

Solutions for today, Innovations for tomorrow.



HIGH SPEED LINKING AND HANGING SYSTEM FOR NATURAL CASING

# MACHWEL-MARK III

**PATENTED**



# **STUFFWEL MACHWEL-MARK III**

**High speed linking system for natural and collagen casings**

**The Machwel offers advanced performance capabilities in a compact format.**

Equal Length - Equal Weight - Equal Diameter  
Combined with superior particle definition



Product Flexibility:

The flexible solution to link and hang:

- Natural casing sausages
- Collagen links
- Snack sticks
- Cellulose casing hot dogs

Operators are able to switch between natural, collagen or cellulose casings in a matter of minutes

## **LINK SEPARATOR**

An optional cutting head is available to cut fresh sausages as they are being linked. The cutting is precise, and occurs in the center of the twist. High volume of natural sheep, hog and/or collagen casings can be handled in a snap

## **Operator friendly monitor**

All your necessary information displayed at a moment's notice, quick and easy

## **Simple product changeover**

1. Confirm product details and setup details
2. Select pre-programmed product code
3. Load casings and push the start button

Everything is stored and pre-determined. Linker- and pump speed, casing control, twist etc... the same every time!!

## **Maintenance and troubleshooting:**

If any type of problems occur during operation, its location will be displayed immediately. Also, it can quickly be resolved with a flow chart for the machine.



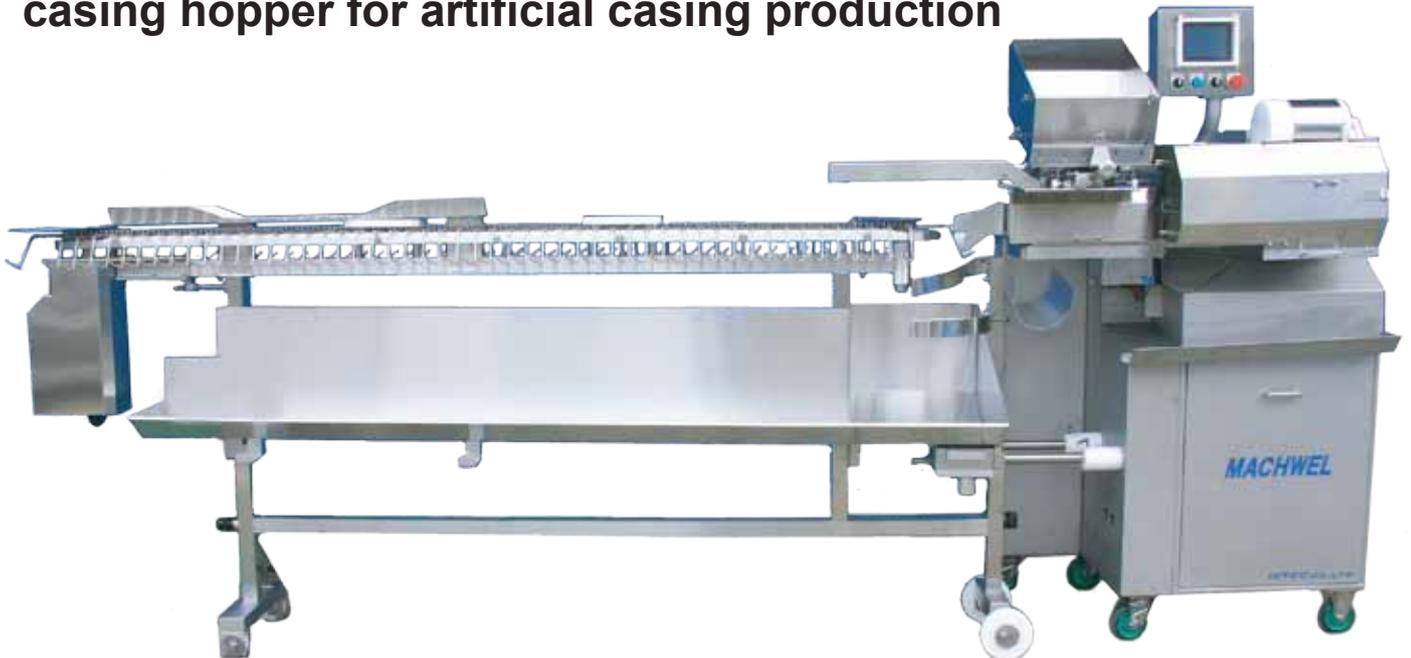
## **Automatic casing follower and rear end detector**

This system reduces the number of operators when stuffing natural casing sausages. During the linking process, the casing is being advanced forward through the follower mechanism. Once the casing comes to the end, the linker stops, follower retracts and allows the reloading of the next casing. This all happens automatically without human intervention.



## Machwel the flexible production solution

**Machwel with hanging conveyor and removable casing hopper for artificial casing production**



**Machwel with removable casing hopper and link cutting chain for fresh sausage links in collagen casing**



### **Casing Feeder**

The Machwel features Hitec's unparalleled easy to operate casing feeder. The design allows simple and reliable feeding of the casings. The hopper is removable and allows fast changeovers between artificial and natural casings operation

**Machwel in linking and hanging mode  
for natural casing sausages**

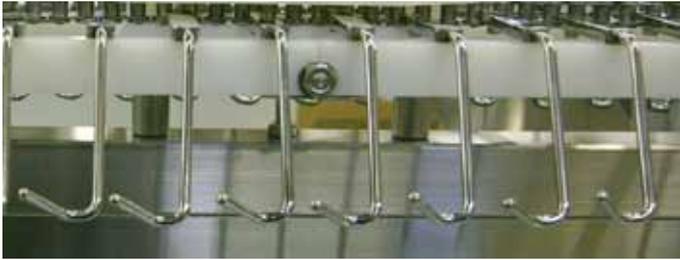


**Machwel with link cutting head  
in natural casing stuffing mode**



***MACHWEL***  
***-MARK III***

# Hitec Hook Design Options



**Multi type casing round bar hook**



**Natural casing plate hook**

Other hook designs available for ring sausage or other specialized applications.

**RS × Pitch**

CONVEYOR CHAINS					
Calculation example 1inch=25.4mm RS50=5/8inch RS60=3/4inch RS50 × 3 P =25.4mm × 5/8 × 3 =47.625mm	RS50 × 3 P  1-7/8" STD HOOK CONVEYOR	RS50 × 2 P  1-1/4" CLOSE HOOK CONVEYOR	RS60 × 2 P  1-1/2" MEDIUM HOOK CONVEYOR	RS50 × 4 P  2-1/2" WIDE HOOK CONVEYOR	Also available RS60 × 3 P  2-1/4"
Hook distance	1 7/8 inch 47.625 mm	1 1/4 inch 31.75 mm	1 1/2 inch 38.1 mm	2 1/2 inch 63.5 mm	2 1/4 inch 57.15 mm



# Multi stuffing tube revolver head

The multi stuffing tube turret (revolver head) allows:

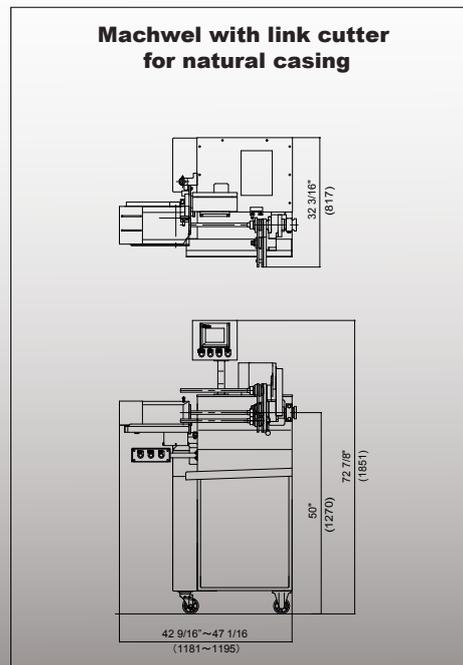
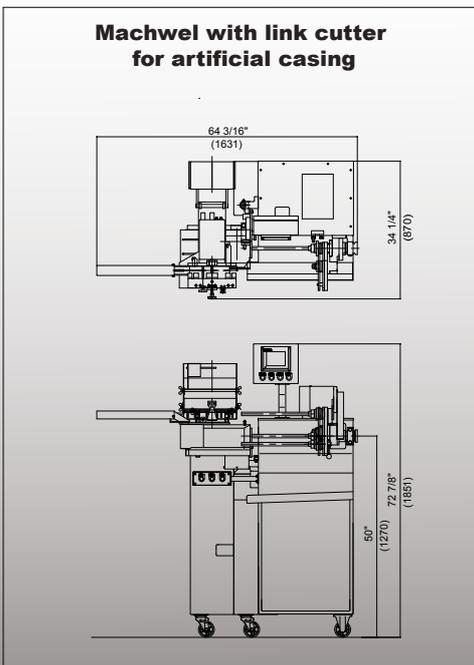
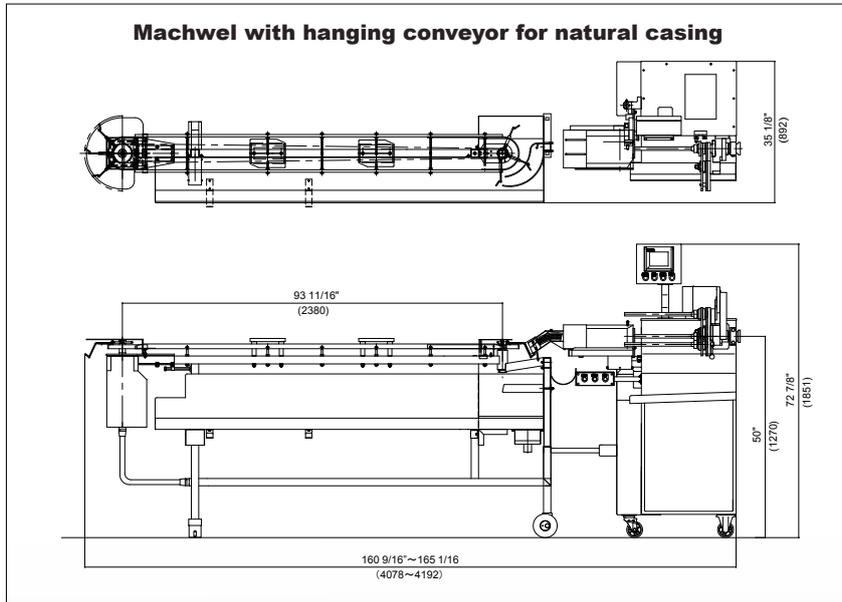
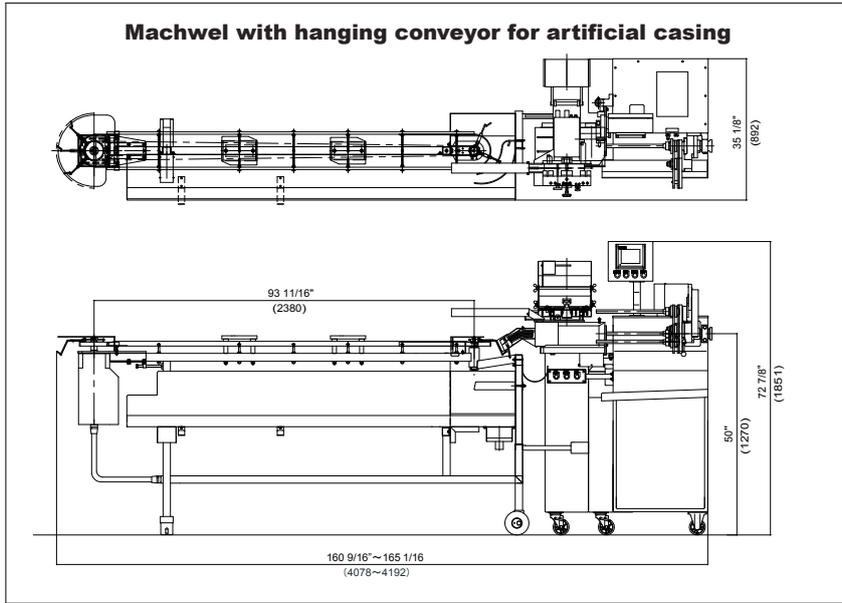
- pre-feeding of natural casings
- up to 20% increased production output
- faster cycle times
- reduced machine stopping / waiting time



Comparison between standard one tube linker and MACHWEL- MKIII with revolver head

	One tube linker	Revolver head
Stuffing Tube	1	3
Average Operation Rate	55%	65%
Production / hour	300 kg / 660 lbs	420 kg / 925 lbs

# OVERALL DIMENSION



## ■ SPECIFICATION

Production Rate	Artificial Casing	Max. 3,200kg/hr (7,000 lb/hr)
	Natural Casing	Max. 800pcs./min

Dependent on casing quality, product size, weight and/or factory conditions.

Product Size	Artificial Casing	3 pitches (28.6 mm , 1 1/8 in) through 32 pitches (304.8 mm, 12 in) or more.
	Natural Casing	3pitches (28.6 mm , 1 1/8 in ) through 20 pitches (190.5 mm, 7 1/2 in)or more

Longer sizes can be applied with HITEC'S optional unit.

Casing Size	MACHWEL-MARKⅢ	
Diameter	Sheep Casing	14mm ~ 25mm
	Hog Casing	26mm ~ 36mm
	Artificial Casing	13mm ~ 32mm
Shirred Length	Artificial Casing	280 mm , 11 1/32 in                      300 mm , 11 13/16 in

### Machine Size

Total Machine size	MACHWEL-MARKⅢ	Hopper for Artificial Casing	8F conveyor
Height	1,851mm(72 7/8 in)	1,727mm(68 in)	1,320mm(52 in)
Tube height	50 in(1,270 mm)	1,270mm(50 in)	1,270mm(50 in)
Length MAX	1,195mm(47 1/16 in)	904mm(35 5/8 in)	2,999mm(118 1/16 in)
Width	817mm(32 3/16 in)	870mm(34 1/4 in)	795mm(31 5/16 in)
Weight	400kg (882 lb)	50kg (110lb)	190kg (418lb)

Net (Machine dimension and weight)	MW-MKⅢ + Hopper + 8F conveyor	MW-MKⅢ + 8F conveyor	MW-MKⅢ + Hopper	MW-MKⅢ
Height	1,851mm(72 7/8 in)	1,851mm(72 7/8 in)	1,851mm(72 7/8 in)	72 7/8 in(1,851mm)
Tube height	1,270mm(50 in)	1,270mm(50 in)	1,270mm(50 in)	1,270mm(50 in)
Length MAX	4,192mm(165 1/16 in)	4192mm(165 1/16 in)	1631mm(64 3/16 in)	1195mm(47 1/16 in)
Width	892mm(35 1/8 in)	892mm(35 1/8 in)	870mm(34 1/4 in)	817mm(32 3/16 in)
Weight	640kg (1,411 lb)	590kg (1,300 lb)	450kg (992 lb)	400kg (882 lb)

### REQUIREMENTS

Electrical Requirements	Three-Phase 6,775W	
Pneumactical Requirements	Quality	clean and dry
	Pressure	520 kPa (5.2 bar)                      75 psi
	Consumption	1 L, (1,000 cm <sup>3</sup> ) per min                      60 in <sup>3</sup> per min
Water Requirements	Quality	Clean and drinkable water
	Pressure	280-410 kPa (2.8-4.1 bar)                      40-60 psi
	Consumption	1 L, (1,000 cm <sup>3</sup> ) per min                      60 in <sup>3</sup> per min
Emulsion Requirements	Pressure	500 kPa (5 bar)                      72 psi
	Consumption	Max. 3,200kg/hg                      Max. 7,000 lb/hr
	Piping	Largest diameter and shortest length

※ Specifications and equipment are subject to change without any obligation on the part of manufacturer.

※ The above production rate is subject to change due to the conditions such as production item, factory and other conditions.

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