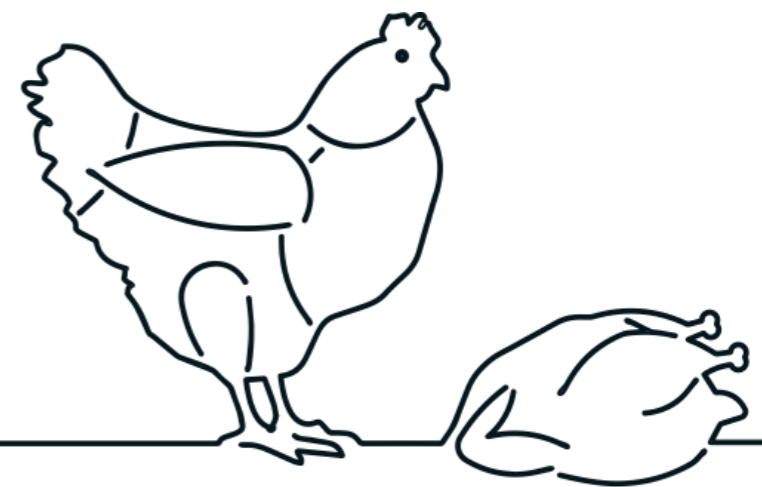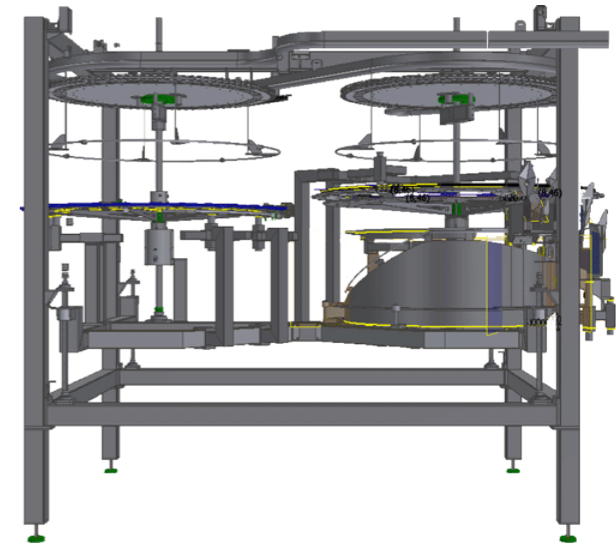# 'Head-only' electrical stunning
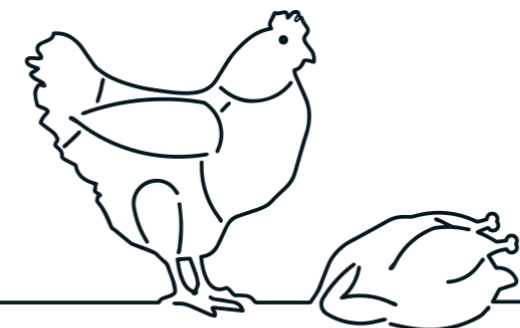
Dutch Vision Solutions – Introduction

- 20 years worldwide experience in poultry processing

- Developing quality poultry processing machines.

(Dedicated technology for killing, eviscerating, air chill, weighing, cut-up lines, ict-tools and cleaning.)
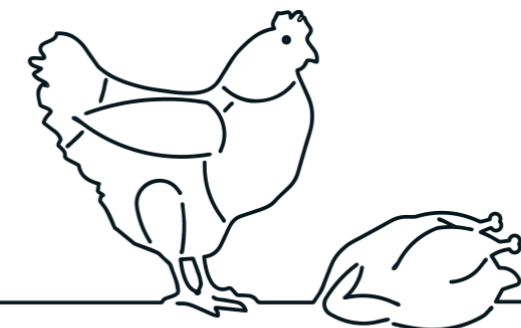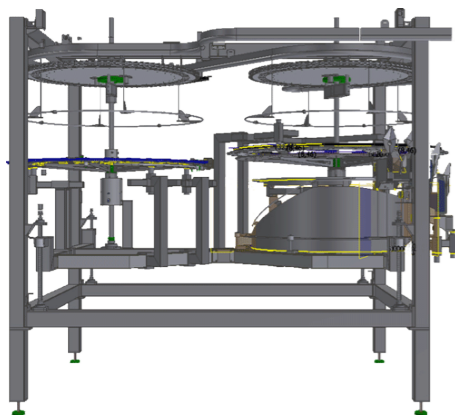
- All Dutch Vision Solutions' applications within

(WATOK, EC1099 and/or EFSA)

Electrical stunning:

Waterbath
Head-only

Legislation: Watok, EC1099 , EFSA

Efficiency

Waterbath - non-controlable/ mass-stunning
Low performance

Head-Only Stunner - Fully controlable / indivudual stunning
High performance

Entering stunningwheel

Stunned broilers

'Head-only' electrical stunning

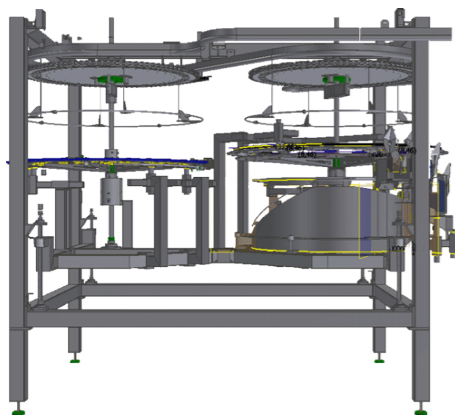The only legally an Halal accepted *reversible stunning* to date

Applicable *in lines from 1000 > 14000 bph*

When fully automated *99,5% efficiency (incl KLS systeem)*

Fully controlable proces – individual meassurement

Improved *product quality*

Limited floorspace, only 16m2 + 9000 bph

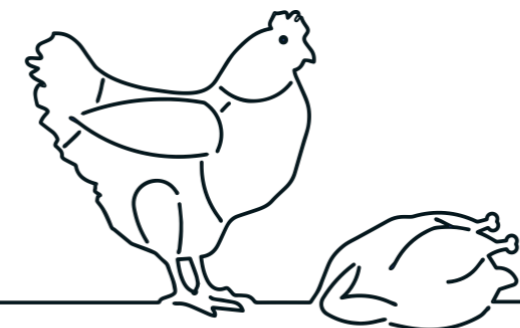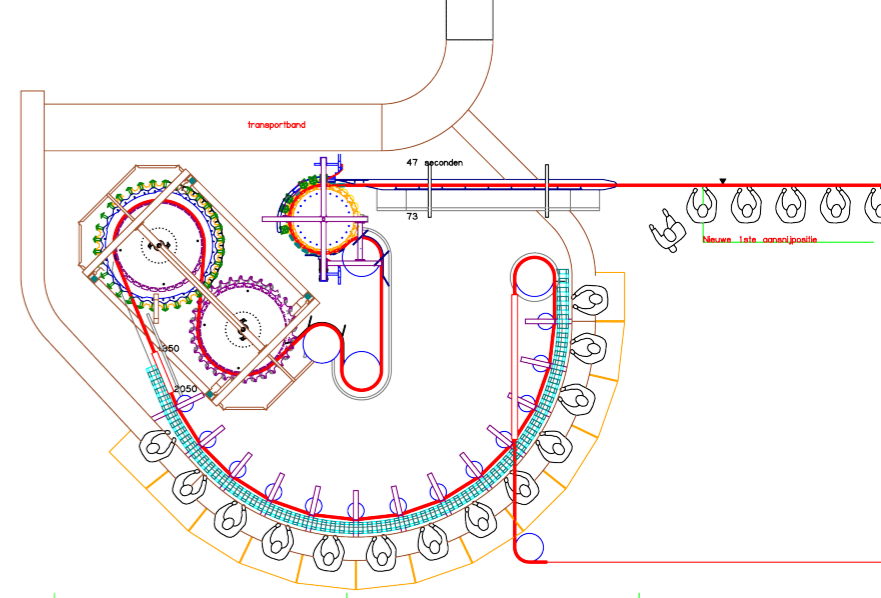**Poultry Vision** *Farm Animal Welfare Committee*

Reseach
'Head-only' electrical stunning

Tested by Wageningen University based on EC1099, WATOK and EFSA rules,

legislations and opinions

Animal welfare
and 'Head-only' electrical stunning

- 99,5% well stunned annimal

Cummulated Percentage of the Head-only electrical stunner (96,4%)

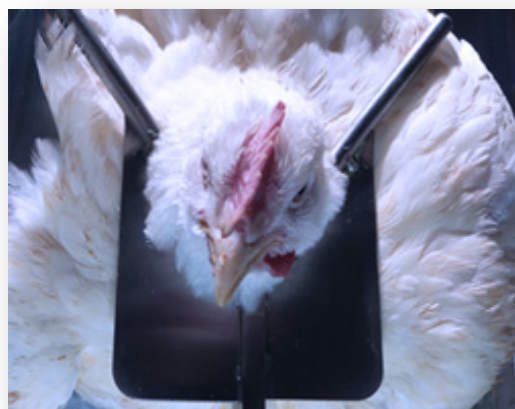*and the KLS-splitter through the additional waterbath*

the percentage increases with 3,1% to 99,5%.

- Stress reduction

Incorporated breast support

Depending of layout: First shackling to stunner < 30 seconds

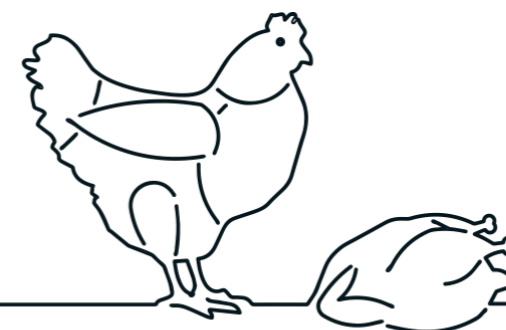Depending of layout a convayorbelt in feed

Poultry Vision *Farm Animal Welfare Committee*

VIDEO

VIDEO
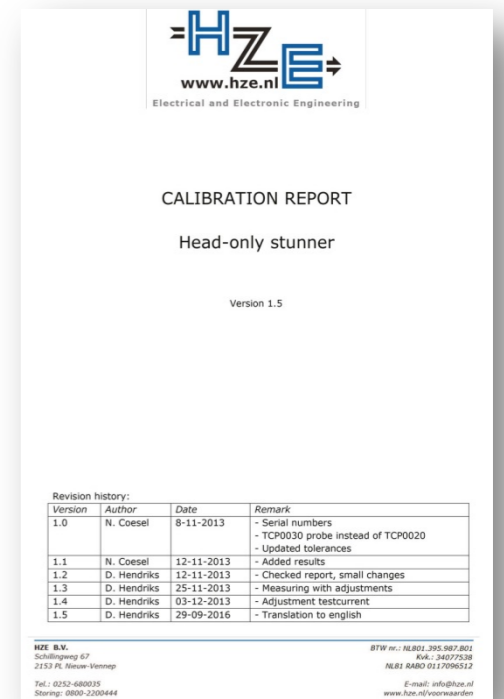
'Head-only' stunning

KLS - Splitting

Controlling the Head-only proces

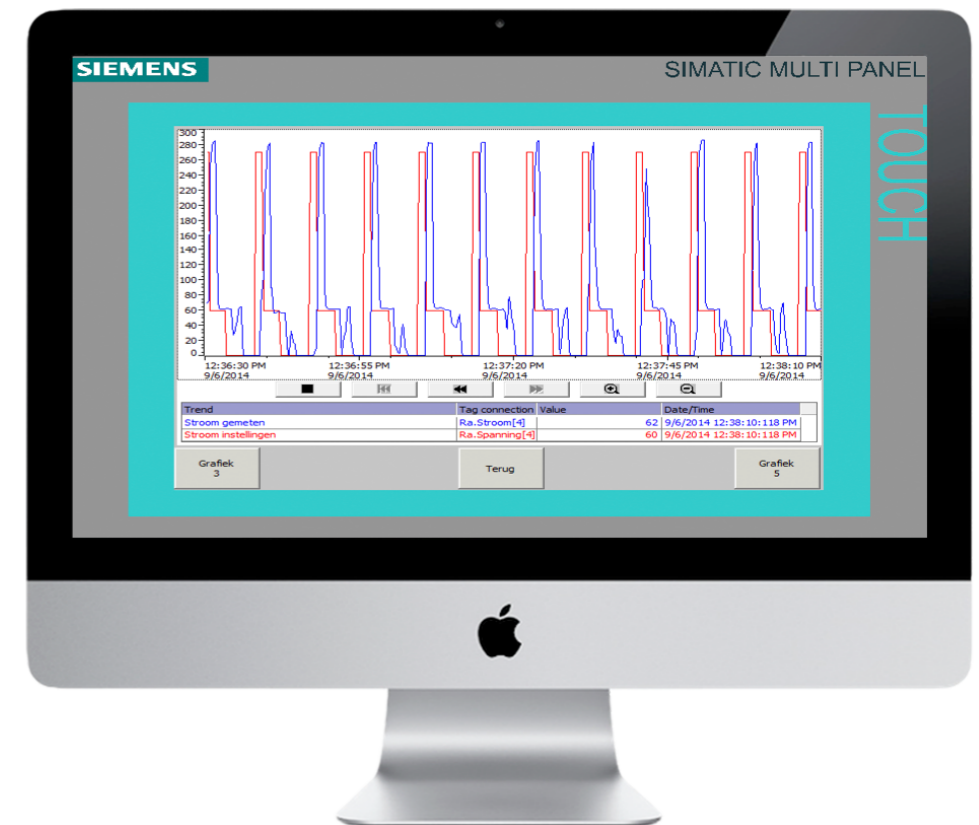- All machines come with independent calibrating report
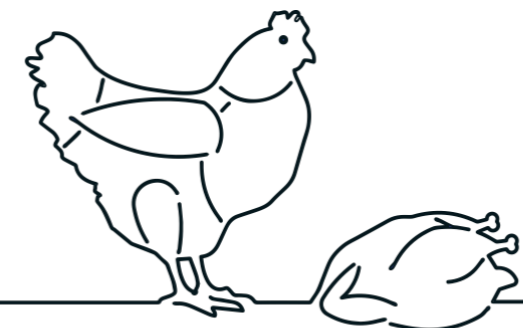
- Head only monitoring software
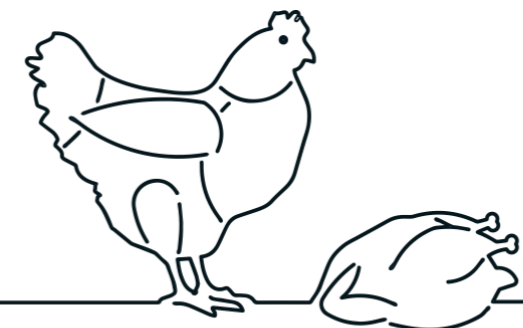
Realtime monitoring the process = Control

Head-only software
Controlling the process

Real time procescontrol
Monitoring each stunning-unit

Control - Logdata

Saved data

Logdata per batch

Set mA	Actual mA	Voltage
270	281	93
270	282	112
270	282	112
270	282	112
270	282	112
270	285	104
270	286	104
270	286	104
270	286	104
270	286	104
270	282	104
270	282	104
270	282	104
270	282	104
270	282	104
270	284	102
270	284	102
270	284	102
270	284	102
69	284	102
69	124	80
69	67	39
69	67	30
69	67	30
69	67	30
69	65	30
69	65	30
69	65	30
69	0	0
69	0	0
69	0	0
69	0	0
	0	0

Footprint individual broiler

Poultry Vision *Farm Animal Welfare Committee*
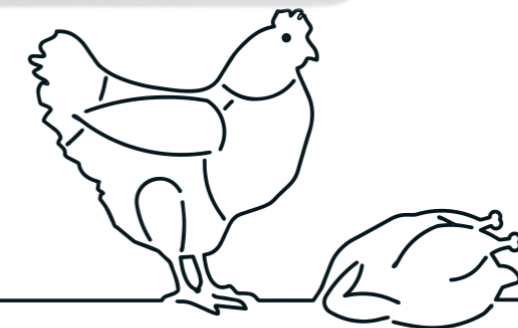
Control: Quick Reference

Real time
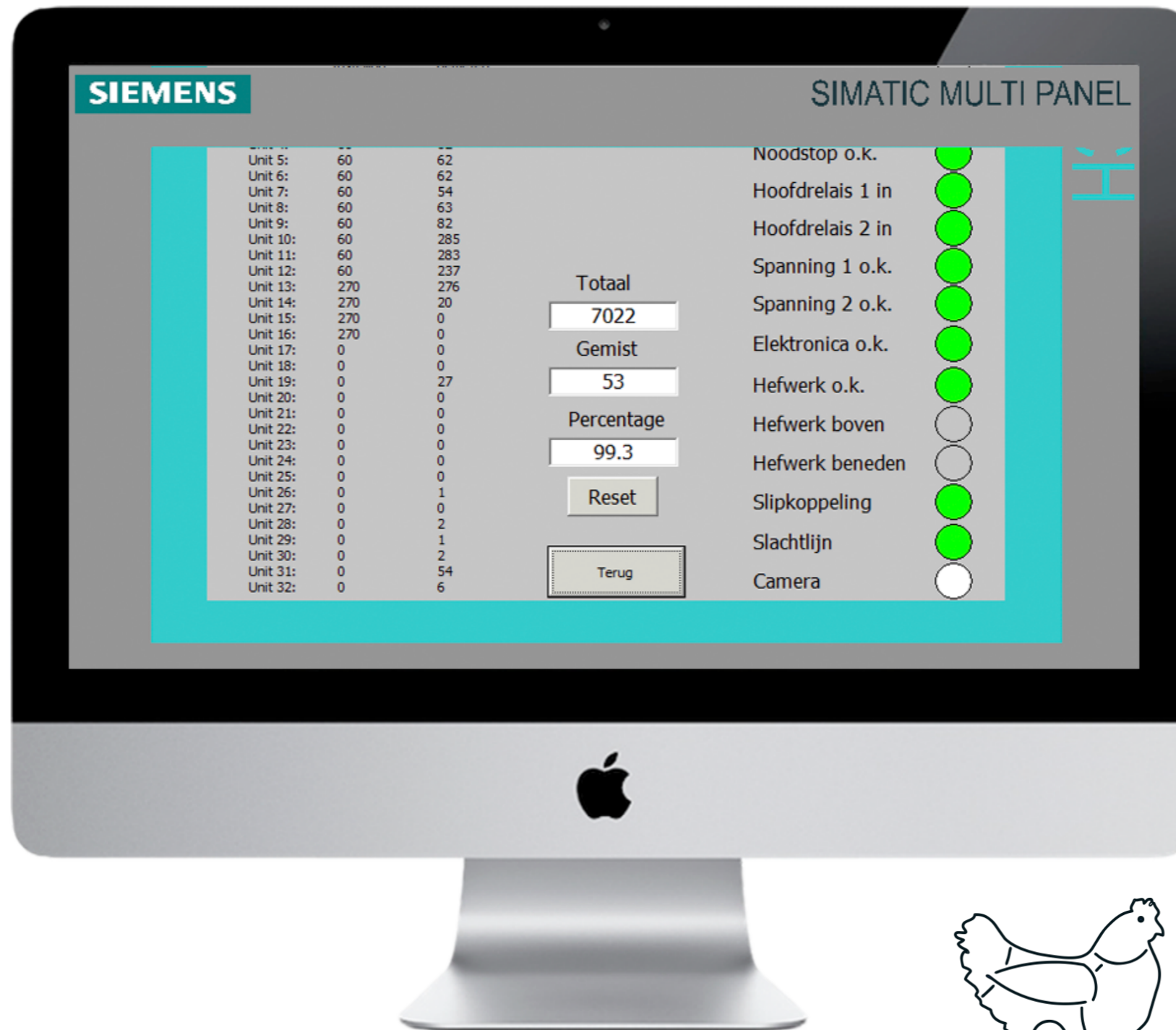
Poultry Vision *Farm Animal Welfare Committee*
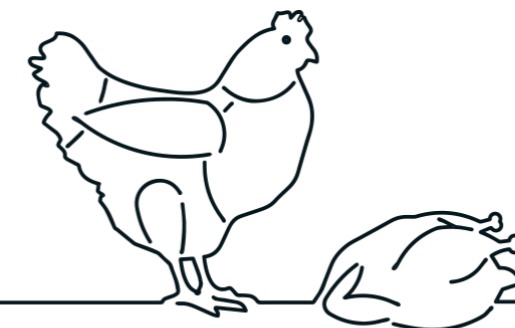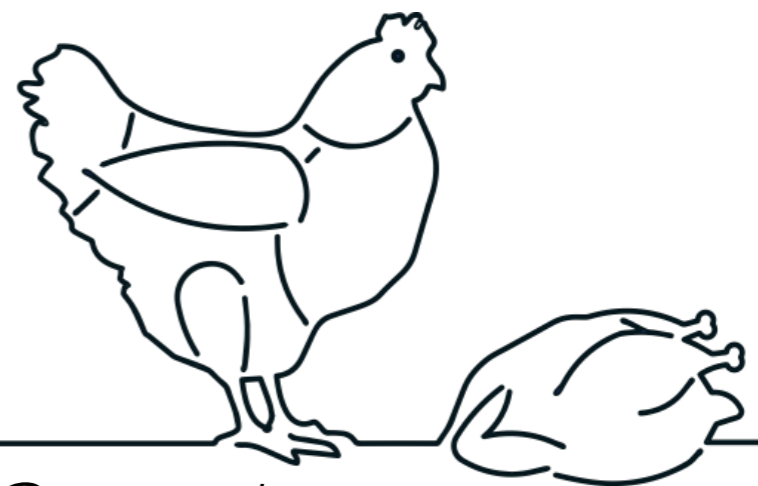
99,5% well stunned animals

Controlled individual stunning

Reversible Stunning

Limited Floorspace

Halal accepted reversible stunning

Thank you

Poultry Vision *Farm Animal Welfare Committee*