Unloading of live poultry

SZLACHET STAL ®

A modern system for the transport of live birds that ensures their safety and improves slaughter operations.

Many years of experience in the poultry industry and gained knowledge allowed us to find the perfect technological solution for the first process at the slaughterhouse. The system ensures the safety for a single bird, which pass onto increase in the efficiency of the slaughter process, and thus profit upgrowth!

SZLACHET STAL ®

Technical data

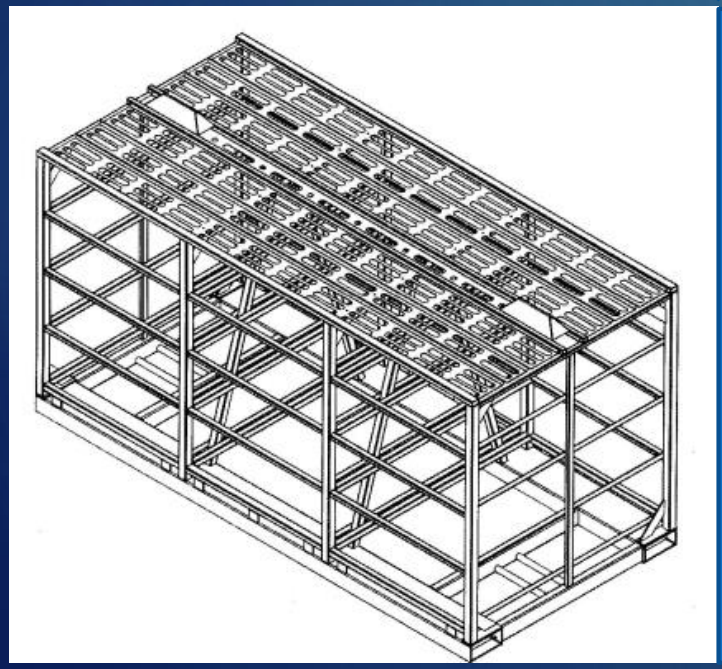
	Galvanized container	High orange box	Semi trailer
Length [m]	1,17	1,16	13,6
Width [m]	2,48	0,77	2,48
Height [m]	1,3	0,255	2,8

	Weight [kg]
Container	270
Crate	9

TECHNOLOGY

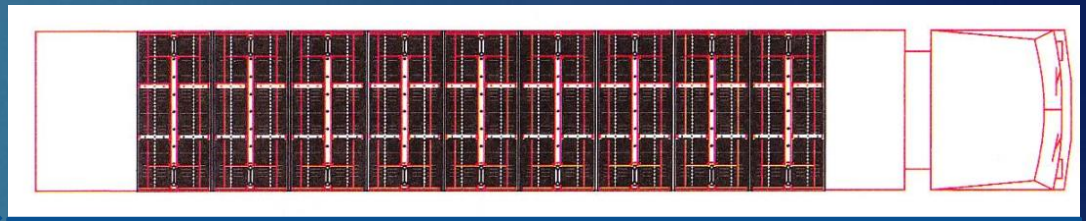
Standard box

Contains 18-22 chickens depending on the weight of the chicken



Container:

- It has 4 levels
- Contains 12 containers



Semi trailer

- Holds 22 containers
- Containers are stacking- on the trailer are 2 floors with 11 containers on each.

STAGES OF THE PROCESS

SZLACHET STAL ®

UNLOADING

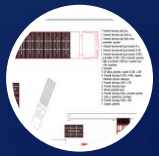
The container is unloaded using a forklift truck.
It is not required for the slaughterhouse to have a forklift truck. On request, the car will be equipped with.

CHAIN HEAVY CONVETOR NO 1.

From the car the container gets to the chain heavy conveyor.One track is composed of three conveyors guarantee smooth operation passing the containers to the next stage.

EJECTOR

Stage of automatic unloading of chicken containers. The ejector moves the containers on the conveyor one at a time, which leads to the separation table of the containers.



PLAN

STAGES OF THE PROCESS

SZLACHET STAL ®

Table

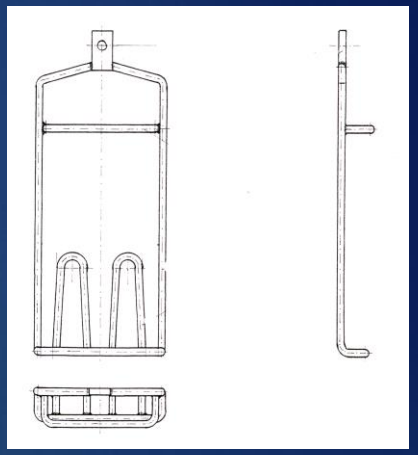
Three containers are pushed together onto a container separation table.

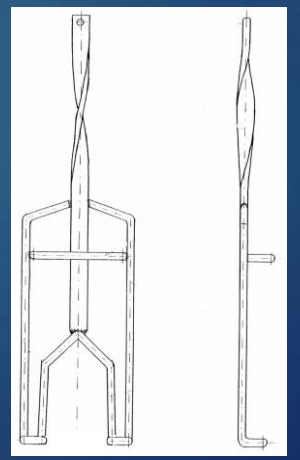
Conveyors no 10,11,12.

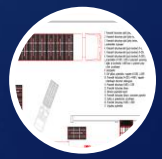
Containers move severally of conveyors to the point of chickens hanging

Point of chickens hanging

There takes place a manual chickens hanging on the shackles (next to are the drawings of two types of slaughter shackles)







PLAN

STAGES OF THE PROCESS

SZLACHET STAL ®

Rotary conveyor

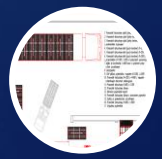
The empty container is transported by an ascending conveyor to the rotary conveyor. Its task is to rotate the container by 90 degrees, to put it into the crate washer.

Crate washer

Spraying of crates caused by suitably selected pressure pumps. The washing machine is equipped with a washing liquid dispenser, which increases the efficiency of washing.

De-stacker

Using a slide and conveyor, crates reach the de-stacker- there is a place, where crates are set in posts of a 4 pieces.



PLAN

STAGES OF THE PROCESS

Container washer

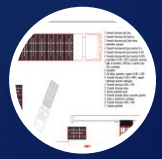
After unloading all the full containers, the container 4 is transported directly to the container. The washing machine is equipped with washing nozzles and a pressure pump which pumps dirty water through a screen sieve, keeping the dirt off. The washing machine works in closed water, guarants high water saving.

Automatic loading of containers

Once cleaned, the container is transported via conveyor no. 4 to conveyor No. 5 where the containers are automatically loaded.

Container loading

Loading containers with empty containers for the car using forklift trucks.



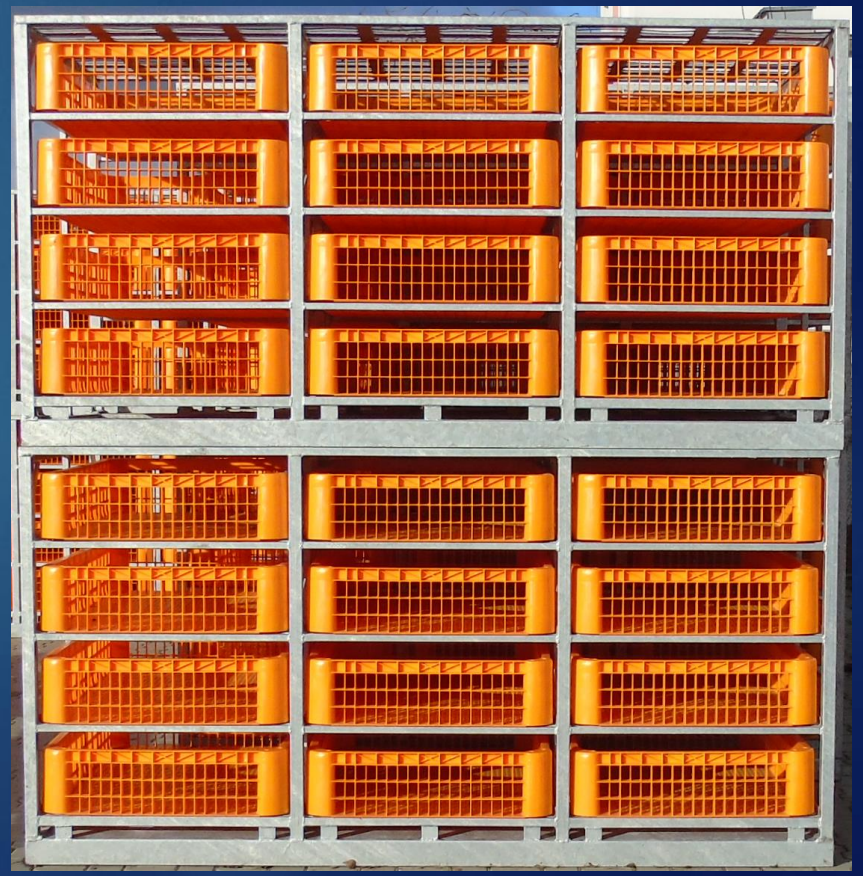
PLAN

SUMMARY

The solution allows to transport 264 containers, which means that the slaughterhouse reaches the safe

5808 birds!

(when loading 22 pieces into one container)



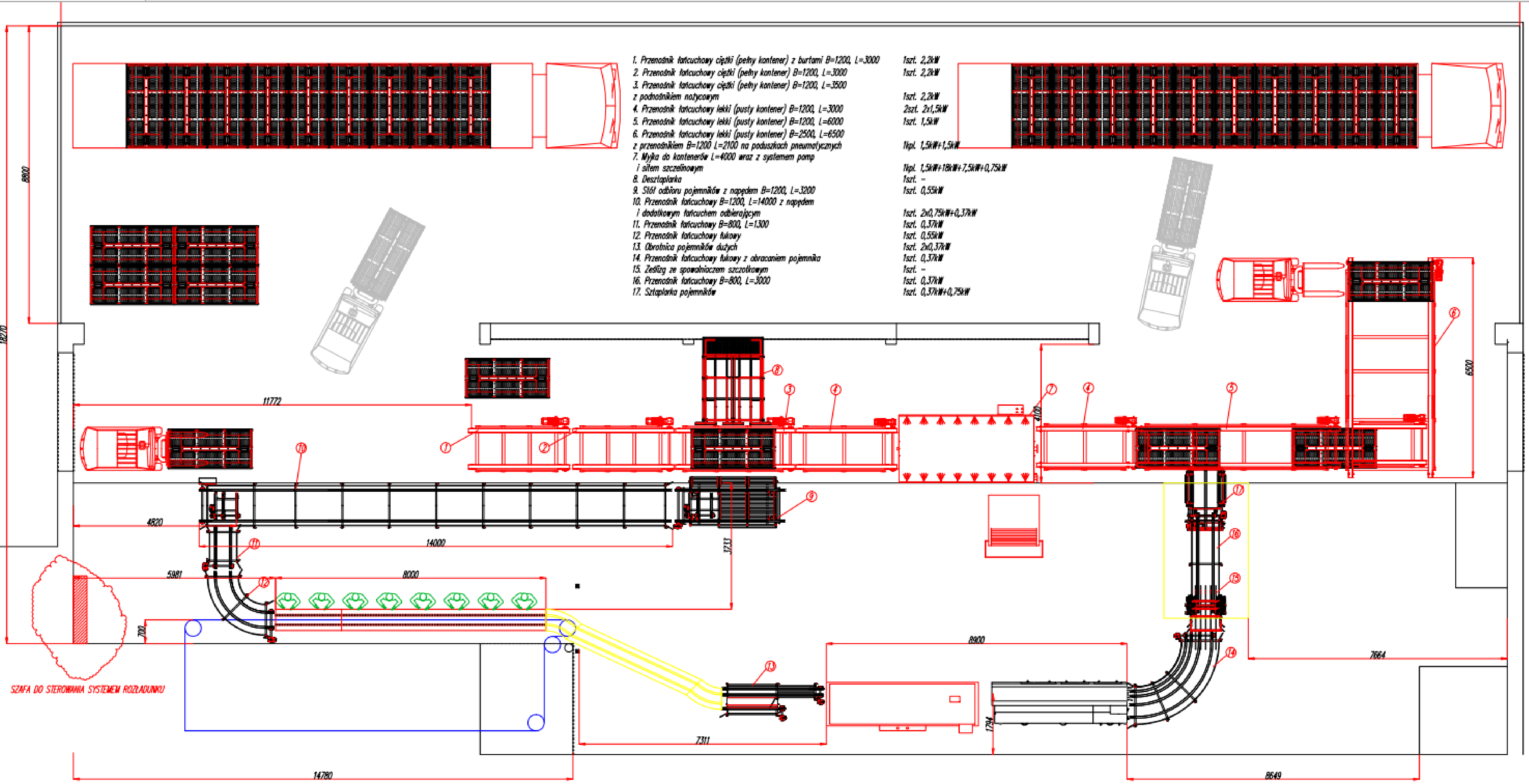
SZLACHET

STAL

®

Film

PLAN


1. Przenośnik łańcuchowy ciężki (pełny kontener) z burtami B=1200, L=3000 1szt. 2,2kW
2. Przenośnik łańcuchowy ciężki (pełny kontener) B=1200, L=3000 1szt. 2,2kW
3. Przenośnik łańcuchowy ciężki (pełny kontener) B=1200, L=3500
z podnośnikiem nożycowym 1szt. 2,2kW
4. Przenośnik łańcuchowy lekki (pusty kontener) B=1200, L=3000 2szt. 2x1,5kW
5. Przenośnik łańcuchowy lekki (pusty kontener) B=1200, L=6000 1szt. 1,5kW
6. Przenośnik łańcuchowy lekki (pusty kontener) B=2500, L=6500
z przenośnikiem B=1200 L=2100 na poduszkach pneumatycznych 1kpl. 1,5kW+1,5kW
7. Myjka do kontenerów L=4000 wraz z systemem pomp
i sitem szczelinowym 1kpl. 1,5kW+18kW+7,5kW+0,75kW
8. Destaplarka 1szt. –
9. Stół odbioru pojemników z napędem B=1200, L=3200 1szt. 0,55kW
10. Przenośnik łańcuchowy B=1200, L=14000 z napędem
i dodatkowym łańcuchem odbierającym 1szt. 2x0,75kW+0,37kW
11. Przenośnik łańcuchowy B=800, L=1300 1szt. 0,37kW
12. Przenośnik łańcuchowy łukowy 1szt. 0,55kW
13. Obrotnica pojemników dużych 1szt. 2x0,37kW
14. Przenośnik łańcuchowy łukowy z obracaniem pojemnika 1szt. 0,37kW
15. Ześlizg ze spowalniaczem szczotkowym 1szt. –
16. Przenośnik łańcuchowy B=800, L=3000 1szt. 0,37kW
17. Sztaplarka pojemników 1szt. 0,37kW+0,75kW
SZAFA DO STEROWANIA SYSTEMEM ROZŁADUNKU
18270
8800
11772
4820
14000
5981
8000
3733
700
14780
7311
8900
1794
8649
7664
6500
4000