



Going further
for health

HSE Networking 2016

Heidenheim April 26th-28th

BDI, Russia, Domodedovo

Ekaterina Merkulova
April 2016

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Introduction

Aerial view



Plant / Site Address

**Russia, Domodedovo,
microdistrict Belye Stolby,
estate "Warehouse 104",
building 3\3**

Overview

Employees (HG only)	118
Production	44
Logistic	60
Administration	14

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Introduction

Main operation processes are:

Production of INKO goods: Molinea, Molimed.

(2 production lines: MMF-1 and KU-8)

Storage of raw materials and finished goods

Storage of another Hartmann goods (except Bode)

Dispatch of customers orders

Delivery of goods to customers (own and external trucks)

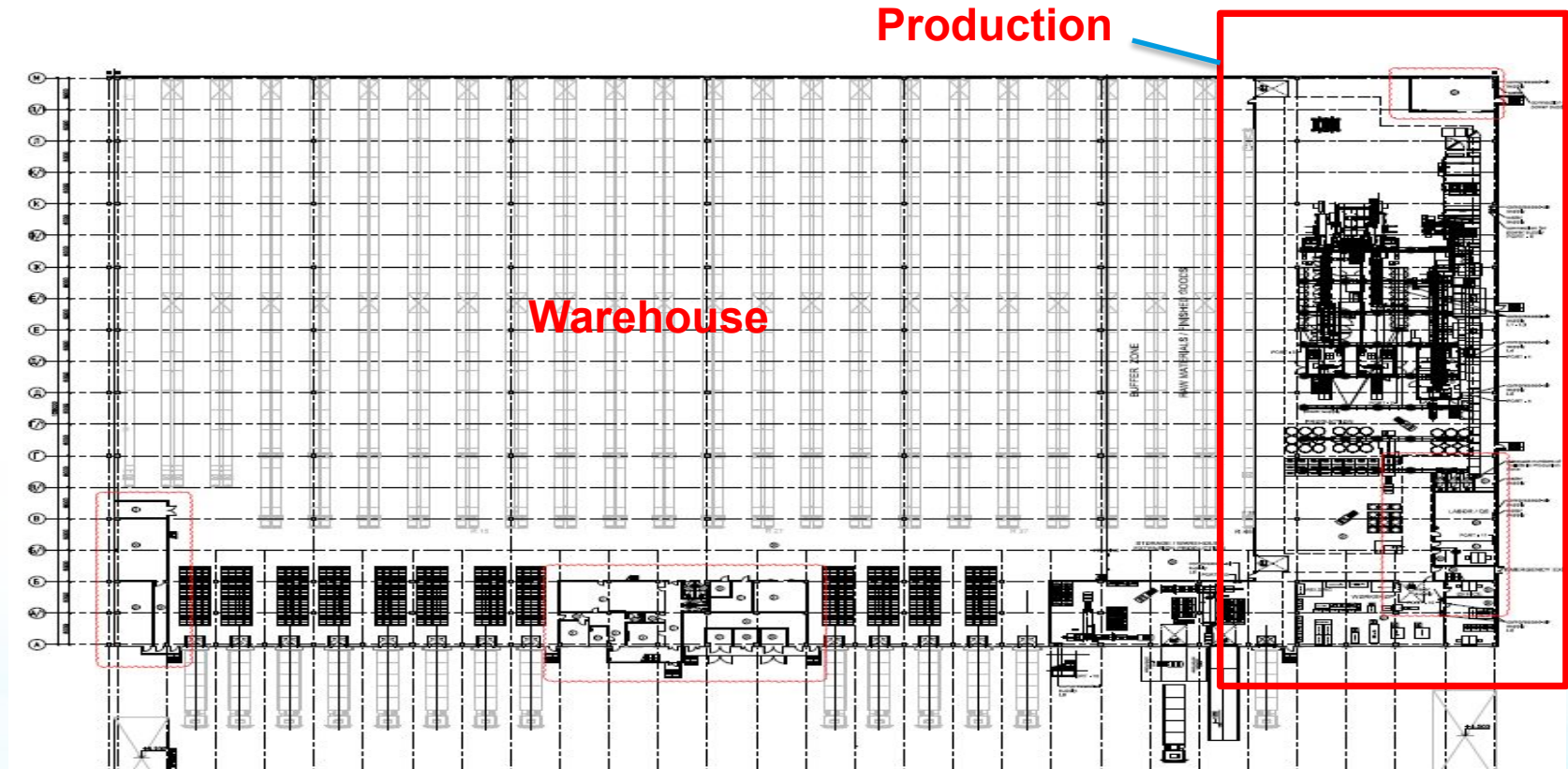


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Introduction

BDI has one building (tenant). Type of building: new, 2013

Total building area is 20812,4 m²:
there of 3000 m² – production, 18000 m² – warehouse

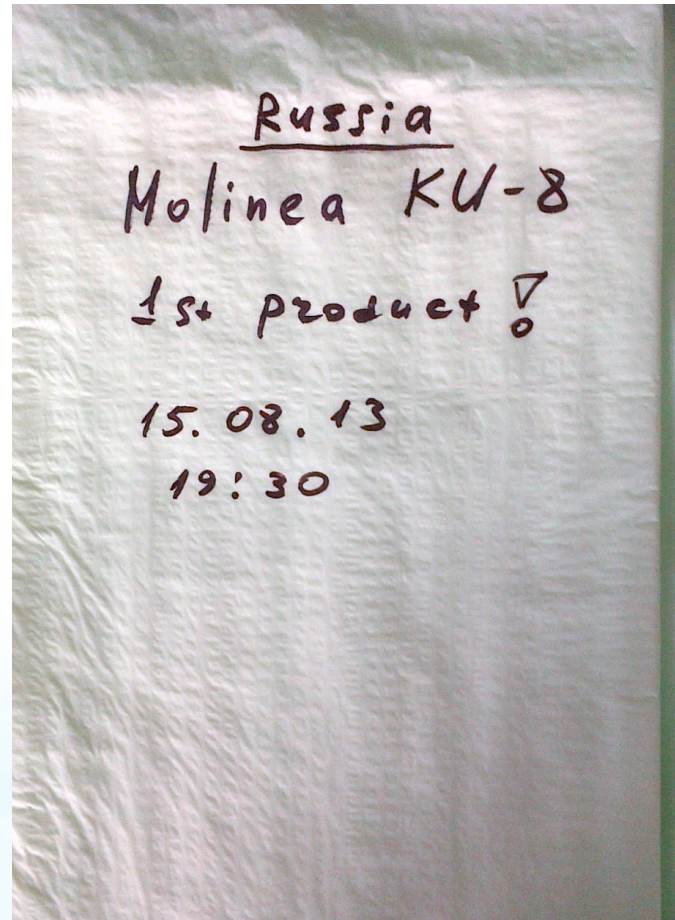


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Introduction

BDI is the 1st Inco Plant in Russia!

The First MoliNea product in BDI was produced in 15.08.2013



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Introduction

BDI Start at 24.10.2013

Opening Ceremony



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Introduction

HSE department

HSE department consist of 2 employees: HSE manager and HSE specialist

HSE manager

Ekaterina Merkulova

Education: Moscow Academy of Fine

Chemical Technology

Qualification: engineer ecologist

Experience: organization and development of HSE system for food, nonwoven industry and logistic centers

Since March 2013 has been working for PH Russia



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Introduction

HSE department

HSE specialist

Olesya Tarasova

Education: Bryansk Engineering and
Technology Academy

Qualification: safety engineer

Experience: organization and development of occupational
safety for chemical and printing industry

Since August 2013 has been working for PH Russia



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In BDI was 2 accidents in 2015

Date: 09.11.2015

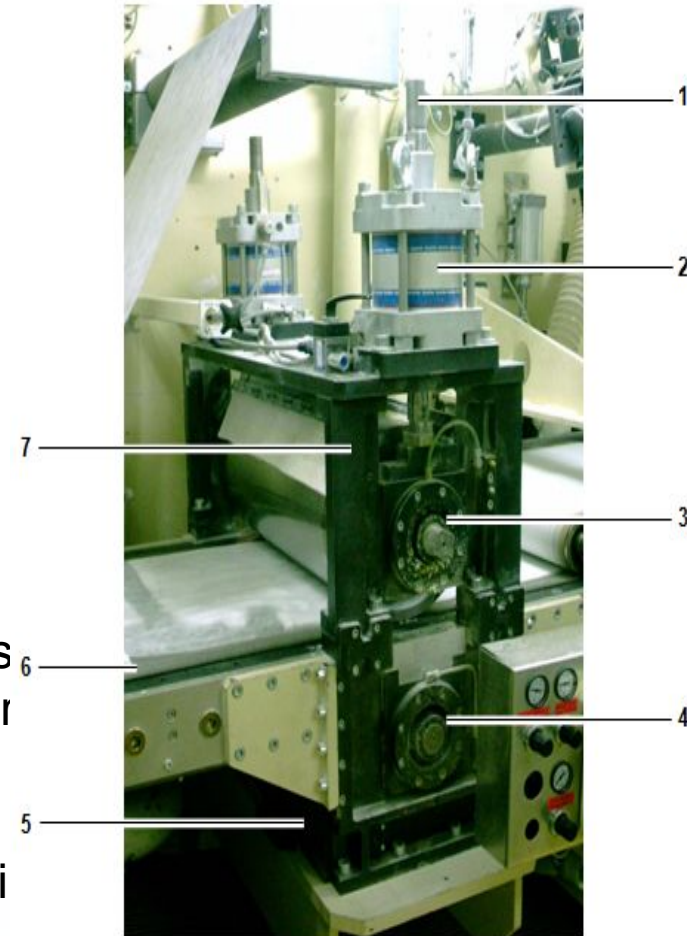
Place: on the KU#8 line (1st pressure station)

Type of injured: nail phalanx fracture

Circumstances:

In the day shift at around 14:00 shift mechanic on KU#8 machine was doing a change-over process according to the procedure and the check-list. At one of the operations he had to change the spacer parts to regulate 1st pressure station, directly after the glue application. After changing the spacer parts he was adjusting the screw fixation (part #1 on the picture), in order to do this he was activating the pneumatic key of the cylinder up and down (part #3).

At this moment, he did not pay attention that his finger is still in the working area of the cylinder (between upper and bottom position of the cylinder – part #2) with his right hand and activating the cylinder by pneumatic key (part #3) with his left hand. In the next moment his 4th finger was partly damaged (nail phalanx fracture).



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Basic cause:

- Fast movement of the cylinder from upper to bottom position (air damper is not regulated properly)

Another causes:

- violation of the safety requirements by operator
- lack of safety discipline on the shop floor level

Corrective measures:

- Adjust properly air damper for slower movement (This was done immediately after accident)
- All employees of production department were instructed
- Reviewed and implemented additional safety instructions for change-over process

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Date: 16.12.2015

Place: on KU#8 line (PSM, bag packing machine)

Type of injured: incised wound of the right hand

Circumstances:

In the night shift at around 1:15 the operator on the KU#8 line operator was doing an adjustment of commissure of packets with pads, namely, the direction of flow of compressed air. When he was doing an adjustment of the direction of flow of compressed air, the welding bar, put down and cut right wrist of the operator (around 2 sm in length and 1 sm in depth). Before starting this activity, the operator did not stop PCM machine and did not checked the end switch. The end switch was not reliably fasten on protection door, when the accident happened.



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Basic cause:

- The end switch was broken. The end switch was not fastened on protection door.

Another causes:

- lack of safety discipline on the shop floor level
- violation of the safety requirements by operator
- low control for technical safety equipments

Corrective measures:

- The end switches was fasten on protection door and checked another end switches on lines. (This was done immediately after accident.)
- All end switches was fasten reliably , with out opportunities to take off it easy with simple equipment (e.g. screwdriver).
- All employees of production department were instructed
- Process and procedures of technical maintenance was reviewed and improved

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Main challenge 2016:

1. Reduce the number of incidents to 0
2. Install special barriers in workplaces with risk of falling down.
3. Conduct HSE training course for 100% employees in BDI
4. Reduce quantity of waste production by 2%
5. Increase quantity recycle waste by 2%
6. Conduct (сохранение) low level limit of dust (cellulose) in workplace and outside (outdoors).
7. Reduce noise on workplace by means of additional technical measures on production lines KU-8, MMF-1
8. Conduct fire protective measures for saving zero level of fires