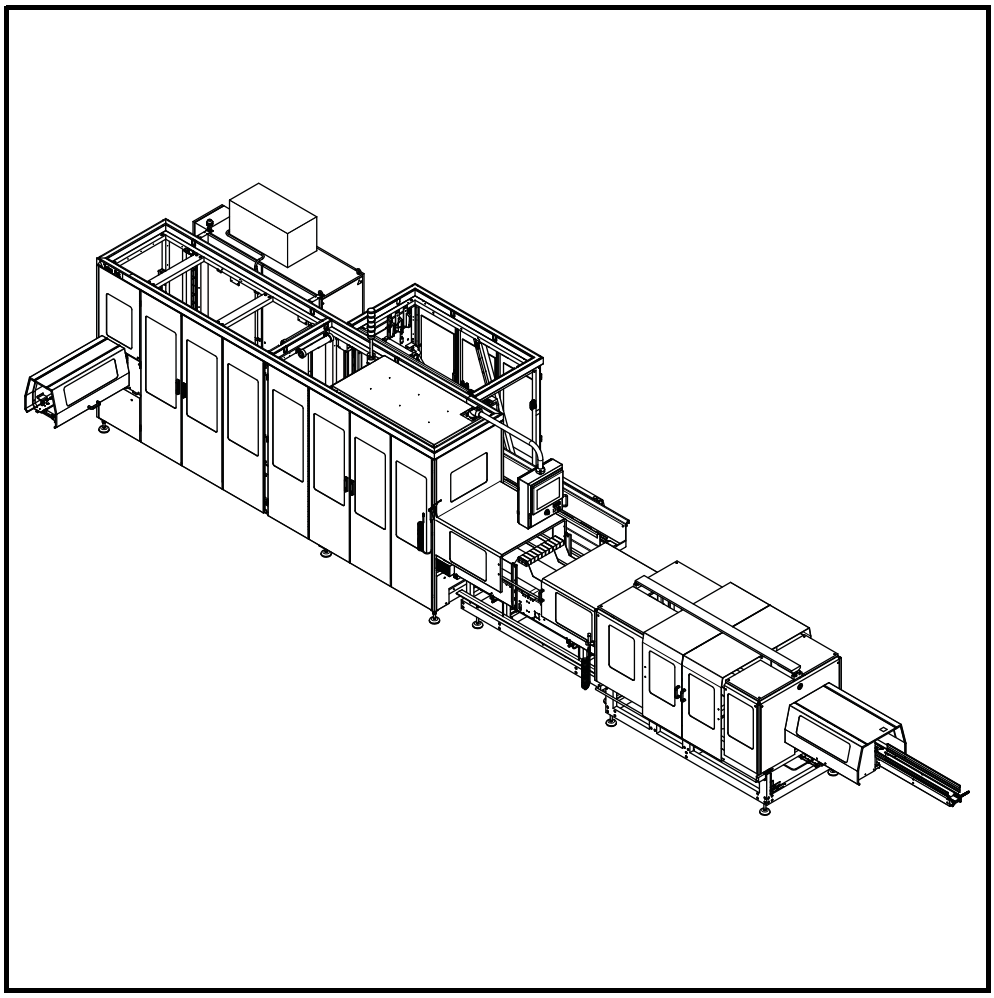
IM

Installation Manual

Cardboard Packer 30 Speed

663151-0200

TechPub_2614345_0108 - IM_3047613_0103_fro.fm



WARNING

Read and follow all safety precaution instructions throughout this manual and on safety signs attached to this equipment.

Failure to follow all safety precaution instructions could result in death or serious injury.

Tetra Pak

Doc. No. IM-3047613-0103

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Tetra Pak and all Tetra Pak products are trademarks belonging to the Tetra Pak Group.

The content of this manual is in accordance with the design and construction of the machine or equipment at the time of publishing. Tetra Pak reserves the right to introduce design modifications without prior notice.

The English language version of this document contains the original instructions. All other language versions are translations of the original instructions.

This document was produced by:

Tetra Pak Packaging Solutions
Via Delfini 1
41123 Modena
Italy

Additional copies can be ordered from Tetra Pak. When ordering additional copies, always provide the document number.

Doc. No. IM-3047613-0103

Issue 2011-08

TechPub_2614345_0108 - IM_3047613_0103_fro.fm

This manual is valid for:

Series No./ Machine No. Sign.

IM

Installation Manual

Cardboard Packer 30 Speed
663151-0200

i Introduction

ii Safety Precautions

1 Technical Data and Drawings

2 Preparation

3 Moving and Unpacking the Equipment

4 Positioning, Assembly and Connections

5 Final Installation Check

6 Preparation for Commissioning

7 Disassembly and Removal

TechPub_2614345_0108 - IM_3047613_0103_fro.fm

Machine or equipment configurations that this manual is valid for are described on the next page.

Doc. No. IM-3047613-0103

Issue 2011-08

Tetra Pak

Tetra Pak Packaging Solutions

Valid for:

Name	Drawing Specification and Development Step	Additional Information
Cardboard Packer 30 Speed	663151-0200	Optional Equipment: WA - Wrap Around unit

TechPub_2614345_0108 - IM_3047613_0103_fro.fm

Update Log for Doc. No. IM-3047613-0103

This table shows all changes made to this manual, including installed rebuilding kits, added or removed pages. Page numbering on added pages begins with UP.

Date	Installed Kit	Added Pages (Doc. No.)	Removed Pages	Signature

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Date	Installed Kit	Added Pages (Doc. No.)	Removed Pages	Signature

TechPub_2614345_0108 - IM_3047613_0103_fro.fm

i Introduction

TechPub_2614345_0108 - in02_3056456_01.fm

About the Introduction Chapter

This chapter contains basic information about this manual and the related Tetra Pak equipment.

TechPub_2614345_0108 - in02_3056456_01.fm

Abbreviations and Terminology . . . . . i - 5

Manual Information . . . . . i - 6

Delivered Manuals . . . . . i - 6

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Intended Use of the Equipment . . . . . i - 9

Manufacturer . . . . . i - 9

Support and Feedback . . . . . i - 9

Declaration of Conformity . . . . . i - 9

Identification . . . . . i - 17

CE Classification . . . . . i - 17

Machine Plate . . . . . i - 17

Orientation . . . . . i - 18

Hygiene. . . . . i - 20

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Abbreviations and Terminology

Abbreviation/ Terminology	Meaning	Translation
CBP	Cardboard Packer	
CE	Communautés Européennes/ European Communities	
CPU	Central Processing Unit	
EEA	European Economic Area	
EM	Electrical Manual	
IM	Installation Manual	
LC	Line Controller	
LH	Left Hand	
max	Maximum	
min	Minimum	
MM	Maintenance Manual	
OK	Optional Kit	
OE	Optional Equipment	
OM	Operation Manual	
PC	Package Conveyor	
PLC	Programmable Logic Controller	
PLMS	Packaging Line Monitoring System	
RH	Right Hand	
SPC	Spare Parts Catalogue	
TBA	Tetra Brik Aseptic	
TCF	Tetra Conveyor Flexi	
TD	Turning Device	
TeM	Technical Manual	
TPOP	Tetra Pak Operator Panel	
Tray OF	Tetra Tray with Over Flaps	
UC	Unit Conveyor	
WA	Wrap Around unit	
WAIF	Tetra Wrap Around box with Inside top Flap	
WASF	Tetra Wrap Around box with Side Flap	

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Manual Information

Tetra Pak recommends reading all delivered manuals carefully. Make sure that the delivered manuals are available to personnel who operate or maintain the equipment.

It is important to keep this manual for the lifetime of the equipment and to pass the manual on to any subsequent holder or user.

Tetra Pak will not be held responsible for any damage to the equipment caused by not following the instructions given in this manual.

Delivered Manuals

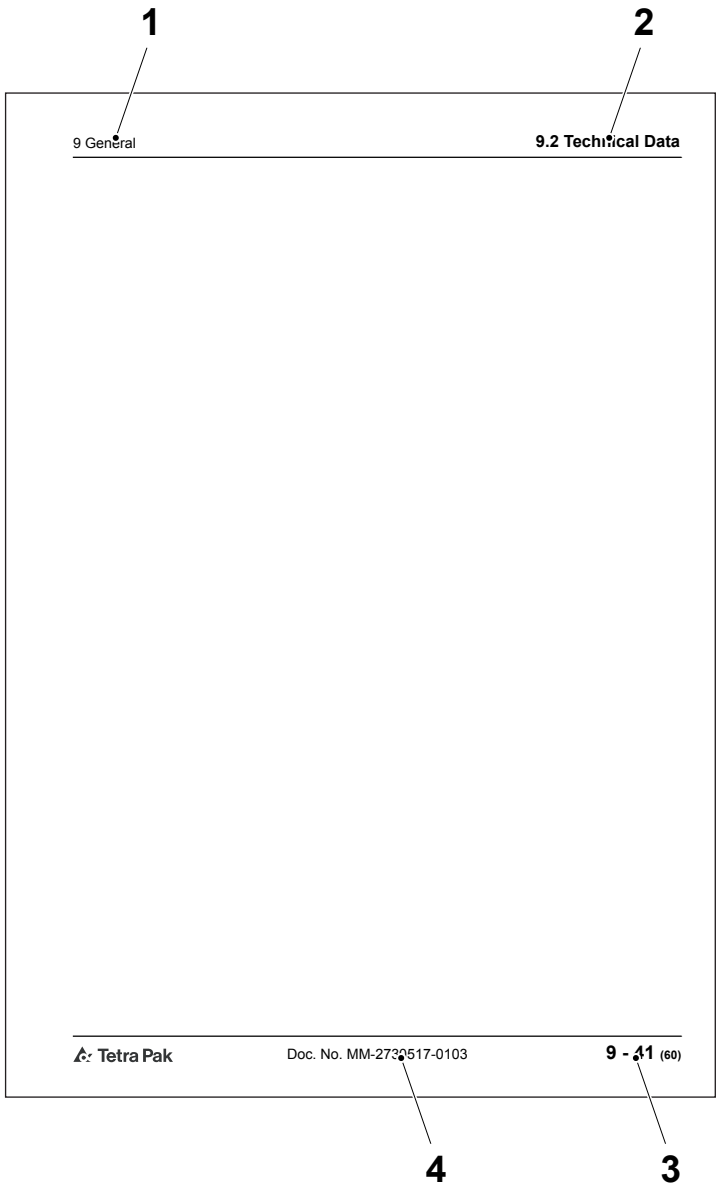
Manuals delivered with this equipment:

- EM
  The Electrical Manual provides technicians with information about the equipment's electrical system.
- IM
  The Installation Manual provides technicians with information required to safely install the equipment.
- MM
  The Maintenance Manual provides technicians with information on maintaining the equipment.
- OM
  The Operation Manual manual provides the operator with information on handling and operating the equipment before, during, and after production.
- SPC
  The Spare Parts Catalogue provides the information necessary to order spare parts from Tetra Pak.

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Page Layout

Every main page in a manual contains a header and a footer. The page header contains the chapter name (1) and the section name (2). The page footer contains the page number (3), and the document number (4). See also the Page Numbering section.



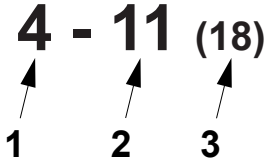
1 Chapter name
2 Section name
3 Page number
4 Document number

TechPub_2614345_0108 - in02_3056456_01.fm

Page Numbering

A page number has three parts:

- chapter number (1)
- consecutive page number (2) within the chapter
- total number of pages (3) in the chapter.



1 Chapter number
2 Consecutive page number
3 Total number of pages

Typographical Conventions

Controls on the operator panel, emergency stop devices, and program steps are printed in CAPITAL LETTERS.

Menu names, button names and other text displayed in software are printed in `Courier`.

Cross-references are underlined.

Symbols

Symbols used in illustrations.

	A pointer arrow indicates the position of an object.
	A zoom arrow indicates that an object view is enlarged. The arrow points towards the enlarged view of the object.
	A rotation movement arrow indicates rotational movement of an object. The arrow points in the direction of rotation.
	A straight movement arrow indicates movement of an object. The arrow points in the direction of movement.

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Machine Introduction

Intended Use of the Equipment

The intended use of this Tetra Pak equipment is to place packages approved by Tetra Pak into units made of corrugated cardboard.

All other use is prohibited. Tetra Pak will not be held responsible for injury or damage if the equipment is used for any other purpose than the intended use described above.

Manufacturer

This Tetra Pak equipment has been manufactured by

Tetra Pak Packaging Solutions
Via Delfini 1
41123 Modena
Italy

Support and Feedback

If you encounter problems when operating this equipment or have other inquiries, comments, or suggestions for improvement, contact Tetra Pak.

Declaration of Conformity

A copy of the Declaration of Conformity can be found below. The signed Declaration of Conformity is delivered separately with the equipment.

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Tetra Pak

Declaration of Conformity

Tetra Pak Packaging Solutions S.p.A.
Via Delfini 1
41123 Modena
Italy

declare that this machine/ equipment/ complex installation:

Cardboard Packer 30 Speed (663151-0200)
75723/xxxxx

is in conformity with the following harmonized standards:

EN 415-7:2006+A1:2008
EN 61000-6-2:2005
EN 61000-6-4:2007

and is in conformity with the provisions of the Directive(s) - including amendments:

[X] 2006/42/EC Machinery

[X] 2004/108/EC Electromagnetic compatibility (EMC)

[ ] 2006/95/EC Low Voltage

The following person is authorised to compile the technical file:

Mauro Ferretti
Tetra Pak Packaging Solutions S.p.A.
Via Delfini 1
41123 Modena
Italy

Modena 01/08/2011

Giovan Battista Bisogni
Director, SCO - Capital Equipment - Carton Value & Distribution Equipment

English
FORM 5293 version 2010-01-14

TechPub_2614345_0108 - in02_3056456_01.fm

Tetra Pak

Konformitätserklärung

Tetra Pak Packaging Solutions S.p.A.
Via Delfini 1
41123 Modena
Italy

erklärt hiermit, dass diese Maschine / Anlage / komplexe Einrichtung:

Cardboard Packer 30 Speed (663151-0200)
75723/xxxxx

konform ist mit den folgenden harmonisierten Standards:

EN 415-7:2006+A1:2008
EN 61000-6-2:2005
EN 61000-6-4:2007

und übereinstimmt mit den Vorschriften der Richtlinien einschließlich deren Ergänzungen:

[X] 2006/42/EC Maschine
[X] 2004/108/EC Elektromagnetische Verträglichkeit (EMV)
[ ] 2006/95/EC Niederspannung

Folgender Person ist es gestattet, die technischen Unterlagen zusammenzustellen:

Mauro Ferretti
Tetra Pak Packaging Solutions S.p.A.
Via Delfini 1
41123 Modena
Italy

Modena 01/08/2011

Giovan Battista Bisogni
Director, SCO - Capital Equipment - Carton Value & Distribution Equipment

Deutsch/German
FORM 5293 version 2010-01-14

Tetra Pak

Konformitetserklæring

Tetra Pak Packaging Solutions S.p.A.
Via Delfini 1
41123 Modena
Italy

erklærer at dette maskineri/dette udstyr/ kompleks installation:

Cardboard Packer 30 Speed (663151-0200)
75723/xxxxx

holder følgende harmoniserede standarder:

EN 415-7:2006+A1:2008
EN 61000-6-2:2005
EN 61000-6-4:2007

samt bestemmelserne iht. direktivet/direktiverne, inkl. ændringer:

[X] 2006/42/EC Maskineri
[X] 2004/108/EC Elektromagnetisk kompatibilitet
[ ] 2006/95/EC Lav spænding

Følgende person er authoriseret til at udarbejde den tekniske fil:

Mauro Ferretti
Tetra Pak Packaging Solutions S.p.A.
Via Delfini 1
41123 Modena
Italy

Modena 01/08/2011

Giovan Battista Bisogni
Director, SCO - Capital Equipment - Carton Value & Distribution Equipment

Dansk/Danish
FORM 5293 version 2010-01-14

Tetra Pak

Declaración de Conformidad

Tetra Pak Packaging Solutions S.p.A.
Via Delfini 1
41123 Modena
Italy

declaramos que esta máquina/equipo/instalación compleja:

Cardboard Packer 30 Speed (663151-0200)
75723/xxxxx

es conforme a los siguientes estándares armonizados:

EN 415-7:2006+A1:2008
EN 61000-6-2:2005
EN 61000-6-4:2007

y cumple con lo que dicta(n) la(s) Directiva(s) - y sucesivas modificaciones:

[X] 2006/42/EC máquinas
[X] 2004/108/EC compatibilidad electromagnética
[ ] 2006/95/EC equipo eléctrico diseñado para el uso dentro de ciertos límites de voltaje

La persona indicada a continuación está autorizada para compilar el archivo técnico:

Mauro Ferretti
Tetra Pak Packaging Solutions S.p.A.
Via Delfini 1
41123 Modena
Italy

Modena 01/08/2011

Giovan Battista Bisogni
Director, SCO - Capital Equipment - Carton Value & Distribution Equipment

Español/Spanish
FORM 5293 version 2010-01-14

Tetra Pak

Yhdenmukaistusvakuutus

Tetra Pak Packaging Solutions S.p.A.
Via Delfini 1
41123 Modena
Italy

vakuuttaa, että allamainittu kone/koneen osa/laitteisto/kompleksi asennus:

Cardboard Packer 30 Speed (663151-0200)
75723/xxxxx

vastaa seuraavia harmonisoituja standardeja:

EN 415-7:2006+A1:2008
EN 61000-6-2:2005
EN 61000-6-4:2007

sekä seuraavia direktiivejä ja niihin liittyviä muutoksia:

[X] 2006/42/EY Kone
[X] 2004/108/EY Sähkömagneettinen yhteensopivuus
[ ] 2006/95/EY Pienjännite

Seuraava henkilö on valtuutettu täyttämään teknisen tiedoston:

Mauro Ferretti
Tetra Pak Packaging Solutions S.p.A.
Via Delfini 1
41123 Modena
Italy

Modena 01/08/2011

Giovan Battista Bisogni
Director, SCO - Capital Equipment - Carton Value & Distribution Equipment

Suomi/Finnish
FORM 5293 version 2010-01-14

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Tetra Pak

Déclaration de Conformité

Tetra Pak Packaging Solutions S.p.A.
Via Delfini 1
41123 Modena
Italy

déclare que la présente machine / l'équipement / l'installation complexe :

Cardboard Packer 30 Speed (663151-0200)
75723/xxxxx

est conforme aux normes harmonisées suivantes :

EN 415-7:2006+A1:2008
EN 61000-6-2:2005
EN 61000-6-4:2007

et est conforme aux dispositions des directives suivantes (amendements compris) :

[X] 2006/42/EC Machine
[X] 2004/108/EC Compatibilité électromagnétique (EMC)
[ ] 2006/95/EC Basse tension

La personne suivante est autorisée à élaborer le dossier technique :

Mauro Ferretti
Tetra Pak Packaging Solutions S.p.A.
Via Delfini 1
41123 Modena
Italy

Modena 01/08/2011

Giovan Battista Bisogni
Director, SCO - Capital Equipment - Carton Value & Distribution Equipment

Français / French
FORM 5293 version 2010-01-14

Tetra Pak

Δήλωση Συμμόρφωσης

Tetra Pak Packaging Solutions S.p.A.
Via Delfini 1
41123 Modena
Italy

δηλώνει ότι η μηχανή / ο εξοπλισμός / σύνθετες εγκατάστασεις:

Cardboard Packer 30 Speed (663151-0200)
75723/xxxxx

είναι σε συμμόρφωση με τα ακόλουθα εναρμονισμένα πρότυπα:

EN 415-7:2006+A1:2008
EN 61000-6-2:2005
EN 61000-6-4:2007

και είναι σε συμμόρφωση με τις διατάξεις της(των) Οδηγίας(ών) - συμπεριλαμβανόμενων των τροπολογιών:

[X] 2006/42/ΕΚ Μηχανημάτων
[X] 2004/108/ΕΚ Ηλεκτρομαγνητικής Συμβατότητας (EMC)
[ ] 2006/95/ΕΚ Χαμηλής Τάσης

Το παρακάτω άτομο είναι εξουσιοδοτημένο να συντάξει τον τεχνικό φάκελο:

Mauro Ferretti
Tetra Pak Packaging Solutions S.p.A.
Via Delfini 1
41123 Modena
Italy

Modena 01/08/2011

Giovan Battista Bisogni
Director, SCO - Capital Equipment - Carton Value & Distribution Equipment

Ελληνικά/Greek
FORM 5293 version 2010-01-14

Tetra Pak

Verklaring van Overeenstemming

Tetra Pak Packaging Solutions S.p.A.
Via Delfini 1
41123 Modena
Italy

verklaart dat deze machine/uitrusting/ complexe installatie:

Cardboard Packer 30 Speed (663151-0200)
75723/xxxxx

overeenstemt met de volgende geharmoniseerde normen:

EN 415-7:2006+A1:2008
EN 61000-6-2:2005
EN 61000-6-4:2007

en overeenstemt met de bepalingen van de Richtlijn(en) - inclusief amendementen:

[X] 2006/42/EG Machine(s)
[X] 2004/108/ EG Elektromagnetische compatibiliteit (EMC)
[ ] 2006/95/EG Laagspanning

De volgende persoon heeft toestemming om het technische dossier samen te stellen:

Mauro Ferretti
Tetra Pak Packaging Solutions S.p.A.
Via Delfini 1
41123 Modena
Italy

Modena 01/08/2011

Giovan Battista Bisogni
Director, SCO - Capital Equipment - Carton Value & Distribution Equipment

Nederlands/Dutch
FORM 5293 version 2010-01-14

Tetra Pak

Erklæring om samsvar

Tetra Pak Packaging Solutions S.p.A.
Via Delfini 1
41123 Modena
Italy

erklærer at denne maskinen / dette utstyret / denne komplekse installasjonen:

Cardboard Packer 30 Speed (663151-0200)
75723/xxxxx

er i samsvar med følgende harmoniserte standarder:

EN 415-7:2006+A1:2008
EN 61000-6-2:2005
EN 61000-6-4:2007

og er i samsvar med bestemmelsene i følgende direktiver med endringer:

[X] 2006/42/EF Maskiner
[X] 2004/108/EF Elektromagnetisk kompatibilitet (EMC)
[ ] 2006/95/EF Lavspenning

Følgende person er autorisert til å kompilere den tekniske filen:

Mauro Ferretti
Tetra Pak Packaging Solutions S.p.A.
Via Delfini 1
41123 Modena
Italy

Modena 01/08/2011

Giovan Battista Bisogni
Director, SCO - Capital Equipment - Carton Value & Distribution Equipment

Norsk/Norwegian
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Tetra Pak

Declaração de Conformidade

Tetra Pak Packaging Solutions S.p.A.
Via Delfini 1
41123 Modena
Italy

declaramos que a máquina/ equipamento/ instalação complexa:

Cardboard Packer 30 Speed (663151-0200)
75723/xxxxx

está em conformidade com as seguintes normas harmonizadas:

EN 415-7:2006+A1:2008
EN 61000-6-2:2005
EN 61000-6-4:2007

e está em conformidade com as disposições da(s) Directiva(s) - inclusive as sucessivas modificações:

[X] 2006/42/CE Máquinas
[X] 2004/108/CE Compatibilidade electromagnética (CEM)
[ ] 2006/95/CE Baixa Tensão

A pessoa abaixo está autorizada a compilar o ficheiro técnico:

Mauro Ferretti
Tetra Pak Packaging Solutions S.p.A.
Via Delfini 1
41123 Modena
Italy

Modena 01/08/2011

Giovan Battista Bisogni
Director, SCO - Capital Equipment - Carton Value & Distribution Equipment

Português/Portuguese
FORM 5293 version 2010-01-14

Tetra Pak

Samræmisyfirlýsing

Tetra Pak Packaging Solutions S.p.A.
Via Delfini 1
41123 Modena
Italy

lýsa hér með yfir að viðkomandi vélbúnaður/búnaður/ uppsetning samstæðu:

Cardboard Packer 30 Speed (663151-0200)
75723/xxxxx

er í samræmi við eftirfarandi samræmda staðla:

EN 415-7:2006+A1:2008
EN 61000-6-2:2005
EN 61000-6-4:2007

og í samræmi við ákvæði þessara tilskipana - að meðtöldum breytingum:

[X] 2006/42/EB Vélbúnaður
[X] 2004/108/EB Rafsegulsviðssamhæfi (EMC)
[ ] 2006/95/EB Lágspenna

Eftirfarandi einstaklingur hefur heimild til að taka saman tækniskjalið:

Mauro Ferretti
Tetra Pak Packaging Solutions S.p.A.
Via Delfini 1
41123 Modena
Italy

Modena 01/08/2011

Giovan Battista Bisogni
Director, SCO - Capital Equipment - Carton Value & Distribution Equipment

Íslenska/Icelandic
FORM 5293 version 2010-01-14

Tetra Pak

Dichiarazione di Conformità

Tetra Pak Packaging Solutions S.p.A.
Via Delfini 1
41123 Modena
Italy

dichiara che questa macchina/ apparecchiatura/ installazione complessa:

Cardboard Packer 30 Speed (663151-0200)
75723/xxxxx

è conforme alle seguenti norme armonizzate:

EN 415-7:2006+A1:2008
EN 61000-6-2:2005
EN 61000-6-4:2007

ed in conformità con quanto disposto nelle Direttive - e relativi emendamenti:

[X] 2006/42/EC Macchinari
[X] 2004/108/EC Compatibilità elettromagnetica (EMC)
[ ] 2006/95/EC Bassa tensione

La seguente persona è autorizzata a redigere il file tecnico:

Mauro Ferretti
Tetra Pak Packaging Solutions S.p.A.
Via Delfini 1
41123 Modena
Italy

Modena 01/08/2011

Giovan Battista Bisogni
Director, SCO - Capital Equipment - Carton Value & Distribution Equipment

Italiano/Italian
FORM 5293 version 2010-01-14

Tetra Pak

Försäkran om överensstämmelse

Tetra Pak Packaging Solutions S.p.A.
Via Delfini 1
41123 Modena
Italy

försäkrar att denna maskin/utrustning/komplexa anläggning:

Cardboard Packer 30 Speed (663151-0200)
75723/xxxxx

är i överensstämmelse med följande harmoniserade standarder:

EN 415-7:2006+A1:2008
EN 61000-6-2:2005
EN 61000-6-4:2007

och överensstämmer med bestämmelserna i följande direktiv inklusive tillhörande ändringar:

[X] 2006/42/EG, maskiner
[X] 2004/108/EG, elektromagnetisk kompatibilitet (EMC)
[ ] 2006/95/EG, lågspänning

Följande person är behörig att ställa samman den tekniska dokumentationen:

Mauro Ferretti
Tetra Pak Packaging Solutions S.p.A.
Via Delfini 1
41123 Modena
Italy

Modena 01/08/2011

Giovan Battista Bisogni
Director, SCO - Capital Equipment - Carton Value & Distribution Equipment

Svenska/Swedish
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Tetra Pak

Prohlášení o shodě

Tetra Pak Packaging Solutions S.p.A.
Via Delfini 1
41123 Modena
Italy

prohlašuje, že tento stroj/vybavení/komplexní instalace:

Cardboard Packer 30 Speed (663151-0200)
75723/xxxxx

je v souladu s následujícími sladěnými normami:

EN 415-7:2006+A1:2008
EN 61000-6-2:2005
EN 61000-6-4:2007

a je v souladu s ustanoveními následujících směrnic
včetně jejich dodatků:

[X] 2006/42/EC Strojní zařízení
[X] 2004/108/EC Elektromagnetická kompatibilita
[ ] 2006/95/EC Nízké napětí

Ke zpracování technických souborů je oprávněna následující osoba:

Mauro Ferretti
Tetra Pak Packaging Solutions S.p.A.
Via Delfini 1
41123 Modena
Italy

Modena 01/08/2011

Giovan Battista Bisogni
Director, SCO - Capital Equipment - Carton Value & Distribution Equipment

Čeština/Czech
FORM 5293 version 2010-01-14

Tetra Pak

Vastavuse Deklaratsioon

Tetra Pak Packaging Solutions S.p.A.
Via Delfini 1
41123 Modena
Italy

deklareerib, et käesolev masin/seade/komplekspaigaldis:

Cardboard Packer 30 Speed (663151-0200)
75723/xxxxx

vastab järgmistele harmoniseeritud standardite nõuetele:

EN 415-7:2006+A1:2008
EN 61000-6-2:2005
EN 61000-6-4:2007

ja on vastavuses direktiivide sätetega
kaasa arvatud muudatused:

[X] 2006/42/EC Masinad
[X] 2004/108/EC Elektromagnetiline ühilduvus
[ ] 2006/95/EC Madalpinge

Tehnilise faili koostamiseks on luba järgmisel isikul:

Mauro Ferretti
Tetra Pak Packaging Solutions S.p.A.
Via Delfini 1
41123 Modena
Italy

Modena 01/08/2011

Giovan Battista Bisogni
Director, SCO - Capital Equipment - Carton Value & Distribution Equipment

Eesti/Estonian
FORM 5293 version 2010-01-14

Tetra Pak

Megfelelőségi Nyilatkozat

Tetra Pak Packaging Solutions S.p.A.
Via Delfini 1
41123 Modena
Italy

nyilatkozom, hogy ez a gép/berendezés/komplex összeszerelés:

Cardboard Packer 30 Speed (663151-0200)
75723/xxxxx

megfelel a következő harmonizált szabványoknak:

EN 415-7:2006+A1:2008
EN 61000-6-2:2005
EN 61000-6-4:2007

és megfelel a következő, módosításokat is magukban foglaló
Direktíváknak:

[X] 2006/42/EC Gépek
[X] 2004/108/EC Elektromágneses összeférhetőség (EMC)
[ ] 2006/95/EC Alacsony feszültségi direktíva

A műszaki dokumentum összeállítására jogosult személy:

Mauro Ferretti
Tetra Pak Packaging Solutions S.p.A.
Via Delfini 1
41123 Modena
Italy

Modena 01/08/2011

Giovan Battista Bisogni
Director, SCO - Capital Equipment - Carton Value & Distribution Equipment

Magyar/Hungarian
FORM 5293 version 2010-01-14

Tetra Pak

Atbilstības deklarācija

Tetra Pak Packaging Solutions S.p.A.
Via Delfini 1
41123 Modena
Italy

deklarējam to, ka šī mašīna/iekārta/sarežģīta instalācija:

Cardboard Packer 30 Speed (663151-0200)
75723/xxxxx

atbilst šādiem harmonizētajiem standartiem:

EN 415-7:2006+A1:2008
EN 61000-6-2:2005
EN 61000-6-4:2007

un ir saskaņā ar direktīvas(u) prasībām,
ieskaitot direktīvas(u) labojumus:

[X] 2006/42/EK Mašīnas
[X] 2004/108/EK Elektromagnētiskā savietojamība
[ ] 2006/95/EK Zemspriegums

Sastādīt tehnisko lietu ir pilnvarota šāda persona:

Mauro Ferretti
Tetra Pak Packaging Solutions S.p.A.
Via Delfini 1
41123 Modena
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Modena 01/08/2011

Giovan Battista Bisogni
Director, SCO - Capital Equipment - Carton Value & Distribution Equipment

Latviski/Latvian
FORM 5293 version 2010-01-14

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Tetra Pak

Deklaracja Zgodności

Tetra Pak Packaging Solutions S.p.A.
Via Delfini 1
41123 Modena
Italy

deklaruje, że niniejsza maszyna/wyposażenie/
instalacja kompleksowa:

Cardboard Packer 30 Speed (663151-0200)
75723/xxxxx

jest zgodna z następującymi normami zharmonizowanymi:

EN 415-7:2006+A1:2008
EN 61000-6-2:2005
EN 61000-6-4:2007

oraz jest zgodna z postanowieniami następujących Dyrektyw,
wraz ze zmianami:

[X] 2006/42/WE Maszyny
[X] 2004/108/WE Kompatybilność elektromagnetyczna
[ ] 2006/95/WE Niskonapięciowy sprzęt elektryczny

Następująca osoba jest upoważniona do opracowania pliku technicznego:

Mauro Ferretti
Tetra Pak Packaging Solutions S.p.A.
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Italy

Modena 01/08/2011

Giovan Battista Bisogni
Director, SCO - Capital Equipment - Carton Value & Distribution Equipment

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Tetra Pak

Atitikties deklaracija

Tetra Pak Packaging Solutions S.p.A.
Via Delfini 1
41123 Modena
Italy

pareiškia, kad šis mechanizmas/įrenginys/kompleksinė įranga:

Cardboard Packer 30 Speed (663151-0200)
75723/xxxxx

atitinka šiuos darniuosius standartus:

EN 415-7:2006+A1:2008
EN 61000-6-2:2005
EN 61000-6-4:2007

taip pat atitinka šių direktyvų nuostatas,
įskaitant jų pataisas:

[X] 2006/42/EB mašinų direktyva
[X] 2004/108/EB direktyva dėl elektromagnetinio suderinamumo
[ ] 2006/95/EB žemųjų įtampų direktyva

Techninį failą sudaryti įgaliotas šis asmuo:

Mauro Ferretti
Tetra Pak Packaging Solutions S.p.A.
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41123 Modena
Italy

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Director, SCO - Capital Equipment - Carton Value & Distribution Equipment

Lietuvių k./Lithuanian
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Tetra Pak

ДЕКЛАРАЦИЯ ЗА СЪОТВЕТСТВИЕ

Tetra Pak Packaging Solutions S.p.A.
Via Delfini 1
41123 Modena
Italy

декларира, че тази машина/ оборудване/ сложна инсталация:

Cardboard Packer 30 Speed (663151-0200)
75723/xxxxx

е в съответствие със следните хармонизационни стандарти:

EN 415-7:2006+A1:2008
EN 61000-6-2:2005
EN 61000-6-4:2007

и е в съответствие с клаузите на Директивата(ите): -
включително поправките:

[X] 2006/42/EC Машини
[X] 2004/108/EC Електромагнитна съвместимост (EMC)
[ ] 2006/95/EC Нисък волтаж

Следното лице е оторизирано да попълни техническия файл:

Mauro Ferretti
Tetra Pak Packaging Solutions S.p.A.
Via Delfini 1
41123 Modena
Italy

Modena 01/08/2011

Giovan Battista Bisogni
Director, SCO - Capital Equipment - Carton Value & Distribution Equipment

Български/ Bulgarian
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Tetra Pak

Declarație de conformitate

Tetra Pak Packaging Solutions S.p.A.
Via Delfini 1
41123 Modena
Italy

declară că această mașină/ echipament/ instalație complexă:

Cardboard Packer 30 Speed (663151-0200)
75723/xxxxx

este în conformitate cu următoarele standarde armonizate:

EN 415-7:2006+A1:2008
EN 61000-6-2:2005
EN 61000-6-4:2007

și este în conformitate cu prevederile Directivelor -
inclusiv cu amendamentele:

[X] 2006/42/EC Utilaje
[X] 2004/108/EC Compatibilitate electromagnetică (EMC)
[ ] 2006/95/EC Joasă tensiune

Următoarea persoană este autorizată să redacteze dosarul tehnic:

Mauro Ferretti
Tetra Pak Packaging Solutions S.p.A.
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41123 Modena
Italy

Modena 01/08/2011

Giovan Battista Bisogni
Director, SCO - Capital Equipment - Carton Value & Distribution Equipment

Română/Romanian
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Tetra Pak

Vyhlásenie o zhode

Tetra Pak Packaging Solutions S.p.A.
Via Delfini 1
41123 Modena
Italy

vyhlasuje, že tento stroj/zariadenie/komplexná inštalácia:

Cardboard Packer 30 Speed (663151-0200)
75723/xxxxx

zodpovedá požiadavkám nasledujúcich harmonizovaných noriem:

EN 415-7:2006+A1:2008
EN 61000-6-2:2005
EN 61000-6-4:2007

a je v zhode s ustanoveniami Smernice (Smerníc) -
vrátane ich zmien a doplnkov:

[X] 2006/42/ES Strojárska
[X] 2004/108/ES Elektromagnetická kompatibilita (EMC)
[ ] 2006/95/ES Nízkonapäťové zariadenia

Nasledujúca osoba je oprávnená zostavovať súbor technickej dokumentácie:

Mauro Ferretti
Tetra Pak Packaging Solutions S.p.A.
Via Delfini 1
41123 Modena
Italy

Modena 01/08/2011

Giovan Battista Bisogni
Director, SCO - Capital Equipment - Carton Value & Distribution Equipment

Slovensky/Slovak
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Tetra Pak

Deklaracija o Skladnosti

Tetra Pak Packaging Solutions S.p.A.
Via Delfini 1
41123 Modena
Italy

izjavljam, da je ta stroj/oprema/kompleksna namestitev:

Cardboard Packer 30 Speed (663151-0200)
75723/xxxxx

izdelan v skladu z naslednjimi standardi:

EN 415-7:2006+A1:2008
EN 61000-6-2:2005
EN 61000-6-4:2007

in v skladu z direktivo (direktivami) - vključno z dopolnili

[X] 2006/42/EC Varnost strojev
[X] 2004/108/EC Elektromagnetna združljivost (EMC)
[ ] 2006/95/EC Električna oprema, namenjena za uporabo v določenih napetostnih območjih

Oseba, ki je pooblaščena za sestavljanje tehnične datoteke:

Mauro Ferretti
Tetra Pak Packaging Solutions S.p.A.
Via Delfini 1
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Modena 01/08/2011

Giovan Battista Bisogni
Director, SCO - Capital Equipment - Carton Value & Distribution Equipment

Slovenščina/Slovenian
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Identification

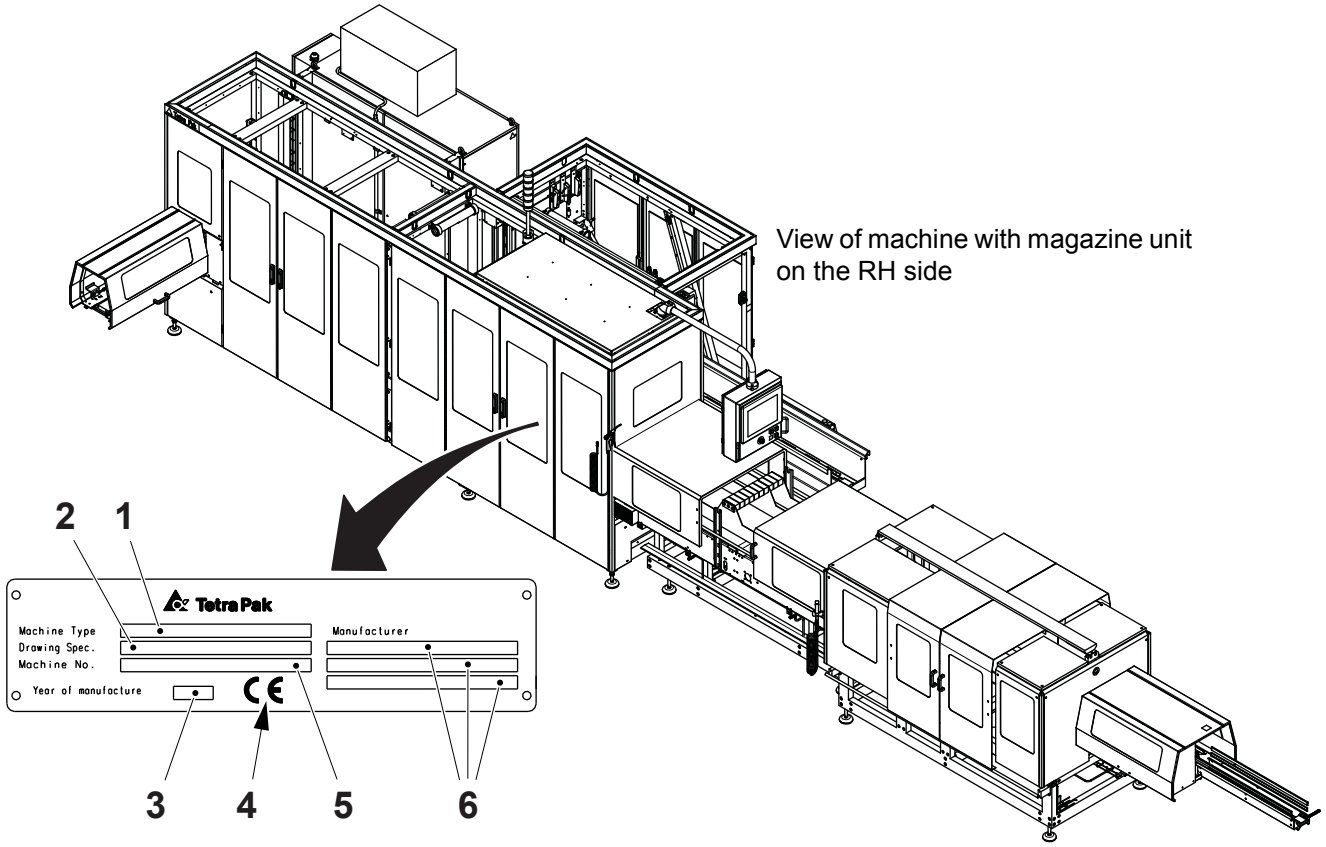
CE Classification

This equipment complies with the basic health and safety regulations of the European Economic Area (EEA).

Machine Plate

The illustration below shows an example of the machine plate and its location on the equipment. The machine plate carries data needed when contacting Tetra Pak concerning this specific equipment.

Make sure that the equipment data in the front pages of this manual corresponds to the machine plate data and the machine specification.



View of machine with magazine unit on the RH side

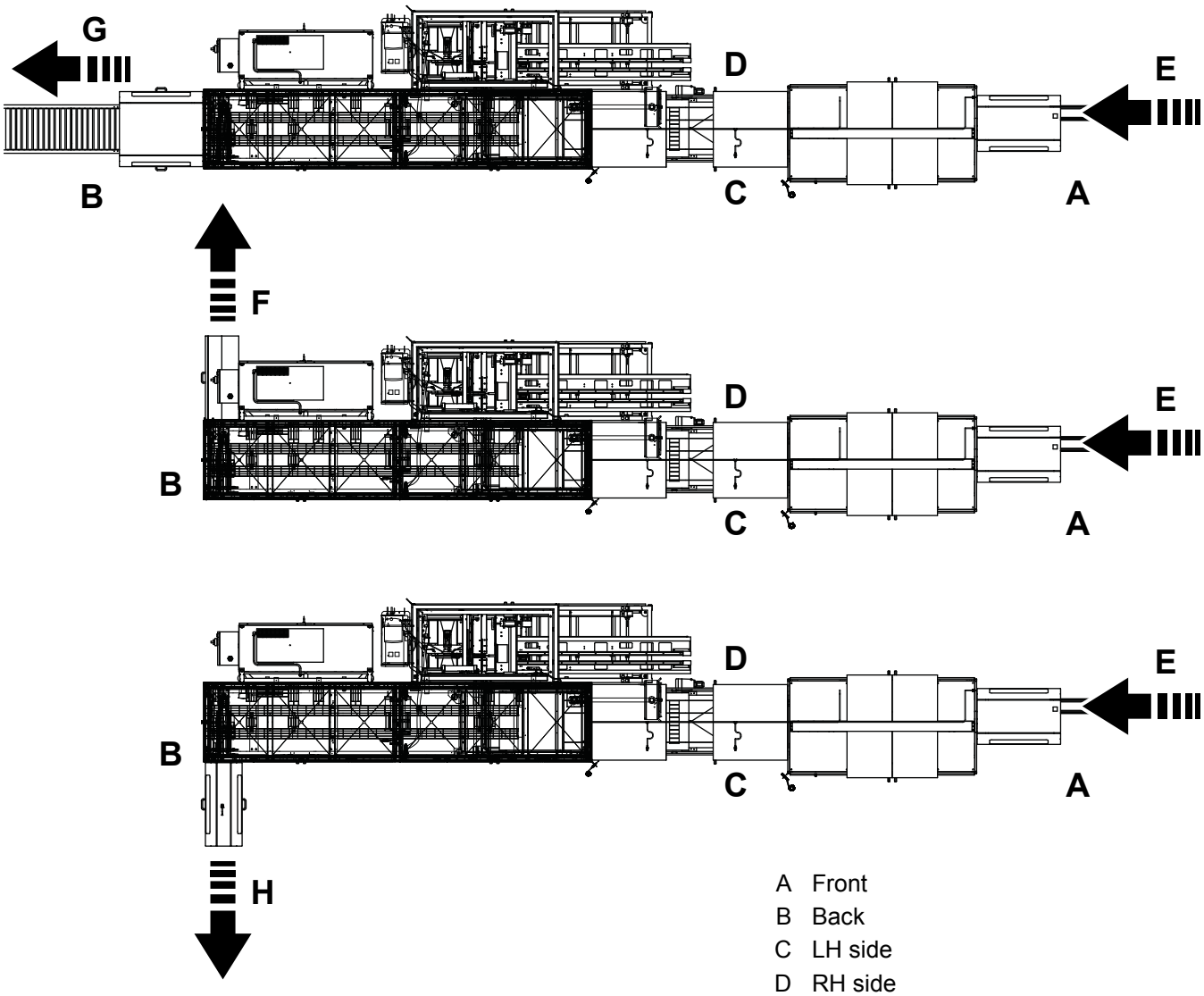
1 Machine type
2 Drawing specifications
3 Year of manufacture
4 CE mark
5 Machine serial number
6 Manufacturer (name and address)

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Orientation

The illustration below shows the orientation of the equipment. This orientation information will be used throughout this manual. The arrows indicate the flow of material.

Orientation for Machines with Magazine Unit on the RH side



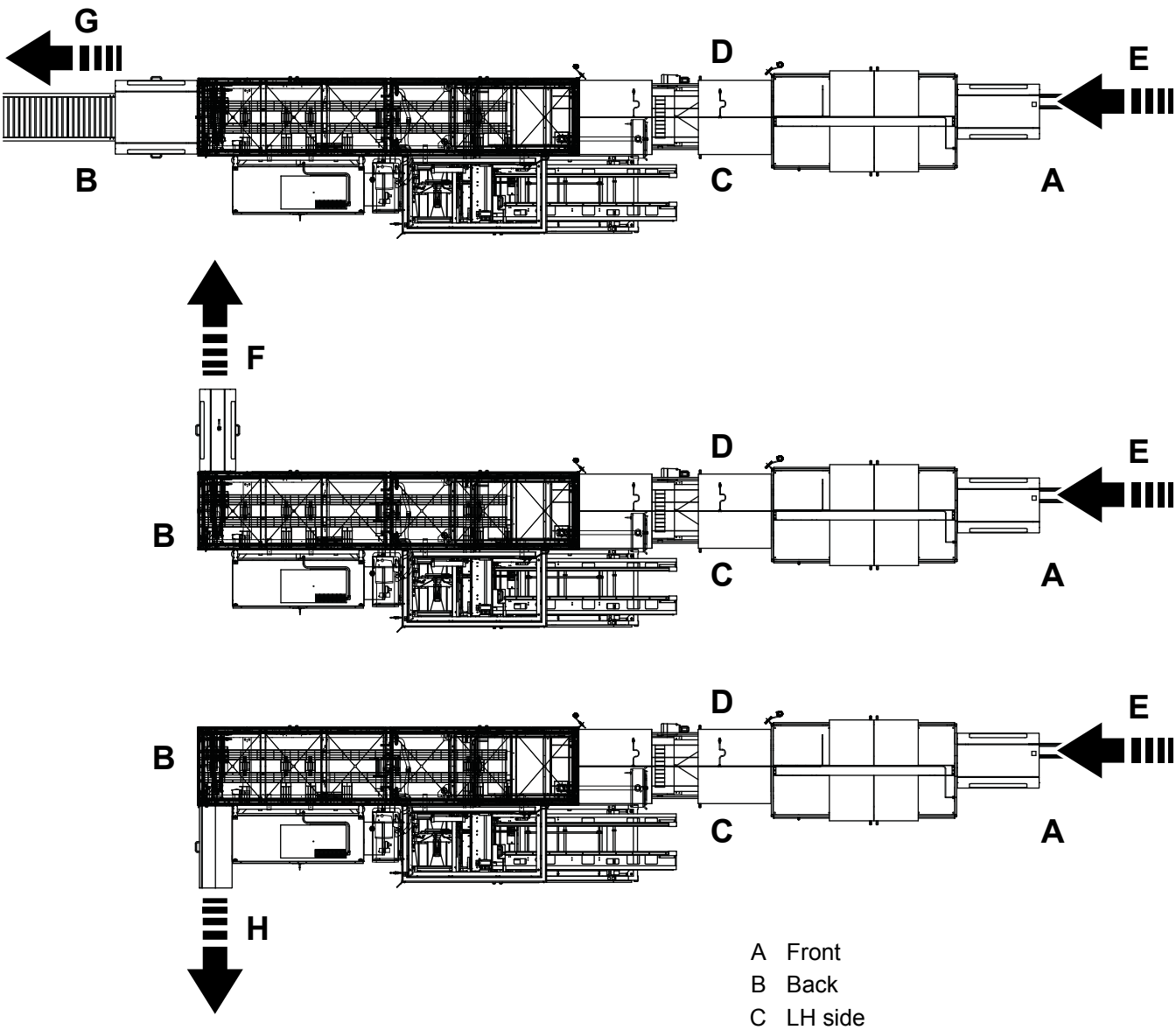
A Front
B Back
C LH side
D RH side
E Infeed
F Outfeed - RH side
G Outfeed - Straight
H Outfeed - LH side

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(Cont'd)

(Cont'd)

Orientation for Machines with Magazine Unit on the LH side



A Front
B Back
C LH side
D RH side
E Infeed
F Outfeed - RH side
G Outfeed - Straight
H Outfeed - LH side

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Hygiene

- Never clean the floors or the machine in the filling room (area) when the machine is in production.
- Compressed air used for cleaning purposes is to be used only for cleaning filters and should only be used outside of the filling room (area) or in the final folder compartment of the filling machine.
- Disinfect your hands before touching anything that may come into contact with the product. Use code H disinfectant. See the Technical Data chapter of the Maintenance Manual.
- Keep your hands and gloves clean.
- Always wear some type of hair protection (cap or hairnet) and clean clothes (preferably white).
- Do not wear a watch, ring, necklace, earrings, or any other exposed jewellery.

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ii Safety Precautions

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Description

Safety Precaution Instructions

WARNING

Read and understand this manual before using the machine.
Failure to follow safety precautions and instructions can result in death or serious injury.

Definition of Lockout Procedure

A lockout procedure is a procedure to put each necessary energy isolating device in its safe position to prevent the energisation of the equipment, such as when a maintenance procedure should be carried out.

A lockout is the use of a device, for example, a padlock, to make sure that an energy isolating device cannot be operated.

An energy isolating device is a mechanical device that physically prevents transmission or release of energy, such as a power supply disconnector.

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Safety Messages Description . . . . . ii - 5

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Instructed Person. . . . . ii - 6

Safety Signs . . . . . ii - 7

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Locations of Safety Signs, WA (OE). . . . . ii - 11

Protective Devices. . . . . ii - 12

Emergency Stop. . . . . ii - 12

Emergency Stop Buttons . . . . . ii - 13

Safeguards . . . . . ii - 14

Warning Lamp . . . . . ii - 18

Audible Alarm. . . . . ii - 18

Safe Manual Handling . . . . . ii - 19

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Noise . . . . . ii - 20

Entanglement . . . . . ii - 20

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Water Supply . . . . . ii - 28

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Safety Messages Description

A safety message is always accompanied by a safety alert symbol and a signal word.

The safety alert symbol is used to alert about potential personal injury hazards. To avoid hazards, obey all safety messages that follow this symbol.

The following safety alert symbols and signal words are used in this manual to inform the user of hazards.

DANGER	Danger indicates an imminently hazardous situation which, if not avoided, **will** result in **death or serious injury**.
WARNING	Warning indicates a potentially hazardous situation which, if not avoided, **could** result in **death or serious injury**.
CAUTION	Caution indicates a potentially hazardous situation which, if not avoided, **may** result in **minor or moderate injury.** It may also be used to alert against unsafe practices.
CAUTION	Caution without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, **may** result in **property damage**.

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Personnel Requirements

Note! Personnel includes all persons working on or near this equipment.

Only skilled or instructed persons are allowed to work with this equipment.

Skilled Person

A skilled person must have relevant education and experience to enable him or her to identify hazards, analyse risks, and avoid hazards which electricity, machinery, chemicals, other energies, and supply systems on this equipment can create.

Skilled persons must meet local regulations, such as certifications and qualifications for working with these energies and systems.

Instructed Person

An instructed person must be adequately advised or supervised by a skilled person. The skilled person enables the instructed person to identify hazards, analyse risks, and avoid hazards which electricity, machinery, chemicals, other energies, and supply systems on this equipment can create.

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Safety Signs

WARNING

Damaged or missing safety signs.
Safety signs are used to indicate safety hazards.
If the signs are missing or damaged, they can not fulfil this function. Replace all missing or damaged safety signs immediately.

Safety signs are attached to the equipment. The table below lists all the signs that are used, and illustrations show their locations on the equipment. Each position number refers to two standards of a safety sign in the table, but only one is used on the equipment.

- Make sure that each safety sign is legible and in its correct position after installation and maintenance.
- Replace all missing or damaged safety signs immediately.

Pos.	ISO standard	ANSI standard
1		
	Hazardous voltage. Will shock, burn, or cause death. Follow lockout procedure before maintenance.	
2		
	Hazardous voltage. Can shock, burn, or cause death. Read Maintenance Manual (MM) before using this socket outlet.	
3		
	Risk of equipment damage. Do not let water into this area.	

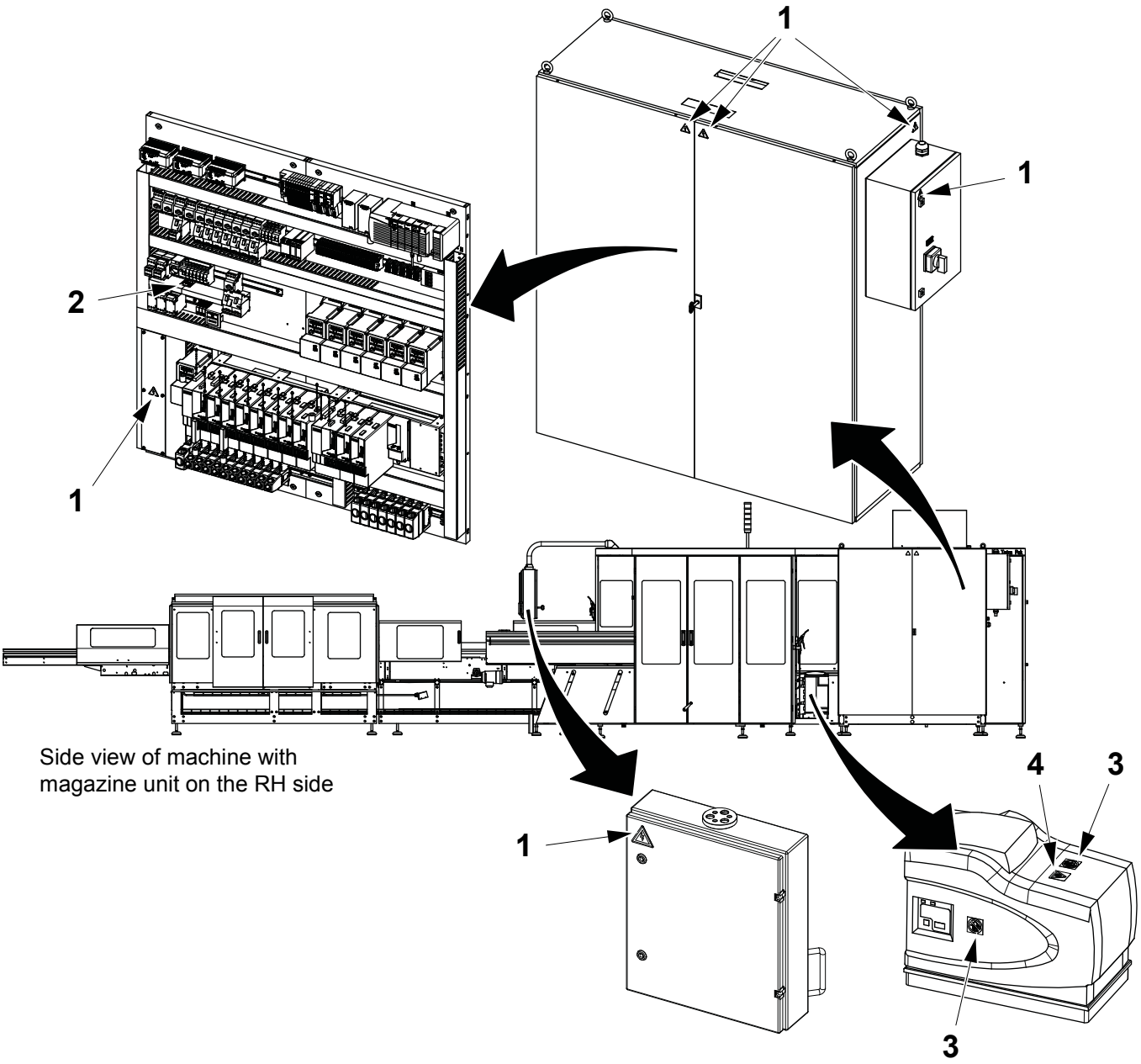
TechPub_2614345_0108 - sp03_3056457_01.fm

Pos.	ISO standard	ANSI standard
4	 **Burn hazard.** Trapped heat energy. Do not touch.	
5	 **Hot surface.** Do not touch. Follow lockout procedure before maintenance.	
6	 **Do not reach in.** Moving parts may cause injury Follow instructions for safe work practice.	

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Locations of Safety Signs

The illustration shows where the safety signs are located. The position numbers refer to the table in the Safety Signs section.



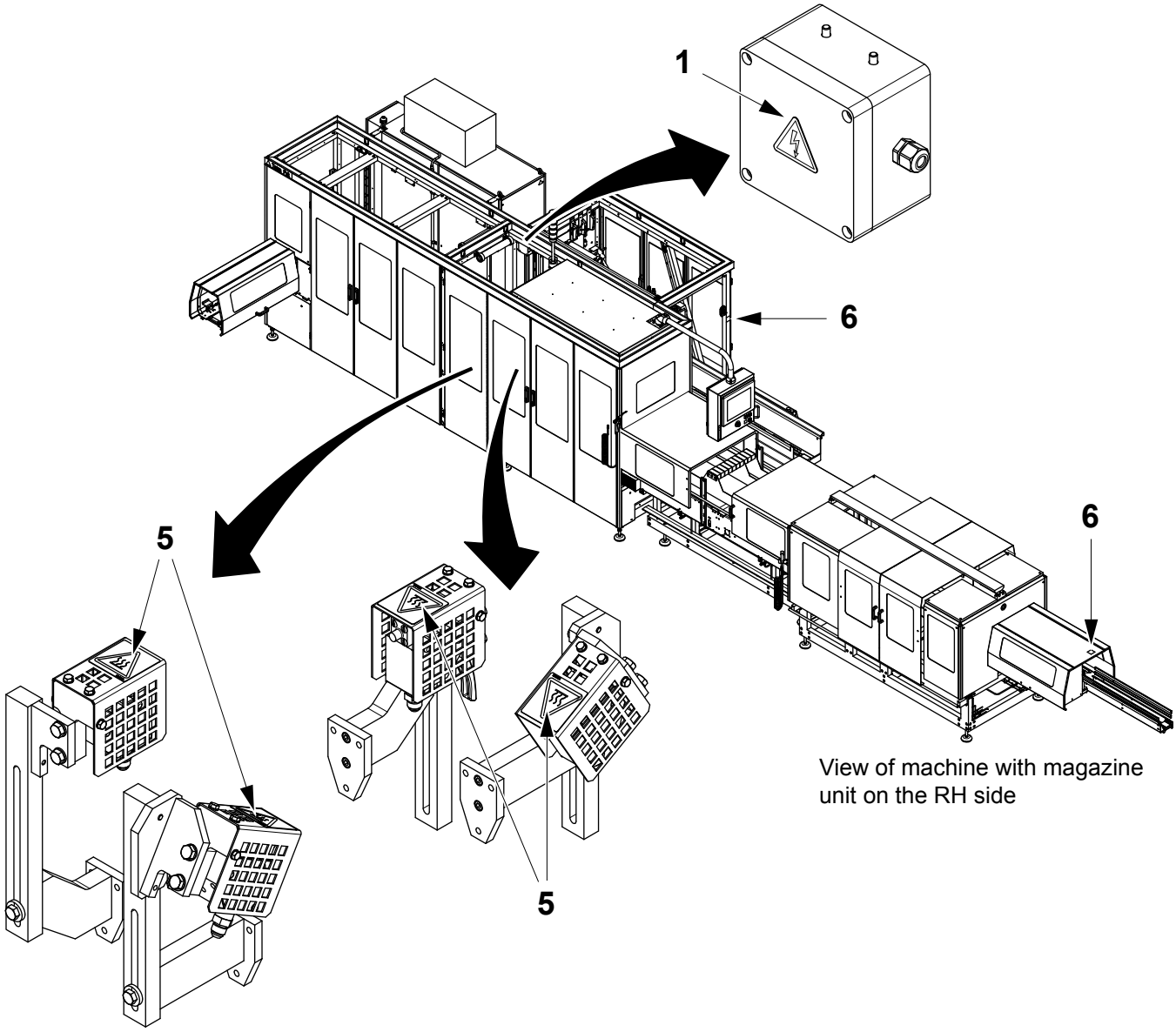
Side view of machine with magazine unit on the RH side

(Cont'd)

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(Cont'd)

The illustration shows where the safety signs are located. The position numbers refer to the table in the Safety Signs section.

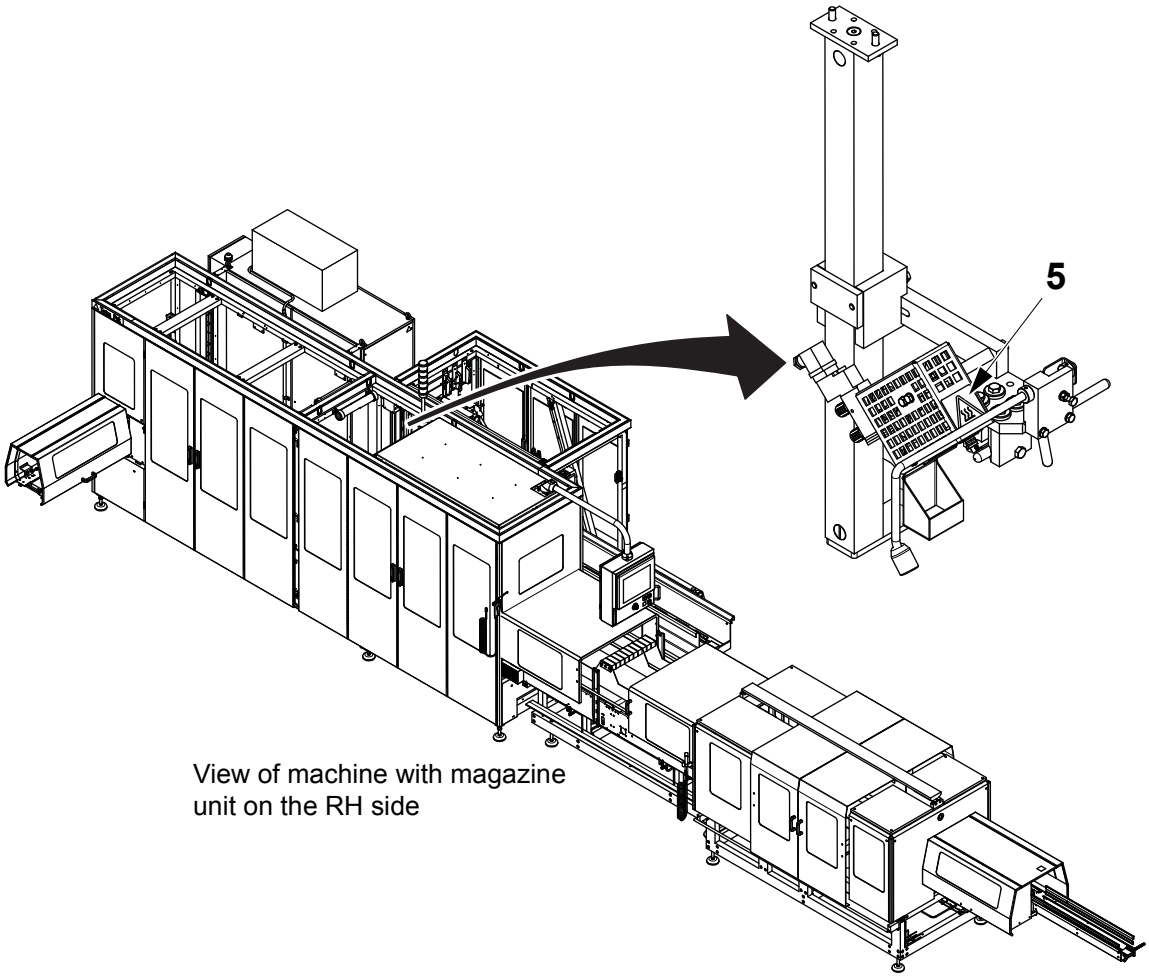


View of machine with magazine unit on the RH side

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Locations of Safety Signs, WA (OE)

The illustration shows where the safety signs are located. The position numbers refer to the table in the Safety Signs section.



View of machine with magazine unit on the RH side

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Protective Devices

There are different kinds of protective device designed to ensure safe use of the equipment. See the sections below.

WARNING

Hazardous zones.

Hazardous zones are safeguarded and provided with protective devices. Do not inch or run this equipment if any protective device is inoperative.

Change inoperative components of the safety system immediately.

For the locations of safeguards and/or other protective devices not mentioned in this section, see the Maintenance Manual.

DANGER

Hazardous voltage.

Will shock, burn, or cause death.

Hazardous voltage remains ON after activating an EMERGENCY STOP.

Emergency Stop

Emergency stop devices are used to stop this equipment immediately in an hazardous situation. Learn the positions of all emergency stop devices and how to use them.

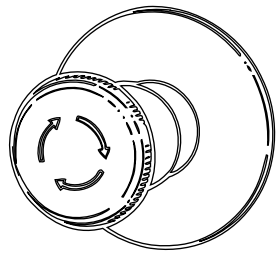
Instructions for a normal production stop are included in the Stop chapter of the Operation Manual.

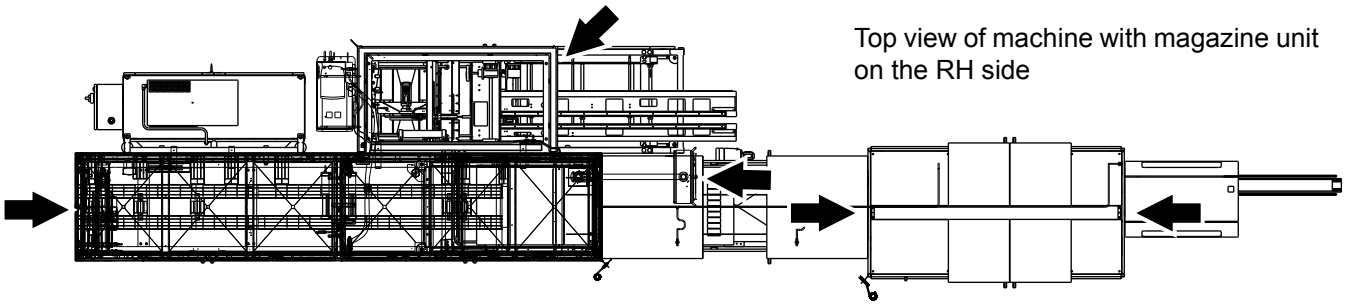
TechPub_2614345_0108 - sp03_3056457_01.fm

Emergency Stop Buttons

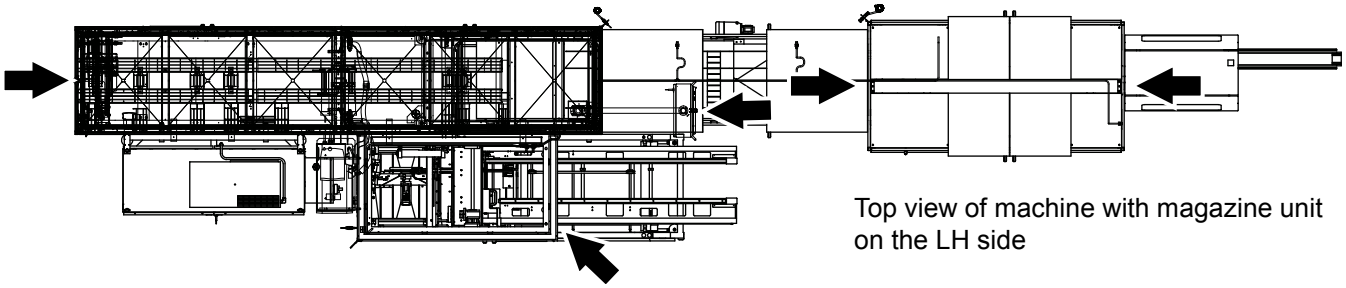
Push one of the EMERGENCY STOP buttons to stop this equipment immediately.

The location of each EMERGENCY STOP button is shown by an arrow.





Top view of machine with magazine unit on the RH side



Top view of machine with magazine unit on the LH side

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Safeguards

WARNING
Moving machinery.
Never defeat or bypass the interlocking devices.

Movable guards, for example, doors and covers leading to hazardous zones, are fitted with interlocking devices where required. These devices are usually electric safety switches that are parts of the safety system and must never be defeated, bypassed, or otherwise made inoperative.

CAUTION
Corners and edges.
Close the doors, guards, or parts of the equipment unless they must be open during work.

CAUTION
Burn hazard.
Parts of the equipment protected by guards may be hot after operation. Allow components to cool down or use personal protective equipment.

After installation and maintenance, and before this equipment is inched or run, check that all safeguards are in place and that they operate correctly.

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Machines with Straight Outfeed Conveyor

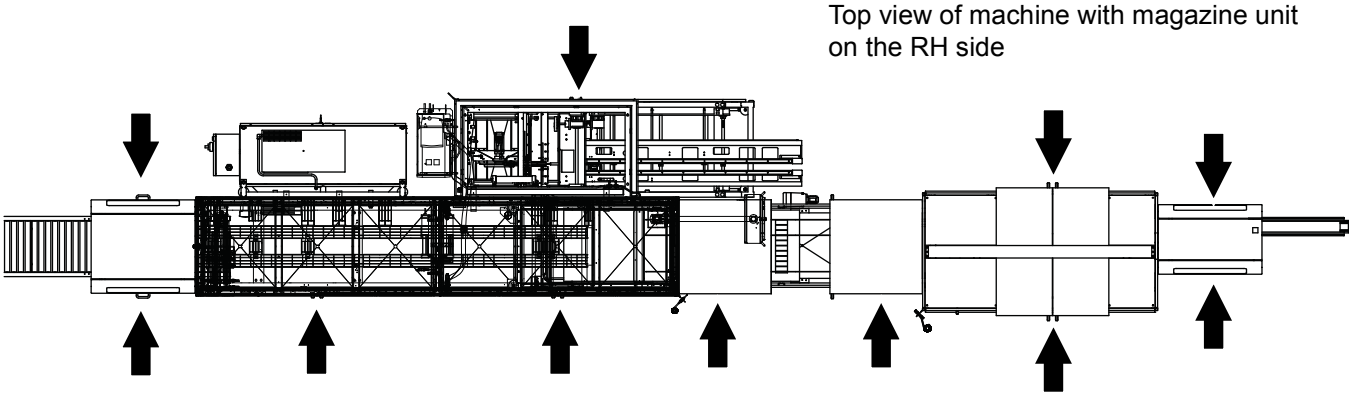
CAUTION

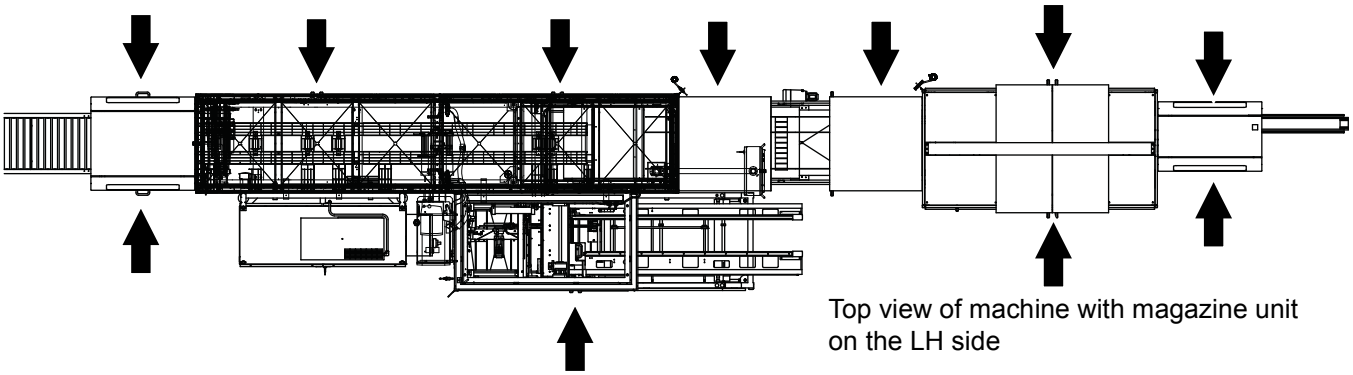
Equipment damage.

The equipment can be damaged if it is not stopped in the correct way. Never stop this equipment by opening a movable guard, for example, a door or cover, equipped with an interlocking device.

The location of each interlocking guard is shown by an arrow.

Top view of machine with magazine unit on the RH side





Top view of machine with magazine unit on the LH side

(Cont'd)

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(Cont'd)

Machines with Outfeed Conveyor and Magazine Unit on the Same Side

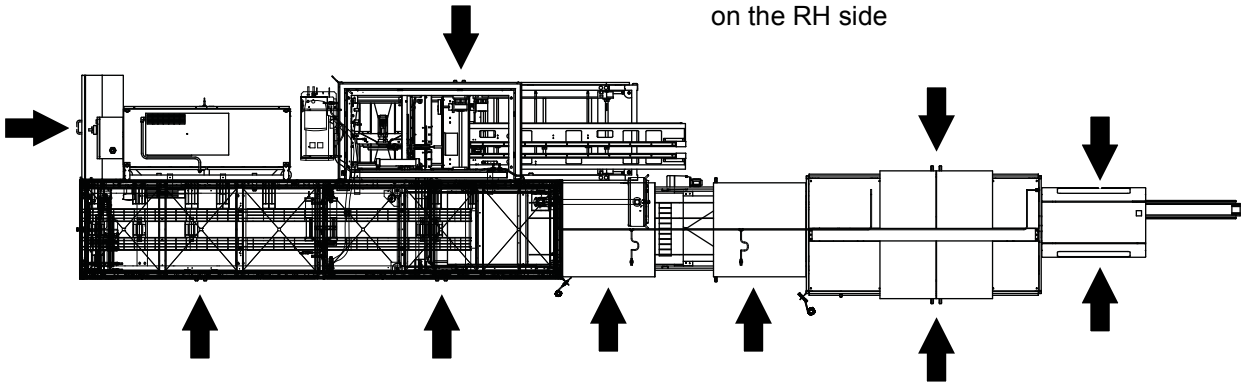
CAUTION

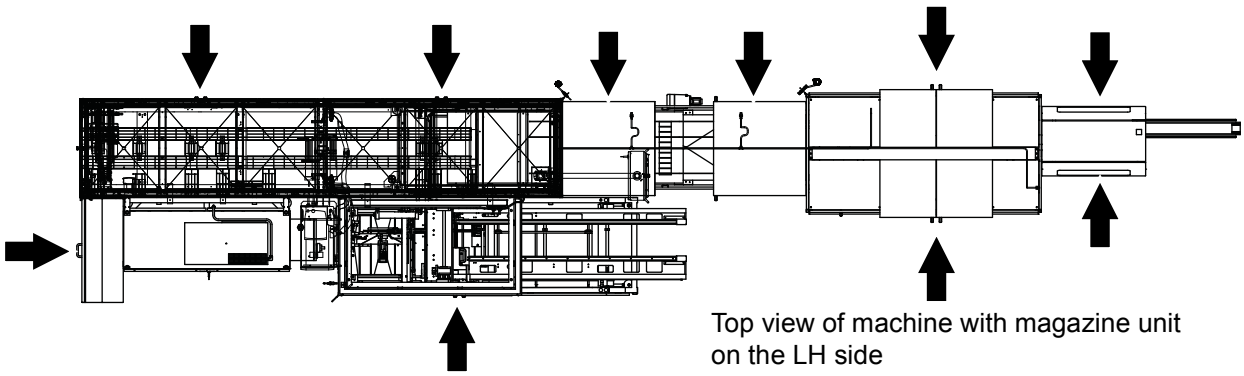
Equipment damage.

The equipment can be damaged if it is not stopped in the correct way. Never stop this equipment by opening a movable guard, for example, a door or cover, equipped with an interlocking device.

The location of each interlocking guard is shown by an arrow.

Top view of machine with magazine unit on the RH side





Top view of machine with magazine unit on the LH side

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(Cont'd)

(Cont'd)

Machines with Outfeed Conveyor and Magazine Unit on Opposite Sides

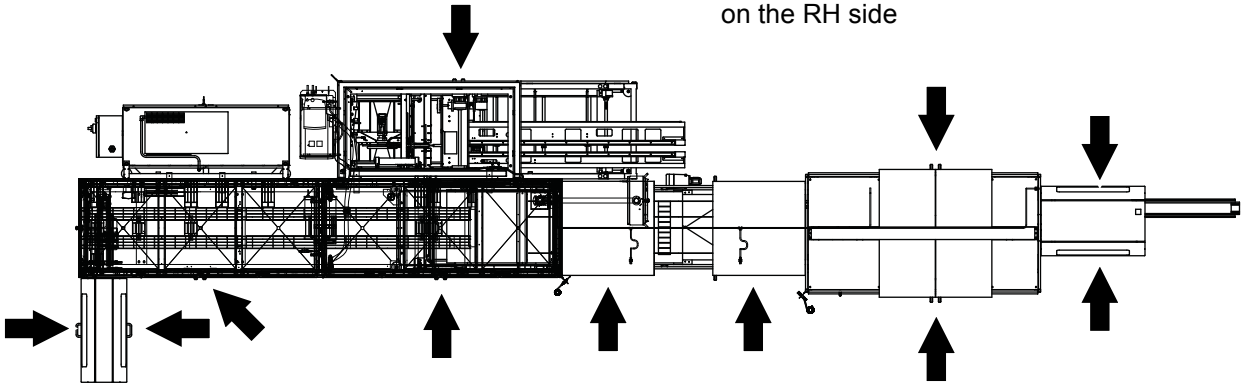
CAUTION

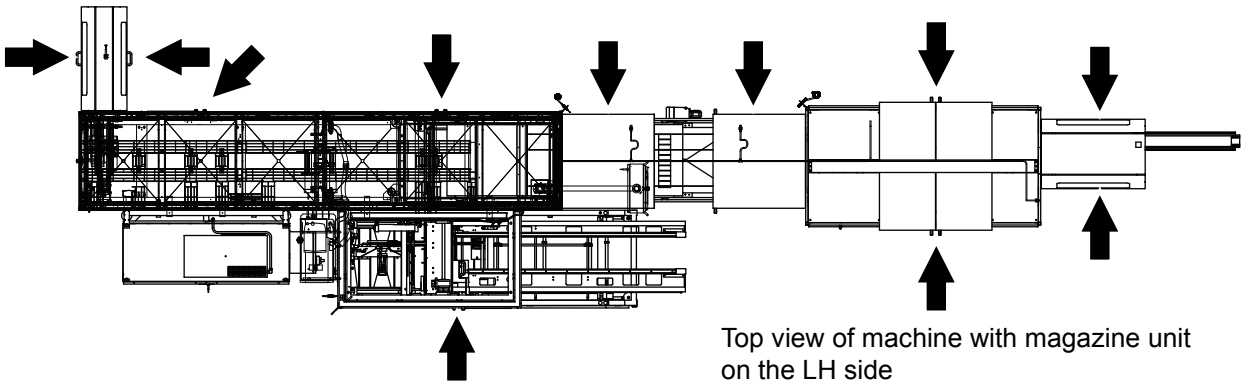
Equipment damage.

The equipment can be damaged if it is not stopped in the correct way. Never stop this equipment by opening a movable guard, for example, a door or cover, equipped with an interlocking device.

The location of each interlocking guard is shown by an arrow.

Top view of machine with magazine unit on the RH side





Top view of machine with magazine unit on the LH side

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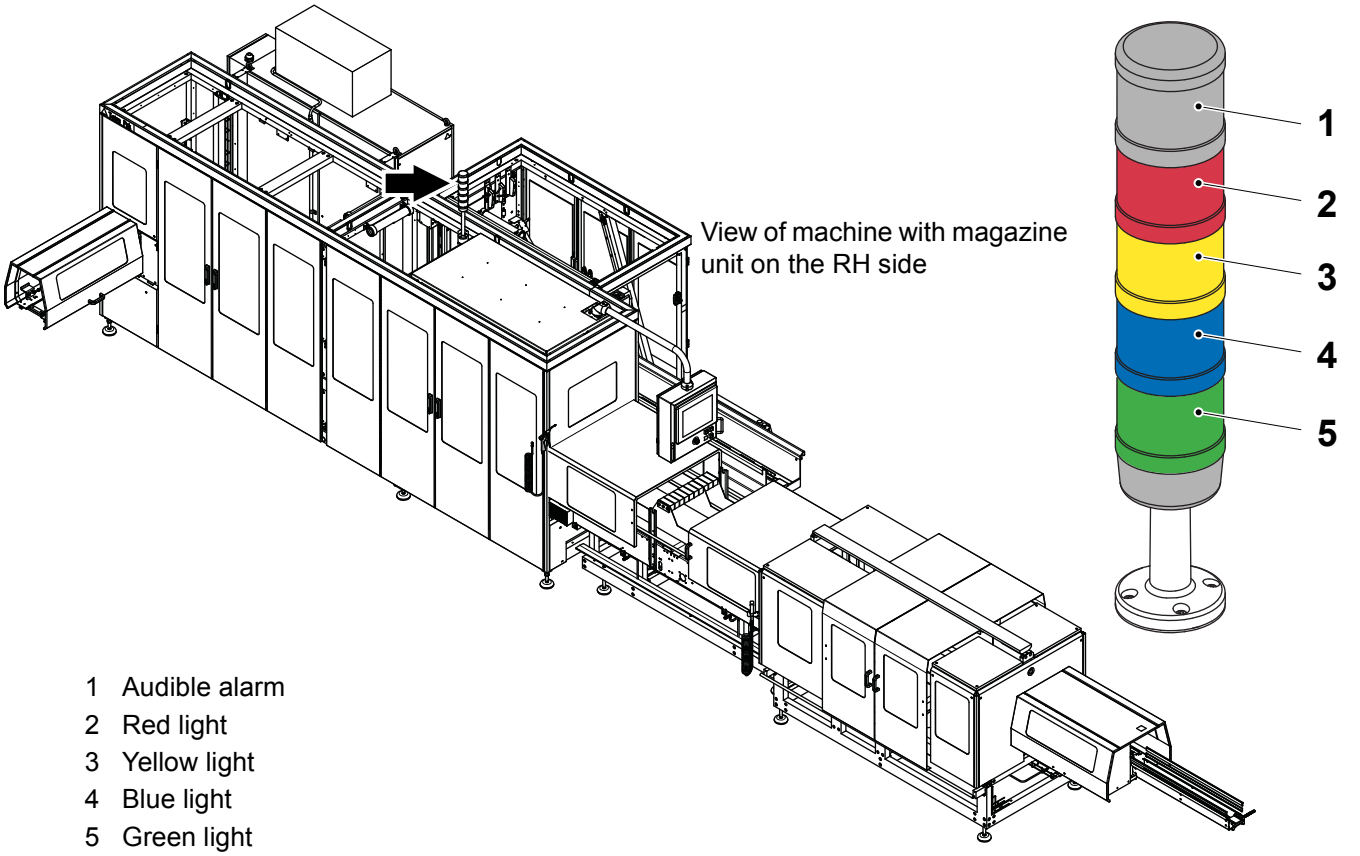
Warning Lamp

A warning lamp is a column of warning lights:

- A red light (2) indicates a hazardous condition. This is a situation that requires immediate action.
- A yellow light (3) indicates an abnormal or impending critical condition. This is a condition calling for action by the operator.
- A blue light (4) indicates that operator action is required.
- A green light (5) indicates a normal condition.

Audible Alarm

The audible alarm (1) produces a warning signal every time this equipment is about to start. The warning signal sounds for approximately three seconds prior to starting to alert personnel.



1 Audible alarm
2 Red light
3 Yellow light
4 Blue light
5 Green light

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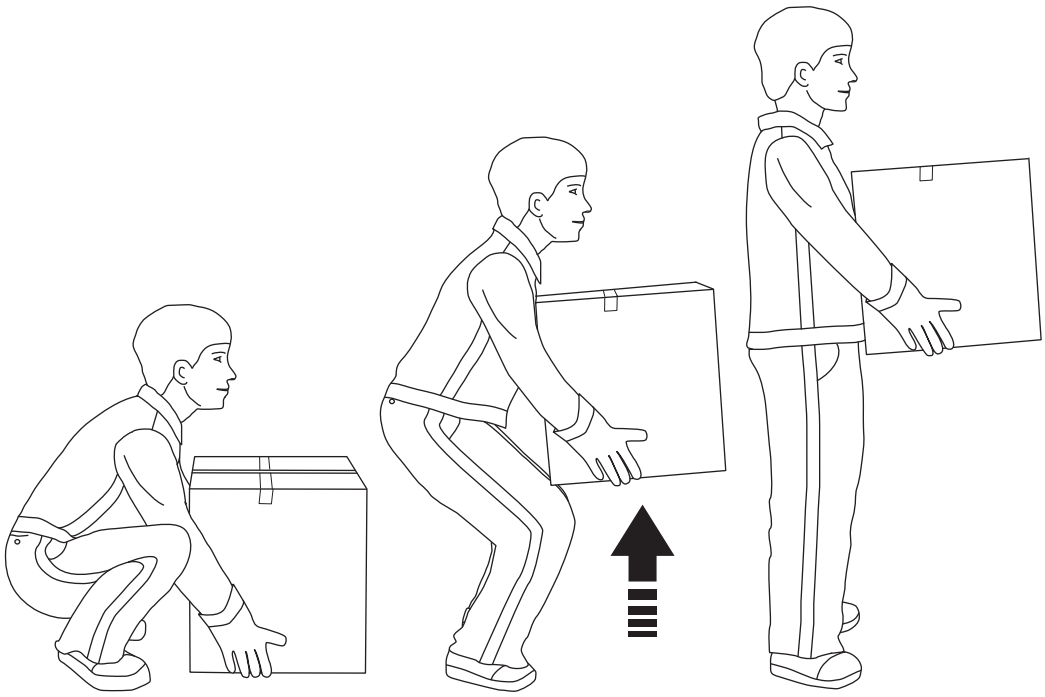
Safe Manual Handling

Use mechanical lifting aids whenever possible. If mechanical lifting aids are not available, do not attempt to lift loads over 23 kg without the assistance of a colleague. Avoid lifting below knee height and above shoulder height. If it is necessary to lift from the floor, follow the instructions below to reduce the risk of back and disc injuries.

- Use safety shoes and be sure that the surface of the floor is not slippery.
- Get close to the load.
- Take a wide stance and find the best positions for your feet.
- Bend your hips and knees, and use your leg muscles.
- Keep the load close to your body.
- Do not twist your body while moving the load.
- Take small steps when turning.

In order to reduce the risk of injury to discs and back muscles, be careful to not bend or twist your back when lifting. Keep the load close to your body to reduce the strain on your back.

To reduce the ergonomic risks to each individual operator, job rotation is recommended, so that recovery and variety are provided.



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Personal Protection

This section applies to all personnel at all times when this equipment is in operation. For special personal protective equipment required when handling hazardous substances, see the Hazardous Substances section.

Noise

CAUTION

Hazardous noise.

May cause impaired hearing.

Hearing protection is recommended whenever this equipment is in operation.

Entanglement

WARNING

Risk of entanglement.

Do not wear jewellery or loose clothing when working on or near this equipment. Restrain long hair with, for example, clips or rubber bands.

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Hazardous Substances

WARNING

Contact with chemicals can cause death, serious injury, or illness.
Always read and follow the instructions in the safety data sheet supplied by the manufacturer or local supplier, when handling chemicals.

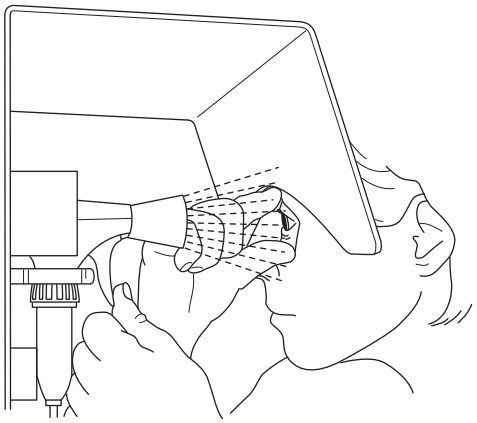
Make sure that

- the safety data sheet is available
- the showers work
- an eyewash device, movable or wall-mounted, is available and operational
- additional washing facilities are nearby.

Note! Learn the locations of all washing facilities in order to act immediately in case of an accident.







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Disposal of Chemical Substances

Always read and follow the disposal instructions in the safety data sheet supplied by the manufacturer or local supplier.

It is strongly recommended that used chemical containers are

- disposed of according to the instructions immediately after use
- not used as disposal containers for other chemicals in order to avoid uncontrolled chemical reactions within the container.

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Supply Systems

Power Supply

DANGER

Hazardous voltage and moving machinery.
The power supply disconnector must be turned off and secured with a lock before any maintenance.

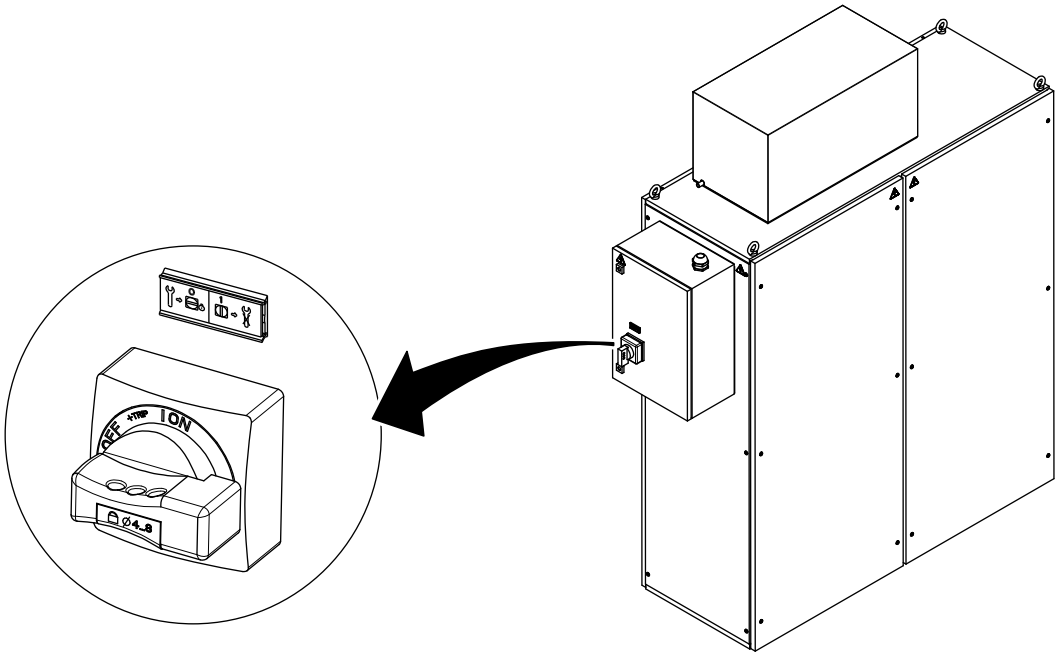
Note! The key to the lock must be removed by the technician and retained in his/her possession until all work is completed.

DANGER

Hazardous voltage can be present with the power supply switched off.
Circuits identified by orange-coloured conductors are not disconnected by the main power supply disconnector. The location of the power supply disconnector of these circuits is described in the Maintenance Manual procedures that include work on these types of circuit.

Certain maintenance procedures may require power supply systems to be on. These exceptions are clearly stated in the Maintenance Manual.

The illustrations show the power supply disconnector and its location.



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Residual Voltage

DANGER

Hazardous voltage.
Will shock, burn, or cause death.
After the power supply disconnector is turned off, residual voltage remains in the capacitor circuits.
Wait five minutes before opening the enclosure containing these circuits.
Ensure that no residual voltage remains on the capacitors before touching them.

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Electrical Cabinet

DANGER

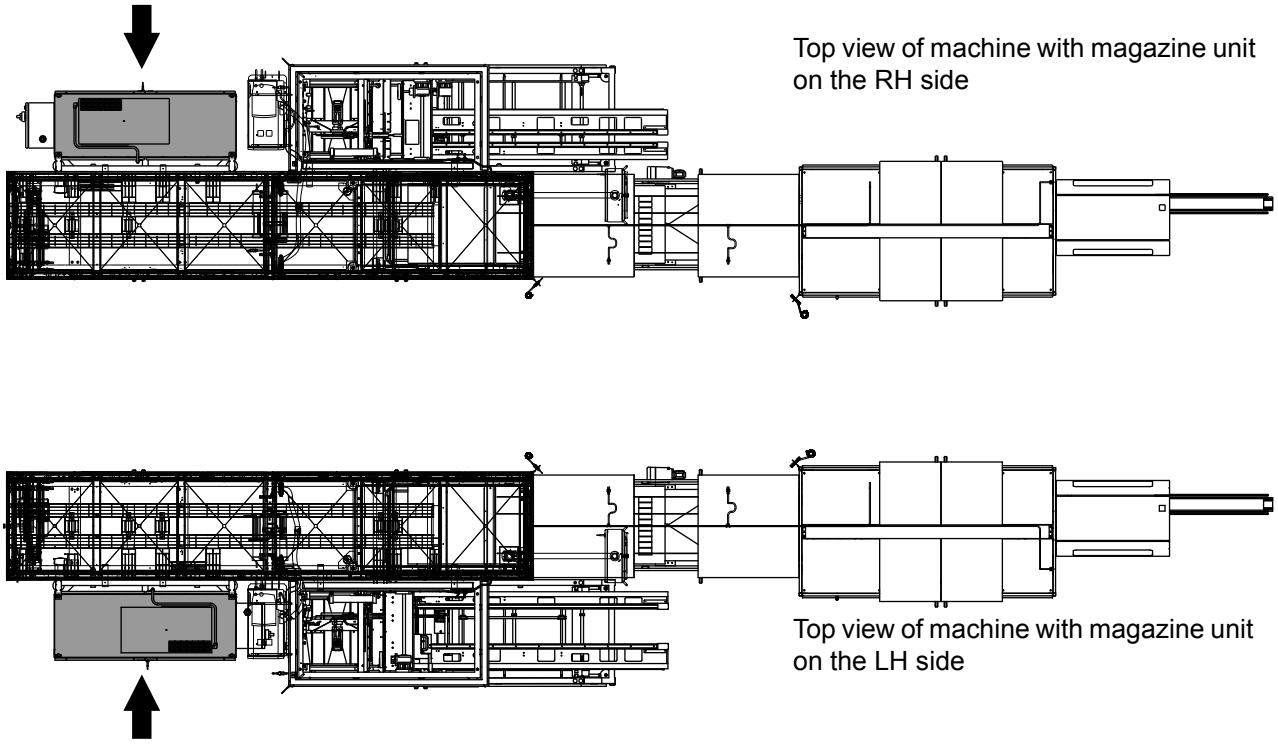
Hazardous voltage.
Will shock, burn, or cause death.
Parts behind doors to electrical enclosures may be live. The power supply disconnector must be turned off and secured with a lock before performing maintenance inside the electrical cabinet.

Note! The key to the lock must be removed by the technician and retained in his/her possession until all work is completed.

The use of a key or a tool is necessary to access to the electrical cabinet.

Make sure that the electrical cabinet doors are closed after working inside the electrical cabinet. Doors with lock must be locked.

The location of the electrical cabinet is shown by an arrow.



Top view of machine with magazine unit on the RH side

Top view of machine with magazine unit on the LH side

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Socket Outlet

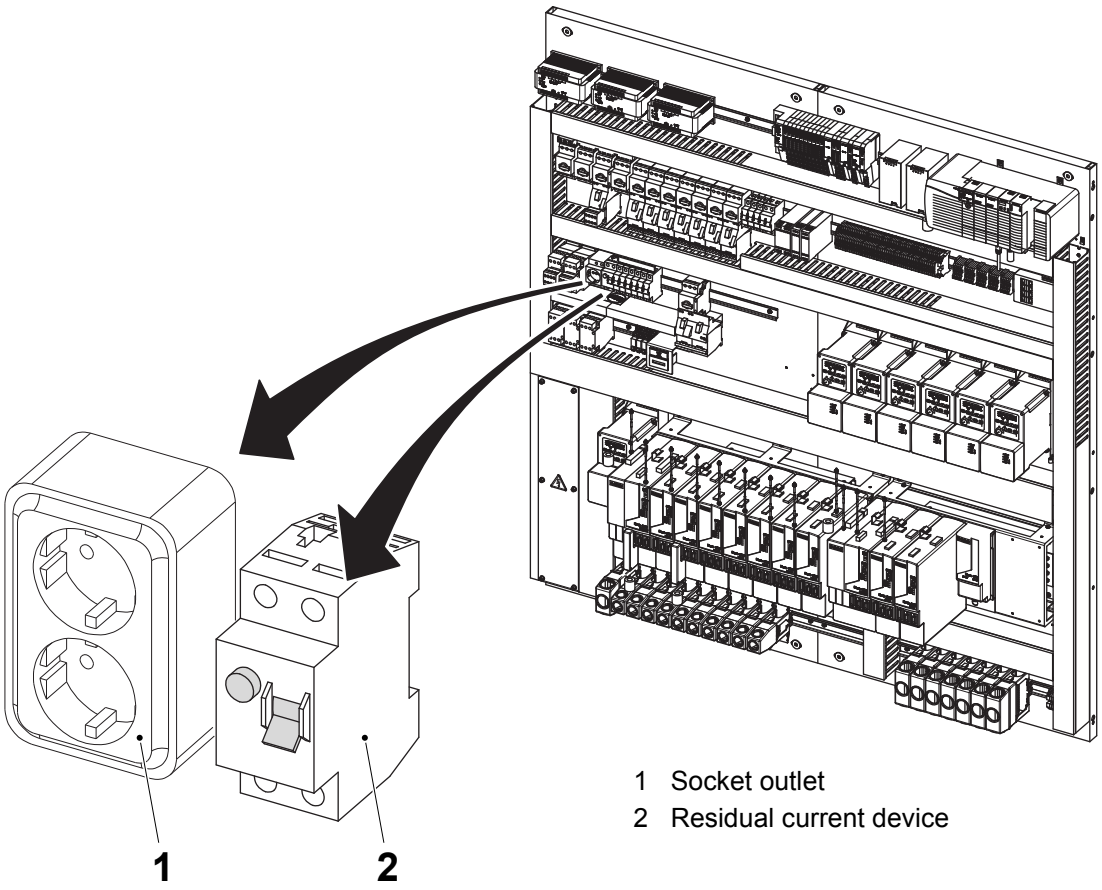
WARNING

Hazardous voltage.

Can shock, burn, or cause death. Read the Maintenance Manual before using this socket outlet.

The socket outlet (1) is connected to a residual current device (2) to protect users against electrical shock if there is an earth fault in the connected equipment. The residual current device must be tested each time before the socket outlet is being used. See the MM for test procedure.

The illustrations show the socket outlet (1), the residual current device (2) and their locations.



1 Socket outlet
2 Residual current device

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Air Supply

WARNING

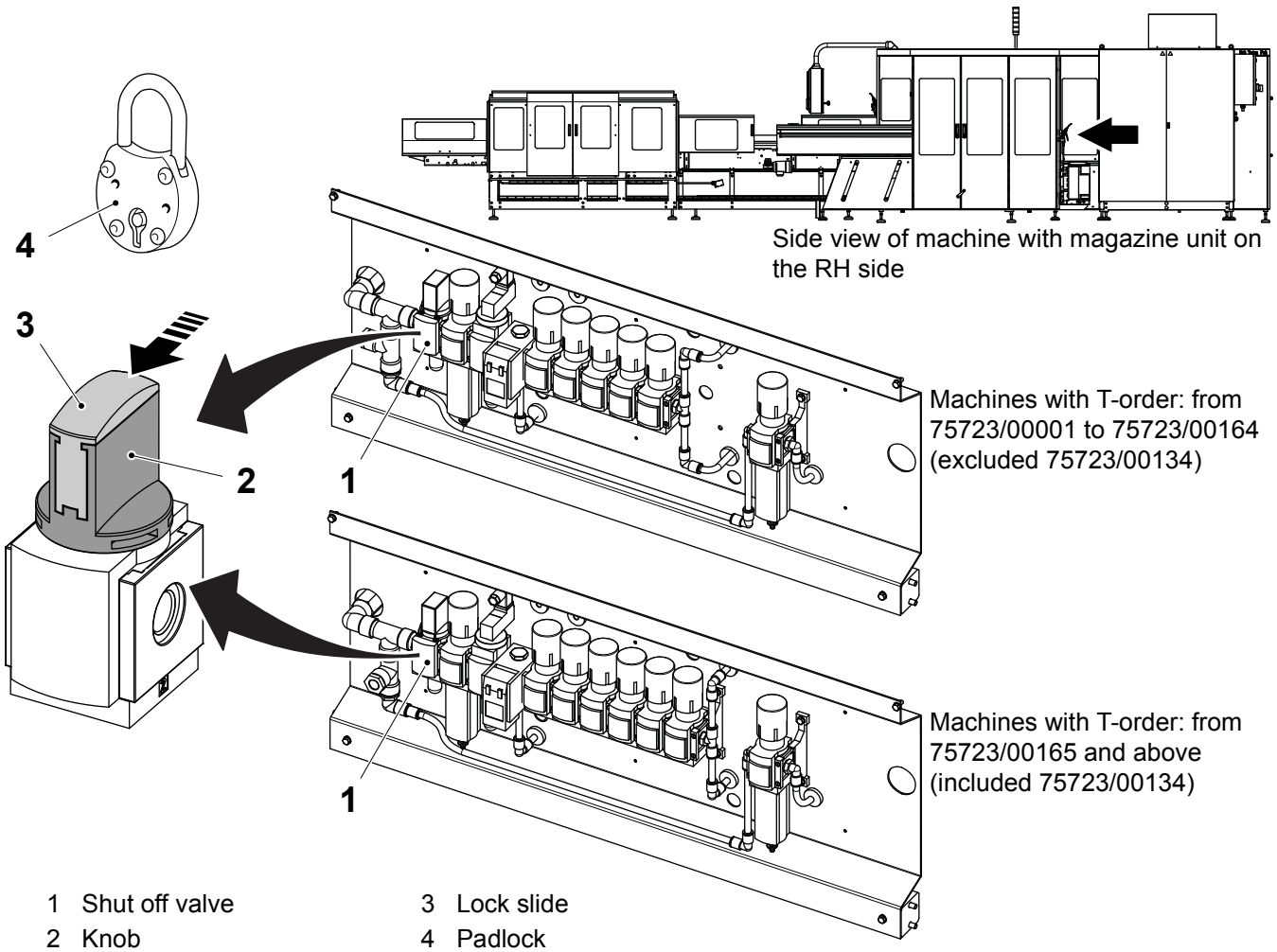
Compressed air and moving machinery.
Close the main air valve and lock it, and safely release compressed air from the air system before any maintenance.

Note! The key to the lock must be removed by the technician and retained in his/her possession until all work is completed.

Certain maintenance procedures may require air supply systems to be on. These exceptions are clearly stated in the Maintenance Manual.

The illustrations show the shut off valve (1) and its location.

Turn the knob (2) to the position showed in the illustration. Move the lock slide (3) forward and install the padlock (4).



1 Shut off valve
2 Knob
3 Lock slide
4 Padlock

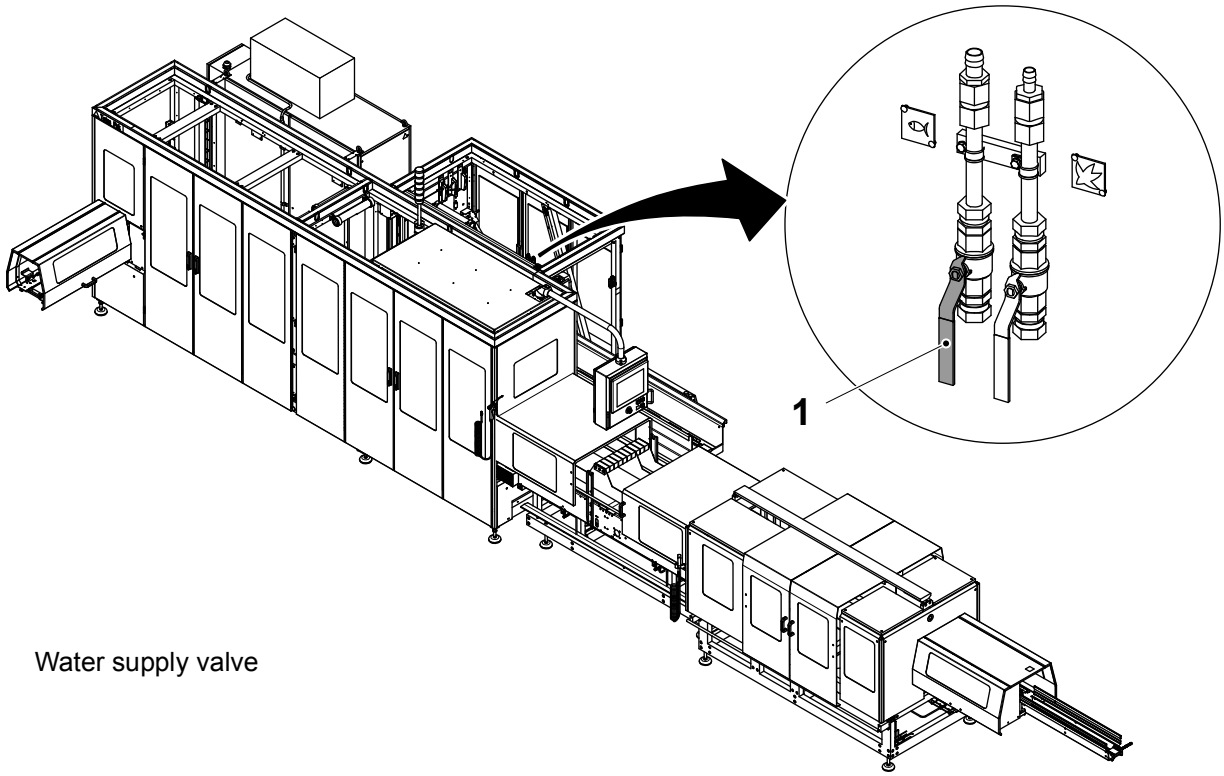
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Water Supply

CAUTION
Water under pressure.
Close the water supply valves before any maintenance.

Certain maintenance procedures may require water supply systems to be on. These exceptions are clearly stated in the Maintenance Manual.

The illustrations show the water supply valve (1) and its location.



1 Water supply valve

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Hotmelt Equipment

General

DANGER

Risk of electrical shock.
The voltage is 400V inside the hotmelt unit. Risk of immediate danger to life through electrical shock.

WARNING

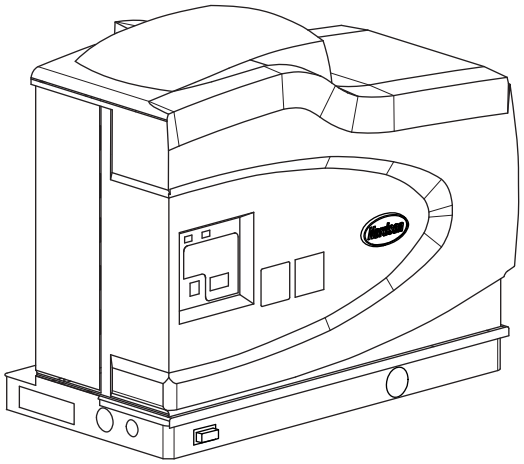
Risk of personal injury.
All service work on the hotmelt unit must be carried out by authorised personnel.

Always wear safety glasses, protective gloves, and other protective clothing to avoid injuries caused by splashing hotmelt material.

Failure to relieve any remaining air or liquid (adhesive) pressure may cause serious injuries through burning when the hotmelt filter is detached or flushed.

Never remove any part or component until air and electrical supply to the machine have been disconnected and the pressure of the hotmelt in the system has been relieved.

Note! Always refer to the documentation provided from Nordson Corporation before doing any kind of work on the hotmelt equipment. The Hotmelt Material Applicator manual is included at delivery from Tetra Pak. The section Hotmelt equipment in this manual only deals with what is specific for this machine.



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Hotmelt Unit

DANGER

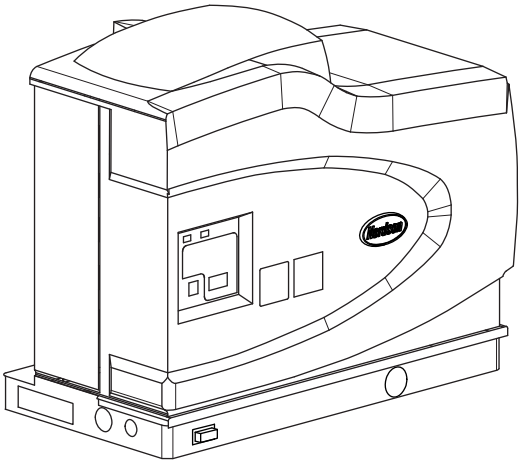
Risk of electrical shock.

Never flush water or any other liquid towards the hotmelt unit when cleaning the machine. Failure to observe will result in danger to your life.

WARNING

Risk of burns.

During heating and production the hotmelt gets hot. Beware of the entrapped heat inside the unit when service is performed!
During tank drainage never touch the drain shut!



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Hotmelt Guns

WARNING

Risk of electrical shock.

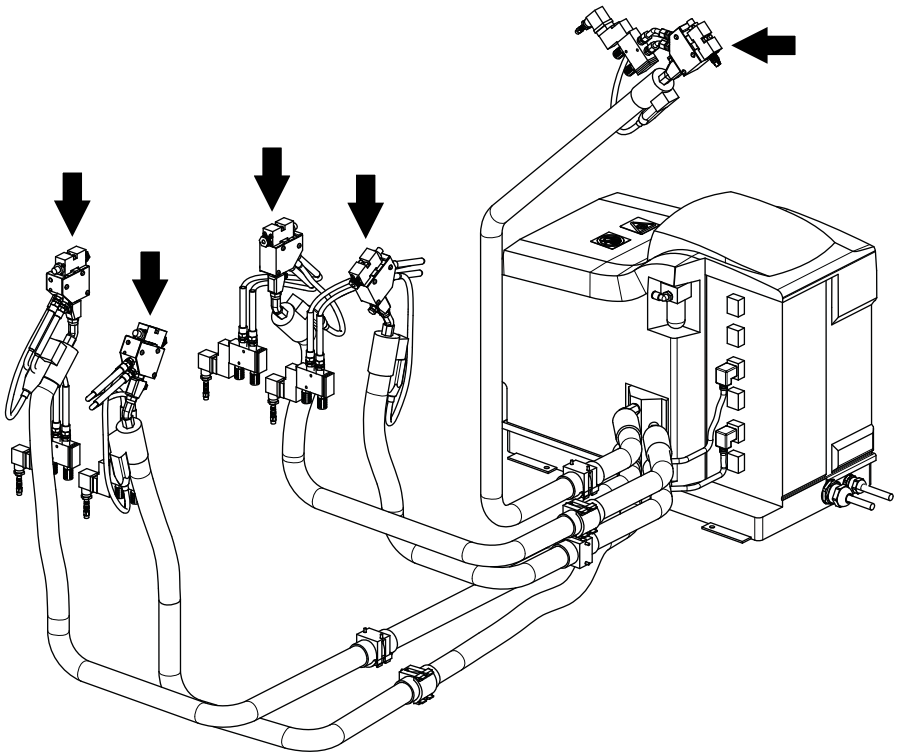
Never flush water or any other liquid towards the hotmelt guns when cleaning the machine. Failure to observe will result in danger to your life.

WARNING

Risk of burns.

During PREHEATING, the cover of the hotmelt guns become very hot and there is risk of severe burns.

Never touch the covers of the hotmelt applicators!



View of machine with WA Unit

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Equipment for Lifting and Moving Loads

WARNING

Risk of crushing injury.

Make sure that the capacity of the lifting equipment is adequate and that the equipment itself is in proper working order.

If lifting tackle must be joined to make up the necessary lengths, make sure that the joints are secure and have the same lifting capacity as the rest of the lifting tackle.

Always engage safety clips fitted to lifting hooks to prevent the lifting tackle from slipping off.

Use ropes or poles to steady and manoeuvre suspended loads. Do **not** use hands or feet.

Make sure that the route and destination are free from obstacles before moving a suspended load. It must always be possible to quickly and safely lower the load to the floor in an emergency.

When depositing loads, keep lifting tackle in place until the stability of the load has been substantiated.

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1 Technical Data and Drawings

Technical Data and Drawings - Description

This chapter includes essential reference data and drawings used prior to and during the equipment installation.

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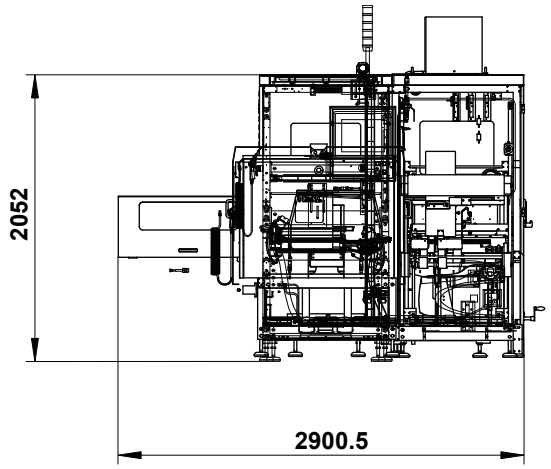
1.1 Installation Drawings

This section includes drawings showing:

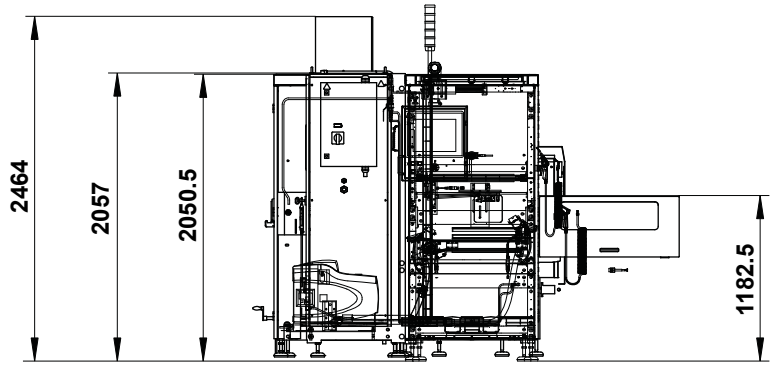
- overall dimensions
- connection and drain locations
- operators working area
- machine feet locations.

Note! Values are in millimetres unless otherwise stated. All dimensions must be respected.
All the following installation drawings show a machine with the Magazine Unit on the RH side: the installation drawings must be mirrored for a machine with the Magazine Unit on the LH, whilst the dimensions remain the same.
Discharge units are not included in the machine.

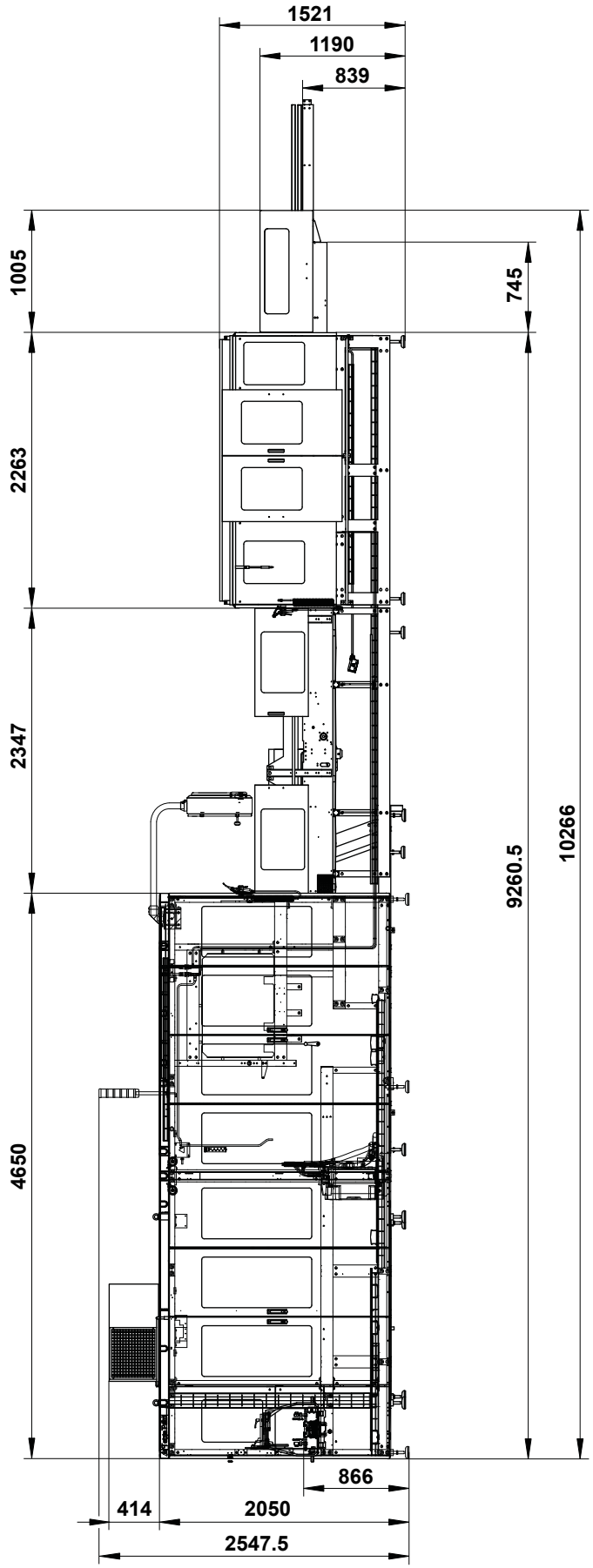
1.1.1 Front View



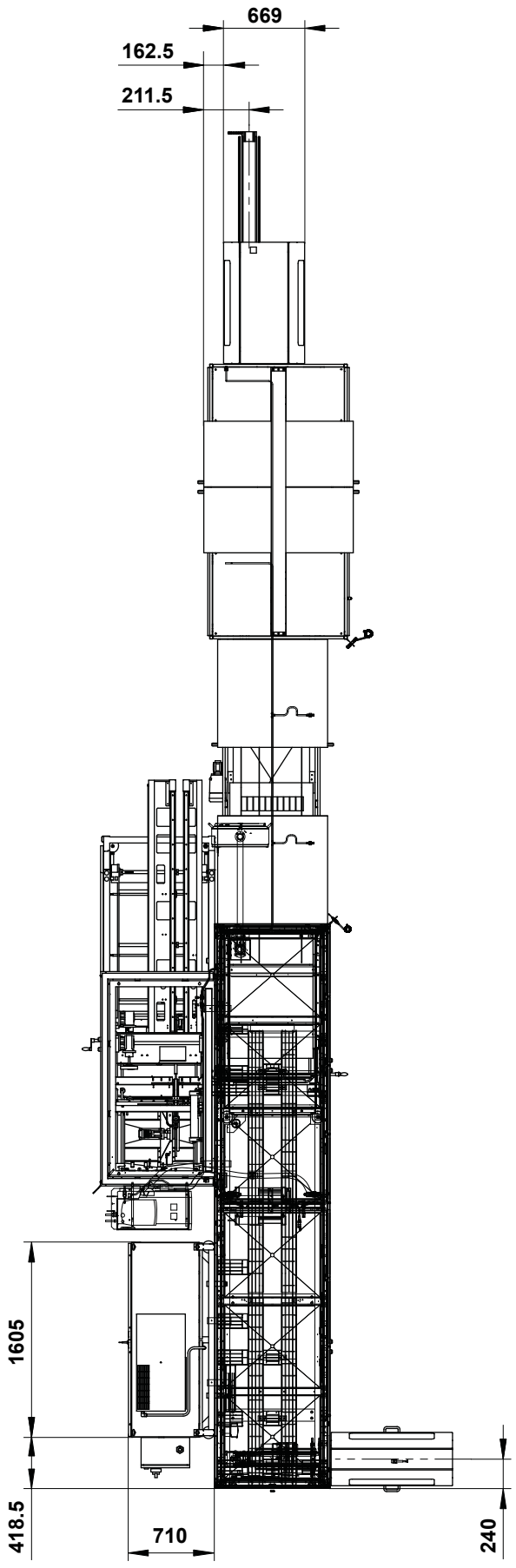
1.1.2 Back View



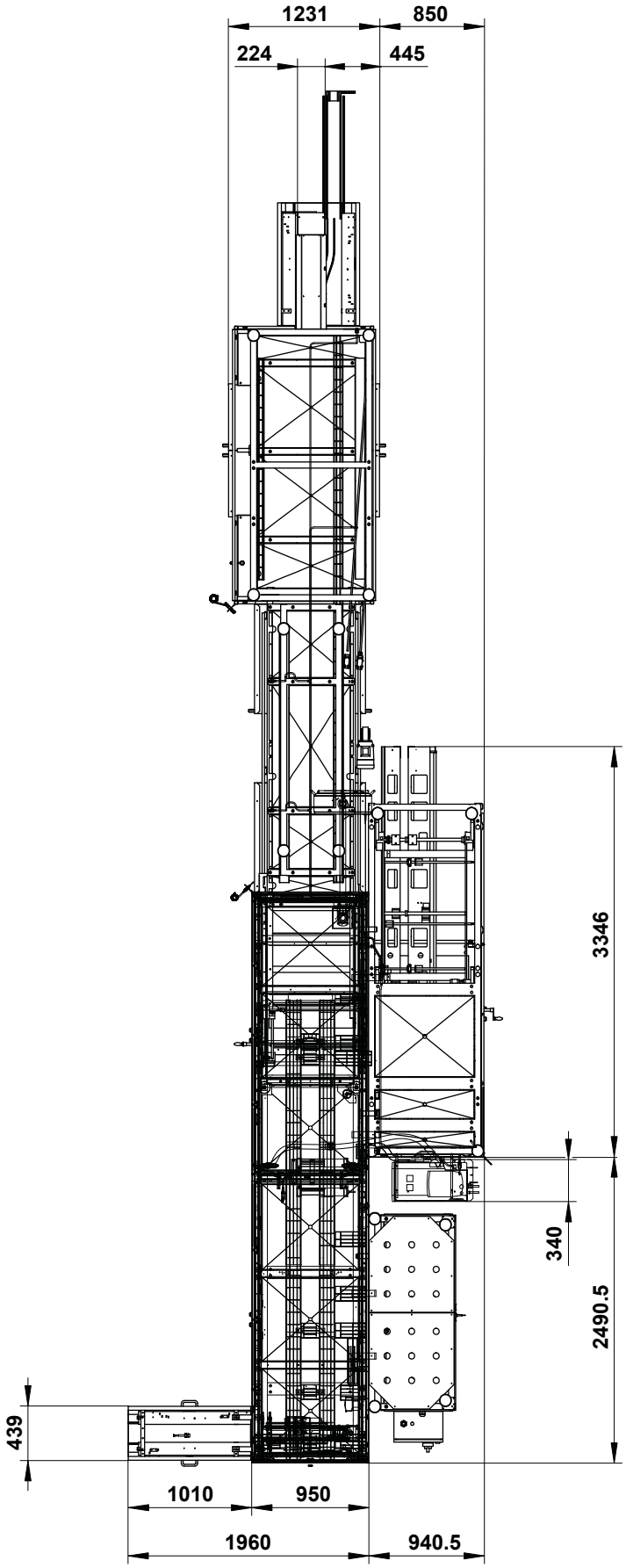
1.1.3 LH Side View



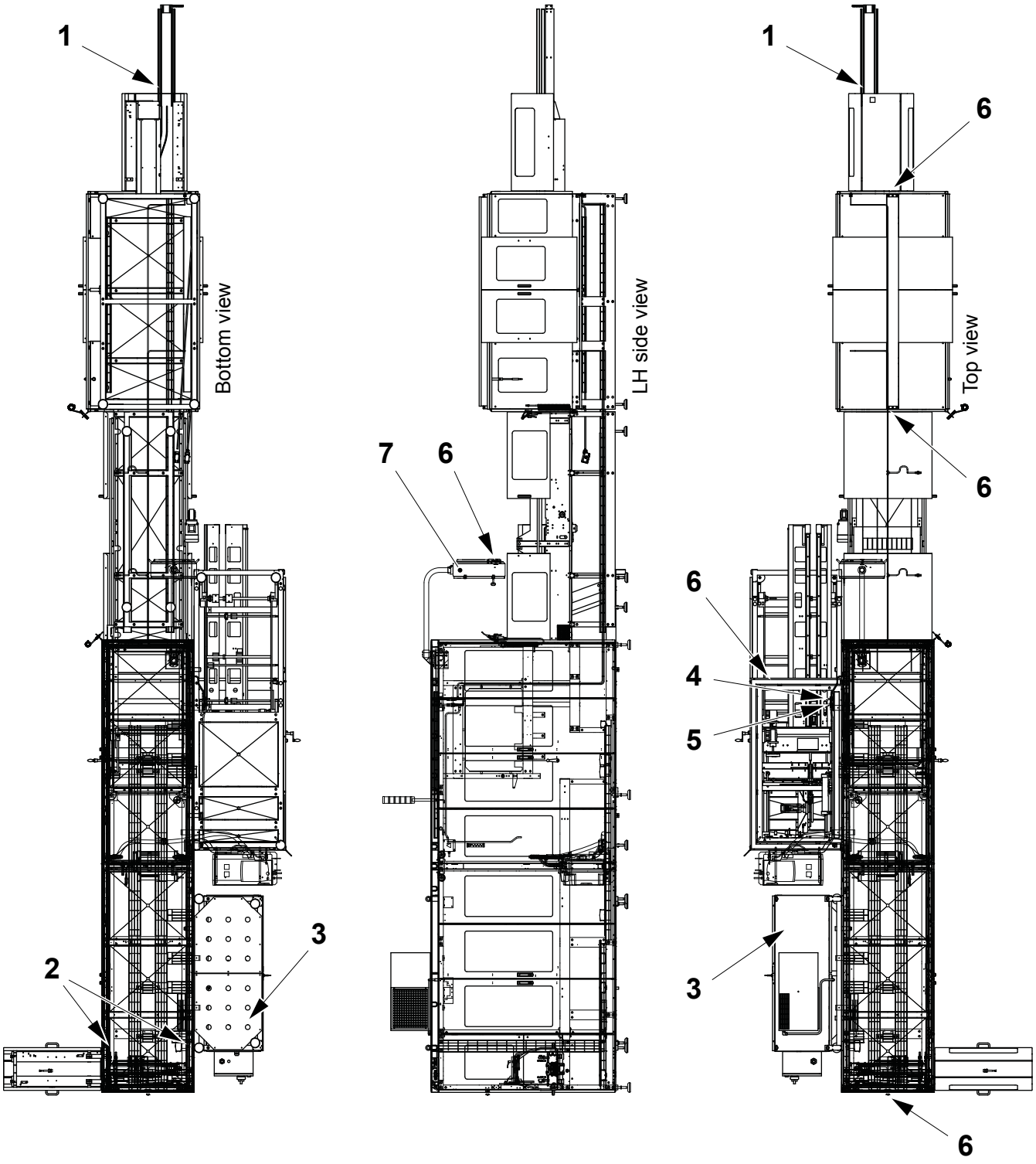
1.1.4 Top View



1.1.5 Bottom View

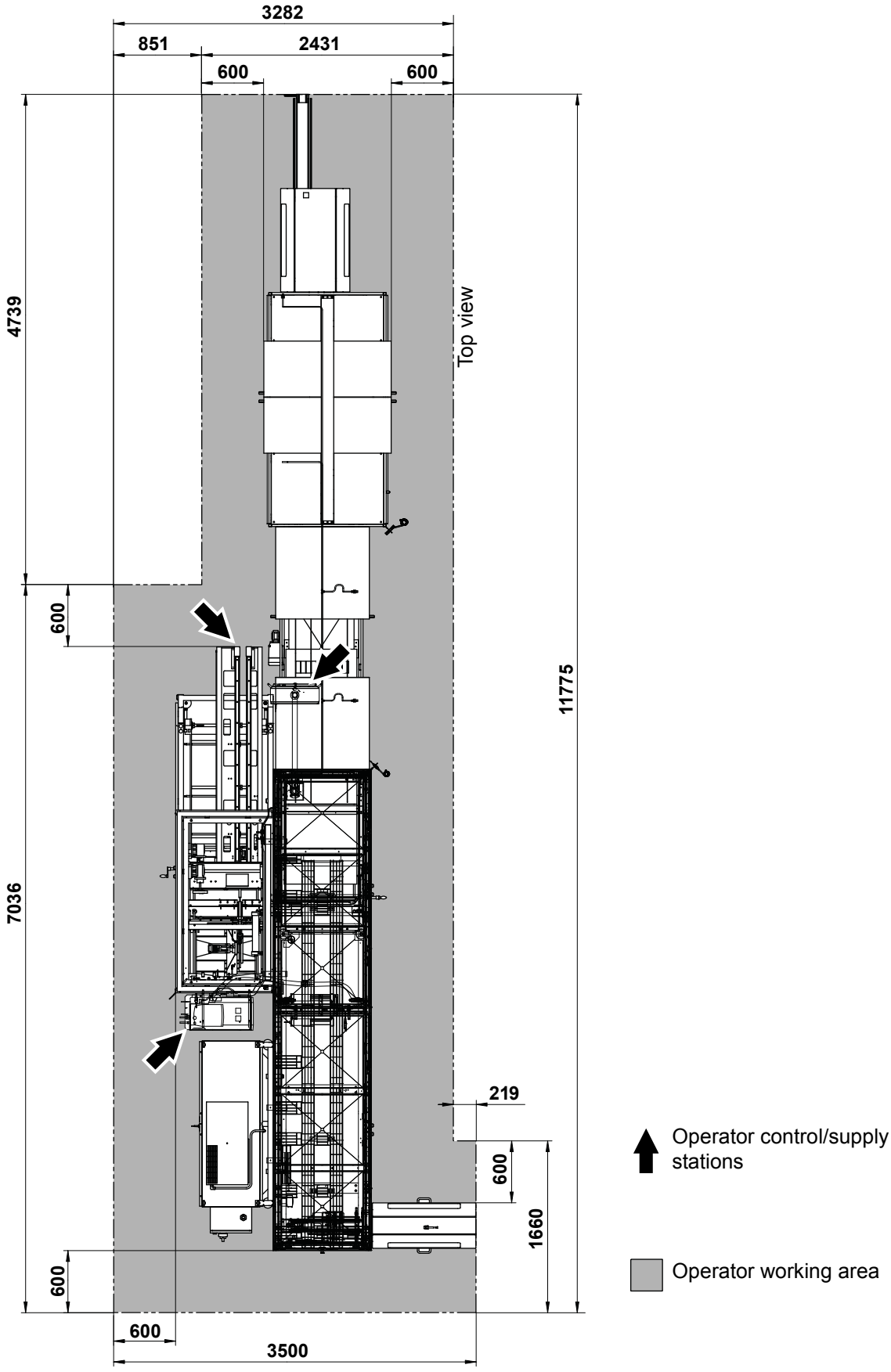


1.1.6 Connection Locations

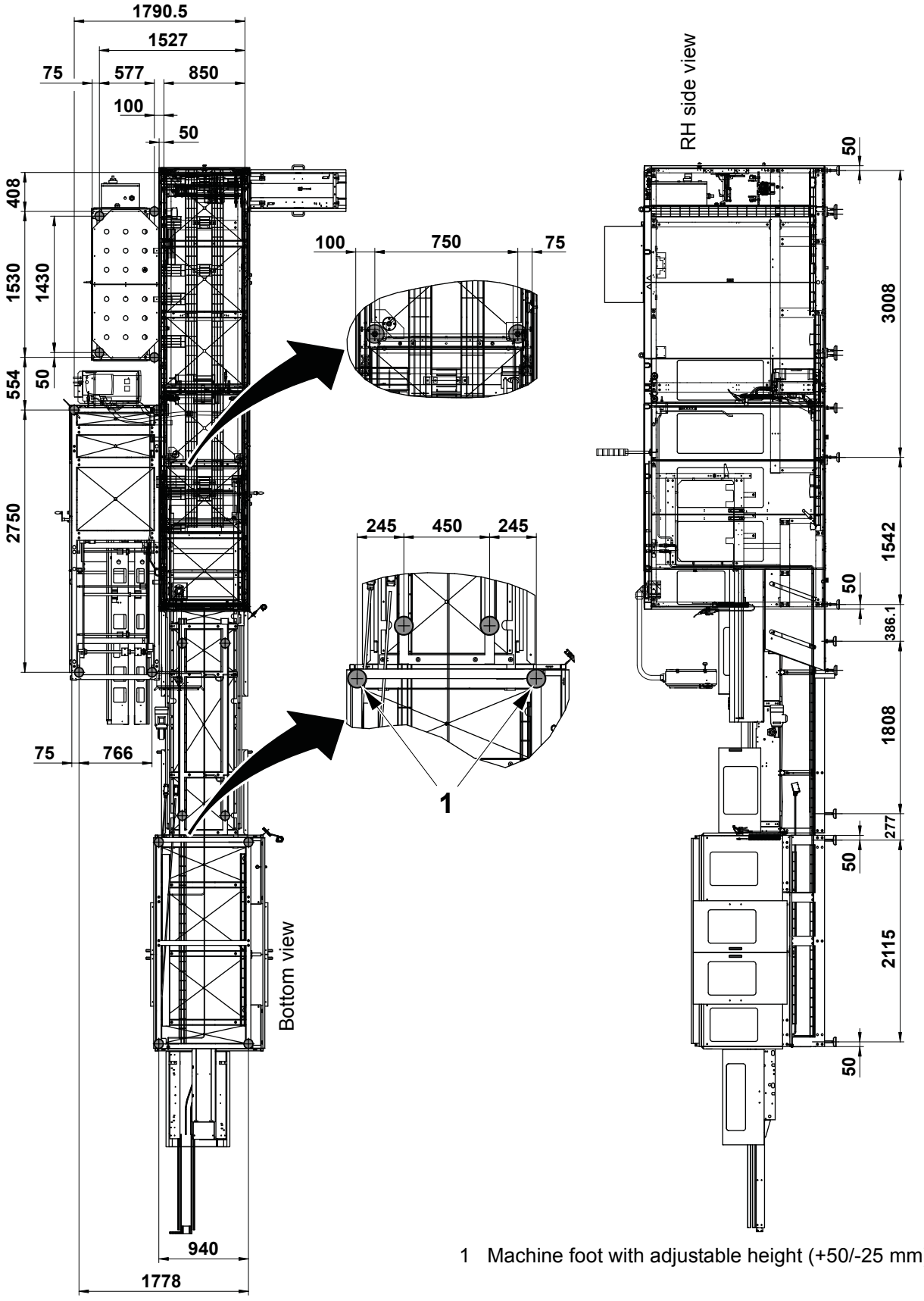


1 Connection point for infeed conveyor
2 Connection point for outfeed conveyor
3 Electrical connection point
4 Water connection (height 2052 mm)
5 Air connection (height 2052 mm)
6 Emergency stop push-button
7 Control panel

1.1.7 Operators Working Area



1.1.8 Machine Feet Locations



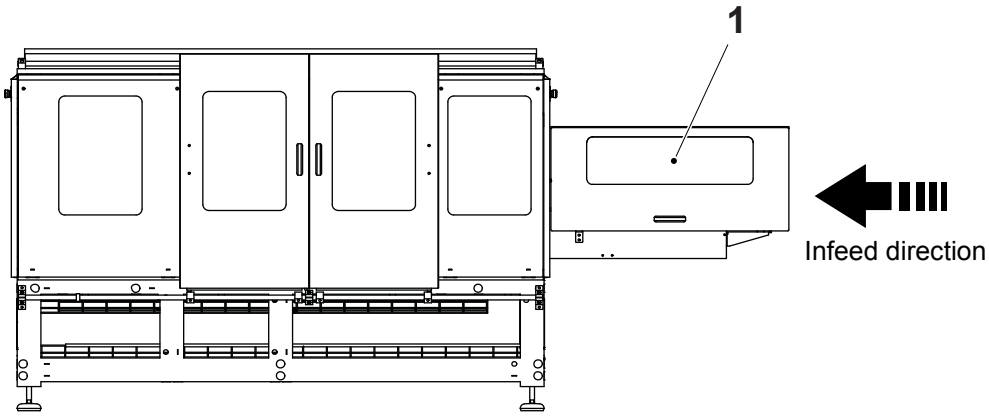
1 Machine foot with adjustable height (+50/-25 mm)

1.1.9 Infeed

1.1.9.1 General for Infeed

Note! The following instructions are valid for all types of infeed solutions.

CAUTION
Risk of minor or moderate injury.
The infeed tunnel (1) has always to be installed on the machine.



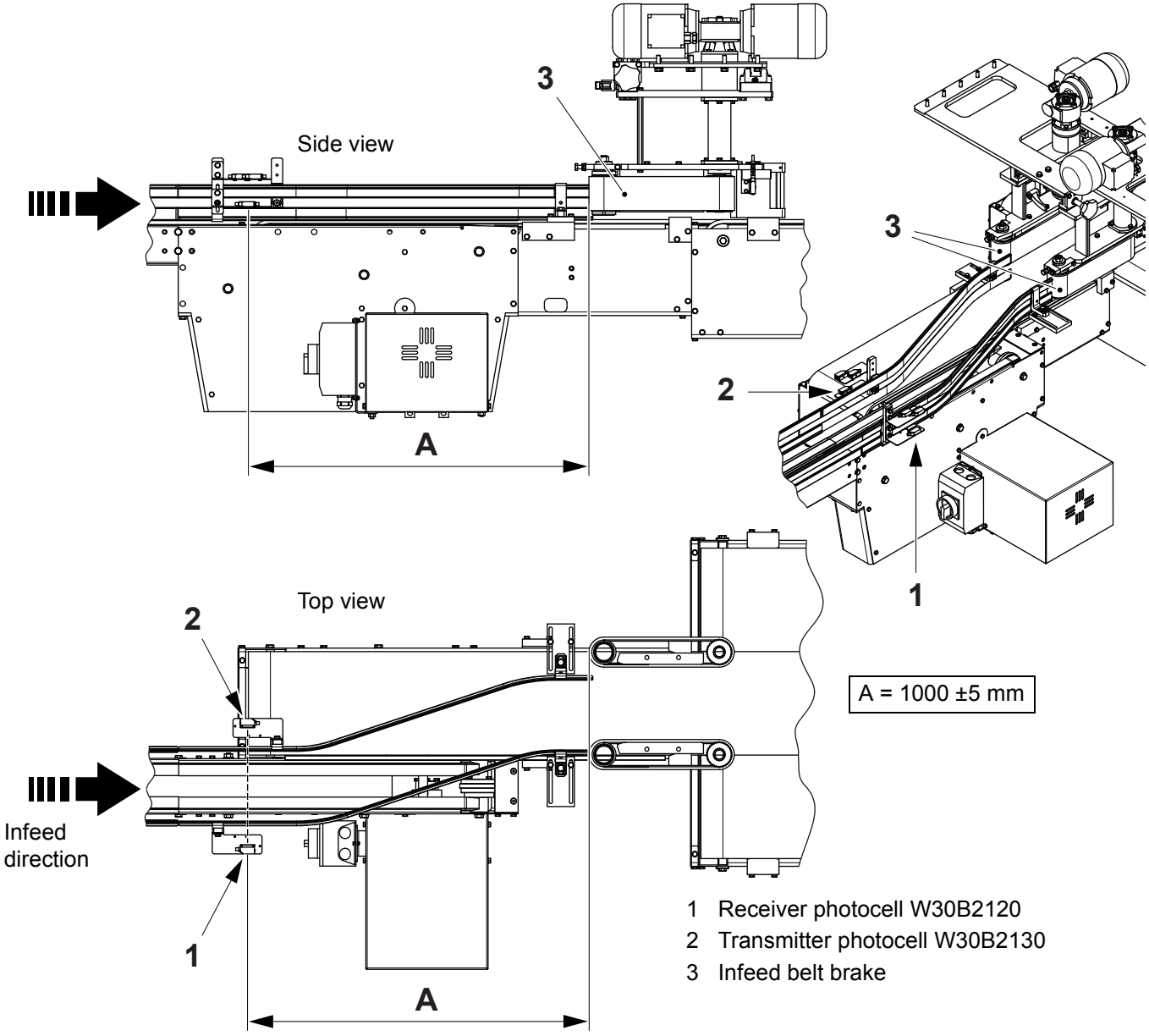
1 Infeed tunnel

(Cont'd)

(Cont'd)

Lower Photocells - Setting

Place the lower photocells **W30B2120** (1) and **W30B2130** (2), used to detect infeed fallen packages, at the distance **A** from the infeed belt brake (3).



1 Receiver photocell W30B2120
2 Transmitter photocell W30B2130
3 Infeed belt brake

(Cont'd)

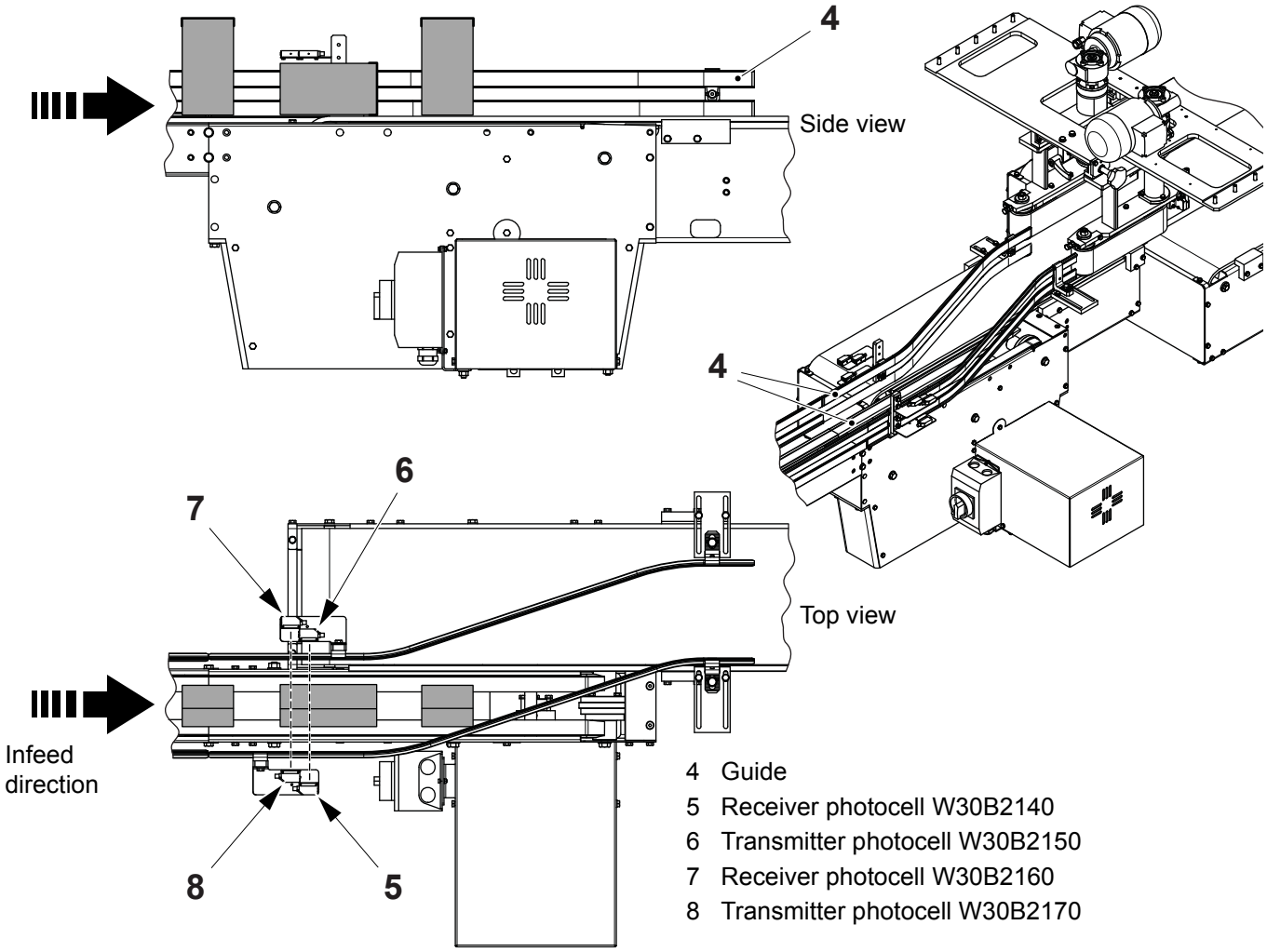
(Cont'd)

Upper Photocells - Setting

Note! Make sure that the guides (4) of the conveyor, do not interfere with the light barrier formed by each couple of photocells.

Fine adjust the height of the upper photocells: **W30B2140** (5)**, W30B2150** (6), **W30B2160** (7) and **W30B2170** (8), used to detect the infeed fallen packages, so that the light barrier is a bit upper than a fallen package. Check during PRODUCTION that:

- the standing packages are detected when passing through the light barrier
- the fallen packages are not detected when passing below the light barrier.



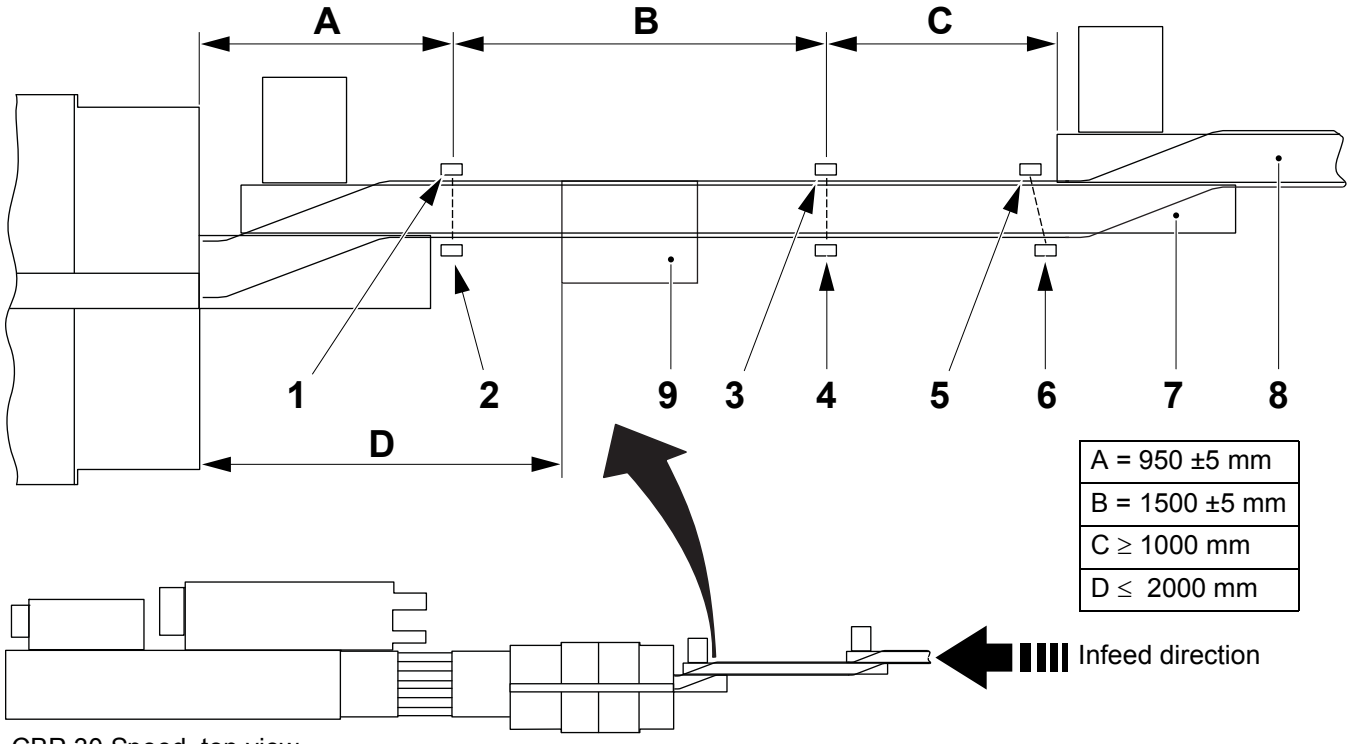
4 Guide
5 Receiver photocell W30B2140
6 Transmitter photocell W30B2150
7 Receiver photocell W30B2160
8 Transmitter photocell W30B2170

1.1.9.2 Infeed Solution for Lines With Line Controller

Note! Make sure that the photocells (1) and (2) are correctly set, see Lower Photocells - Setting on page 1-12.

The photocells **W30B1160** (3) and **W30B1170** (4), used to detect the overflow, have to be placed at the distance **B** from the photocells (1) and (2), and then at the distance **C** from the conveyor (8).
The photocells (5) and (6) that do not belong to the CBP 30 Speed and are used to detect the outfeed queue, have to be placed after the intersection existing between the conveyors (7) and (8).

Note! For a good functioning of the line, it is necessary that the Conveyor (8) installed between the infeed conveyor of the CBP30 and the outfeed conveyor of the upstream equipment, is controlled by the LC.



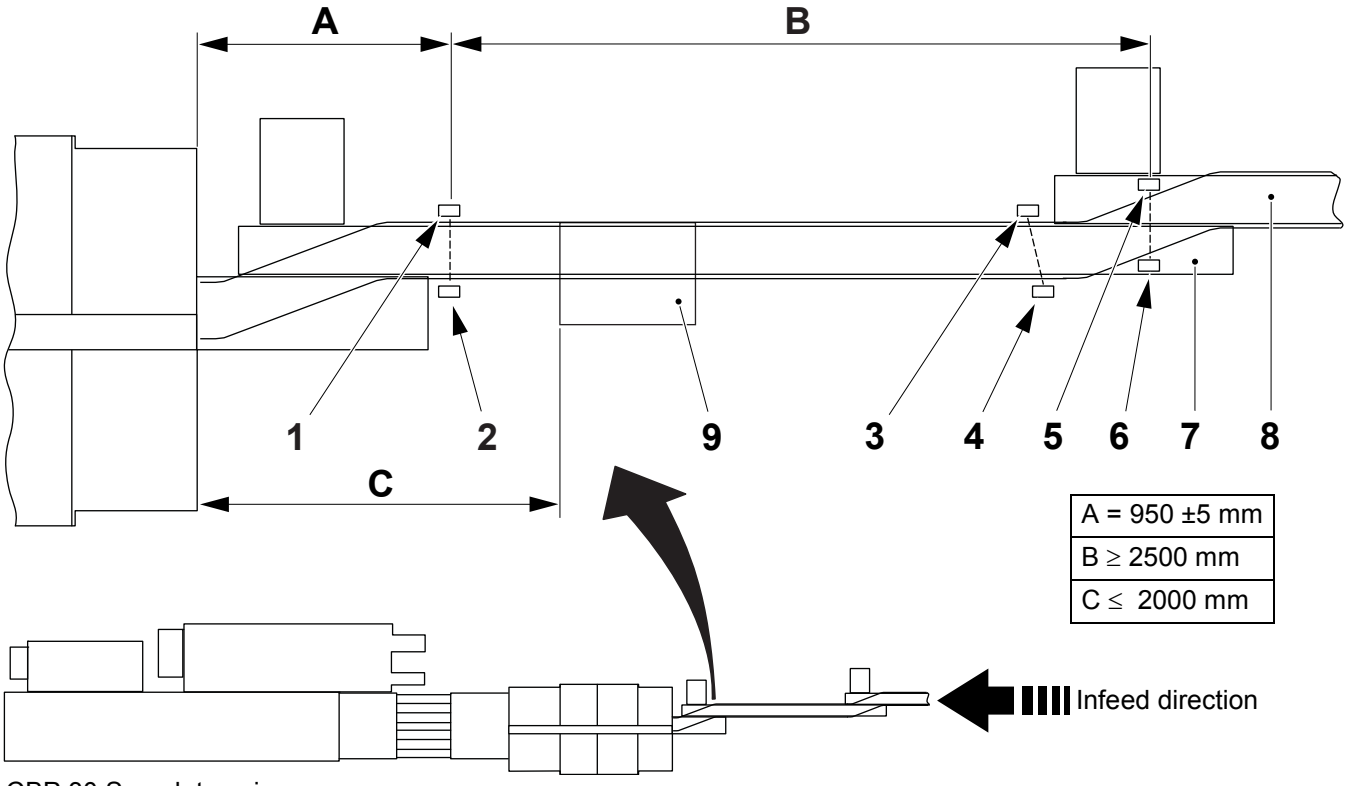
CBP 30 Speed, top view

1 Receiver photocell W30B2120
2 Transmitter photocell W30B2130
3 Receiver photocell W30B1160
4 Transmitter photocell W30B1170
5 Receiver photocell
6 Transmitter photocell
7 Conveyor
8 Conveyor
9 Package trap

1.1.9.3 Infeed Solution for Lines Without Line Controller

Note! Make sure that the photocells (1) and (2) are correctly set, see Lower Photocells - Setting on page 1-12.

The photocells **W30B1160** (5) and **W30B1170** (6), used to detect the package coming, have to be placed in the middle of the intersection existing between the conveyors (7) and (8), and then at the distance **B** from the photocells (1) and (2). The photocells (3) and (4) belong to the upstream equipment and are used to detect the outfeed queue, have to be placed after the intersection existing between the conveyors (7) and (8).



CBP 30 Speed, top view

1 Receiver photocell W30B2120
2 Transmitter photocell W30B2130
3 Receiver photocell
4 Transmitter photocell
5 Receiver photocell W30B1160
6 Transmitter photocell W30B1170
7 Conveyor
8 Conveyor
9 Package trap

1.1.10 Discharge

1.1.10.1 General for Discharge

Any motorized conveyor directly installed at the machine outfeed, has to be connected to the connector **W50X4000** (already supplied with the machine) using the screened cable **W50W4000**, see the EM for more information. This conveyor will run at the machine speed and not at a constant speed.

Other equipment such as: printer, tray shrink, label applicator etc.; have to be installed on an extra conveyor, that is connected to an external power supply and not to the electrical cabinet of the CBP 30 Speed. During the installation of the extra conveyor, make sure to observe the minimum distance required from the CBP 30 Speed, as described in the shown on the next pages.

1.1.10.2 Discharge - Left/Right Outfeed

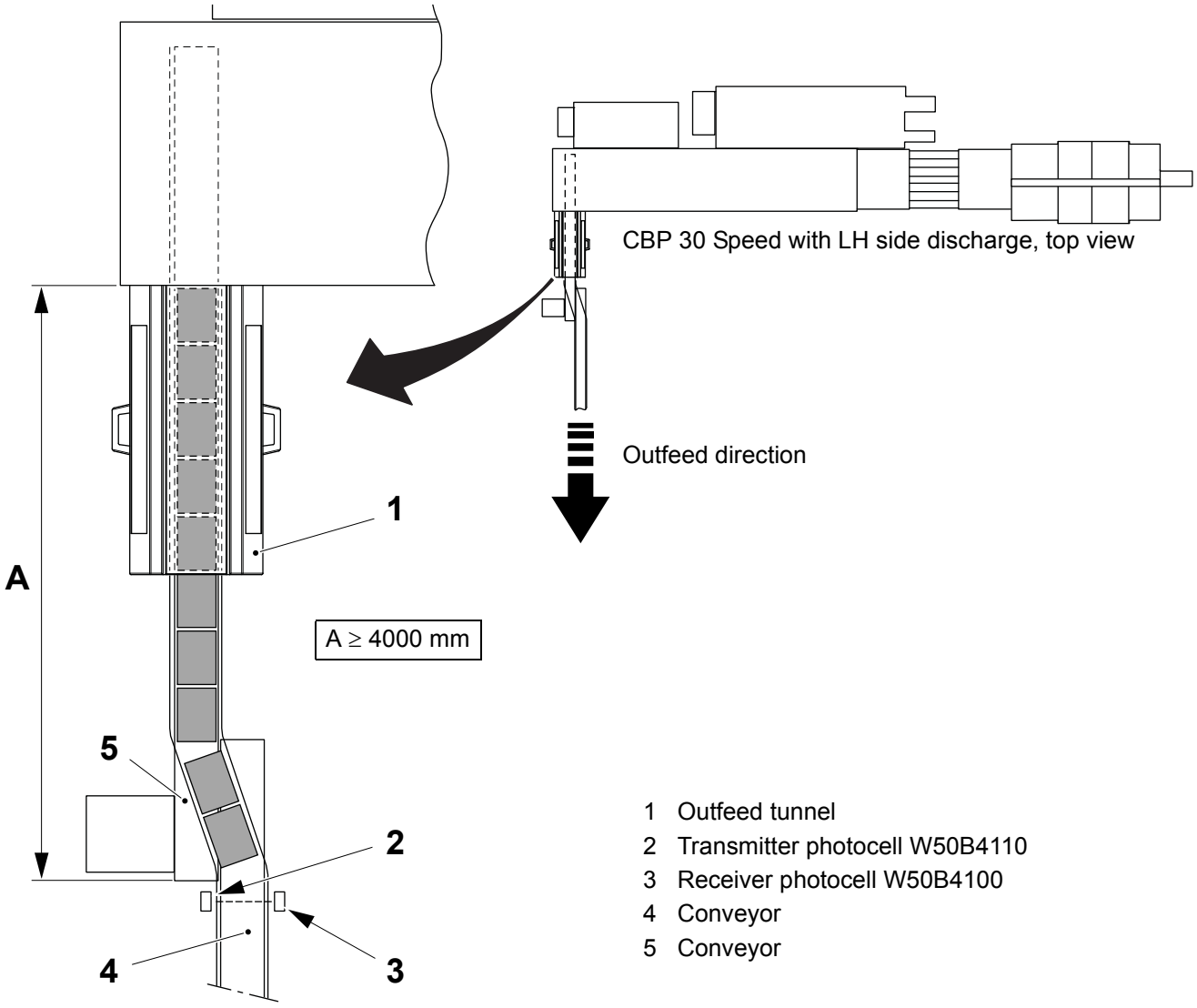
CAUTION

Risk of minor or moderate injury.

The outfeed tunnel (1) has always to be installed on the machine.

The minimum length **A** of the conveyor (5), depends by the time set on the TPOP for the outfeed queue detection, this time can require a space enough to transport up to 10 boxes (tray or WA) one close to each other on the conveyor (5).

The photocells **W50B4110** (2) and **W50B4100** (3), used to detect the outfeed queue, have to be placed after the intersection existing between the conveyors (4) and (5).



1 Outfeed tunnel
2 Transmitter photocell W50B4110
3 Receiver photocell W50B4100
4 Conveyor
5 Conveyor

1.1.10.3 Discharge - Straight Outfeed

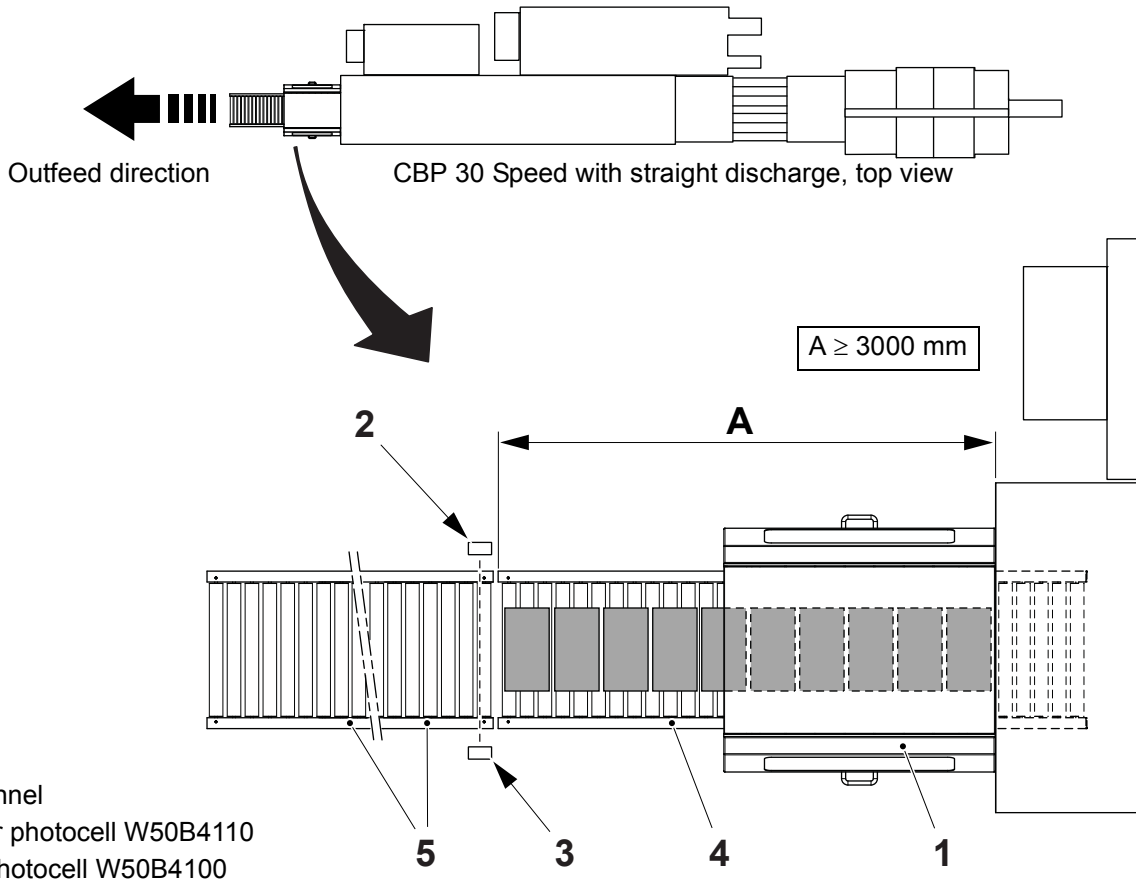
CAUTION

Risk of minor or moderate injury.

The outfeed tunnel (1) has always to be installed on the machine.

The minimum length **A** of the roller conveyor (4), depends by the time set on the TPOP for the outfeed queue detection, this time can require a space enough to transport up to 10 boxes (tray or WA) one close to each other on the roller conveyor (4).

The photocells **W50B4110** (2) and **W50B4100** (3), used to detect the outfeed queue, have to be placed after the intersection existing between the roller conveyors (4) and (5).

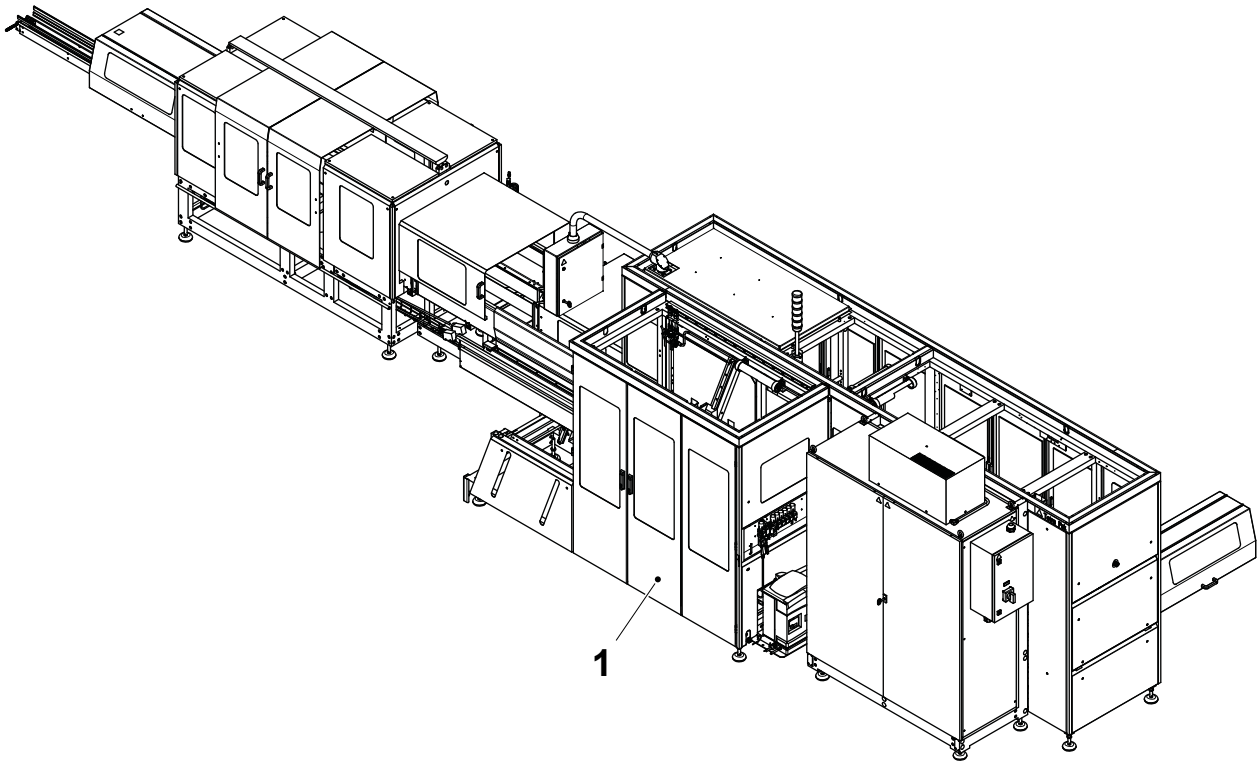


1 Outfeed tunnel
2 Transmitter photocell W50B4110
3 Receiver photocell W50B4100
4 Roller conveyor
5 Roller conveyor

1.1.11 System Drawings

The system drawings are located in the document holder on the inside of the door (1). These include:

- installation drawings (2805540-1)
- pneumatic diagram (2829775)
- water diagram (2914744).



1 Door

1.2 Mass (Weight)

Machine Configuration	Mass (weight)	Notes
CBP 30 Speed	Approx. 4600 Kg (10142 lbs)	
CBP 30 Speed with WA	Approx. 4850 Kg (10693 lbs)	

1.2.1 Centre of gravity

Note! The table below includes the mass and measures of the three main parts of the machine.

Machine part	Mass (weight)	Length (mm)	Width (mm)	Height (mm)
Base machine (*)	3100 Kg (6835 lbs)	5862.8	1890.5	2547.5 (+50/-25)
Base machine (*) with WA	3350 Kg (7386 lbs)	5862.8	1890.5	2547.5 (+50/-25)
Accumulation unit	500 Kg (1103 lbs)	3260.3	1022	1232 (+50/-25)
Infeed unit	1000 Kg (2205 lbs)	3268	1327	1521 (+50/-25)

(*) The Base machine includes: the Base Unit, the Electrical Cabinet and the Magazine Unit.

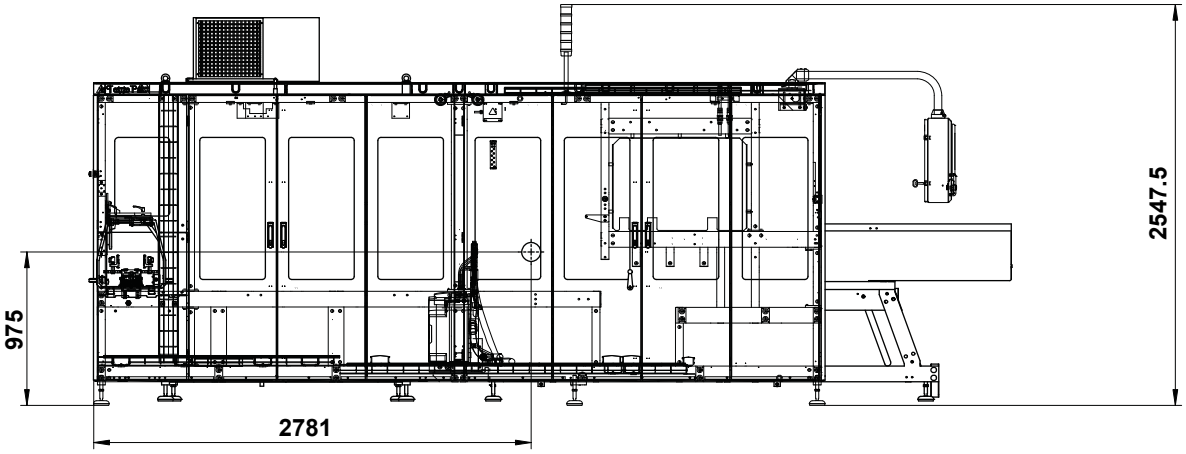
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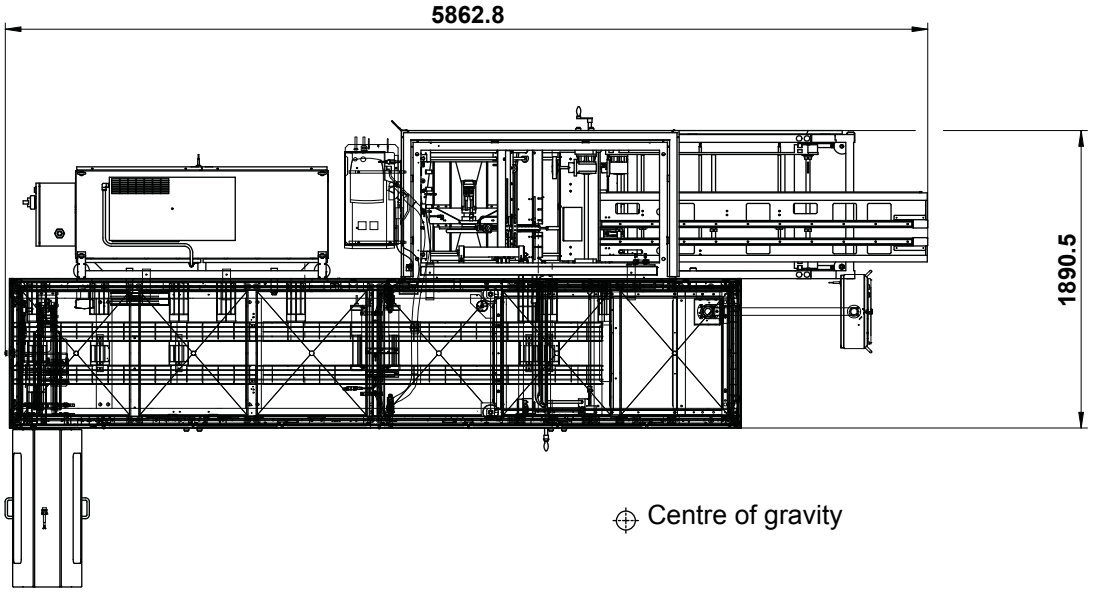
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Note! The three main parts of the machine have to be transported separately.

Centre of Gravity for Base Machine

Note! The Base machine includes: the Base Unit, the Electrical Cabinet and the Magazine Unit.

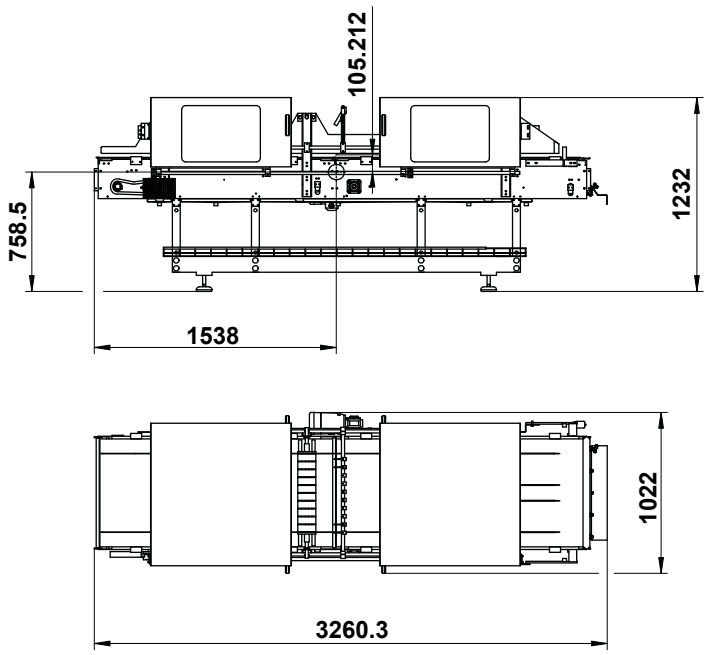




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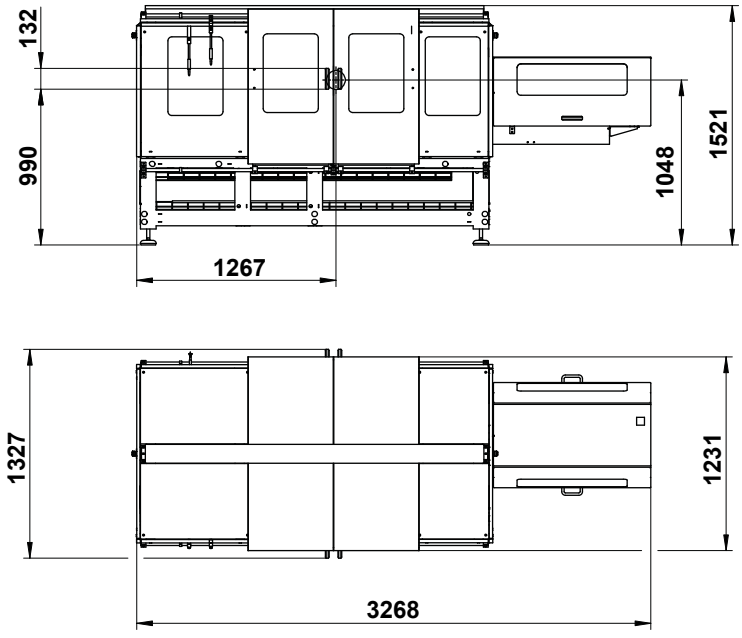
(Cont'd)

Centre of Gravity for Accumulation Unit



⊕ Centre of gravity

Centre of Gravity for Infeed Unit



⊕ Centre of gravity

1.2.2 Fork-lift Position

Put the forks according to the drawings below.

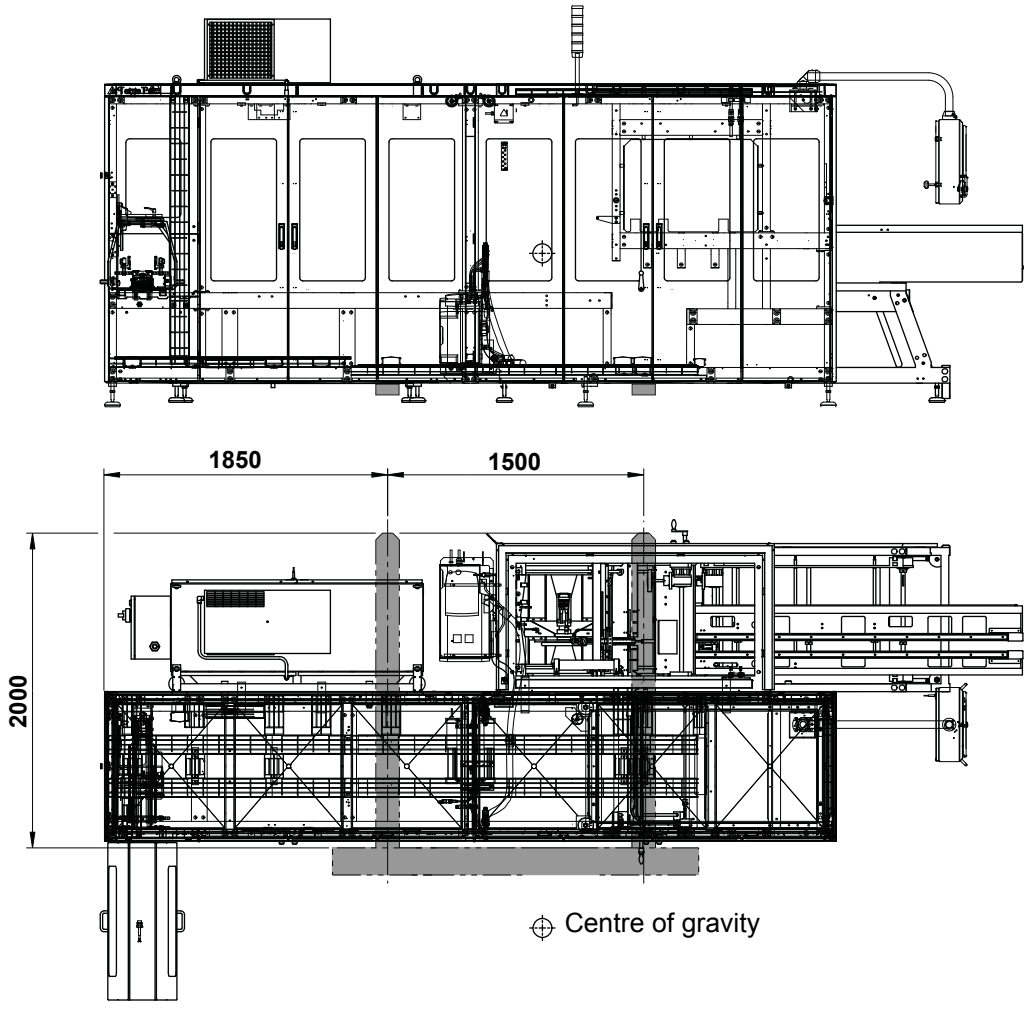
CAUTION

Beware not to hit the machine feet with the fork-lift. It could result in serious frame damage to the machine.

Note! After any movement of the machine, it should be put down gently.

Fork-Lift Position for Base Machine

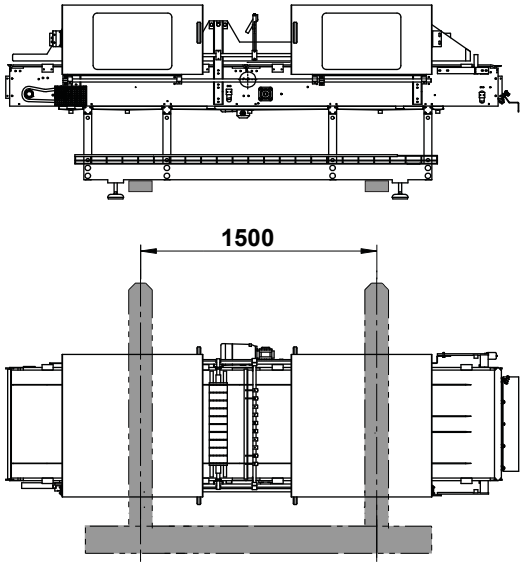
Fork length must reach across both the Electrical cabinet and the Magazine unit when moving the Base Machine.



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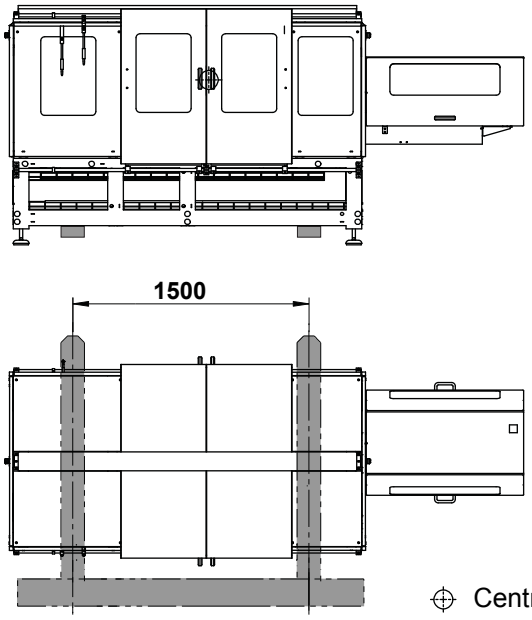
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Fork-Lift Position for Accumulation Unit



⊕ Centre of gravity

Fork-Lift Position for Infeed Unit



⊕ Centre of gravity

1.3 Utility Connection Data

This section contains all utility connection data required for optimal machine performance.

1.3.1 Electrical Power

1.3.1.1 Electrical Power Specification

WARNING

This product can cause a current in the protective earthing conductor. The external protective conductor associated with the power supply to this product must have a cross-sectional area of at least 10 mm^2. Where a residual current-operated protective (RCD) or monitoring (RCM) device is used for protection in case of direct or indirect contact, only an RCD or RCM of Type B is allowed on the supply side of this product.

Characteristic	Value	Notes
Supply voltage to machine	400/230 VAC, 3 phase + N + earth	
Max voltage fluctuation	±10%	
Frequency	50/60 ±2% Hz	
Main fuse dimension	63 A	
Cable area (copper min.)	16 mm^2	
Cable type	5×16 or follow local regulations	
Control circuits voltage	24 VDC	
Control system	Rockwell automation	

1.3.1.2 Electrical Power Consumption

Note! The following data are valid for a standard machine without OE.

Machine phase	Consumption	Notes
Power On	0.6 kW	
Preheating	3.9 kW ±0.8 kW	
Production	5.4 ±0.8 kW (Peak 6.3 kW)	

1.3.1.3 Customer Transformer

Characteristic	Value	Notes
Maximum permissible customer transformer impedance	0.3 Z (Ω)	Tetra Pak is not responsible for the dimensioning at installation. Tetra Pak only provides recommendations.

1.3.2 Compressed Air

1.3.2.1 Compressed Air Specification

Characteristic	Value	Notes
Supply pressure	6 - 10 bar (600 - 1000 kPa)	
Max particle size	40 µm	
Max particle content	10 mg/m^3	
Dew point	3 °C (37.4°F)	
Oil content	0.01 mg/m3	
Connection thread	G 1/2" internal	
Hose connection	∅ 12 mm	

1.3.2.2 Compressed Air Consumption

Note! The following data are valid for a standard machine without OE.

Machine configuration	Average consumption during production (8 hours running)	Peak consumption
CBP 30 Speed	290 Nl/min ±20 Nl/min (at a static air pressure of 6.7 ± 0.1 bar)	850 Nl/min ±19 Nl/min (at a static air pressure of 6.7 ± 0.1 bar)

1.3.3 Water

1.3.3.1 Water Specification

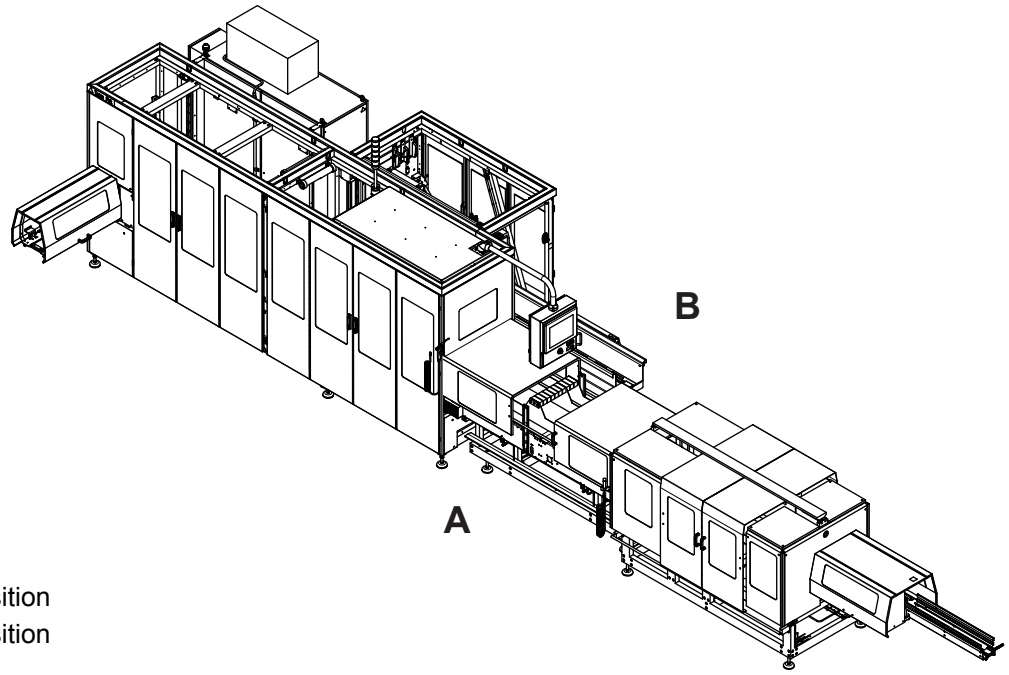
Characteristic	Value	Notes
Supply pressure	1.5 - 3 bar (150 - 300 kPa)	
Water quality	Drinking water	
Connection thread	G 1/2" internal	
Hose connection	∅ 12 mm	

1.4 Noise Emission

The table below give the noise level measurements for the machine under the following conditions:

- machine on a concrete floor supported by standard feet
- production under normal operating conditions.

DECLARED DUAL-NUMBER NOISE EMISSION VALUES in accordance with ISO 4871 Machine: CBP 30 Speed, machine type 663151-0200 Machine running in normal production	
Measured A-weighted Emission Sound Pressure Level, L_{pA}: (ref. 20 µPa) at the operator position **B**. Uncertainty factor, K_{pA}: Values determined using the basic standard ISO 11204 (Engineering method)	**72** dB(A) 2.5 dB(A)
Measured A-weighted Sound Power Level, L_{WA}: (ref. 1 pW). Uncertainty factor, K_{wA}: Values determined using the basic standard ISO 3744 (Engineering method)	**92** dB(A) 2.5 dB(A)



A Operator position
B Operator position

1.5 Technical Data

Production Data	
Maximum nominal capacity (package units)	125S, 200B, 200M, 200S, 250B, 250S: 24000 p/h +30% overcapacity. 1000B, 1000S, 1000Sq: 15000 p/h +30% overcapacity.
Cardboard units produced (cycle per minute)	33 cpm (55 cpm optional)
Infeed Conveyor	
Type (standard)	PC 23, UC 24 **Note!** The machine fulfils the safety demands only when the infeed conveyor with tunnel TP No. 2801470-0200 or similar equipment is mounted, which fulfils machinery directive 98/37/EC and sub directives.
Width	See 1.6 Selection Tables.
Infeed height (Top of Chain)	825 +50/-25 mm
Drive unit	Not provided with the machine, must be ordered by the client when placing the order.
Motor W30M2000	Max 0.75 Kw (not provided with the machine, must be ordered by the client when placing the order).
Motor cable W30W2000	8 m (provided with the machine).
Nominal Speed	33 m/min (other nominal speeds can however be selected by the TPOP).
Discharge Conveyor	
Left/Right Outfeed	
Type (standard)	UC 24 **Note!** The machine fulfils the safety demands only when the discharge conveyor with tunnel TP No. 2815843-0200 or similar equipment is mounted, which fulfils machinery directive 98/37/EC and sub directives.
Infeed height (Top of Chain)	825 +50/-25 mm
Drive unit	Not provided with the machine, must be ordered by the client when placing the order.
Motor W50M4000	Max 0.75 Kw (not provided with the machine, must be ordered by the client when placing the order).
Motor cable W50W4000	10 m (provided with the machine).
Nominal Speed	25 m/min (other nominal speeds can however be selected by the TPOP).
Straight Outfeed	
Type (standard)	Roller Conveyor **Note!** The machine fulfils the safety demands only when the discharge conveyor with tunnel TP No. 2815843-0200 or similar equipment is mounted, which fulfils machinery directive 98/37/EC and sub directives.

(Cont'd)

(Cont'd)

Optional Equipment	
WA	
Discharge conveyor: Straight, LH side or RH side	
Genius line communication	
Production Material	
Cardboard blanks	See homepage for CBP 30 Speed.
Type of hotmelt	See homepage for CBP 30 Speed.
Consumption Tetra Tray	0.5 kg/1000 units
Consumption WASF/WAIF	1.5 kg/1000 units

1.6 Selection Tables

1.6.1 Possible Infeed Conveyors per Volume

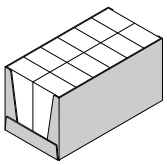
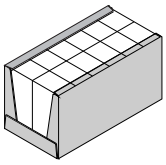
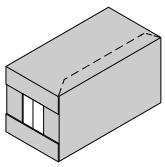
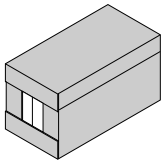
Volume (ml)	Incoming units	PC 23	UC 24
200B	single	Yes	Yes
	(3×1)	Yes	Yes
	(3×2)	Yes	Yes
	(3×3)	No	Yes
	(1×5)	Yes	Yes
	(2×5)	No	Yes
200M	single	Yes	Yes
	(3×1)	Yes	Yes
	(3×2)	Yes	Yes
	(3×3)	No	Yes
200S	single	Yes	Yes
	(3×1)	Yes	Yes
	(3×2)	Yes	Yes
	(3×3)	No	Yes
	(4×1)	Yes	Yes
	(4×2)	No	Yes
	(1×5)	Yes	Yes
	(2×5)	No	Yes
250B	single	Yes	Yes
	(3×1)	Yes	Yes
	(3×2)	Yes	Yes
	(3×3)	No	Yes
	(1×5)	Yes	Yes
	(2×5)	No	Yes
250S	single	Yes	Yes
	(3×1)	Yes	Yes
	(3×2)	Yes	Yes
	(1×5)	Yes	Yes
	(2×5)	No	Yes

Volume (ml)	Incoming units	PC 23	UC 24
1000B	single	Yes	Yes
	(2×2)	No	Yes
	(3×2)	No	Yes
1000S	single	Yes	Yes
	(2×2)	No	Yes
1000Sq	single	Yes	Yes
	(2x2)	No	Yes

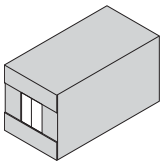
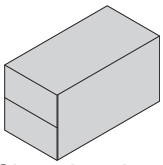
1.7 Additional Information

1.7.1 Possible Combinations of Distribution Units

Note! If any other unit than Tetra Tray is chosen, a Wrap Around unit is needed and it will be at extra cost.

Types of distribution units			
 Tray	 Tray OF	 WAIF	 WASF

Abbreviations	
Tetra **Tray**	Tray
Tetra **Tray** with **O**ver **F**laps	Tray OF
Tetra **W**rap **A**round box with **I**nside top **F**lap	WAIF
Tetra **W**rap **A**round box with **S**ide **F**lap	WASF

Different end flap size for the Tetra Wraparound Boxes	
 Open end	 Closed end
For the closed end alternative the maximum package height is 123 mm at a flap length of 85 mm.	

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2 Preparation

Description

This chapter describes the requirements for the installation of the equipment.

2.1 Requirements . . . . . 2 - 5

2.1.1 General Requirements . . . . . 2 - 5

2.1.1.1 Floor . . . . . 2 - 5

2.1.1.2 Personnel . . . . . 2 - 5

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2.1.2.1 Unpacking Area . . . . . 2 - 6

2.1.2.2 Installation Area . . . . . 2 - 6

2.2 Special Tools, Auxiliary Equipment and Information . . . . . 2 - 7

2.2.1 Tools and Materials . . . . . 2 - 7

2.2.2 Equipment for Lifting and Moving . . . . . 2 - 8

2.2.2.1 Types of Lifting Equipment . . . . . 2 - 8

2.2.2.2 Lifting Equipment Specifications . . . . . 2 - 8

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2.1 Requirements

2.1.1 General Requirements

The choice of site location should be determined with regard to the utilities and supplies required by the machine and access limitations. In order to obtain the best possible working condition for the machine, it is necessary to follow our recommendation of data according to Chapter 1 Technical Data and Drawings.

Note! The base machine has been designed with an open ceiling and has no top covers, so avoid to place the machine under pipes, conveyors etc., otherwise liquids, objects etc. may entry from above.

Access is required for a fork lift or lifting equipment should be available to site the machine.

The installation site must be prepared in advance by the customer.

2.1.1.1 Floor

To obtain a proper production it is necessary that the machine is standing stable on the floor. The floor should be strong enough to support the full weight of the machine and that it is in good condition. No special foundation work is required for the machine. The machine does not have to be bolted to the floor.

2.1.1.2 Personnel

Only skilled or instructed Tetra Pak installation personnel are allowed to assemble the machine.

2.1.2 Space Requirements

2.1.2.1 Unpacking Area

The minimum unpacking area must be at least twice the size of the main crate. This only allows an area large enough for one crate to be unpacked at a time.

Minimum area: 11500 x 4800 x 4500 mm (38 x 16 x 15 ft)

The ideal unpacking area allows all crates to be unpacked together.

WARNING

Risk of personal injury.

Make sure there is sufficient room to move safely around the installation site. If machines around the site cannot be stopped, place guards around them to prevent accidental contact.

2.1.2.2 Installation Area

a) Make sure that all customer preparation work has been completed to prepare the site for the machine.

b) Make sure that all the necessary utility supplies are available, see section 1 Technical Data and Drawings.

c) Clear all obstacles away from the installation site and, if necessary, clean the floor of the site before starting to install the machine.

d) Leave the protective packing on parts until they are required during the machine assembly procedure.

e) Make sure that the lighting is adequate. Arrange additional portable lights if required, making sure that the cables are routed safely.

2.2 Special Tools, Auxiliary Equipment and Information

2.2.1 Tools and Materials

The following tools and materials are needed to move and install the equipment:

- pallet trolley, capacity 800 kg (1765 lbs)
- spirit level, TP No. 90243-163
- 2 m (7') step ladder
- pneumatic or electric powered wrench
- crowbar or strong lever
- cable ties
- insulating tape.

2.2.2 Equipment for Lifting and Moving

2.2.2.1 Types of Lifting Equipment

The following types of equipment can be used to lift and move the crates:

- overhead gantry
- mobile crane
- fork lift.

2.2.2.2 Lifting Equipment Specifications

Make sure that the lifting equipment complies with the specifications given in the following table.

Equipment or tackle	Lifting capacity kg (lbs)	Notes
Overhead gantry	4000 (9000)	5000 kg (11000 lbs) required if gantry does not have gradual acceleration deceleration ramps.
Mobile crane	4000 (9000)	5000 kg (11000 lbs) required if crane does not have gradual acceleration deceleration ramps.
Lifting chains, cables, ropes or hoist slings	4000 (9000)	5000 kg (11000 lbs) required if lifting equipment does not have gradual acceleration deceleration ramps. Min. length hook to hook: – Main crate: 15 m (50’) – Second crate: 15 m (50’)
Fork lift	5000 (11000)	A higher capacity fork lift truck allows the centre of gravity of the crate to be raised safely to a height of 1500 mm (5’).
Lifting forks	5000 (11000)	Min. length: – Main crate: 2000 mm (6’6’’) – Second crate: 2000 mm (6’6’’) Recommended setting width: – Main crate: 2000 mm (6’6’’) – Second crate: 2000 mm (6’6’’)

3 Moving and Unpacking the Equipment

Moving and Unpacking the Equipment - Description

This chapter contains information about how to transport, store and unpack the machine prior to installation.

3.1 Crate Handling . . . . . 3 - 5

3.1.1 Crate Data . . . . . 3 - 5

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3.1.1.2 Second Crate . . . . . 3 - 6

3.1.2 Lifting and Unloading . . . . . 3 - 7

3.1.2.1 Labels, Symbols and Warning Placards . . . . . 3 - 7

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3.3.5 Disposing of Reusable Materials and Waste . . . 3 - 19

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3.1 Crate Handling

The following sections contain information specific to the correct handling of this crated equipment.

3.1.1 Crate Data

The machine is delivered in two crates. See the Packing List for a complete list of all parts included in each crate.

3.1.1.1 Main Crate

Weight and Dimensions

Machine type	Gross weight kg (lbs)	Net weight kg (lbs)	Length mm (ft.-in)	Width mm (ft.-in)	Height mm (ft.-in)
CBP 30 Speed	3600 (7937)	3100 (6835)	5700 (18´7”)	2400 (7´9”)	2250 (7´4”)
CBP 30 Speed with WA	3850 (8488)	3350 (7386)	5700 (18´7”)	2400 (7´9”)	2250 (7´4”)

Note! The weight of the crate can increase significantly if the crate becomes wet.

Contents

Machine type	Contents
CBP 30 Speed	Magazine unit Base unit Grouping unit Feed unit Electrical cabinet
CBP 30 Speed with WA	Magazine unit Base unit Grouping unit Feed unit Electrical cabinet WA unit

3.1.1.2 Second Crate

Weight and Dimensions

Machine type	Gross weight kg (lbs)	Net weight kg (lbs)	Length mm (ft.-in)	Width mm (ft.-in)	Height mm (ft.-in)
CBP 30 Speed	2000 (4410)	1500 (3307)	3900 (12´8”)	2400 (7´9”)	2150 (7´1”)
CBP 30 Speed with WA	2000 (4410)	1500 (3307)	3900 (12´8”)	2400 (7´9”)	2150 (7´1”)

Note! The weight of the crate can increase significantly if the crate becomes wet.

Contents

Machine type	Contents
CBP 30 Speed	Infeed unit Accumulation unit Guides for Magazine unit Cooling unit Accessories
CBP 30 Speed with WA	Infeed unit Accumulation unit Guides for Magazine unit Cooling unit Accessories

3.1.2 Lifting and Unloading

DANGER

Immediate danger to life.

To ensure safe and efficient handling of the crate, carefully study the following instructions.

3.1.2.1 Labels, Symbols and Warning Placards

Labels, symbols and warning placards are located on the external surfaces of the transit crates and outline the handling principles which must be observed.

- The crates should not be subjected to sudden shocks or movement
- The crates are not load bearing and must not be stacked or have other items placed on them
- The transit crates should be kept in the indicated upright position.

Labels may be installed to indicate that the crates have been tipped over or exposed to extremes of humidity.

Symbol	Meaning
	Centre of gravity
	Lifting points for chains, cables, ropes, or slings
	This way up
	Fragile
	Keep dry
↑TOP↑	Top of crate
FRAGILE	‘Fragile’ warning
HANDLE WITH CARE	‘Handle with care’ warning
NOT TO BE DROPPED	‘Not to be dropped’ warning
GROSS KG.	‘Gross weight’ value
NET KG.	‘Net weight’ value

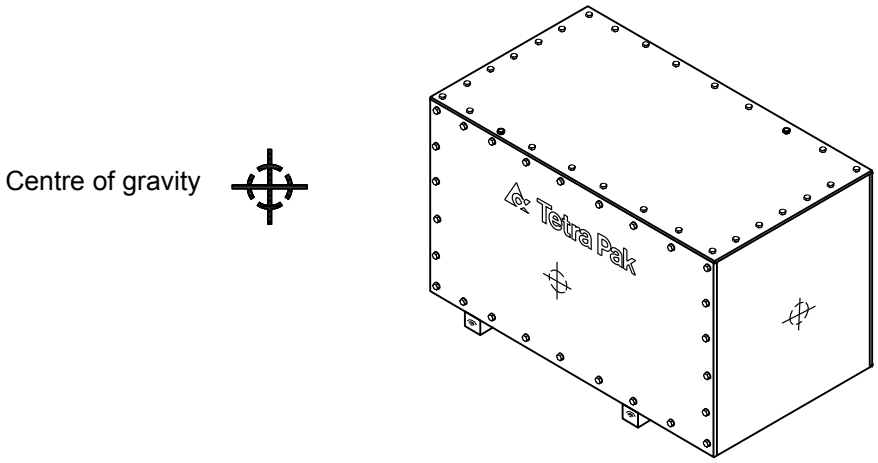
3.1.2.2 Centre of Gravity

The below illustration shows how the centre of gravity is indicated on a Tetra Pak crate.

WARNING

Example only.

The purpose of the illustration below is to give an example of how the centre of gravity is indicated on a crate! For information on the location of the centre of gravity for a specific crate, see the actual marks on the crate.



Centre of gravity, indication on the crate

3.1.2.3 Using an Overhead Gantry or Mobile Crane

WARNING

Example only.

The purpose of the illustration below is to give an example of how the lifting tackle symbols are indicated on a crate! For information on the location of the lifting tackle symbols for a specific crate, see the actual symbols on each crate.

DANGER

Immediate danger to life.

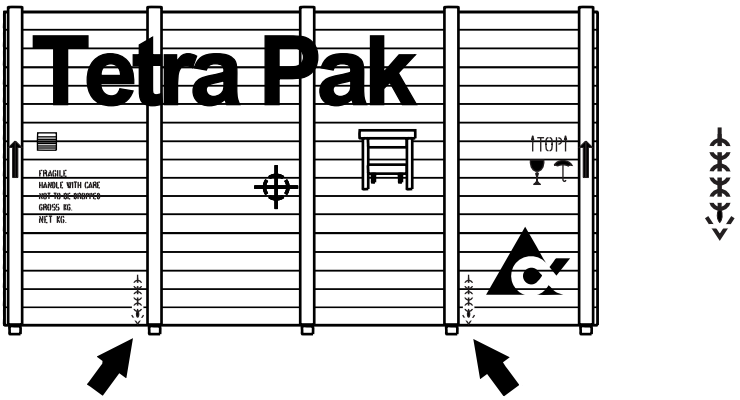
The crate may tilt if not observing the lifting tackle symbols. Failure to obey may result in immediate danger to life and/or major damage to equipment.

The crates are marked with lifting tackle symbols.

The lifting tackle must be passed under and fixed at these points when lifting the crate.

For capacity and length of the lifting tackle, see 2.2.2 Equipment for Lifting and Moving on page 2-8.

Use ropes or poles to steady and manoeuvre loads. Do **not** use hands or feet.



3.1.2.4 Using a Fork Lift

WARNING

Example only.

The purpose of the illustration below is to give an example of how the centre of gravity is indicated on a crate! For information on the location of the centre of gravity for a specific crate, see the actual marks on each crate.

DANGER

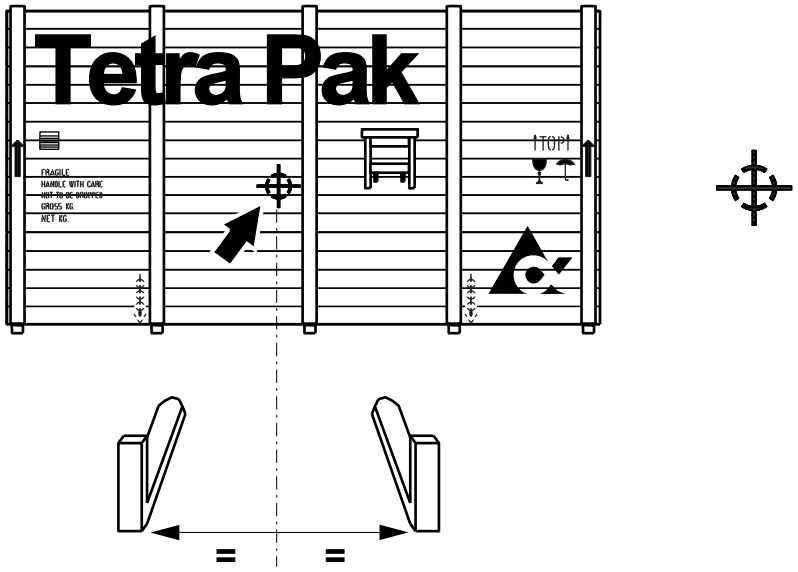
Immediate danger to life.

The crate may tilt if not observing the centre of gravity or the fork-lift points. Failure to obey may result in immediate danger to life and/or major damage to equipment.

The crates are marked with centre of gravity symbols.

The lifting forks must be positioned at equal distances from the centre of gravity symbol when lifting the crate. The forks should be set as wide as possible.

For the capacity, length and setting width of the lifting forks, see 2.2.2 Equipment for Lifting and Moving on page 2-8.



3.1.2.5 Guidelines for Moving the Crate

CAUTION

Move the crate slowly and gently.

a) Check that the crate can be moved to the storage or installation site without any problems regarding ceiling heights, doors, passages, etc.

b) Look through the customs inspection panel to see which way the contents are facing.

c) Lift the crate **only** enough to clear the floor.

d) Make sure the crate remains stable on the lifting equipment.

e) Lower the crate gently to the floor, leaving enough room around it for easy access to all sides.

f) Make sure the crate is firmly supported. Put blocks or plates under the crate, if required.

3.2 Storage

3.2.1 Storing the Crated Equipment

CAUTION
Risk of damage to the equipment.
Do not stack the crates on top of each other. Store the crates indoors. Exposure to damp or to high or low temperatures may damage the equipment.

a) Make sure that the storage environment respects the conditions specified in the table below.

b) Store the crates with about 1000 mm (3 ft) of free access space around and above for access and ventilation.

c) If the floor under the crates is uneven, place blocks or plates under them to provide a steady support

Contents	Recommended Storage Temperature	Recommended Storage Humidity	Notes
Main Crate	10 to 30°C (50 to 86°F)	< 80%	
Second Crate			

3.2.2 Storing the Uncrated Equipment

Make sure that the storage environment respects the conditions specified in the table below.

Contents	**Recommended storage temperature**	**Recommended storage humidity**	**Notes**
Machine	-20 to 70°C (-4 to 158°F)	10 - 95%	Keep dry to prevent condensation and corrosion on connections inside the electrical cabinet.
Cardboard	0 to 30°C (32 to 86°F)	Appr. 65%	Order of consumption: First in - First out
Hotmelt adhesive	10 to 30°C (50 to 86°F)		The hotmelt can be stored for a maximum of one year. Avoid dust and damp in the storage facility. Order of consumption: First in - First out

3.3 Unpacking and Inspection

This section contains information needed for safe and efficient unpacking of the machine. The following information is supplied:

- required tools and equipment
- unpacking sequence
- inspection documentation
- disposal / re-use of used material

WARNING

Risk of personal injury.

Follow the recommendations in the following section to avoid injury when unpacking the machine.

3.3.1 Unpacking Area

The minimum unpacking area must be at least twice the size of the main crate. This only allows an area large enough for one crate to be unpacked at a time.

3.3.2 Unpacking Sequence

To uncrate the machine, perform the following steps:

a) Before removing any bolts, position a fork-lift truck (1) to protect the front from falling (direction of the forks indicated with arrow in the illustration).

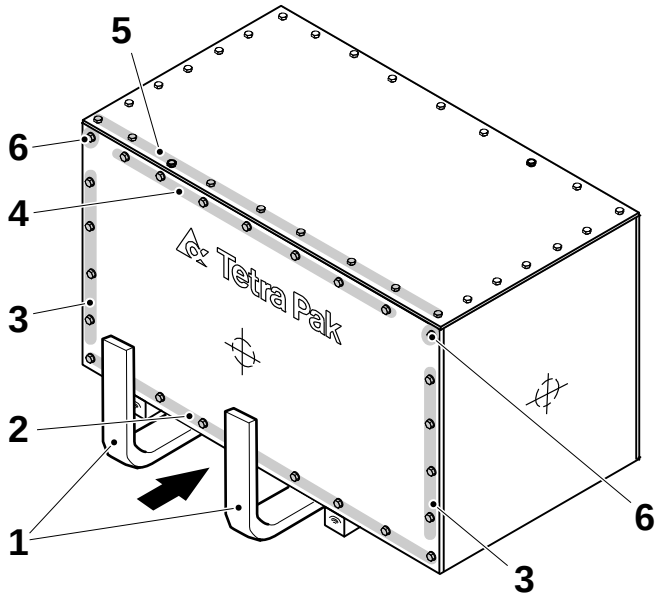
b) Remove the bolts for the front in the sequence (2), (3), (4) and (5).

WARNING

Risk of personal injury.
When loosening the left and right top bolt (6), the front as well as loose machine parts may fall out.

Note! Do **not** remove the corner bolts (6) yet!

c) Make sure that the fork-lift truck (1) is close to the front.

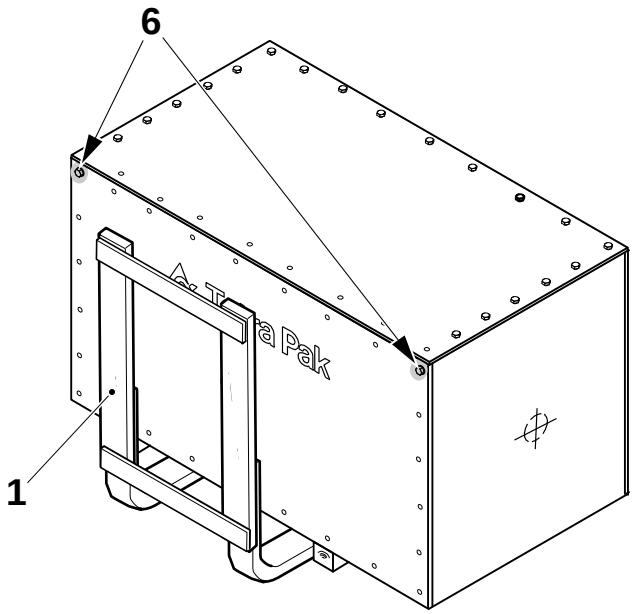


1 Fork-lift truck
2 Bolt
3 Bolt
4 Bolt
5 Bolt
6 Bolt

(Cont'd)

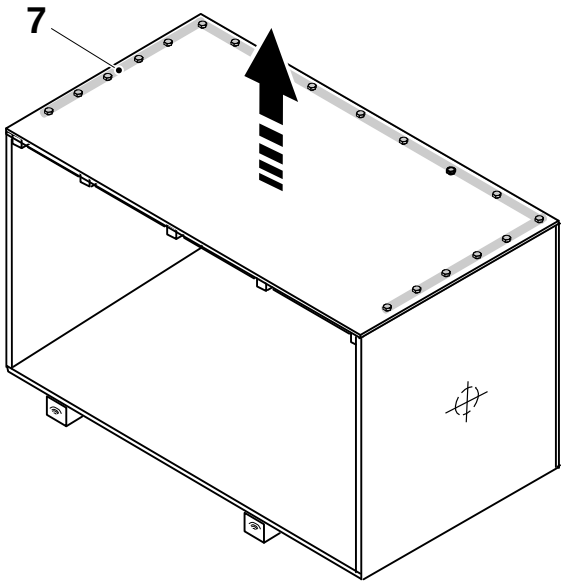
(Cont'd)

d) Remove the bolts (6) and lower the front against the fork-lift truck.



1 Fork-lift truck
6 Bolt

e) Remove the remaining bolts (7) and use the fork-lift truck to take off the top lid.

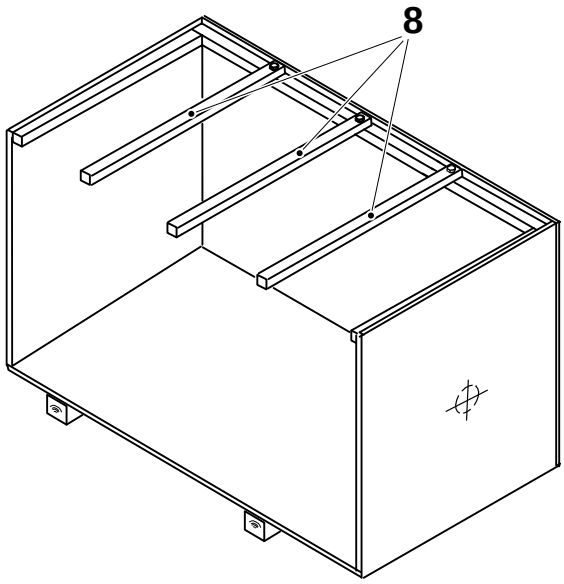


7 Bolt

(Cont'd)

(Cont'd)

f) Remove the cross beams (8). The number and location of cross beams (8) may vary depending on the machines variant.



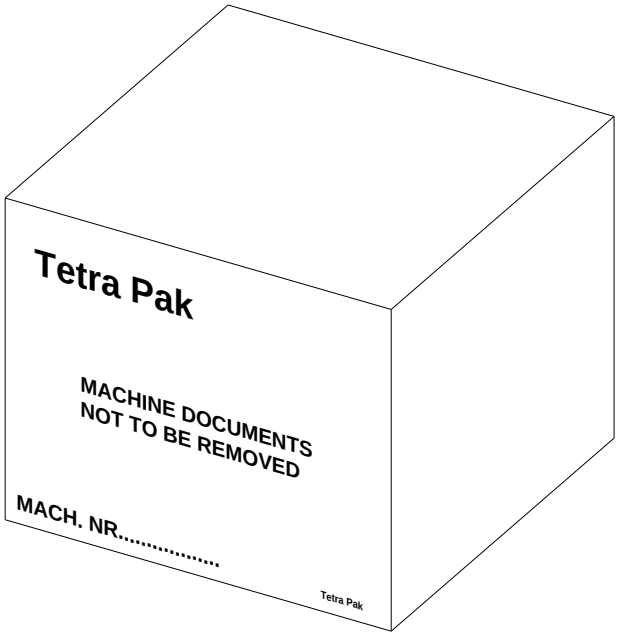
8 Cross beam

3.3.3 Inspection

a) Use the packing list to check that nothing is missing.

b) Inspect the machine and the accessories for damage.

c) Open the machine document box and check that the documentation corresponds with the machine and the machine number.



Separate Components

Place all separate components in a location where they will not disturb the installation work and the normal plant activities. If possible do not remove any transportation protections until the components are required.

3.3.4 Inspection Documentation

Note! No claims will be accepted for machines in commercial production if the **Start-Up Machine Quality Report** (SUMQR) has not been returned to the manufacturer.

Compile the:

- **Transport Damage Report** (a section of the SUMQR).
  If no damage has occurred during transport, state “NO TRANSPORT DAMAGE”.
- **Feedback from MC** form **only in case of claims on the equipment**.
  For further information about claims see the **Claim and Complaint Handling** procedure, available from the local Service Organisation.

3.3.5 Disposing of Reusable Materials and Waste

Note! Packing materials (including crates, wrapping and boxes) are not normally returned to the manufacturer.

a) Check with the customer if there is a special agreement for the return of the packing to the manufacturer.

b) If the packing must be returned to the manufacturer, prepare an area to store the crates and other returnable packing.

c) Check with the customer if there is a special agreement for recycling packing.

d) If packing has not to be recycled, check with the customer how to separate and dispose of packing (wood, plastic, paper, etc.).

e) Dispose of pollutant waste (bubble wrapping, plastic bags, expanded polystyrene, etc.) in accordance with local regulations.

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4 Positioning, Assembly and Connections

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Positioning, Assembly and Connections - Description

This chapter describes the installation of the equipment.

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4.1.2 Set the Machine Height . . . . . 4 - 6
4.1.3 Levelling . . . . . 4 - 7
4.2 Assembly . . . . . 4 - 8
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4.1 Space Requirements

The space requirements for this machine are given in the installation drawings shown in chapter 1 Technical Data and Drawings.

CBP 30 Speed and its extra equipment do not require any extra space for pre-assembly procedures.

4.1.1 Positioning

Check that the machine can be transported to the assembly site without any problems as regards ceiling height, doors, passages, etc.

DANGER

Immediate danger to life.

The machine may tilt if the centre of gravity and the fork lift points are not observed. Failure to obey may result in immediate danger to life and/or major damage to the equipment.

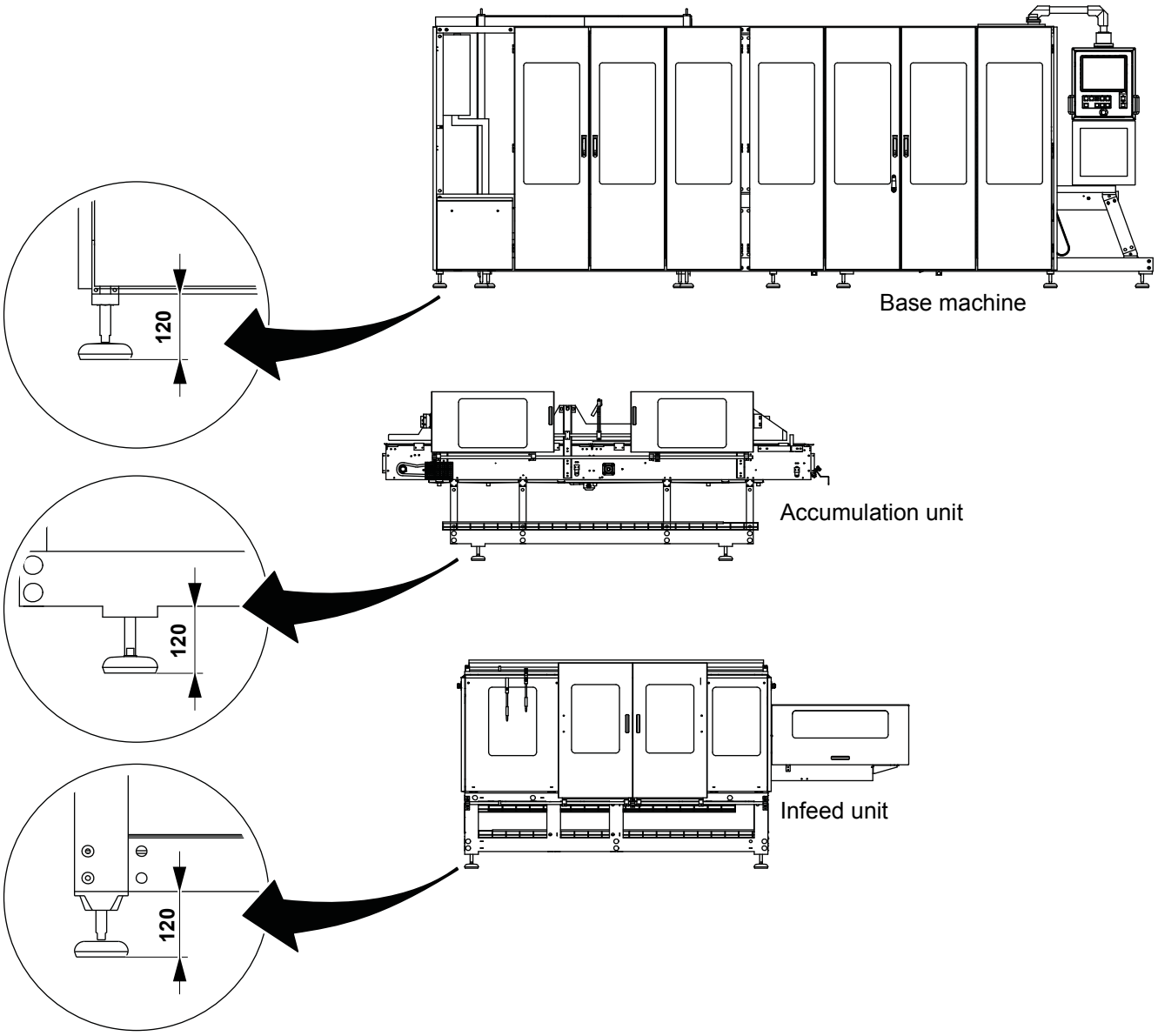
Make sure that the equipment can be lifted and moved in accordance with sub-section 1.2.1 Centre of gravity.

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4.1.2 Set the Machine Height

In order to facilitate the levelling later on, as a basic setting, set the feet of each unit, as follows:

- lift the equipment only enough to clear the crate, see 1.2.2 Fork-lift Position on page 1-24.
- move the equipment out of the crate
- set the feet at 120 mm.



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4.1.3 Levelling

Make sure to level each group of the machine using a spirit level. Place the spirit level on the cross beams as well as on the longitudinal beams. If necessary, adjust by turning the machine's feet. The position of the machine's feet is shown in sub-section 1.1.8 Machine Feet Locations on page 1-11.

Note! It could be variations in floor height that can complicate the levelling process.

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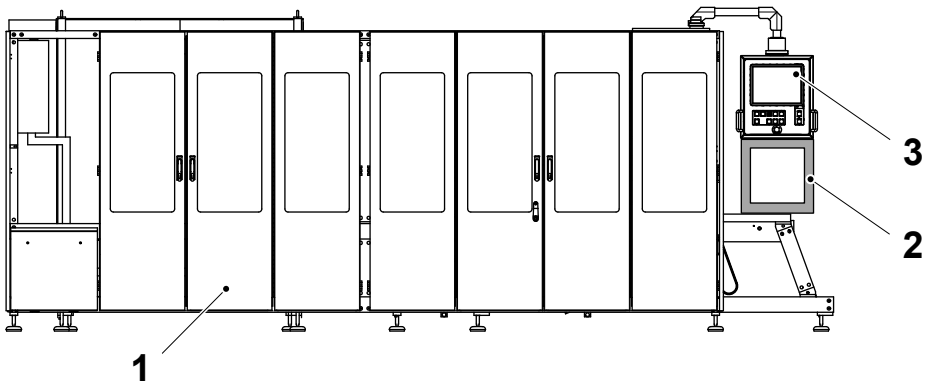
4.2 Assembly

The following sections contain the correct procedures for assembling the equipment components.

4.2.1 Base Unit in Position

a) Place the base unit (1) in position according to the 1.1 Installation Drawings.

b) Remove the strips and the wooden support (2) holding the TPOP (3).

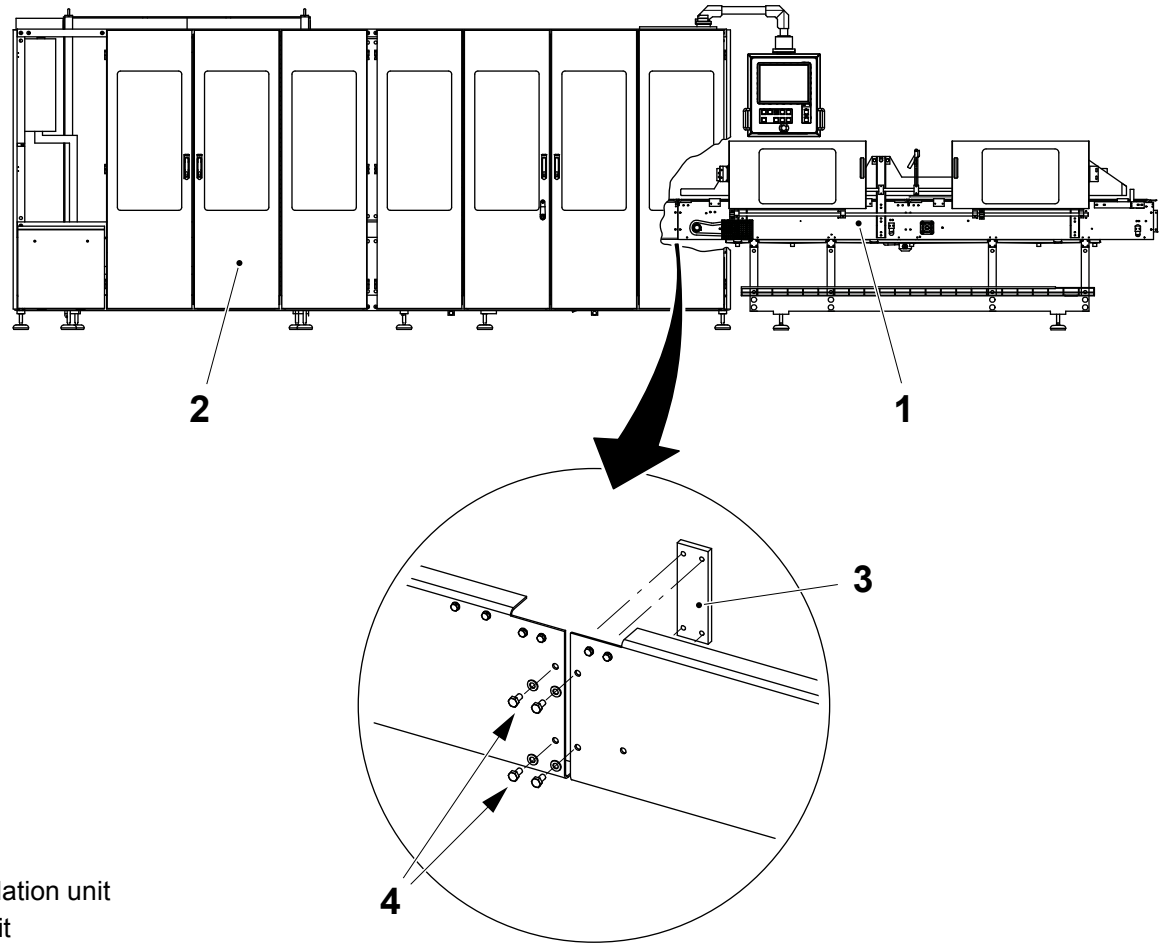


1 Base unit
2 Wooden support
3 TPOP

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4.2.2 Accumulation Unit Connection

Place the accumulation unit (1) in front of the base unit (2), then on both sides of the machine, connect the two units using the two plates (3) and the screws (4).

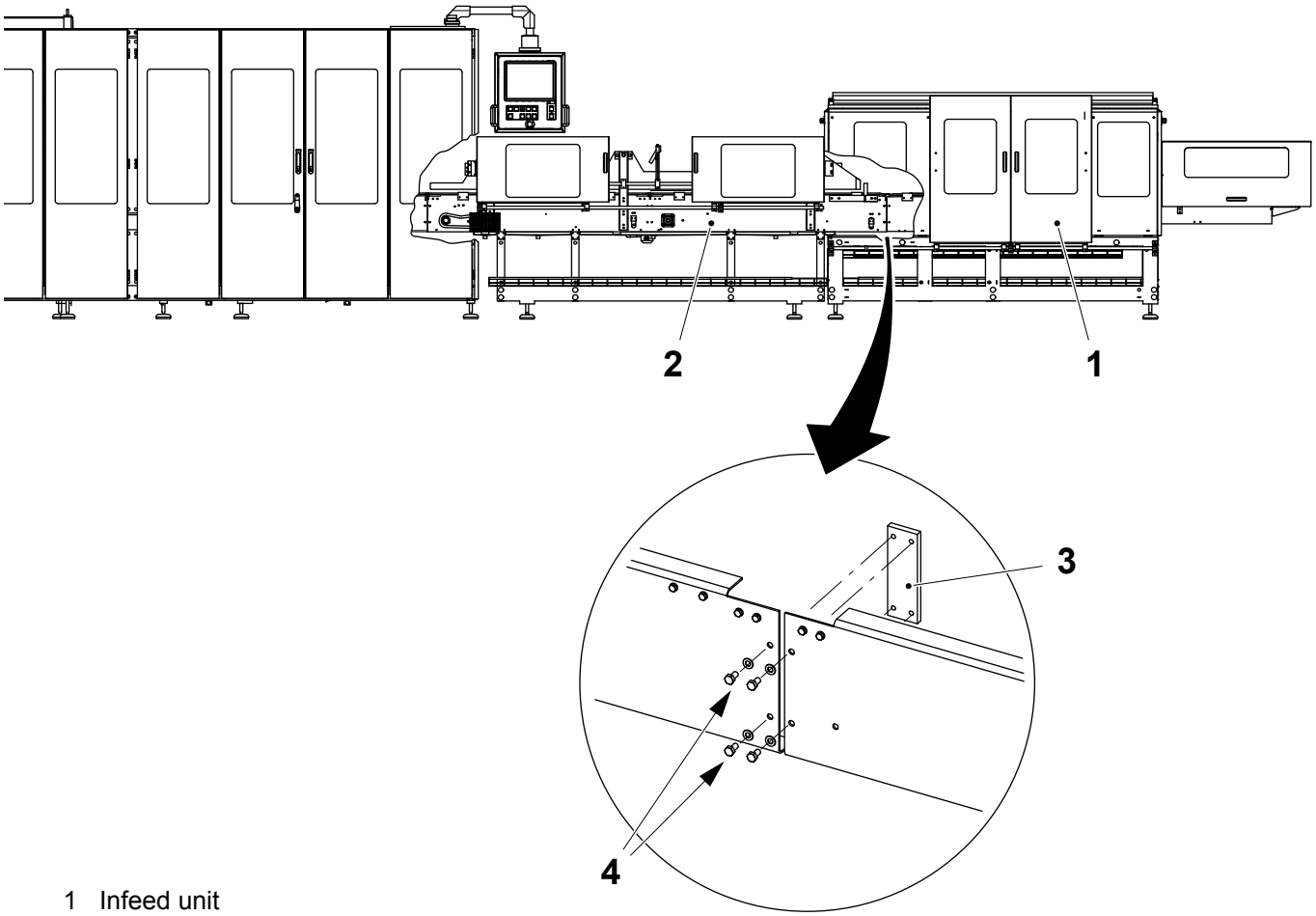


1 Accumulation unit
2 Base unit
3 Plate
4 Screw

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4.2.3 Infeed Unit Connection

Place the infeed unit (1) in front of the accumulation unit (2), then on both sides of the machine, connect the two units using the two plates (3) and the screws (4).



1 Infeed unit
2 Accumulation unit
3 Plate
4 Screw

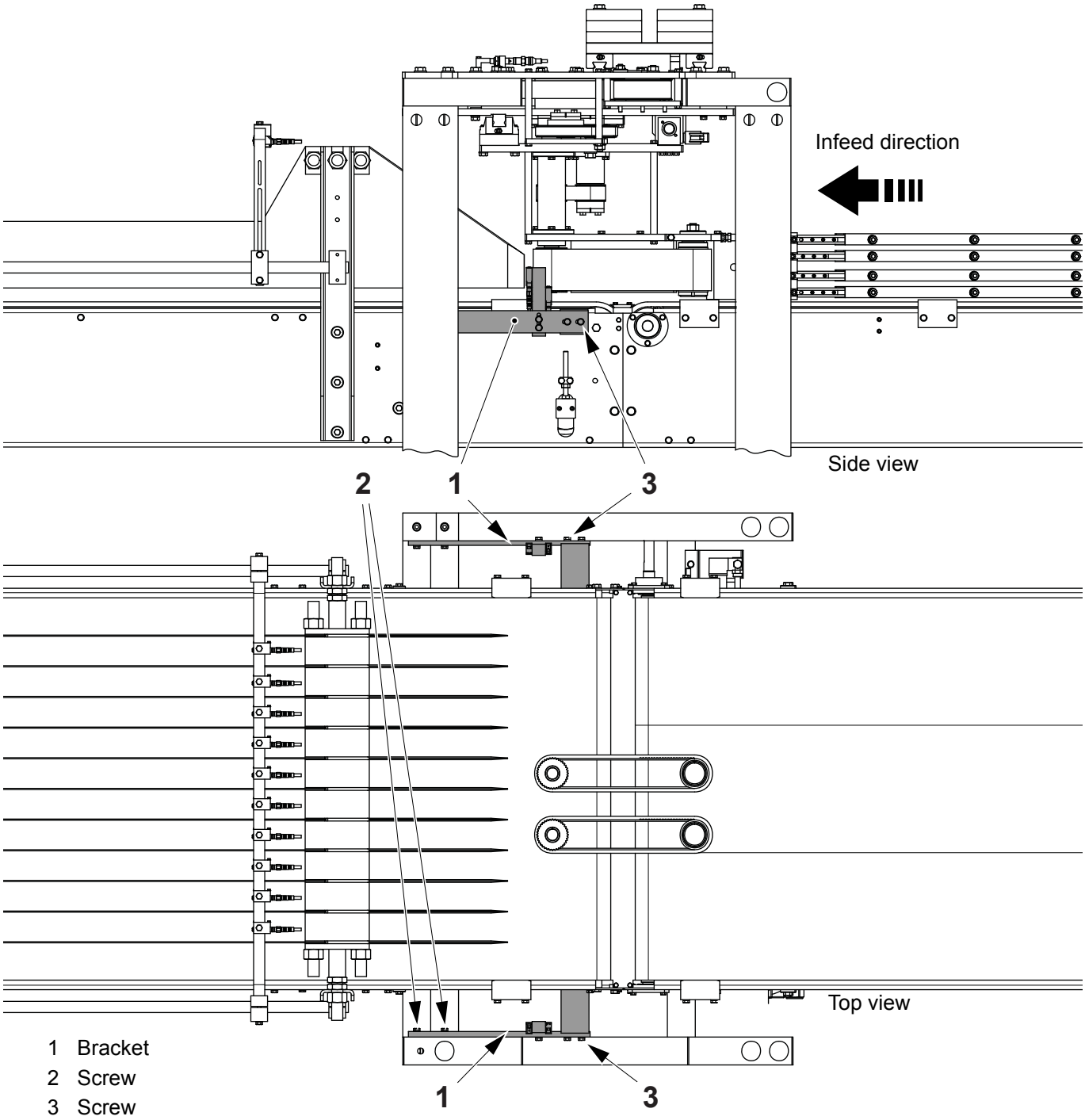
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Divider Counting Photocells

On both sides, fit the two brackets (1) with the counting photocells using the screws (2) and (3). If necessary see the EM for the electrical connection of the counting photocells. Make sure to set the position of the counting photocells according to the MM.



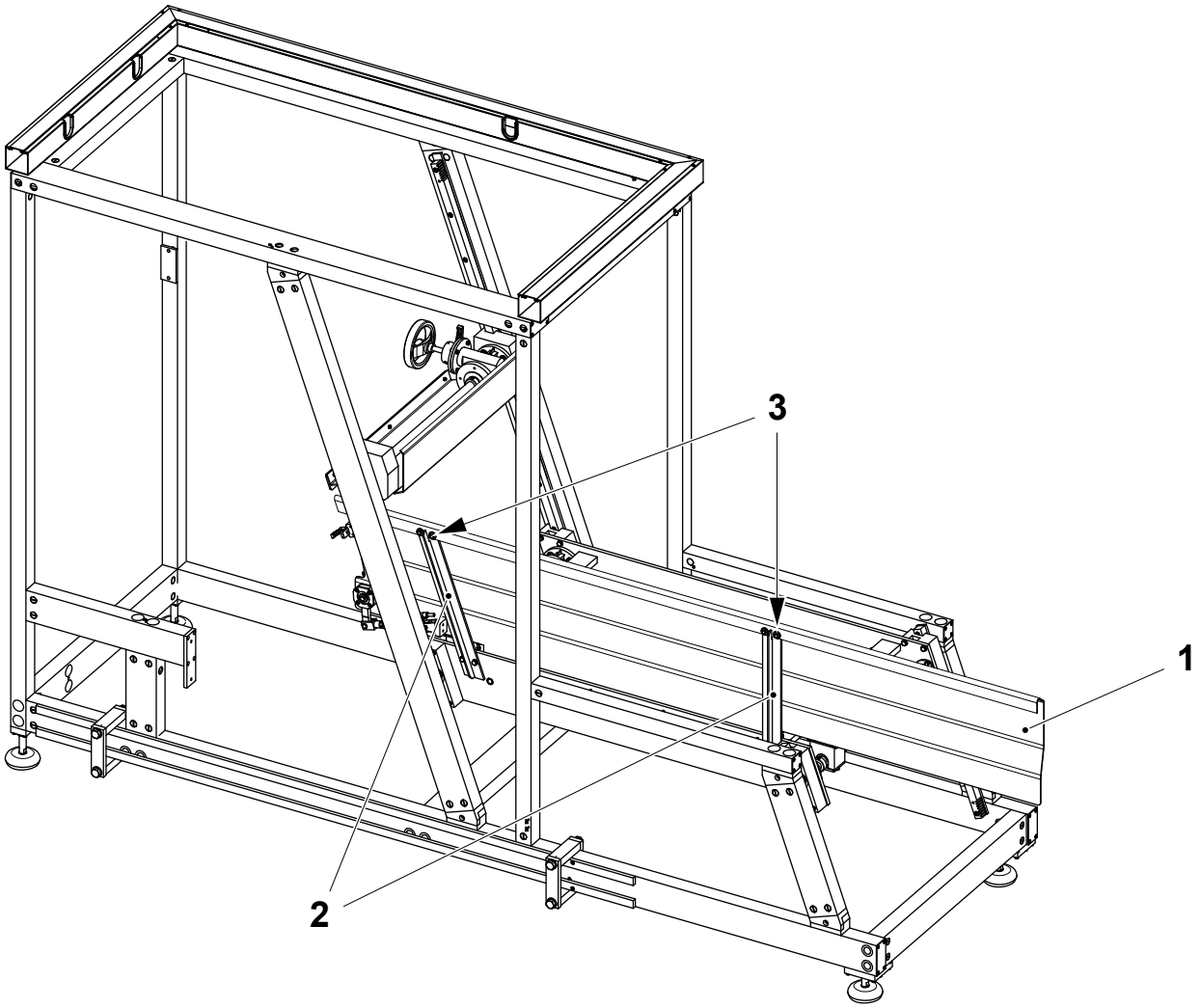
1 Bracket
2 Screw
3 Screw

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4.2.4 Carton Magazine Guides

Guides - Installation

a) Fit the fixed guide (1) to the two supports (2) using the screws (3).



1 Fixed guide
2 Support
3 Screw

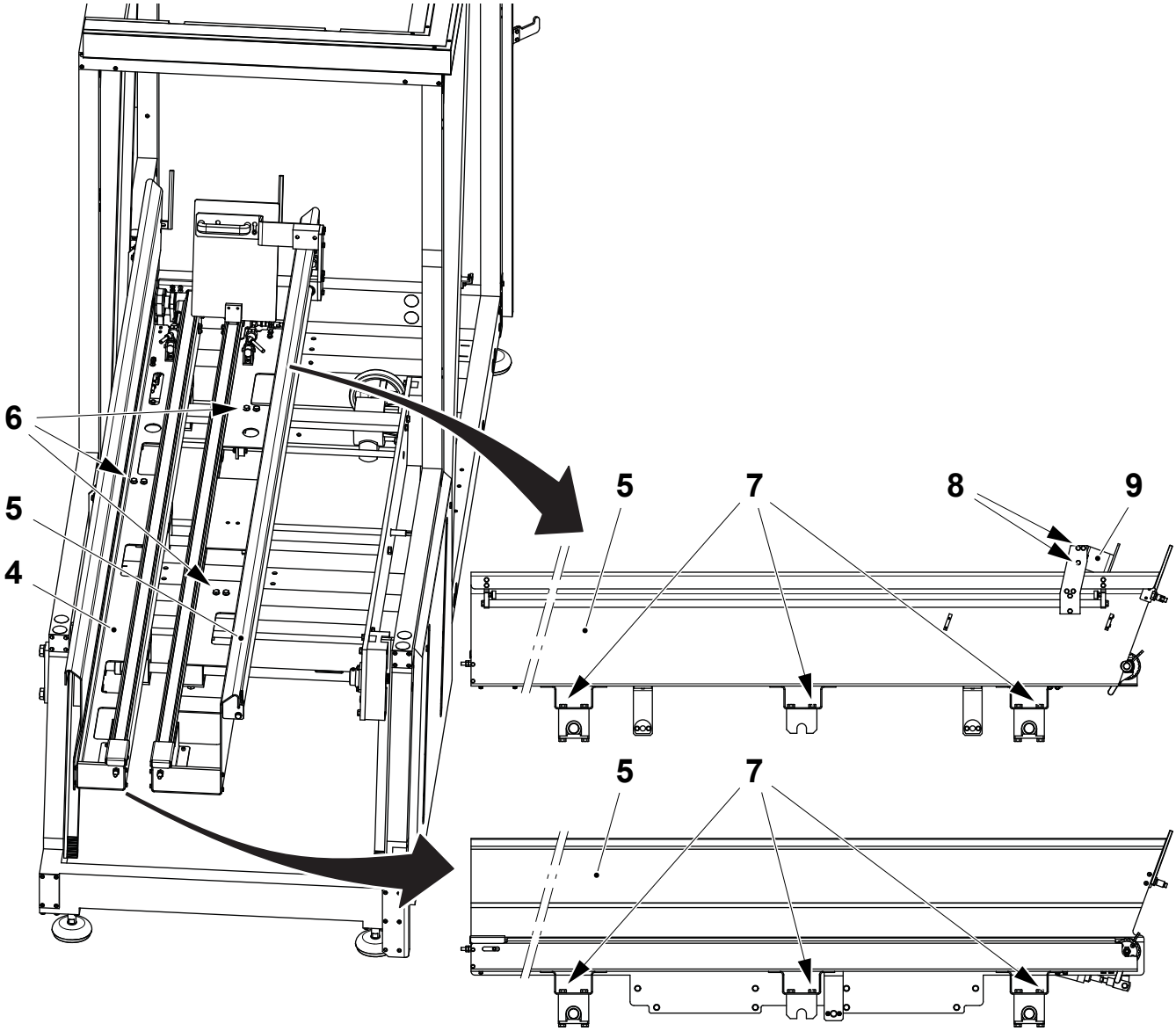
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(Cont'd)

b) Fit the belt group (4) and the adjustable guide (5) using the screws (6) and (7).

c) Fit the support (9) with the screws (8).



4 Belt group
5 Adjustable guide
6 Screw
7 Screw
8 Support
9 Screw

(Cont'd)

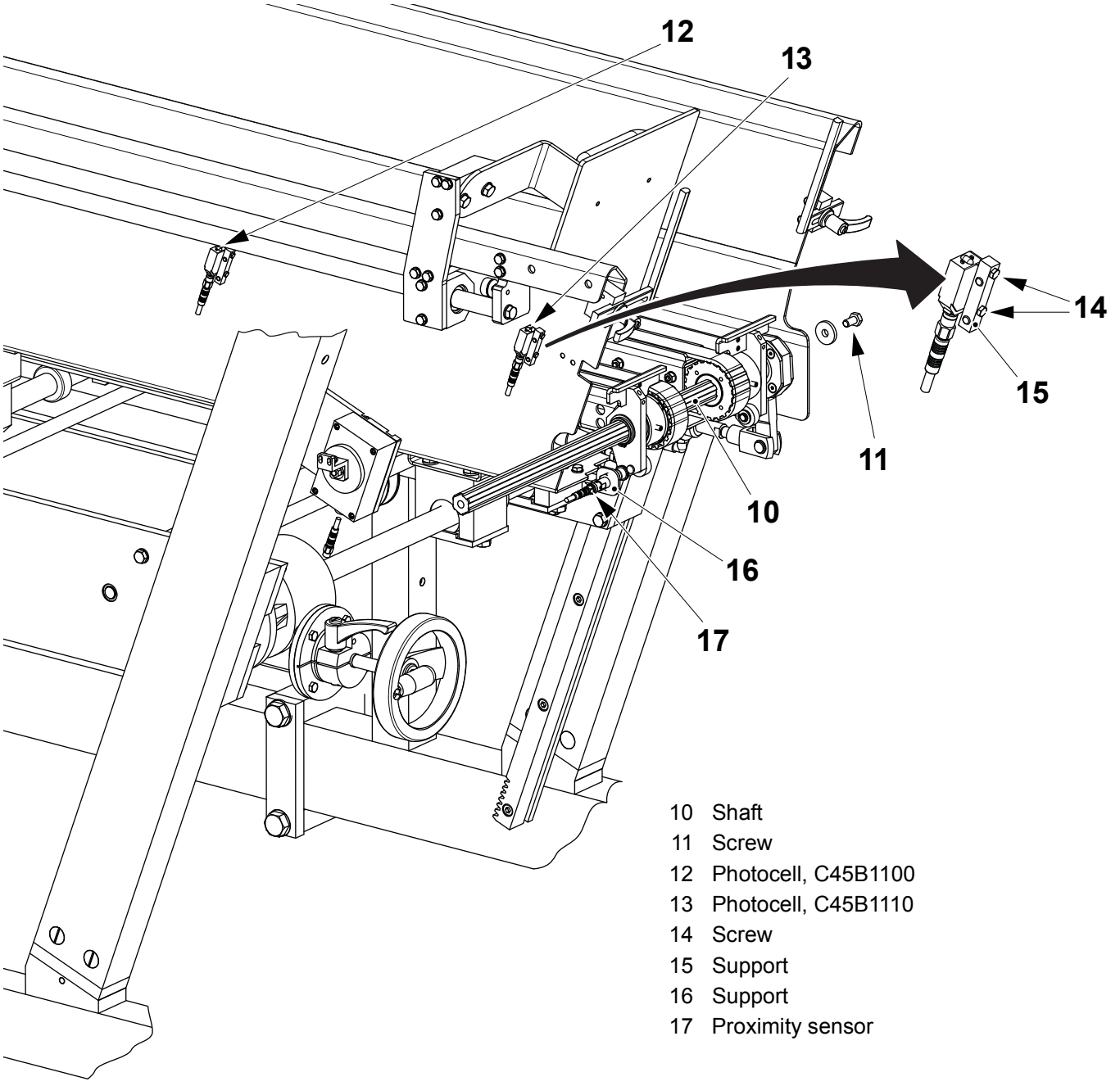
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(Cont'd)

d) Insert the shaft (10), then block it in position with the washer and the screw (11).

e) Fit the photocells (12) and (13) to the supports (15) with the screws (14).

f) Fit the proximity sensor (17) on the support (17) with the nuts.



10 Shaft
11 Screw
12 Photocell, C45B1100
13 Photocell, C45B1110
14 Screw
15 Support
16 Support
17 Proximity sensor

(Cont'd)

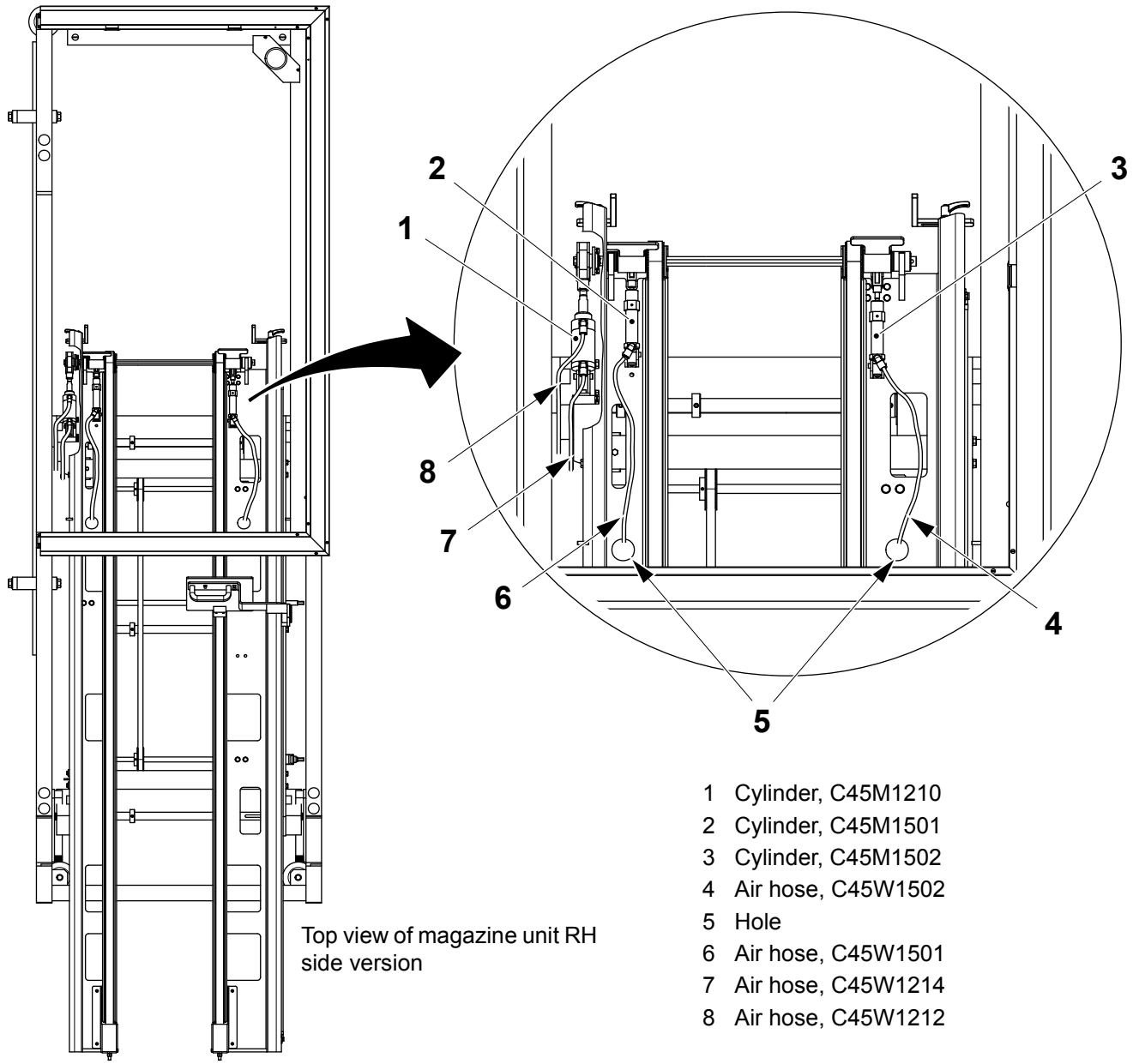
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Cylinders - Pneumatic Connection

According to the pneumatic diagram perform the following connections:

- connect the air hoses (7) and (8) to the cylinder (1)
- connect the air hose (6) to the cylinder (2) and the air hose (4) to the cylinder (3), making pass the air hoses (4) and (6) through the holes (5).



Top view of magazine unit RH side version

1 Cylinder, C45M1210
2 Cylinder, C45M1501
3 Cylinder, C45M1502
4 Air hose, C45W1502
5 Hole
6 Air hose, C45W1501
7 Air hose, C45W1214
8 Air hose, C45W1212

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4.2.5 Cooling Unit

In order to crate the machine, the cooling unit has been disassembled.

WARNING

Refrigerant gas.

Cooling media R134A. Carefully follow the supplier's instructions.

WARNING

Risk of personal injury.

If a compressor leakage occurs in the cooling system this may cause serious freezing injuries if it comes in contact with bare skin.

In the case of compressor leakages, only trained personnel are allowed to handle the unit. Ensure good ventilation. Keep the container well closed and in a cool and dry place away from any sources of heat. Avoid direct contact with the product. Wear suitable protective clothing, gloves, goggles, face and eye protection.

In case of contact with eyes, rinse immediately with plenty of water for 15 minutes and call for medical attention. Inhalation of a high concentration can cause shortage of breath and unconsciousness. In case of inhalation move into fresh air. If needed, use an oxygen or artificial respiration.

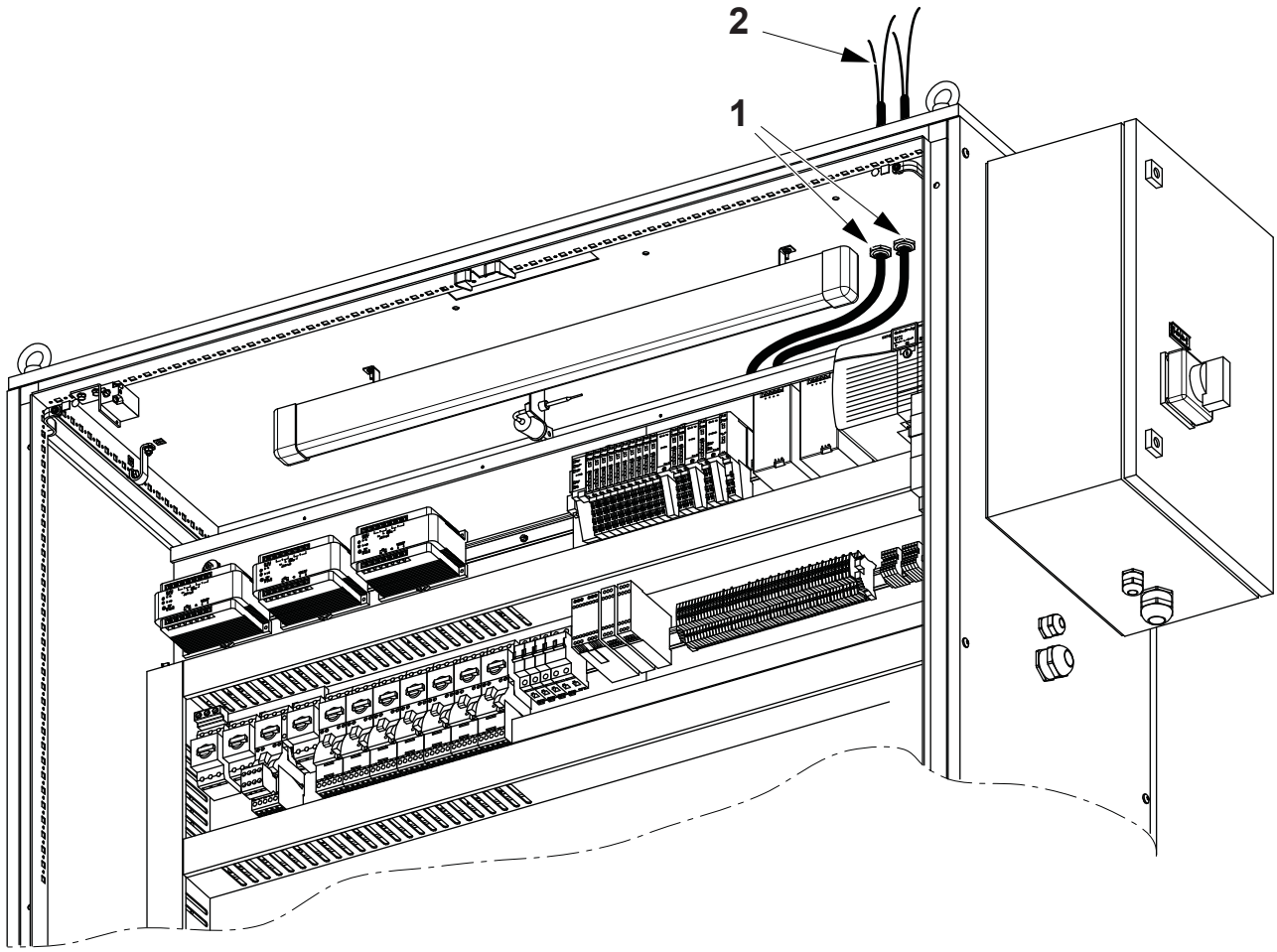
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(Cont'd)

Cooling Unit - Installation

a) Make sure that the cables (2) pass through the two cable glands (1).



1 Cable gland
2 Cable

(Cont'd)

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(Cont'd)

b) Place the gasket (3) according to the holes and the slots, over the electrical cabinet.

WARNING

Risk of personal injury.

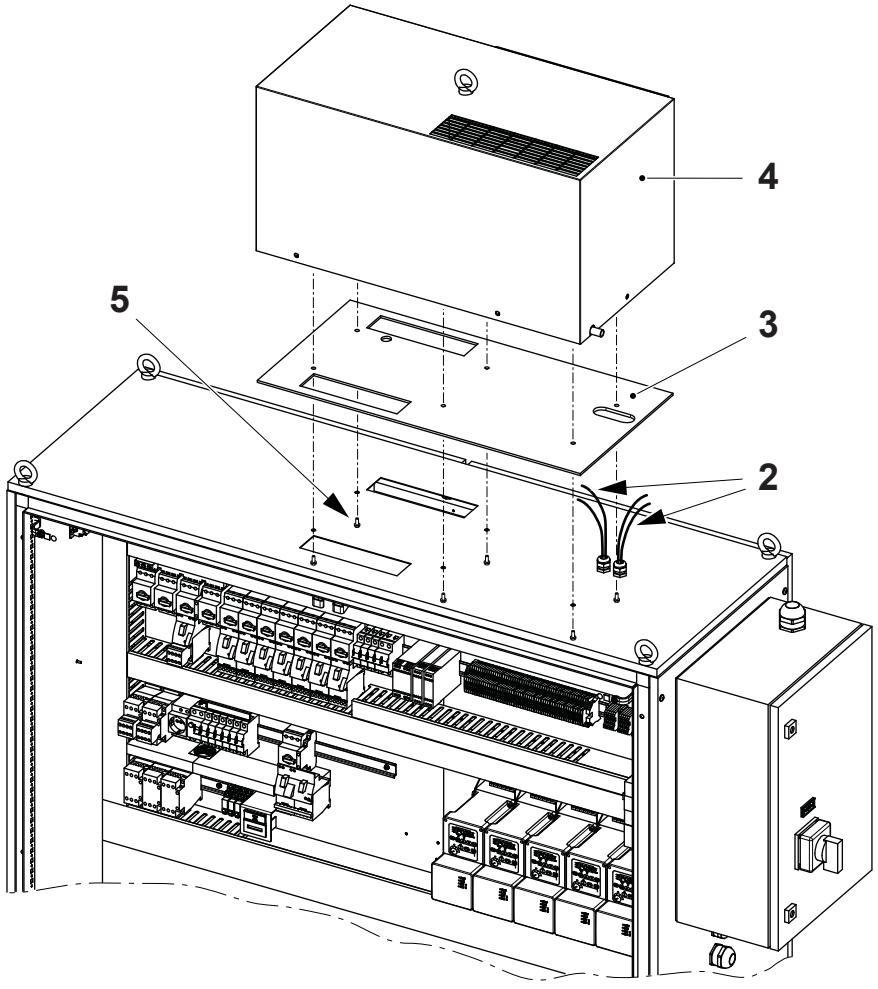
The weight of the cooling unit (4) is 63 kg (138 lbs). Use an appropriate lifting equipment to move the unit on the electrical cabinet.

c) Lift the cooling unit (4) above the electrical cabinet.

d) Carefully lower the cooling unit (4) on the electrical cabinet, making sure that the gasket (3) is in place and the cables (2) pass through the existing holes in the bottom of the cooling unit (4).

e) Fit the cooling unit (4) using the six screws (5) from inside the electrical cabinet.

f) Connect the cables (2), see the EM for more information.



2 Cable
3 Gasket
4 Cooling unit
5 Screw

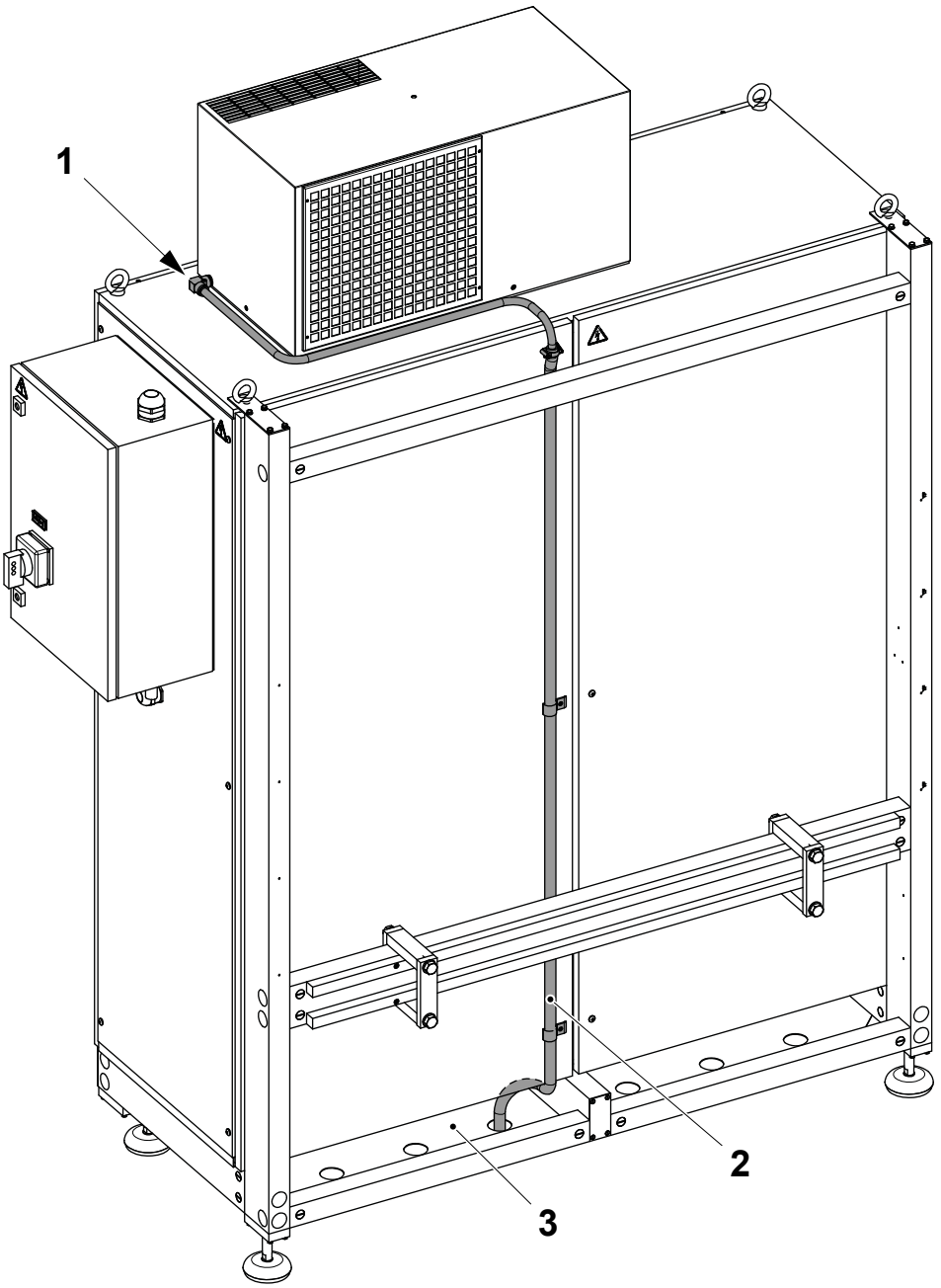
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(Cont'd)

Drain Hose - Connection

Make sure that the elbow joint (1) is connected to the cooling unit and that the drain hose (2) runs along the backside of the electrical cabinet until the end passes through one of the holes existing in the plate (3), as shown below.

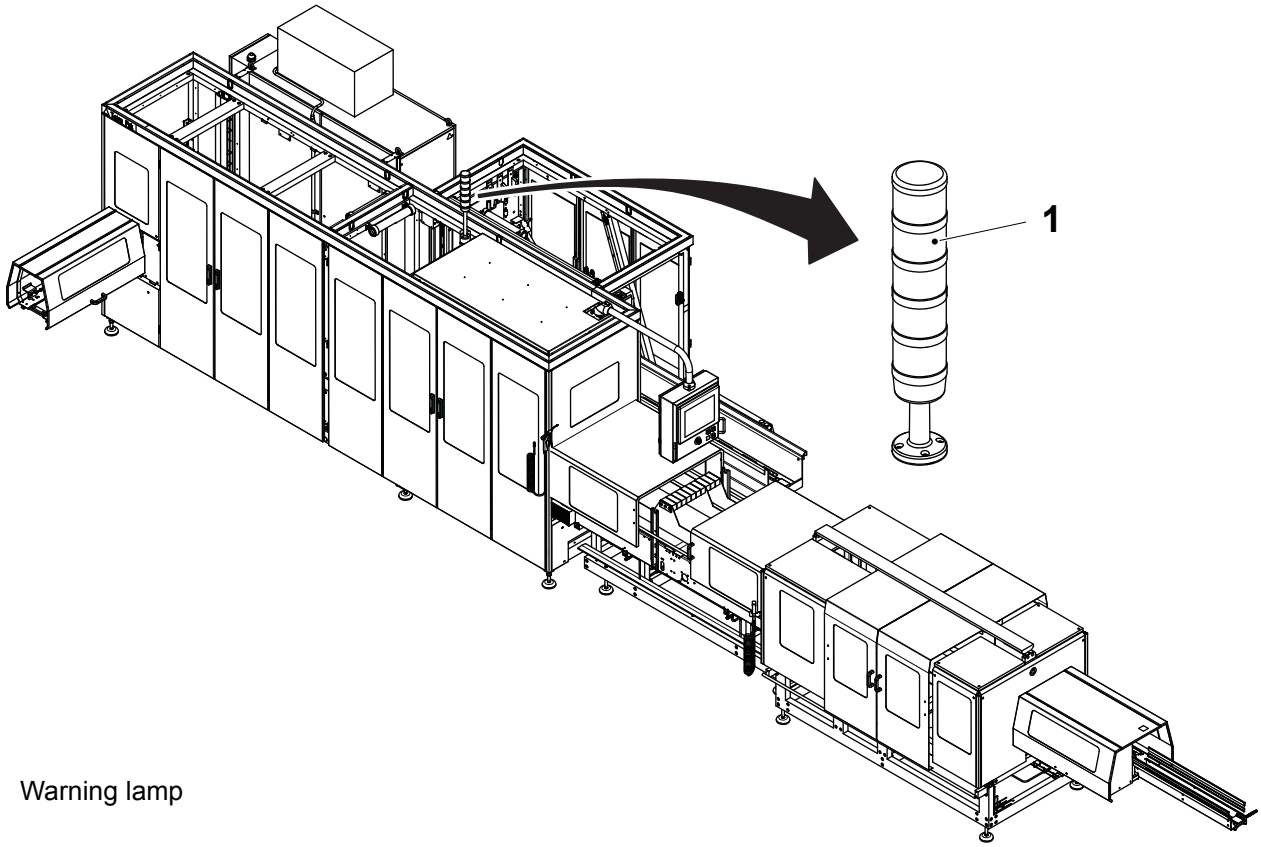


1 Elbow joint
2 Drain hose
3 Plate

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4.2.6 Warning Lamp

In order to crate the machine, the warning lamp (1) has been disassembled, fit the warning lamp (1) using the fixing screws.



1 Warning lamp

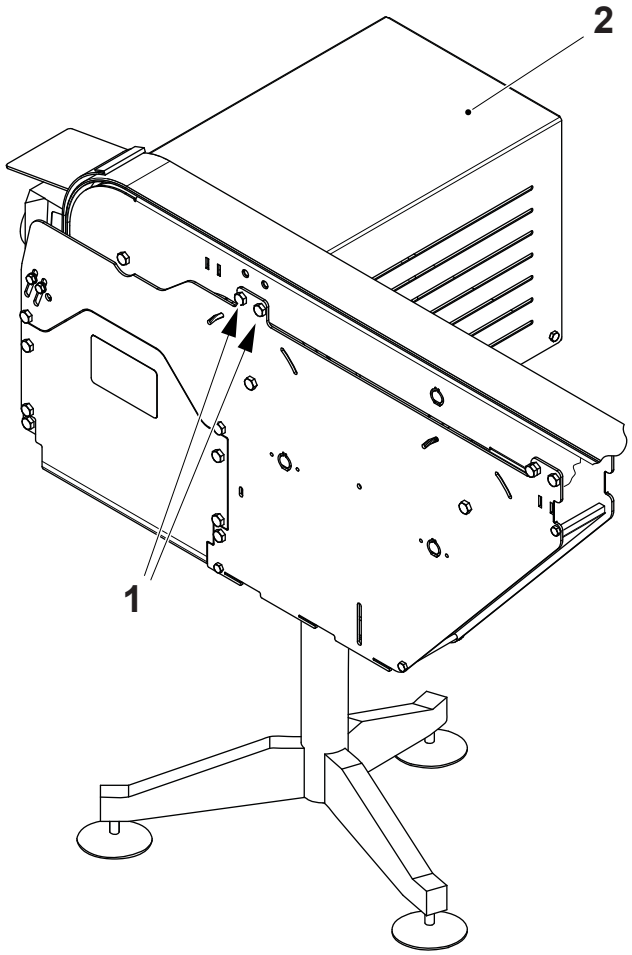
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4.2.7 Infeed Conveyor

Note! Different type of infeed conveyors can be installed on the machine, for the UC 24 see the instructions on page 4-24.

Installation Valid for PC 23

a) Remove the two screws (1) from the drive unit (2).



1 Screw
2 Drive unit

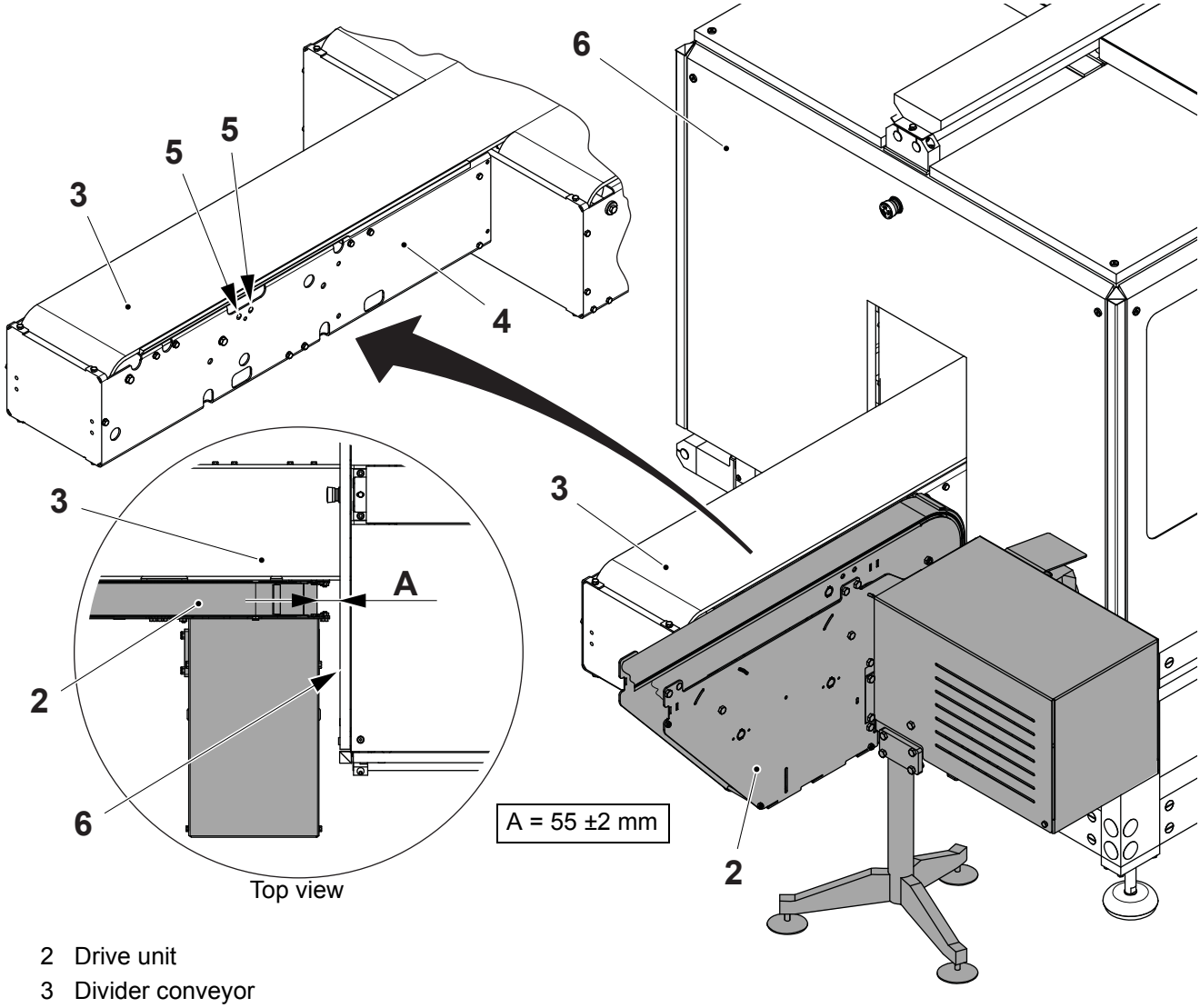
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(Cont'd)

b) Accost the drive unit (2) to the divider conveyor (3), making sure that the end of the drive unit (2) is placed at the distance **A** from the cover (6), in order to align the slots and the holes existing on the plate (4) with the screws existing on the side of the drive unit (2).

c) From the inside of the plate (4) and passing through the holes (5), use the two screws previously removed to connect the drive unit (2) to the divider conveyor (3).



2 Drive unit
3 Divider conveyor
4 Plate
5 Hole
6 Cover

(Cont'd)

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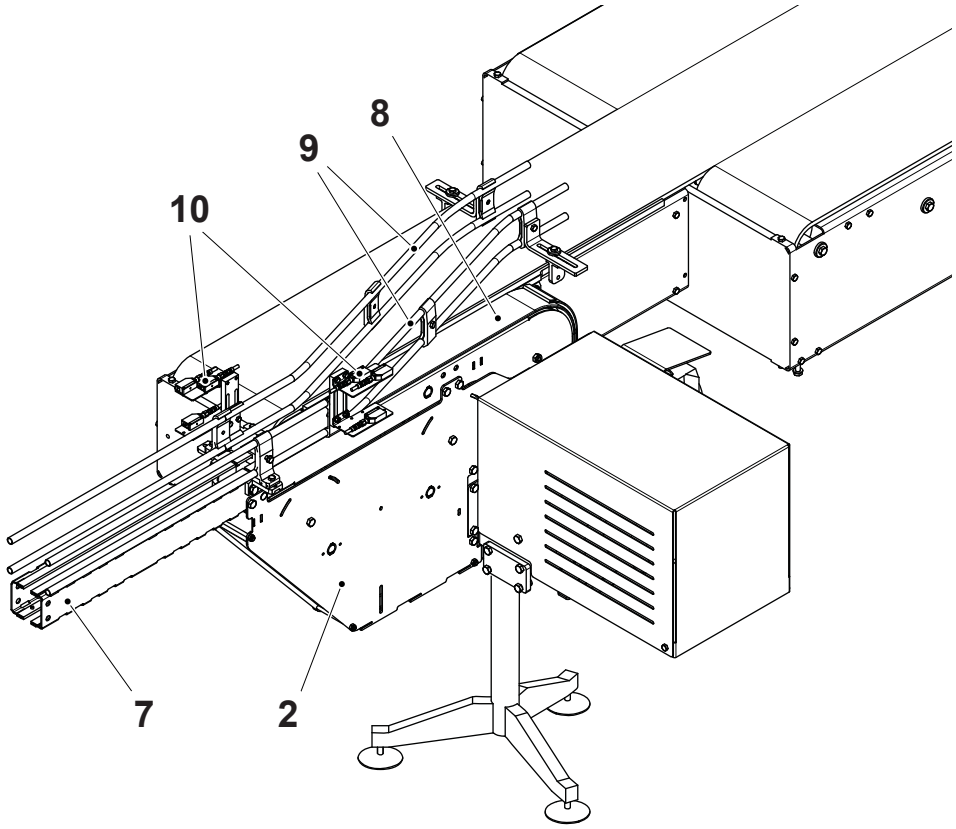
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d) For the connection of the line conveyor (7) and for the installation of the chain conveyor (8) in the drive unit (2), see the TeM of the Package Conveyor 23 for more information.

e) Fit the guides (9) and the photocells (10).

f) Set the position of the photocells (10), see 1.1.9.1 General for Infeed on page 1-12.

g) Continue following the instructions described in Installation of Infeed Tunnel on page 4-27.



2 Drive unit
7 Line conveyor
8 Chain conveyor
9 Guide
10 Photocell

(Cont'd)

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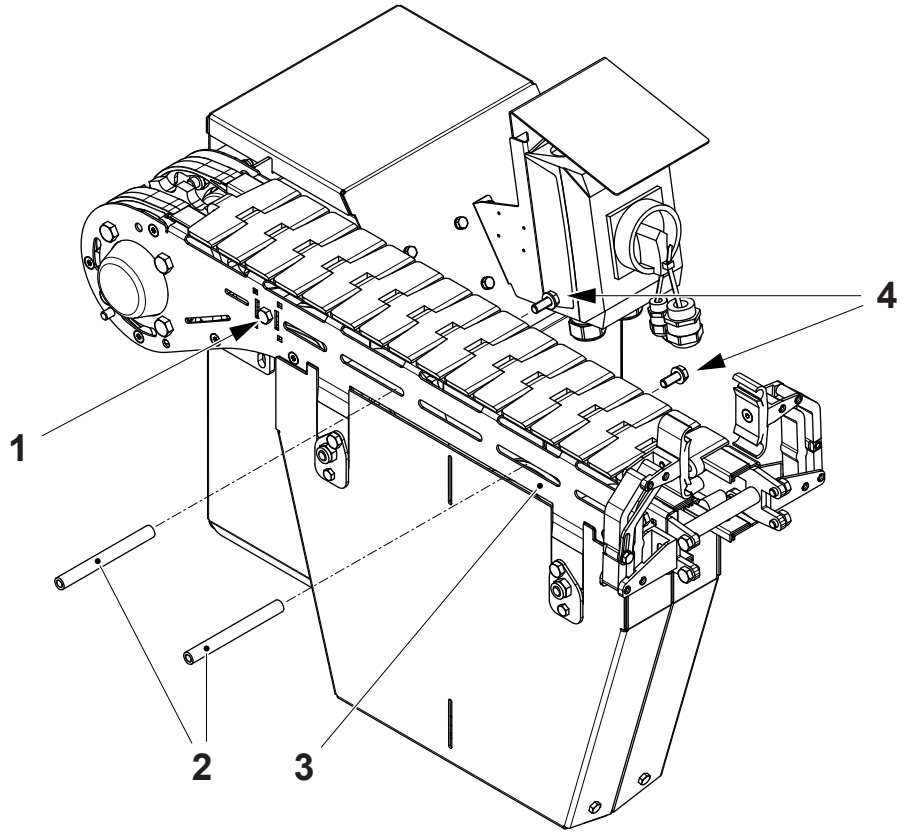
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Installation Valid for UC 24

Note! The UC 24 is supplied as a standard for the machines produced starting from T-order 75723/00038.

a) Remove the screw (1).

b) Insert and fit the two spacers (2) inside the conveyor body (3) using the two screws (4) on the others side. Do not fully tighten the two screws (4).



1 Screw
2 Spacer
3 Conveyor body
4 Screw

(Cont'd)

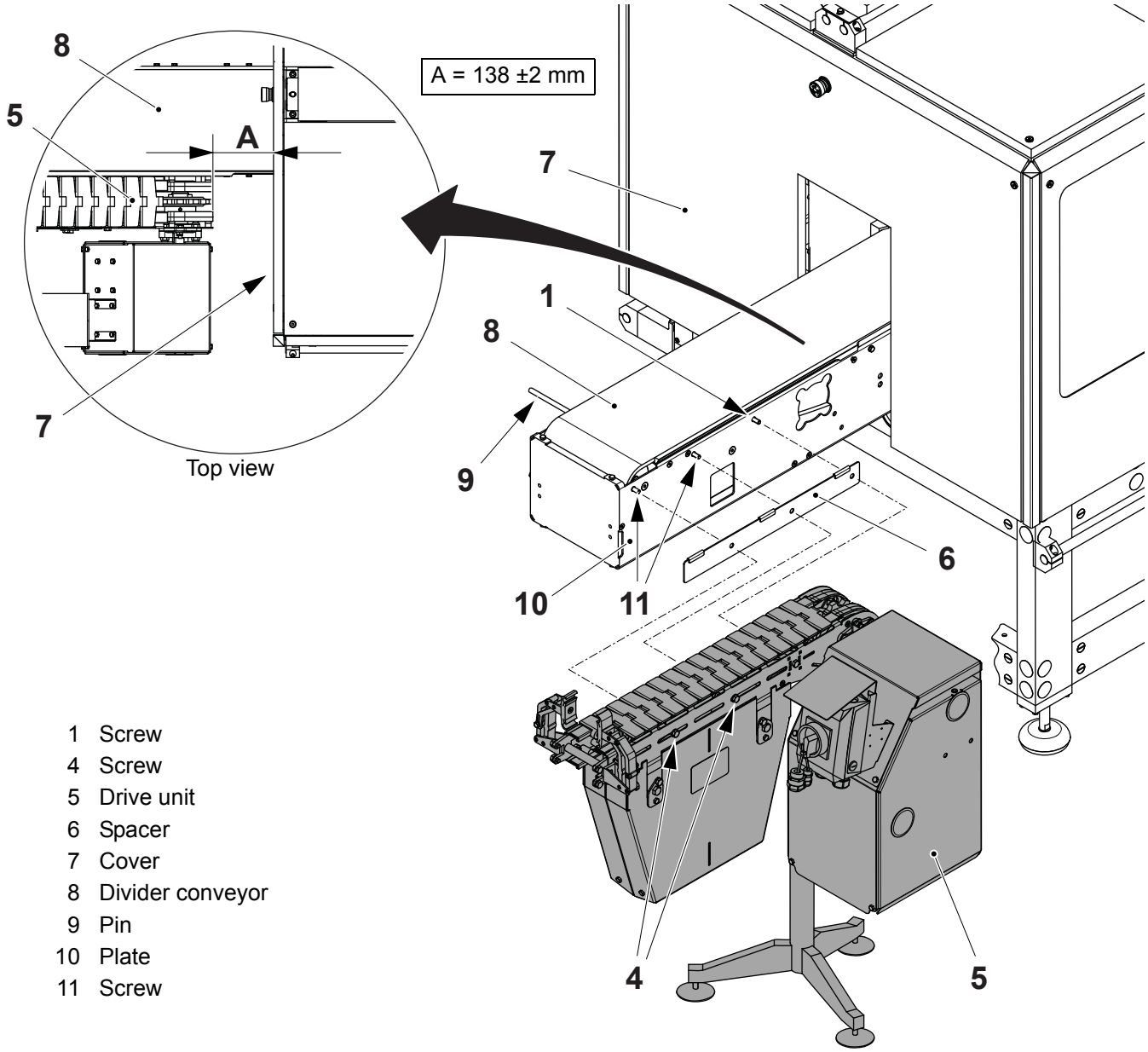
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(Cont'd)

c) Open the chain of the divider conveyor (8) by taking out a pin (9).

d) Accost the drive unit (5) and the spacer (6) to the divider conveyor (8), making sure that the end of the drive unit (5) is placed at the distance **A** from the cover (7), in order to align the slots and the holes existing on the plate (10) with the screws existing on the side of the drive unit (5).

e) From the inside of the plate (10) use the three screws (11) and (1) to connect the spacer (6) and the drive unit (5) to the divider conveyor (8), if necessary adjust the position of the screws (4). Tighten all the screws.



1 Screw
4 Screw
5 Drive unit
6 Spacer
7 Cover
8 Divider conveyor
9 Pin
10 Plate
11 Screw

(Cont'd)

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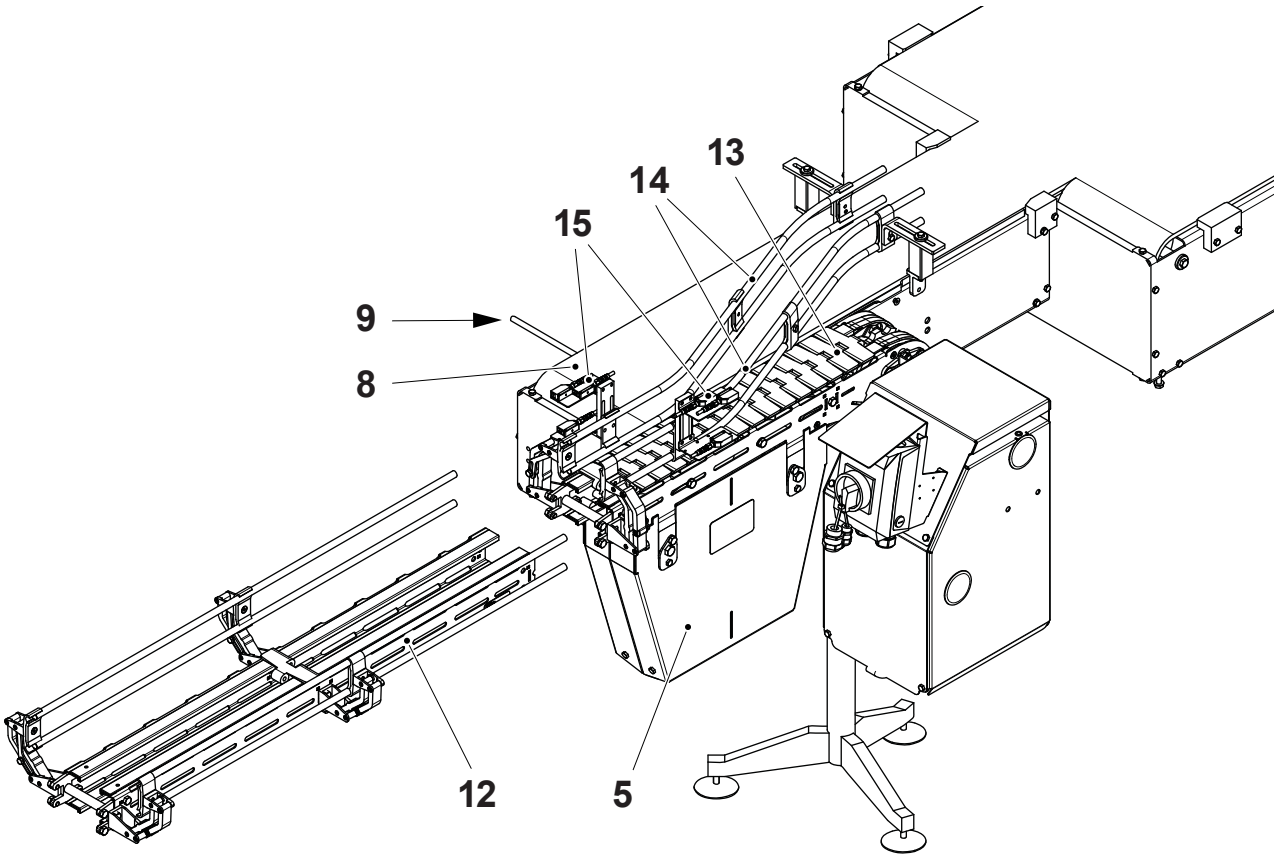
f) Lock the two parts of chain in the divider conveyor (8) with the pin (9).

g) For the connection of the line conveyor (12) and for the installation of the chain conveyor (13) in the drive unit (5), see the TeM of the Unit Conveyor 24 for more information.

h) Fit the guides (14) and the photocells (15).

i) Set the position of the photocells (15), see 1.1.9.1 General for Infeed on page 1-12.

j) Continue following the instructions described in Installation of Infeed Tunnel on page 4-27.



5 Drive unit
8 Divider conveyor
9 Pin
12 Line conveyor
13 Chain conveyor
14 Guide
15 Photocell

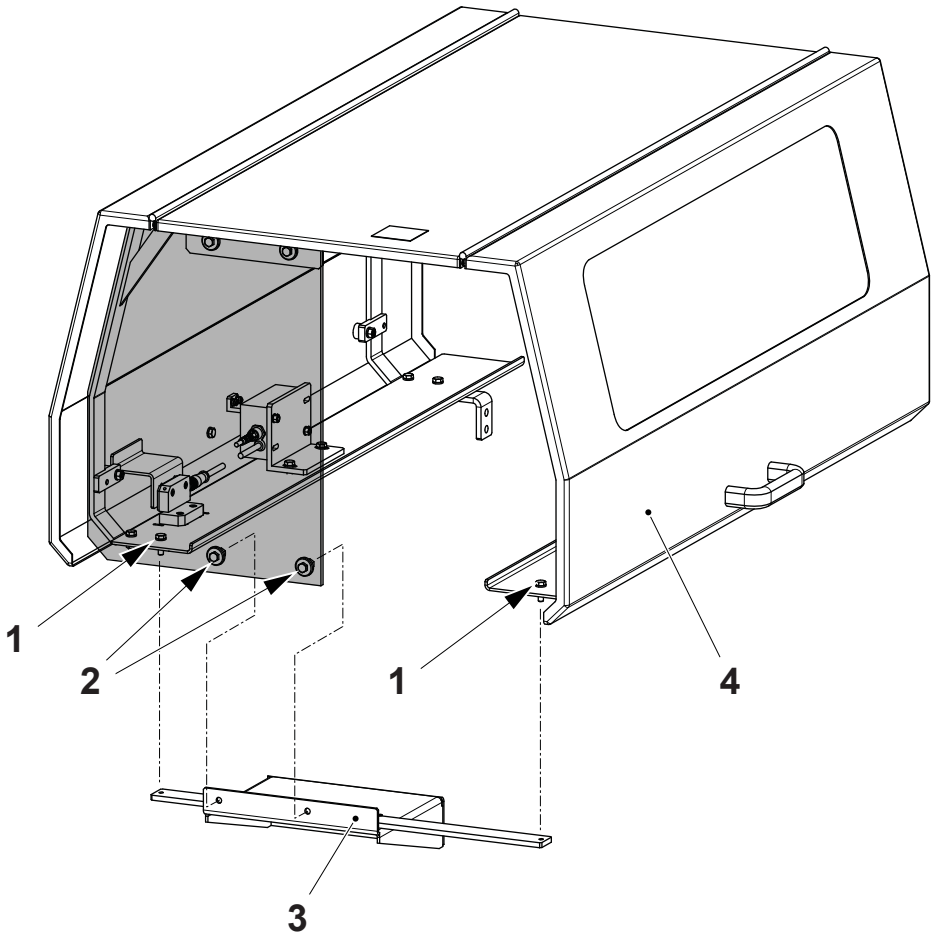
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Installation of Infeed Tunnel

a) If necessary remove the two screws (1), the two screws (2) and the nuts to disconnect the support (3) from the tunnel (4).



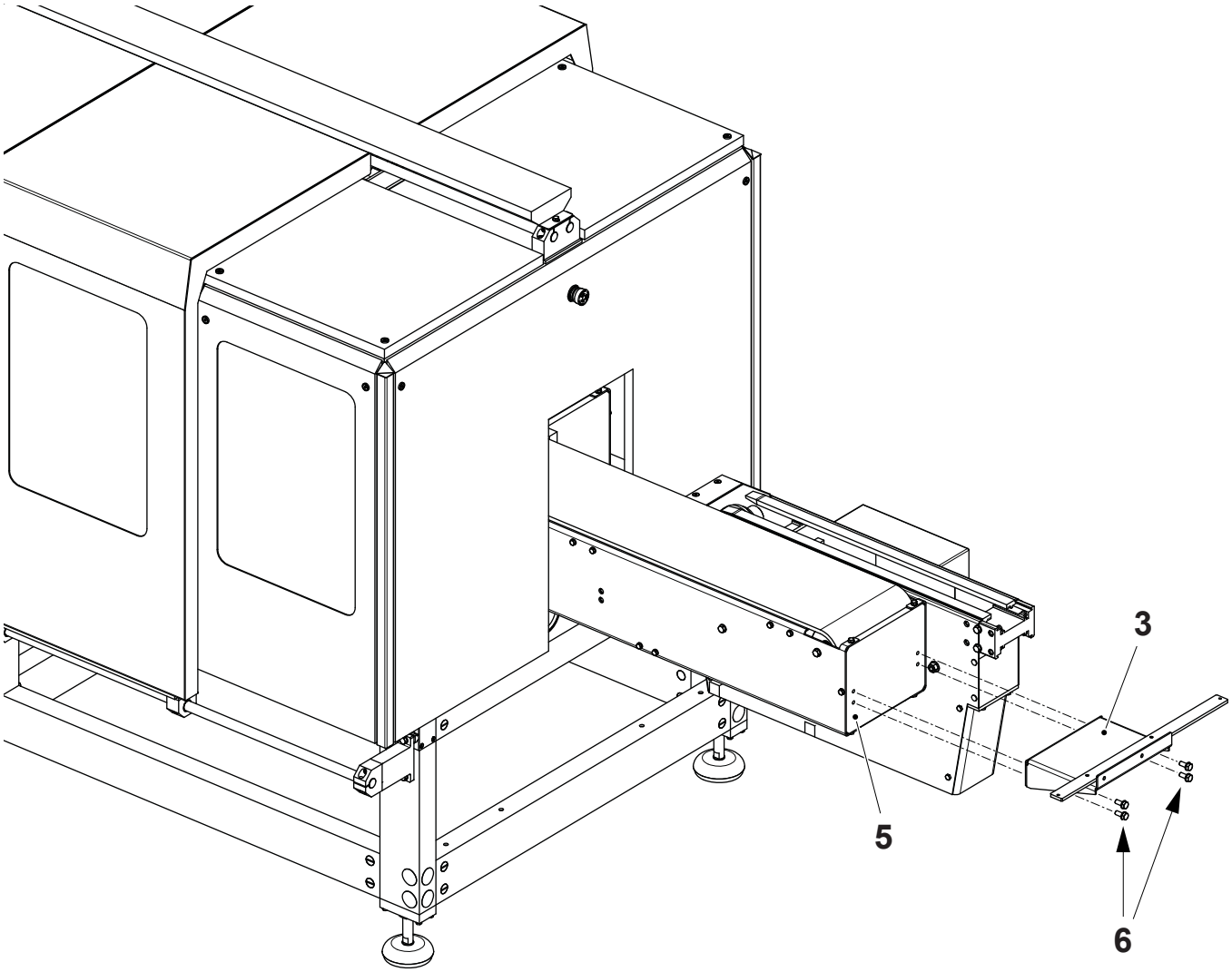
1 Screw
2 Screw
3 Support
4 Tunnel

(Cont'd)

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b) Fit the support (3) to the plate (5) of the divider conveyor with the four screws (6).



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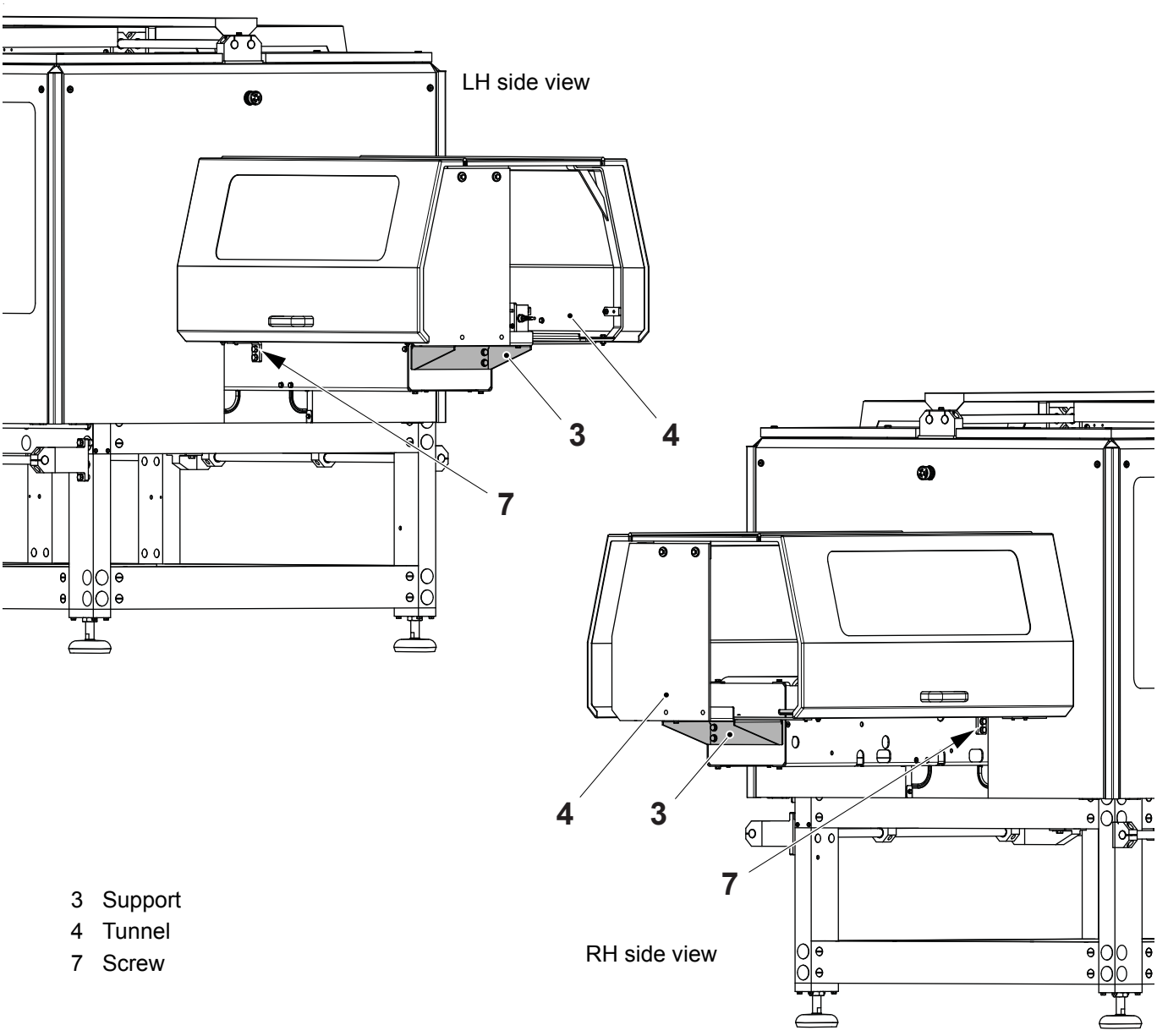
3 Support
5 Plate
6 Screw

(Cont'd)

(Cont'd)

CAUTION
Risk of minor or moderate injury.
Take care when moving the tunnel (4) due to the weight.

c) Place the tunnel (4) over the support (3), then fit the tunnel (4) on both sides of the divider conveyor with the four screws (7).



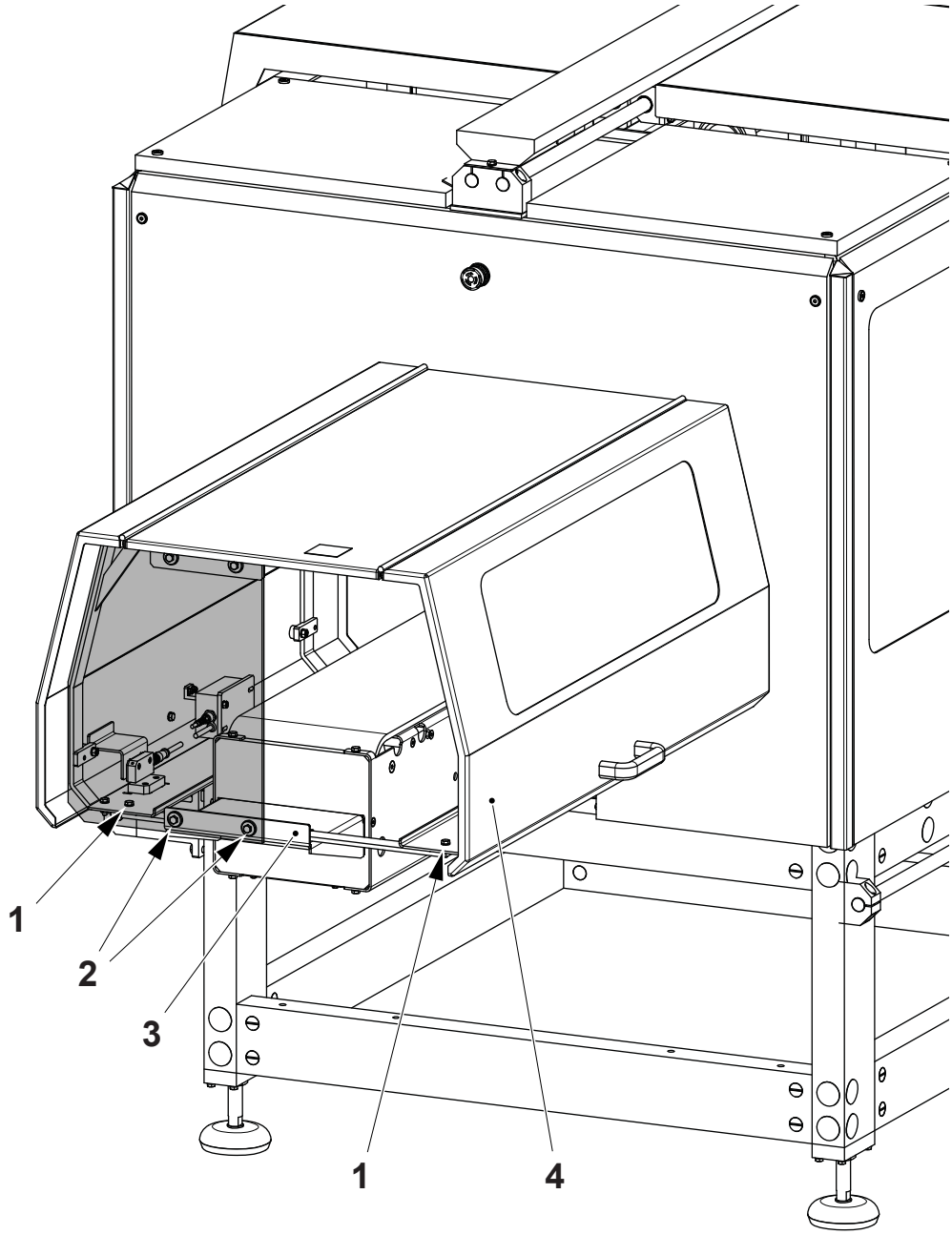
3 Support
4 Tunnel
7 Screw

(Cont'd)

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(Cont'd)

d) Connect the tunnel (4) to the support (3) using the two screws (1), the two screws (2) and the nuts previously removed.



1 Screw
2 Screw
3 Support
4 Tunnel

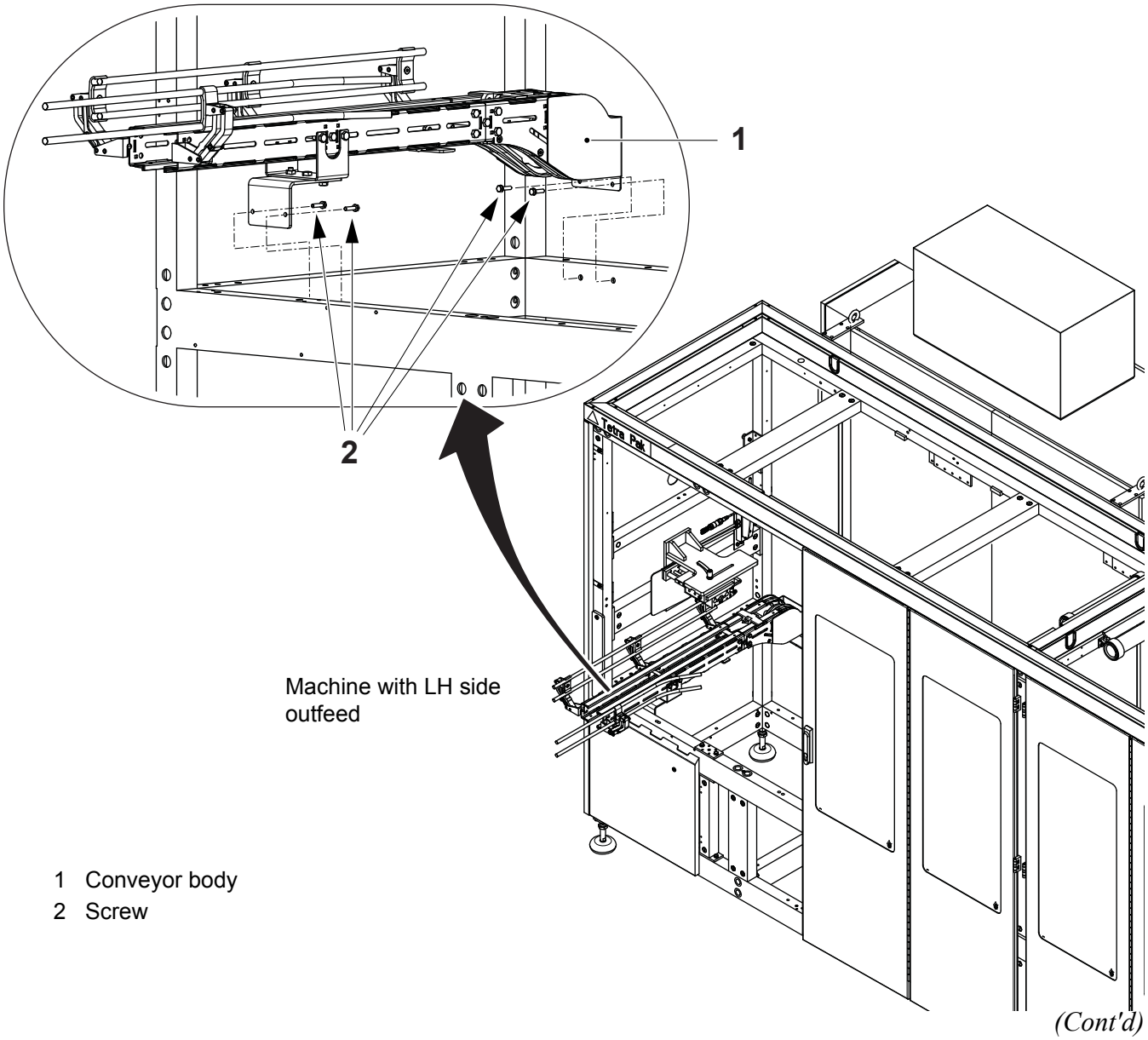
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4.2.8 Discharge Conveyor

Installation Valid for UC 24

Note! The following instruction is valid only for machines with LH or RH side outfeed, for machines equipped with the Straight outfeed see Installation Valid for Roller Conveyor on page 4-35. The UC 24 is supplied as a standard for the machines produced starting from T-order 75723/00038.

a) Fit the conveyor body (1) to the beams of the base machine using the four screws (2) and the washers.



Machine with LH side outfeed

1 Conveyor body
2 Screw

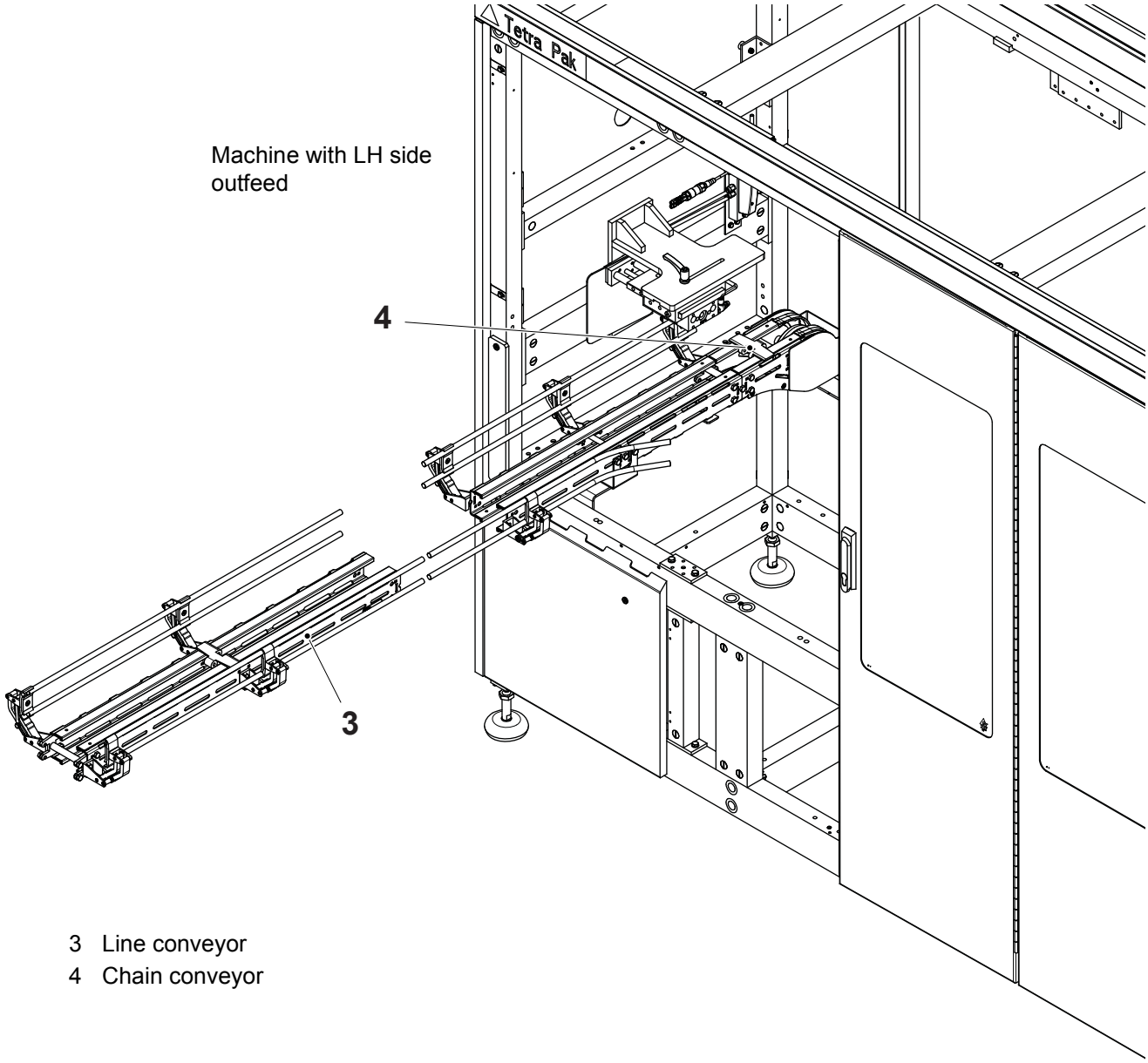
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(Cont'd)

b) For the connection of the line conveyor (3) and for the installation of the chain conveyor (4), see the TeM of the Unit Conveyor 24 for more information.

c) Set the position of the outfeed queue photocells see 1.1.10.2 Discharge - Left/Right Outfeed on page 1-18.



3 Line conveyor
4 Chain conveyor

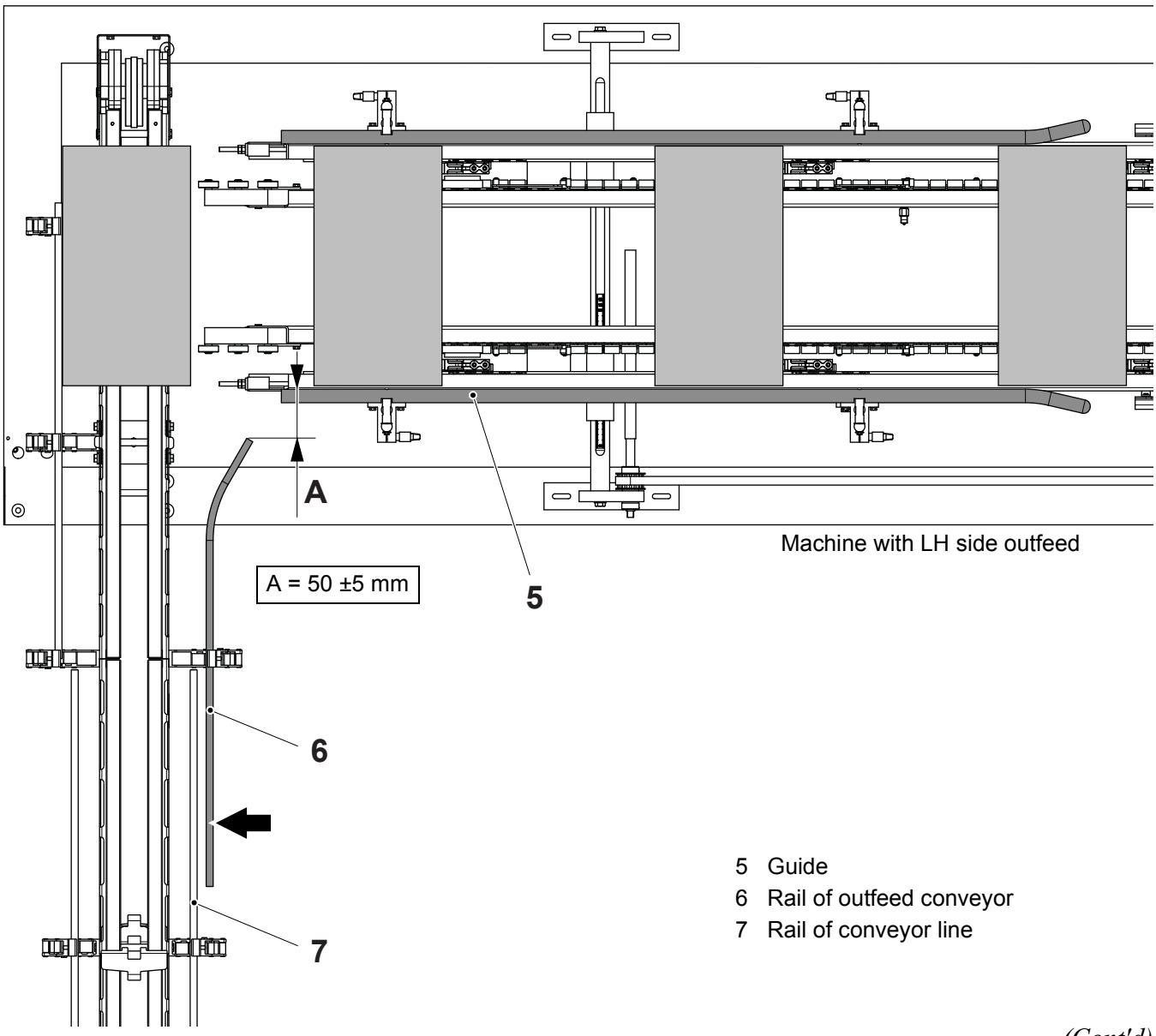
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d) The length of the rail (6) has to be adapted, proceed as follows:

- according to the widest box to be produced in the plant, set the width of the feed unit as described in the MM
- set the rail (6) at the distance **A** from the inner side of the guide (5)
- on the straight end of the rail (6), cut the part in excess indicated with the arrow, so that the rail (6) can be aligned to the rail (7) of the conveyor line.



Machine with LH side outfeed

5 Guide
6 Rail of outfeed conveyor
7 Rail of conveyor line

(Cont'd)

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(Cont'd)

CAUTION

Risk of minor or moderate injury.

Take care when moving the tunnel (8) due to the weight.

e) Remove the support (9) from the tunnel (8) with the screws (12).

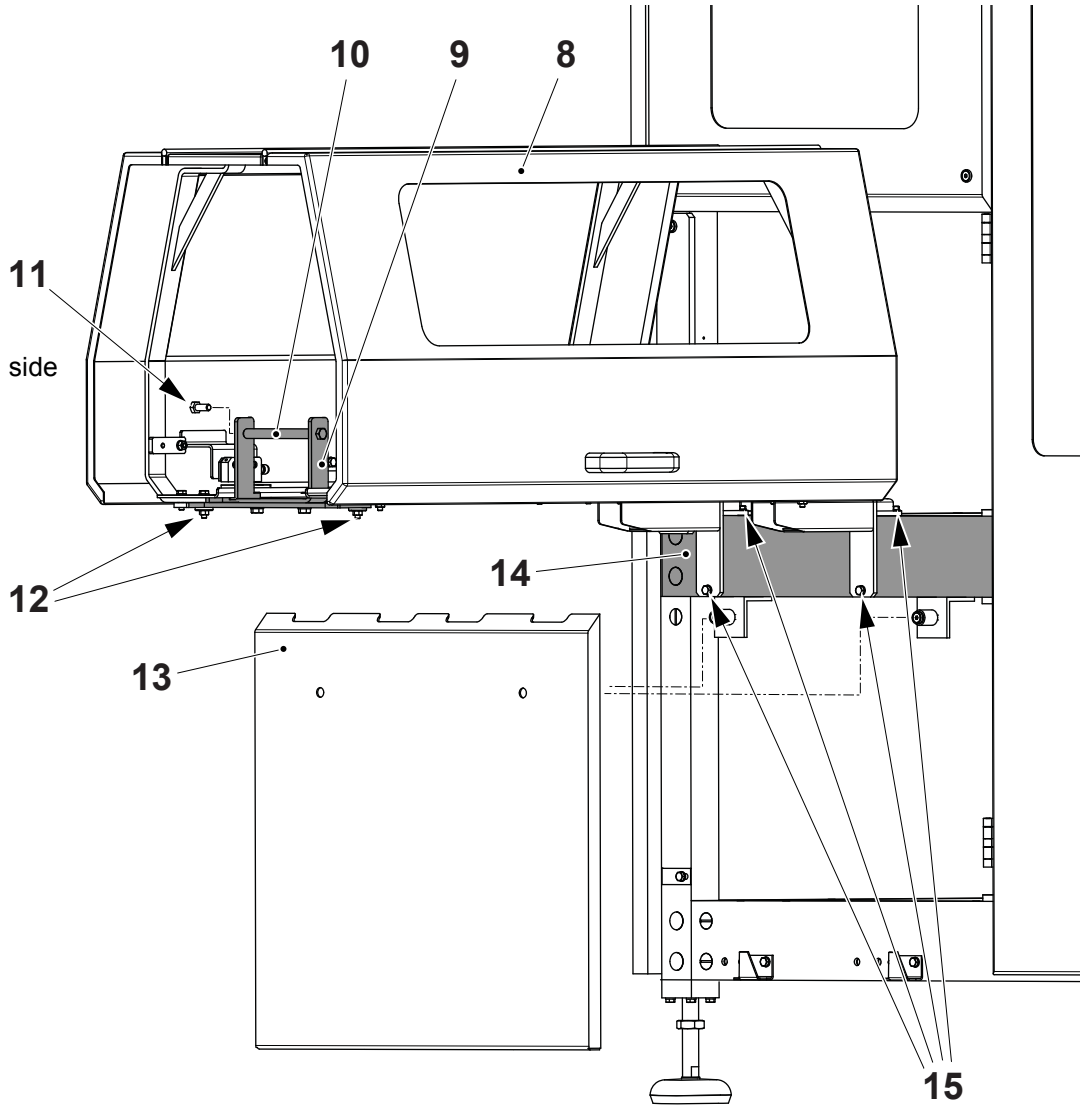
f) Connect the support (9) to the conveyor body using the spacer (10), the two screws (11) and the washers.

g) Remove the cover (13).

h) Place the tunnel (8) on the support (9) and on the beam (14), then fit the six screws (15), the two screws (12) and the washers.

i) Fit back the cover (13).

Machine with LH side outfeed



8 Tunnel
9 Support
10 Spacer
11 Screw
12 Screw
13 Cover
14 Beam
15 Screw

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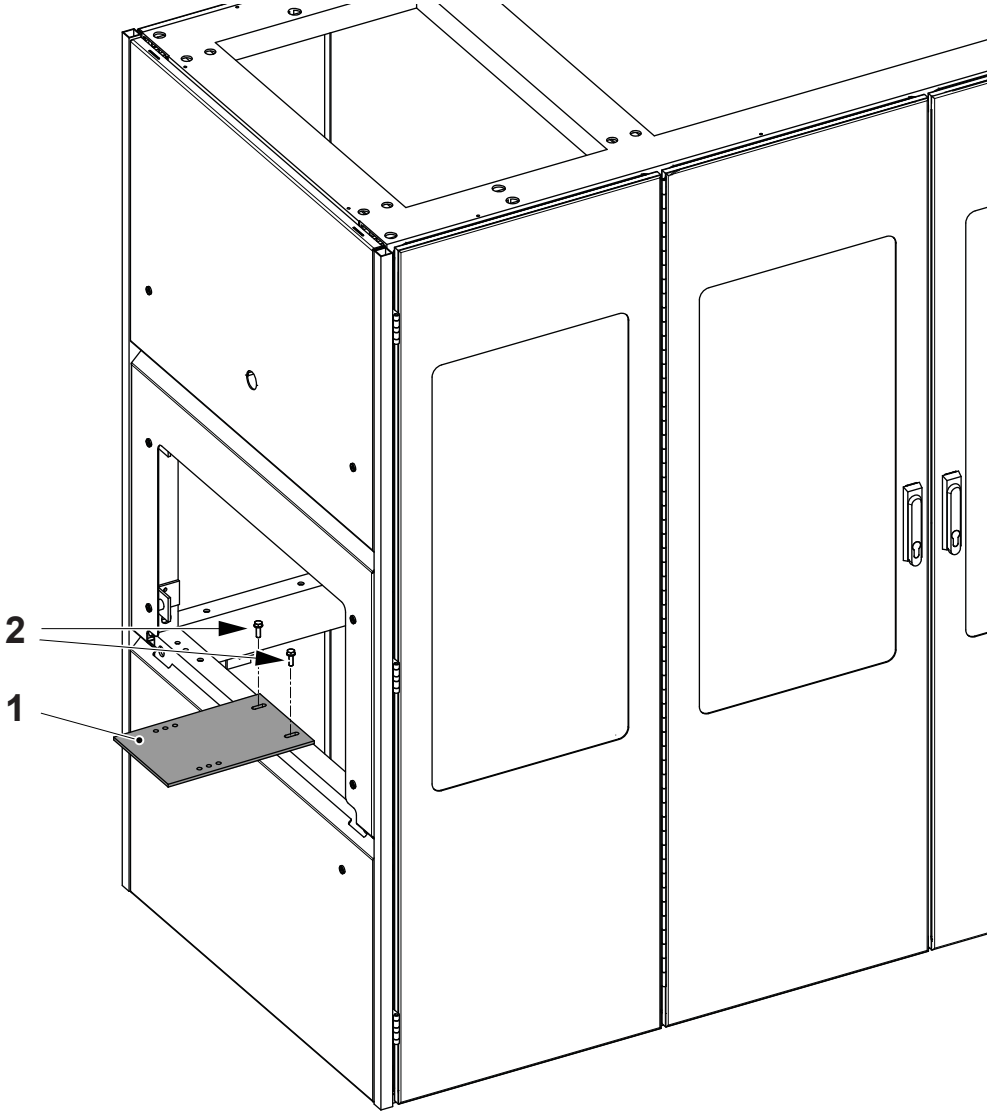
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Installation Valid for Roller Conveyor

Note! The following instruction is valid only for machines with the Straight outfeed, for machines with LH or RH side outfeed see Installation Valid for UC 24 on page 4-31.

a) Fit the bracket (1) to the base machine using the two screws (2) and the washers.



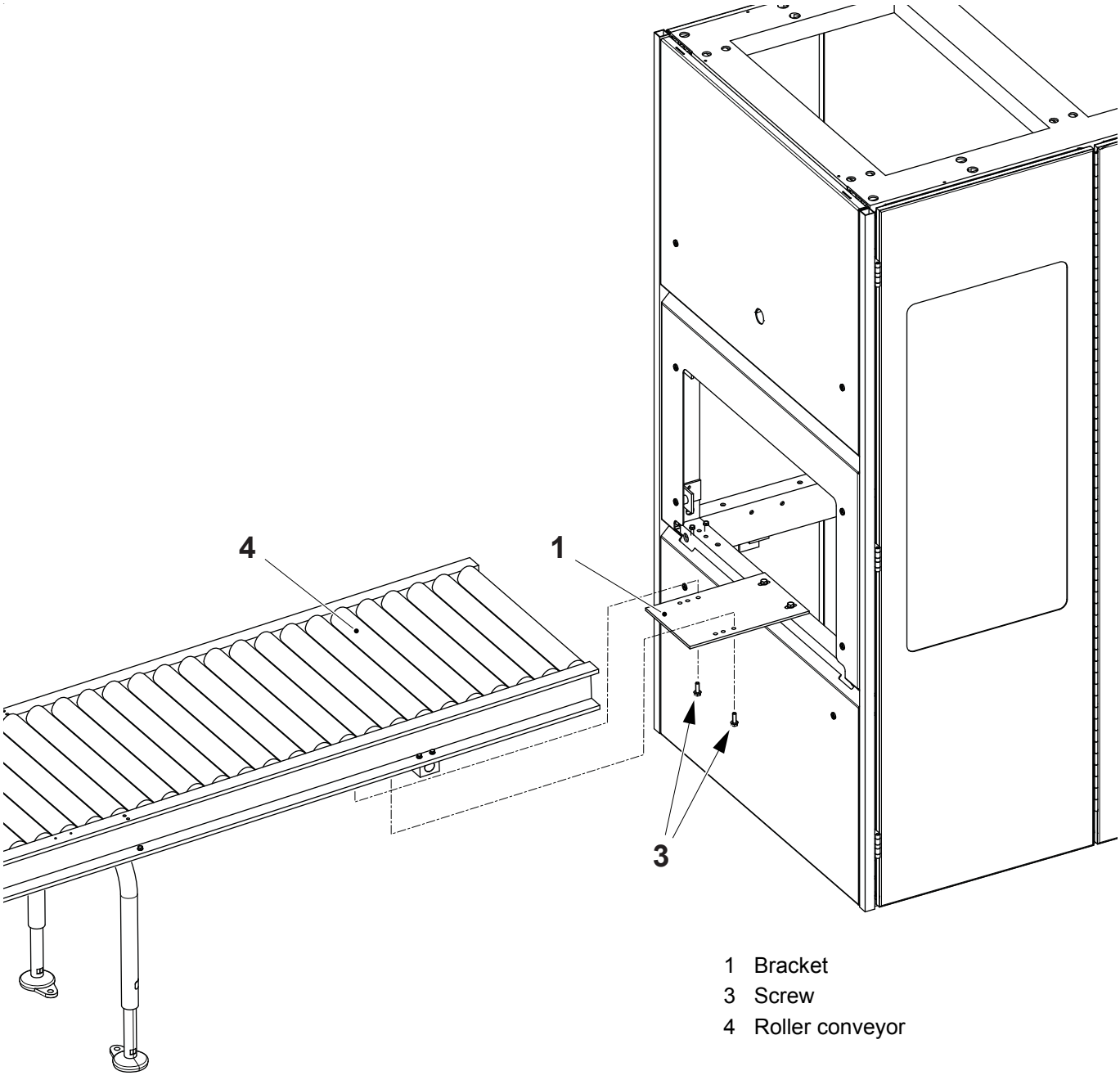
1 Bracket
2 Screw

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b) Fit the roller conveyor (4) on the bracket (1) with the two screws (3) and the washers.



1 Bracket
3 Screw
4 Roller conveyor

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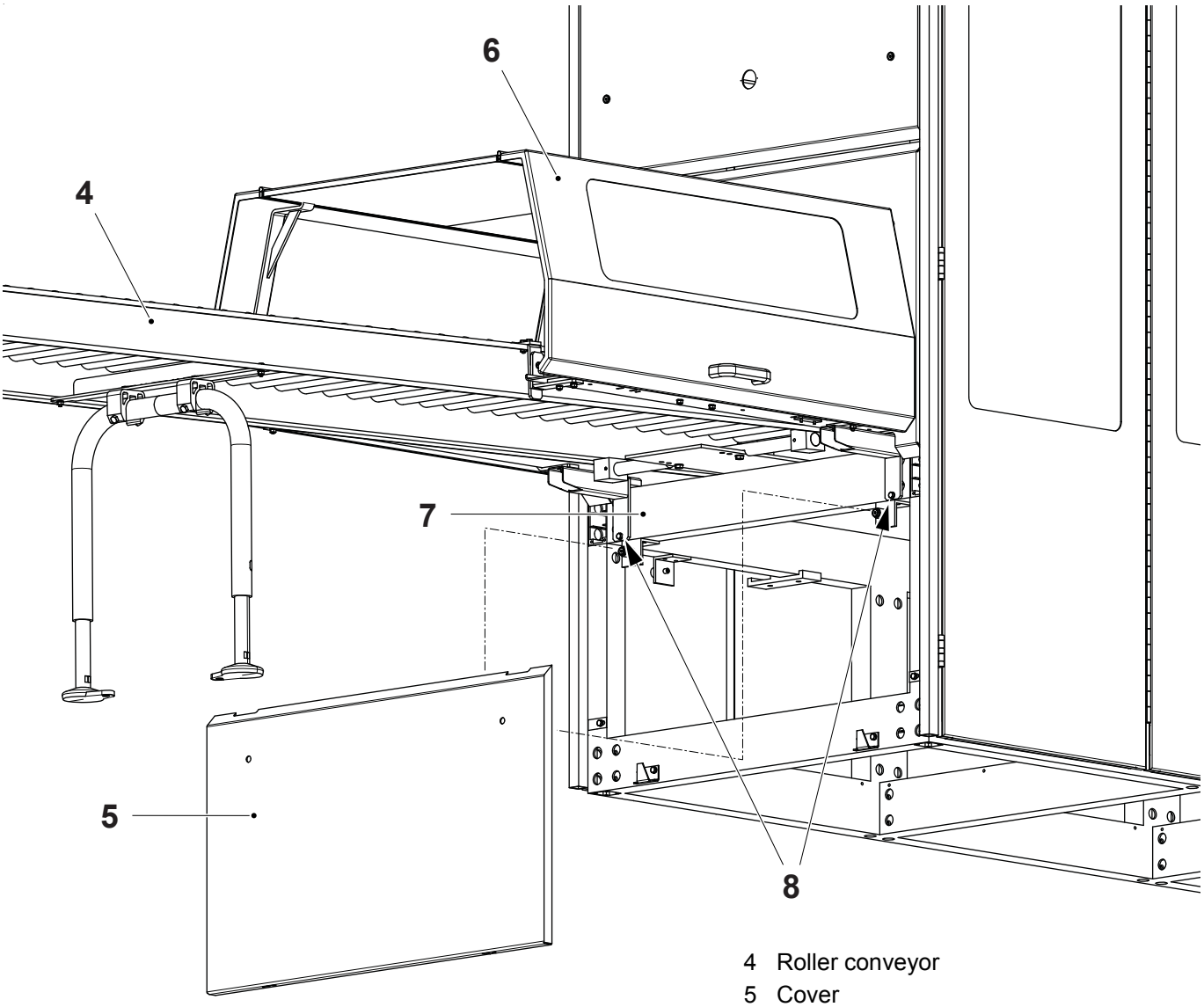
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c) Remove the cover (5).

d) Place the tunnel (6) roller conveyor (4) and on the beam (7), then fit the two screws (8) and the washers.

e) Fit back the cover (5).



4 Roller conveyor
5 Cover
6 Tunnel
7 Beam
8 Screw

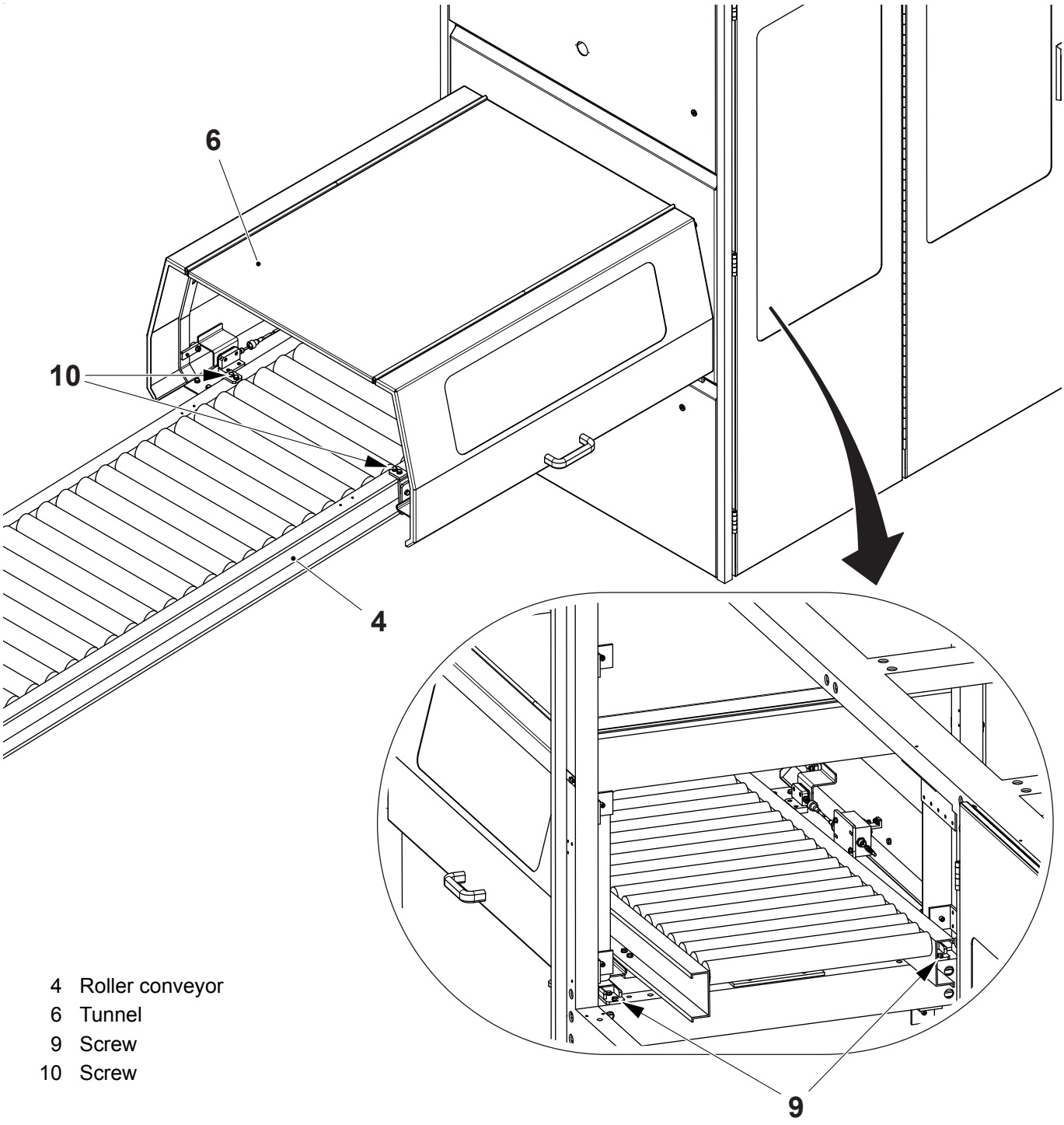
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(Cont'd)

f) Inside the base machine, fit the four screws (9) and the washers.

g) Fit the tunnel (6) to the roller conveyor (4) with the four screws (10) and the washers.



4 Roller conveyor
6 Tunnel
9 Screw
10 Screw

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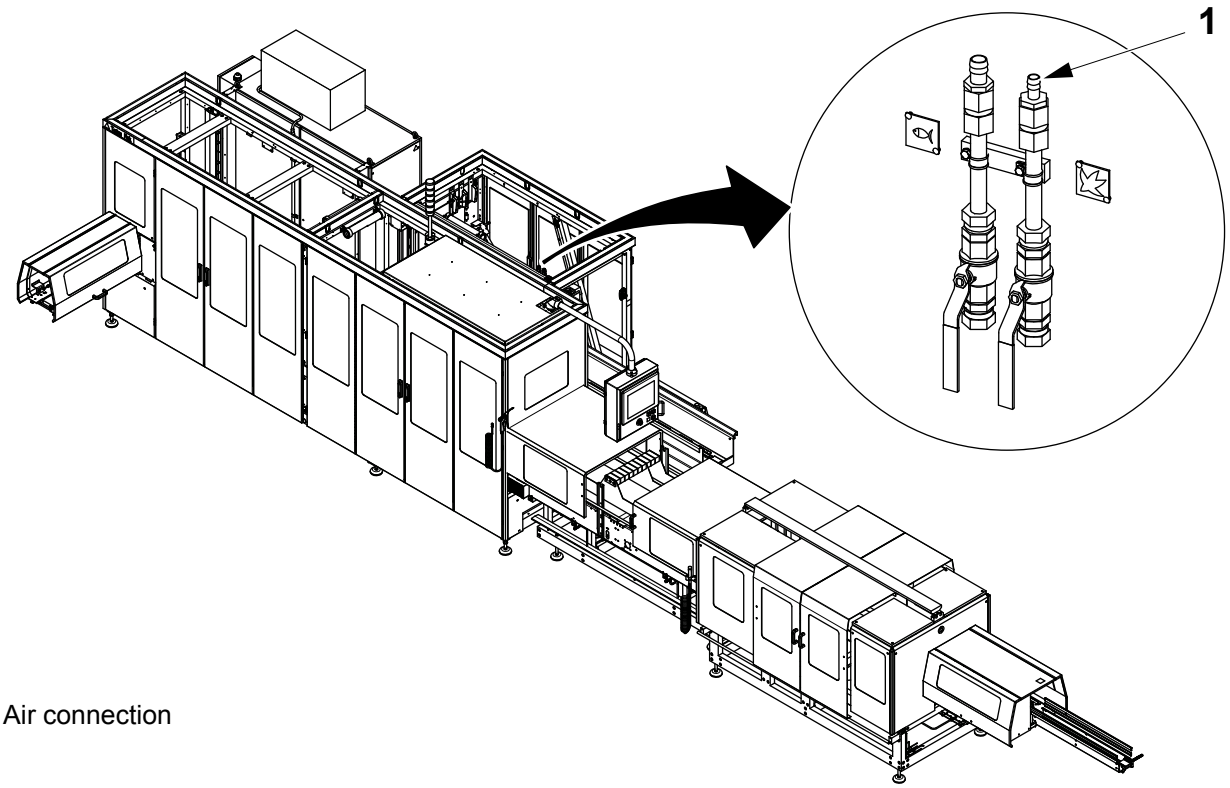
4.3 Connections

4.3.1 Compressed Air

DANGER

Risk of personal injury.
Make sure that the main air supply is switched OFF before performing any connection work.

Connect the compressed air supply to the air connection (1).



1 Air connection

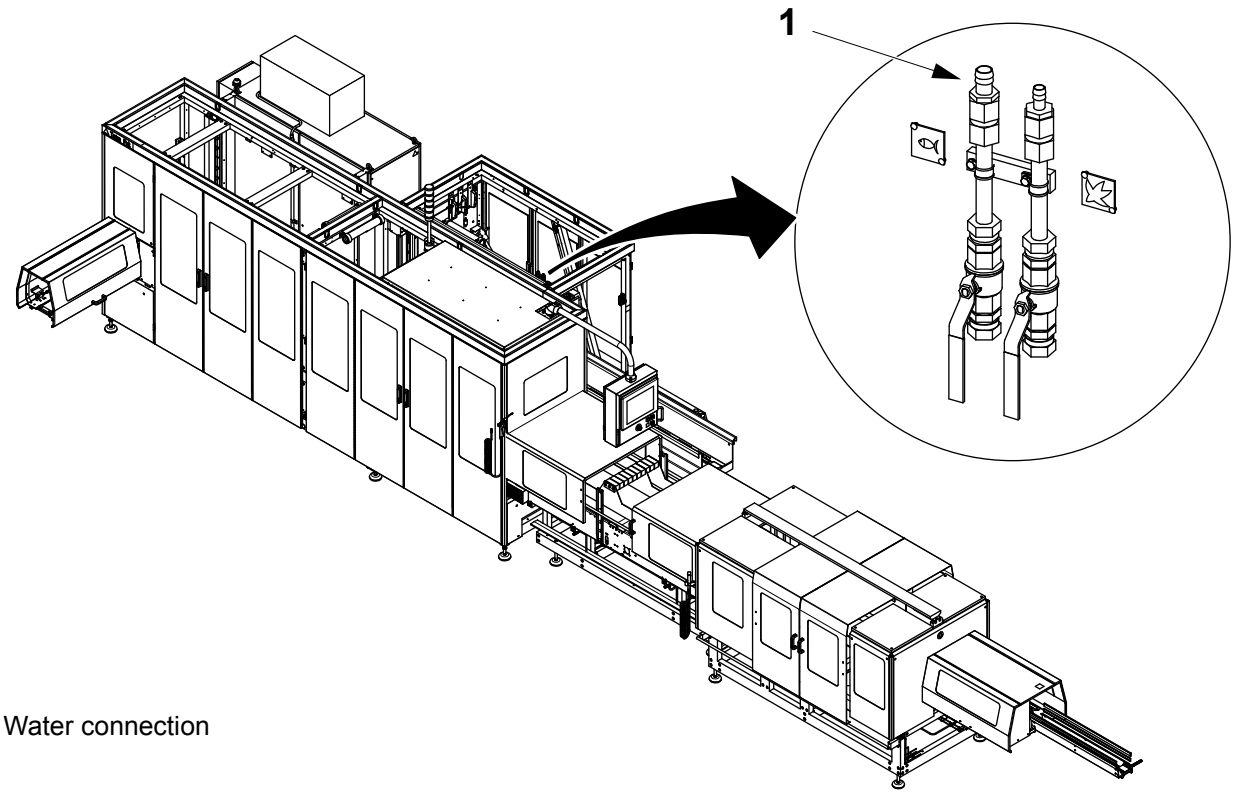
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4.3.2 Water

DANGER

Risk of personal injury.
Make sure that main water supply is switched OFF before performing any connection work.

Connect the water supply to the water connection (1).



1 Water connection

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4.3.3 Power Supply

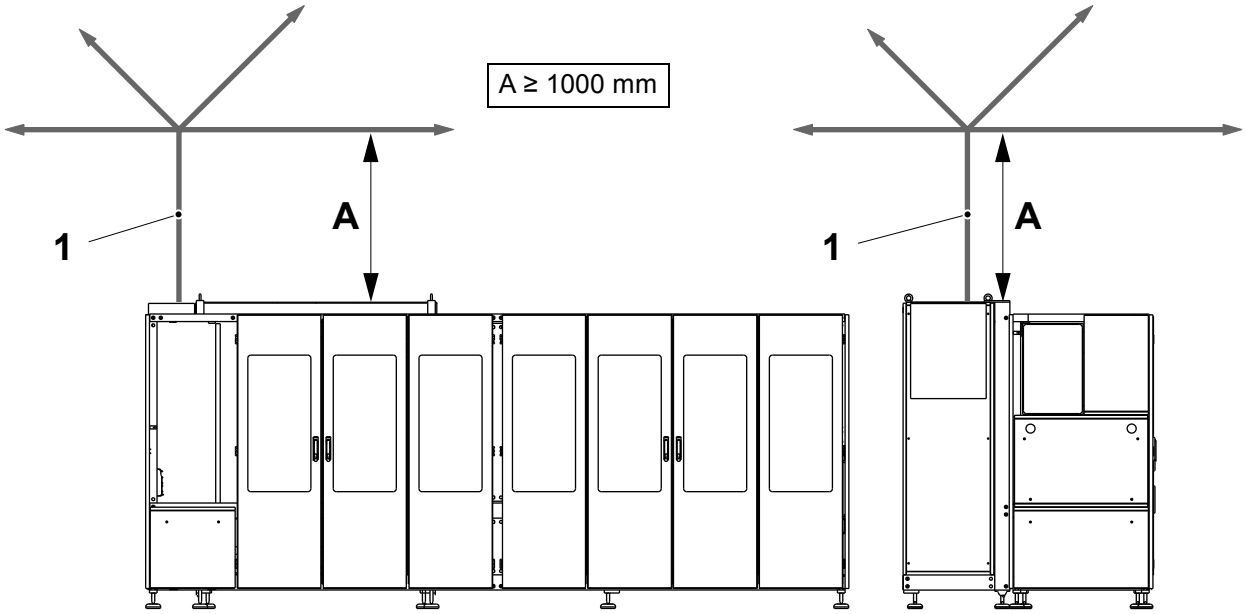
DANGER

Risk of electrical shock and short circuits.
Make sure that power is switched OFF upstream before performing any work on cables and electrical components.

The electrical connection should be done according to the EM, Mains Connection Diagrams.

See location for electrical connection in 1.1.6 Connection Locations section on page 1-9.

Note! The power supply cable (1) must never be passed through the machine or strapped together with other cables. Make sure that during his path, the supply cable pass at least at the distance **A** over the top of the machine.

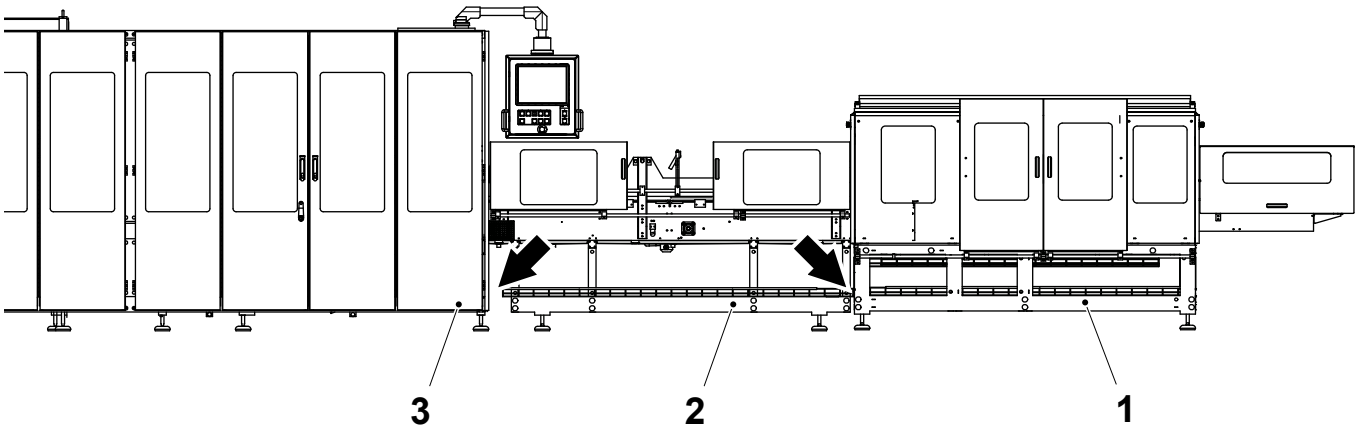


1 Power supply cable

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4.3.4 Earth Connections

Make sure to perform the connections of the earth cables between the infeed unit (1) and the accumulation unit (2), then between the accumulation unit (2) and the base unit (3).



1 Infeed Unit
2 Accumulation unit
3 Base unit

4.3.5 Line Communication (Genius)

Note! The following instruction is valid only for the machines equipped with the Genius Communication Unit (OE).

For the electrical connection of the CBP 30 Speed in a line equipped with a Genius communication, refer to the MM of the filling machine.

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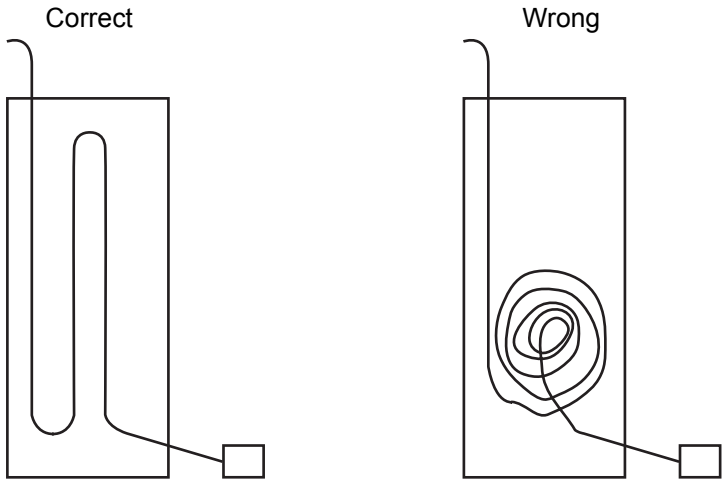
4.3.6 Power and Signal Cables

General Information

Use the EM to identify and separate the power cables for voltage more than **50 V** and the signal cables for voltage less than **50 V**.

the signal cables are: safety cable, DeviceNet cables, ethernet cables, feedback cables, reference input cables, all cable connector for voltage less than **50 V** supply.

For cables exceeding in length, place the cables as illustrated in the example below.



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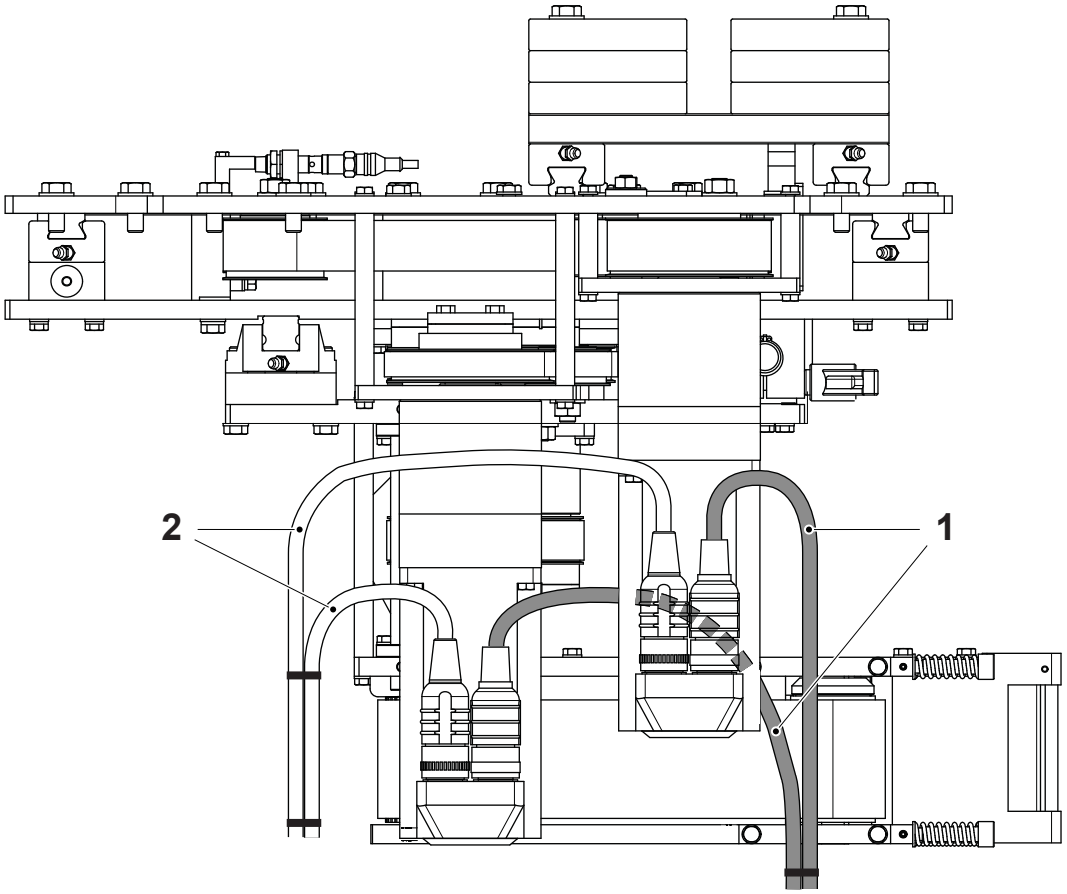
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Power and Signal Cables Separation

Note! Do not tie wrap power cables (1) and signal cables (2) together.

Separate the power cables (1) and the signal cables (2) at the servo motor side as shown in the illustration below. Make sure to keep the power cables (1) and the signal cables (2) separated during their path using different cable ducts.

Note! When it is necessary to cross the two cables paths, respect the **90°** value for the intersection angle.



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1 Power cable
2 Signal cable

5 Final Installation Check

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Final Installation Checks - Description

This chapter describes the checks to be made after the installation has been completed and before the commissioning of this equipment.

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5.1 Installation and Connection Checks . . . . . 5 - 5

5.2 Level Checks . . . . . 5 - 6

5.3 Safety Checks . . . . . 5 - 7

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5.1 Installation and Connection Checks

Verify the installation work by following the checklist below.

Note! This machine has been tested with dummy packages and might need a fine tuning on settings to fit packages at site. See Maintenance Manual for settings.

Note! Some steps will require only mechanical checks, others will require running tests. Follow these steps to complete the installation check:

No.	Check	Done
1	The machine is level transversally and longitudinally.	
2	The compressed air connection. Make sure that the connection is done correctly.	
3	The water connection. Make sure that the connection is done correctly.	
4	Check the electrical connection. Make sure that the connection is done correctly. **DANGER** **Risk of electrical shock.** The voltage is 400V inside the electrical cabinet. Contact with a 400V voltage may cause electrical shock or serious injury. In case of an accident, immediately call for medical attention.	
5	Make sure that all delivered equipment is assembled in accordance with the instructions in the 4 Positioning, Assembly and Connections chapter.	
6	Make sure that the machine is correctly connected to the Infeed and Discharge Conveyors.	
7	Make sure that the Infeed unit and Base unit are correctly connected for Internal Conveyor Lubrication.	
8	There are no leakages from the utility connections.	
9	All tools are removed from the machine.	
10	Check the rotation direction of all machine movements. **DANGER** **Risk of electrocution.** To be performed by authorized electricians only. Check the rotation direction if required the polarity of the mains cable connection must be changed. See the EM for further details.	
11	Check all pressure gauge settings as described in the MM.	
12	Check the machine program (function, program steps and alarms) as described in the OM.	
13	Make sure there are no abnormal noises, vibrations, etc. when the machine is running.	

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5.2 Level Checks

See the OM for further details on the following level check.

No.	Check	Done
1	The hotmelt level is at least 50% of its tank capacity. Fill with adhesive if necessary.	

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5.3 Safety Checks

No.	Check	Done
1	All doors open and close correctly.	
2	All safety covers are secured.	
3	Make sure that the machine stops when an **Emergency stop** button is pushed. Test **all Emergency stop** buttons. See sub-section Emergency Stop in the Safety Precautions. **WARNING** **Risk of serious injuries.** Never inch or run the machine if any of the emergency stop buttons is non-operational.	
4	Make sure that the machine stops when doors fitted with safety switches are opened. This should be tested for **all** safety switches. Make sure all covers are fitted to the machine before it is run. See sub-section Safeguards in the Safety Precautions. **WARNING** **Risk of serious injuries.** Never inch or run the machine if any safety switch is non-operational or any cover is not fitted.	
5	Safety signs are not damaged, are placed in the correct position and visible. Replace any missing or damaged safety signs. See sub-section Locations of Safety Signs in the Safety Precautions.	
6	The machine and the area around the machine are free from any remaining installation packing and wrapping.	

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6 Preparation for Commissioning

Preparation for Commissioning - Description

This chapter describes how to prepare and run the equipment for the first time.

Note! Commissioning covers only the functioning of the individual machine. A line performance test is required to check the functioning of the machine as part of a complete line. Check with the local service organisation as to what arrangements have been made for a line performance test.

6.1 Presence and Correctness Checks . . . . . 6 - 5
6.2 Utility Value Checks . . . . . 6 - 6
6.3 Function Checks . . . . . 6 - 7
6.3.1 Preparation . . . . . 6 - 7
6.3.2 Normal Operating Checks . . . . . 6 - 7
6.4 Health and Safety Checks. . . . . 6 - 8

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6.1 Presence and Correctness Checks

No.	Check	Done
1	The TP No. on the program diskette corresponds with that in the machine PLC	
2	The spare parts have been deposited in the spare parts stores.	
3	All the documents correspond to the specific machine. – EM – IM – OM – MM – SPC – System drawings – Machine Specification Document – Final Inspection Report – Machine Deviation Report (if relevant).	
4	The supply and quality of package units is sufficient for the purpose of the commissioning.	
5	All supplies are of the correct type and are available in sufficient quantities for the purpose of the commissioning: – Cardboard blanks – Hotmelt adhesive	
6	The key for the operator panel is present.	
7	The key for the electrical cabinet is present.	

6.2 Utility Value Checks

Make sure that the utility values are set correctly. Ask for the assistance of the customer technical personnel if required. If values are incorrect, inform the customer technical personnel, see 1.3 Utility Connection Data.

No.	Check	Done
1	Electrical power supply: – voltage – max voltage fluctuation – frequency – fuse rating	
2	Water supply: – pressure	
3	Compressed air supply: – pressure – max particle size – max particle content – dew point – oil content	

6.3 Function Checks

6.3.1 Preparation

a) Perform all the necessary checks and settings described in the MM.

b) Make sure that the PLC program on the CD-ROM corresponds with that in the machine PLC.

c) Put the power supply disconnector to the ON position. Make sure that all the electrical motors and the fan blades inside the cooling unit have the correct direction of rotation. See the EM for further details.

d) Prepare the machine for production. See the OM for further details.

e) Check that the hotmelt unit reaches the working temperature within 30 minutes.

f) Step up the machine to PRODUCTION according to the OM.

6.3.2 Normal Operating Checks

No.	Check	Done
1	The boxes produced are correctly folded and sealed. See the OM for further details. Check continuously.	
2	All pressures values are correct, see the MM for further details.	
3	There are no unusual noises which could indicate loose or misaligned parts.	
4	There are no unusual smells which could indicate burning of electrical circuits.	
5	Operate the different TPOP systems to verify they function. See the OM for further details.	

6.4 Health and Safety Checks

No.	Check	Done
1	Make sure that the machine stops when an **Emergency stop** button is pushed. Test **all Emergency stop** buttons. See sub-section Emergency Stop in the Safety Precautions. **WARNING** **Risk of serious injuries.** Never inch or run the machine if any of the emergency stop buttons is non-operational.	
2	Make sure that the machine stops when doors fitted with safety switches are opened. This should be tested for **all** safety switches. Make sure all covers are fitted to the machine before it is run. See sub-section Safeguards in the Safety Precautions. **WARNING** **Risk of serious injuries.** Never inch or run the machine if any safety switch is non-operational or any cover is not fitted.	
3	Safety signs are not damaged, are placed in the correct position and visible. Replace any missing or damaged safety signs. See sub-section Locations of Safety Signs in the Safety Precautions.	

7 Disassembly and Removal

Disassembly and Removal - Description

This chapter contains information about how to safely disassemble and remove the machine for reuse in another location or for final disposal.

7.1 Preparation . . . . . 7 - 5
7.1.1 Personnel Requirements . . . . . 7 - 5
7.1.2 Transport and Auxiliary Equipment . . . . . 7 - 5
7.1.3 Utility Connections . . . . . 7 - 5
7.2 Disconnect Utilities . . . . . 7 - 6
7.2.1 Compressed Air . . . . . 7 - 6
7.2.2 Electricity . . . . . 7 - 6
7.2.3 Water . . . . . 7 - 6
7.3 Disassemble Machine . . . . . 7 - 7
7.3.1 Safety Precautions . . . . . 7 - 7
7.3.2 Disassembling of the Machine . . . . . 7 - 7
7.4 Storage Preparation . . . . . 7 - 8
7.5 Moving . . . . . 7 - 9
7.6 Re-crating . . . . . 7 - 10
7.7 Final Disposal . . . . . 7 - 11

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7.1 Preparation

7.1.1 Personnel Requirements

Personnel requirements needed to disassemble and handle the machine, see section Personnel Requirements included in chapter ii Safety Precautions.

7.1.2 Transport and Auxiliary Equipment

Required tools and auxiliary equipment needed for the job, see sub-section 3.1.1 Crate Data.

7.1.3 Utility Connections

De-energise the machine, that is, shut off supplies of electricity and compressed air.

7.2 Disconnect Utilities

7.2.1 Compressed Air

WARNING

Risk of personal injury.

Make sure that air supply to the machine is switched OFF before performing any disconnection work.

Disconnect the compressed air. For more information on where to locate the air connection, see 1.1 Installation Drawings.

7.2.2 Electricity

DANGER

Risk of electrical shock and short circuits.

Make sure that power is switched OFF upstream before performing any work on cables and electrical components.

Disconnect the electricity. For more information on where to locate the electrical connection, see 1.1 Installation Drawings.

7.2.3 Water

Disconnect the water. For more information on where to locate the electrical connection, see 1.1 Installation Drawings.

7.3 Disassemble Machine

7.3.1 Safety Precautions

WARNING

Risk of personal injury.

Before you start to disassemble the machine, read section ii Safety Precautions. If safety precautions are not followed, there is risk of personal injury.

7.3.2 Disassembling of the Machine

Read the instructions in section 4.2 Assembly, and then disassemble the machine in reverse order.

7.4 Storage Preparation

If the machine is going to be transported to a storage site, then see 3.2 Storage for more information about environmental factors, such as acceptable storage humidity and temperature range.

7.5 Moving

DANGER

Immediate danger to life.

The machine may tilt if not observing the centre of gravity or the fork lift points. Failure to obey may result in immediate danger to life and/or major damage to equipment.

Before lifting and moving the machine from its production site, do the following:

- Check that the machine can be transported without any problems with the ceiling height, doors, passages, etc.
- Make sure that the machine can be lifted in accordance to section 1.2.1 Centre of gravity.

7.6 Re-crating

Read the instructions in 3.3.2 Unpacking Sequence.
Re-crate the machine in the reverse order.

7.7 Final Disposal

If the machine is to be permanently disposed of, perform the following operations:

a) Remove the blanks and dispose of these in compliance with local regulations.

b) Empty the hotmelt from the hotmelt equipment according to the Nordson Manual. Dispose of the hotmelt in compliance with local regulations.

c) Empty the oil from the central lubrication system. Dispose of the oil in compliance with local regulations.

d) Disassemble the machine as far as possible and separate the following materials:
   - stainless steel (panels and doors)
   - cast iron
   - aluminium
   - glass (windows, etc.)
   - rubber (seals, O-rings, etc.)
   - nylon and other plastics
   - electrical cables
   - hydraulic and pneumatic hoses
   - electrical components (batteries etc.)

e) Recycle or dispose of all materials, groups, and components in compliance with local regulations.

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