

## MEYN MULTISTAGE CO<sub>2</sub> STUNNING SYSTEM

LIVE BIRD HANDLING | SLAUGHTERING | EVISCERATION | CHILLING | CUT UP | DEBONING | WEIGHING - GRADING - LOGISTICS

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Live bird handling at the plant is eliminated An unrivaled strong reduction of wing breakage Compliant with all arrival systems and capacities A very stable, reliable and trouble free process

NOTION.



## Meyn multistage CO<sub>2</sub> stunning system

When Meyn developed its new multistage  $CO_2$  stunning system, a lot of attention was given to animal welfare. As the birds remain in the drawer or container during stunning, the handling and transport of active birds is completely eliminated. This largely reduces handling stress and thus risk on injuries to the birds. The closed cabinet construction allows for the  $CO_2$  concentration to be managed perfectly in every stage of the process. This ensures a humane stun and greatly improves product quality.

The Meyn multistage  $CO_2$  stunning system forms an integral part of the Meyn live bird handling systems. Both new as well as existing configurations can be extended with this innovative stunning system.



A configuration of container conveyors including a shuttle track supplies containers to the stunning cabinets fully automatically. Depending on container load and line capacity the system comprises one to four stunning cabinets, each of which can hold either a single or a stack of two containers. Once inside the stunning cabinet, the CO<sub>2</sub>

stunning sequence is started and the multistage process is carefully executed, ensuring a humane but irreversible stun. Upon completion of the stun cycle, the containers are automatically transported, destacked and unloaded. The Meyn system suits all relevant container types including drawer system modules.





# **IMPROVED QUALITY AND ANIMAL WELFARE** with Meyn's multistage CO<sub>2</sub> stunning system



Wing joints	A-grade	B-grade	Downgrade
Water bath stunning according EU legislation	54%	35%	11%
Meyn multistage CO <sub>2</sub> stunning system	82%	14%	4%

Research shows that using the Meyn multistage CO<sub>2</sub> stunning system, you are assured of a higher yield through less trimming loss and less B-grade products. This as a result of the improved quality of the breast fillet, thighs and wings (less blood spots).

Furthermore, the system considerably enhances the working conditions of your personnel and improves animal welfare conditions, meeting the ever increasing public and consumer demands.

## Meyn multistage CO<sub>2</sub> stunning system





Туре		1 container 4 layers	1 container 5 layers	2 containers 5 layers	2 containers 4 + 5 layers	2 containers 4 layers	2 containers 5 + 6 layers		
Total length (L1)	mm	3,350	3,350	3,350	3,350	3,350	3,350		
Length for transportation of lower part (L2)	mm	2,880	2,880	2,880	2,880	2,880	2,880		
Length for transportation of upper part (L3)	mm	3,200	3,200	3,200	3,200	3,200	3,200		
Total width (W1)	mm	2,270	2,270	2,270	2,270	2,270	2,270		
Width for transportation (W2)	mm	2,180	2,180	2,180	2,180	2,180	2,180		
Total height (H1)	mm	3,720	3,980	5,400	5,140	4,880	5,660		
Height for transportation of lower part (H2)	mm	920	920	2,340	2,080	2,080	2,600		
Height for transportation of upper part (H3)	mm	2,200	2,460	2,460	2,460	2,200	2,460		
Container transport height (H4)	mm	750	750	750	750	750	750		
Container (stack) height (H5)	mm	1,315	1,575	2,995	2,735	2,475	3,255		
Weight	kg	2,930	3,040	3,300	3,230	3,160	3,440		
Electric power installed (drive transportrollers)	kW	0.75	0.75	0.75	0.75	0.75	0.75		
Electric power installed (fan)	kW	4	4	4	4	4	4		
Electric power installed (cabin lighting)	kW	0.072	0.072	0.072	0.072	0.072	0.072		
Electric power installed (analyzer)	kW	0.11	0.11	0.11	0.11	0.11	0.11		
Electric power installed (roll up door)	kW	1	1	1	1	1	1		
Compressed air connection hose diameter (A)	BSP	1/4″	1/4″	1/4″	1/4″	1/4″	1/4″		
Compressed air consumption at 5bar average	nm³/hr	0.6	0.6	0.6	0.6	0.6	0.6		
Compressed air consumption at 5bar maximum	nl/min	250	250	250	250	250	250		
CO <sub>2</sub> consumption during injection	kg/s	0.5	0.5	0.5	0.5	0.5	0.5		
CO2 connection (B)	BSP	1.1/2″	1.1/2″	1.1/2″	1.1/2″	1.1/2″	1.1/2″		
CO <sub>2</sub> supply temperature	°C	30	30	30	30	30	30		
Safety valve discharge hose (D)	mm	60x4	60x4	60x4	60x4	60x4	60x4		
Exhaust duct diameter (C)	mm	400	400	400	400	400	400		
Note, The CO, supply is applied only once per line 1, 2, 3 or $A$ CAS, units are connected to a single CO, supply unit									

Note: The  $CO_2$  supply is applied only once per line. 1, 2, 3 or 4 CAS-units are connected to a single  $CO_2$  supply unit.

#### HEAD OFFICE

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