

Solutions for today, Innovations for tomorrow.

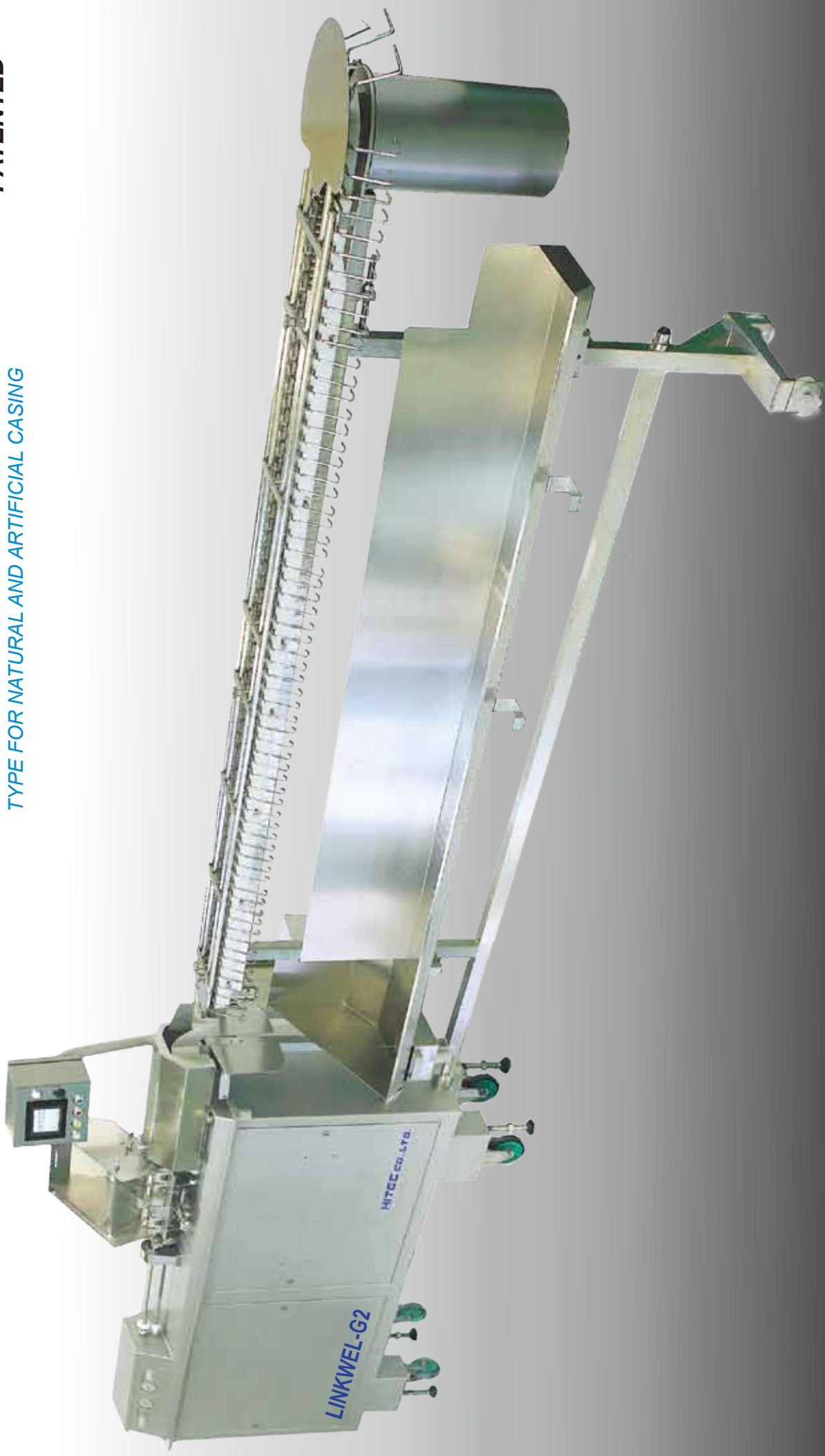
**HITEC**

HIGH SPEED LINKING AND HANGING SYSTEM FOR ALL TYPE CASING

# LINKWEL-G2

TYPE FOR NATURAL CASING  
TYPE FOR NATURAL AND ARTIFICIAL CASING

**PATENTED**



# LINKWEL-G2

**The new and improved LINKWEL-G2 offers advancements in operations, maintenance, sanitation, durability, cycle time and over all versatility to the user.**

## **Servo operated metering pump**

Hitec engineers utilize the servo motor in order to eliminate costly clutch components and maximize sausage count.

## **Independent Electrical Control for Drive**

Metering Pump, Twister and Stuffing Tube Rotary Head, Linking Chain, and Conveyor are driven by motors independently and each motor is under separate electrical control. Such independent drive and separate control achieves highspeed stuffing of sausages made with natural casing. In addition, structure of drive transmission made as simple as possible has not only reduced the number of parts used but also improved durability in drive transmission parts, thus preventing occurrence of troubles and cutting substantial time, cost, and difficulty in maintenance.

## **A redesigned main body**

Housed by a completely redesigned main body, all components are very easily accessible. The new "unibody" construction design of the main body not only offers exceptional strength but also insures no problems due to water invasion.

## **Improved electrical design**

All electrical components are housed separately in an exclusive stainless steel waterproof box. Thanks to a much wider door opening, operations such as parts exchanging can be performed very easily.

## **Sanitation**

The top surface of the main cabinet is sloped to eliminate any water and meat, further eliminating any sanitation issues.

## **Faster Cycle Time**

With advance design of the LINKWEL-G2 the casing length has been extended by 10% allowing more output capacity per casing.

LINKWEL-G2 is the industry most advance and versatile machine to stuff Sheep, Hog, Collagen and Cellulose casings with speed and accuracy.



**Production of up to 1,000 links of constant size and weight natural casing sausages per minute. Capabilities include fully automatic high-speed operation for artificial casing.**



**"LINKWEL-G2" is the equal-length, equal-weight, and equal-diameter sausage stuffing machine for natural casing.**

In the conventional production sausages of natural casing sausages, it was considered impossible to make weight and length of sausages constant. However, our new product "LINKWEL-G2" is the world's first sausage stuffing machine that has realized production of natural casing sausages with equal weight as well as equal length.

**"LINKWEL-G2" achieved high-speed production of natural casing sausages.**

It is a machine completed with an idea quite different from the conventional stuffing theory for natural casing sausages. It has realized a production with much higher speed than the conventional natural casing sausages stuffing machine. In addition, since it can be connected including an operation of hanging sausages on rods.

**"LINKWEL-G2" can minimize breakage of casings during stuffing.**

As it employs a stuffing method different from the conventional ones, it drastically decreases the frequency of casing breakage due to a success in a sharp decrease of pressure on casings during stuffing.

**"LINKWEL-G2" has 2types**

One with an automatic casing feeder processes casings of all types and the other is exclusively used for natural casing. "LINKWEL-G2" is the most suitable machine for any kind of casings including sheep, hog, collagen, and cellulose.



### **Automatic encasing system**

Simplified change over to different products  
All adjustments have been simplified and changed to an all stainless steel mechanism. With the new changes has decreased the encasing time allow more productivity.



### **More durable metering pump**

The metering pump offers increased durability compared to conventional ones. Our design offers excellent long term weight control with less necessary overhauls. A servo motor starts and stops the pump precisely without slippage offering exact front ends and tails.



### **OPERATOR FRIENDLY MONITOR**

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

### **Easy changing of products**

Easy as 1.2.3.

1. Confirm you have the correct linking chain, tube size, chuck, and hopper adjustment.
2. Select the desired preprogrammed product code.
3. Push the start button.

Everything is stored and predetermined. Machine speed, pump speed, front and tail of casing, 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.

### **Production control**

All vital data including cycles run, set point, etc can be checked at anytime.

# **LINKWEL-G2**





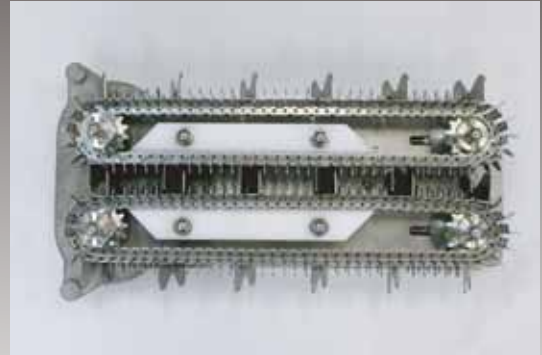
### **Sanitary draining system**

The top surface of the main cabinet is sloped so that water and meat will not collect, in doing this it will allow for a more sanitary surface than previous models. The new design also has been improved to allow better flow of all run off of excess water.



### **Separation of pneumatic parts and electrical parts**

Complete separation of pneumatic parts and electrical parts allows easy and safe repair/adjustment.



### **Various Linking Chain**

Available in various lengths from 3 pitches (28.56mm), as well as half pitch (4.76mm). Also capable of straight stuffing (no twist).



### **Maintenance free no oil twisting system**

Never have to concern about leaks. Direct drive from motor with timing belt brings fewer components and extended parts life. When necessary, replacing parts is done quickly and easily without the need to remove the entire twister assembly.

### **Optional butterfly valve**

This added option will allow exceptional control over the front and tail sections of the casings.

## Stationary chute

A revolutionary breakthrough over the conventional looper horn which moves to hang product over hooks. Our system allows precise hanging by simply allowing the product to "side" to the conveyor hooks without the need for more wear parts as on a looper system.



## Improved cleanability of the universal conveyor

Due to exceptional engineering Hitec was able to improve the cleanability and short the needed time to complete this task. The number of nuts, bolts and screws has decreased significantly.



## Water Device



With installing an optional water device, the process of tying the casings in the front and the tail has been eliminated. This device helps to increase both productivity and casing utilization.

\*Patent applied for "Water Device"

## Hitec hook design options



**Natural casing plate hook**

**Multi type casing round bar hook**

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

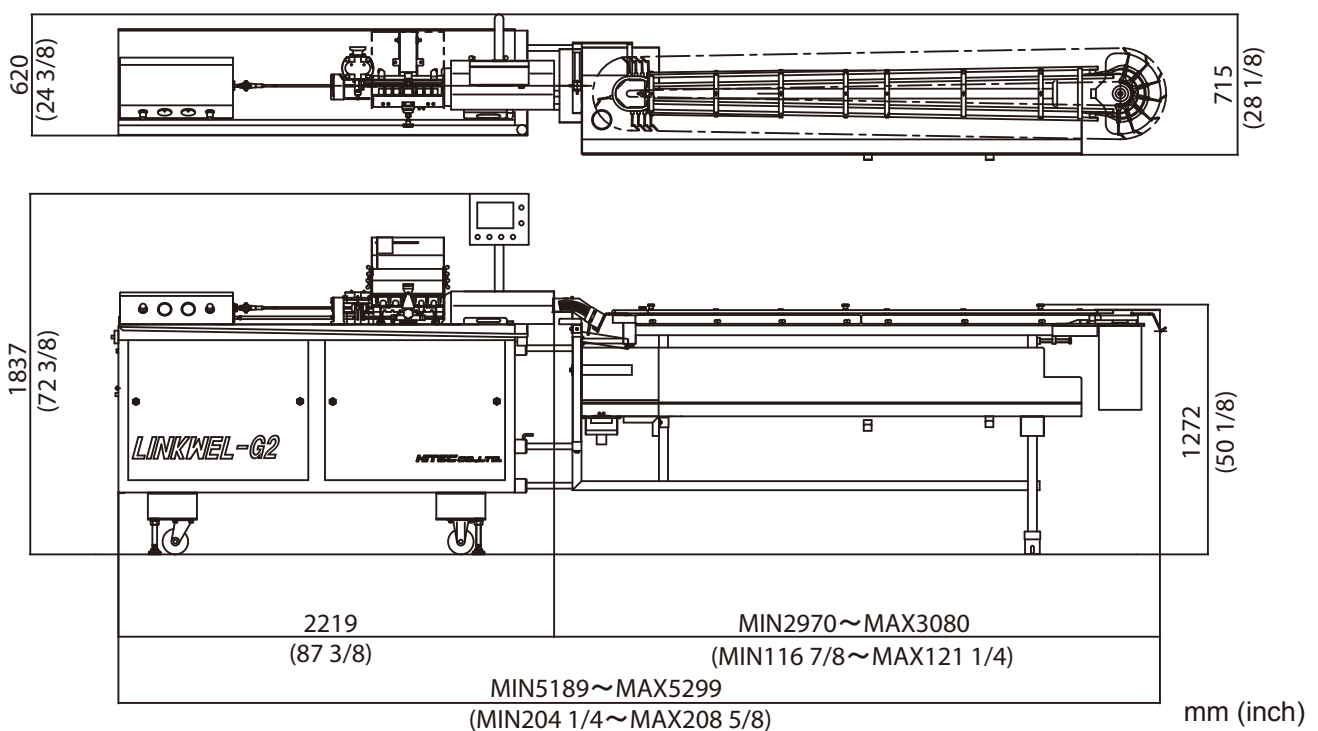
### RS × Pitch

CONVEYOR CHAINS			
Calculation example 1 inch = 25.4mm RS50 = 5/8inch RS60 = 3/4inch RS50 × 3 P =25.4mm × 5/8 × 3 =47.625mm	RS50 × 3 P 1-7/8"	RS60 × 2 P equivalent 1-1/2"	RS50 × 2 P 1-1/4"
	STD HOOK CONVEYOR	MEDIUM HOOK CONVEYOR	CLOSE HOOK CONVEYOR
Hook distance	47.625 mm 18 4/3 inch	39.68 mm 15 5/8 inch	31.75 mm 12 1/2 inch



It is possible to change between the hook distances of 3 types freely.

## OVERALL DIMENSION LINKWEL-G2 + Universal conveyor



## ■ SPECIFICATION

Production Rate	Artificial Casing	Max. 3,200kg/hg (7,000 lb/hr)
	Natural Casing	Max. 1,000pcs./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		LINKWEL-G2
Diameter	Sheep Casing	14mm ~ 25mm
	Hog Casing	26mm ~ 36mm
	Collagen	13mm ~ 36mm
	Cellulose Casing	13mm ~ 40mm
Shirred Length	Sheep Casing	180 mm (7 1/8in)
	Hog Casing	180 mm (7 1/8in)
	Collagen	320 mm (12 5/8in)
	Cellulose Casing	355 mm (14 in)

Machine Size		
Total Machine size	LINKWEL-G2 + Universal conveyor	
Height	1,837mm (72 3/8 in)	
Tube height	1,270mm (50 in)	
Length MAX	5,299mm (208 5/8 in)	
Width	715mm (28 1/8 in)	
Weight	690kg (1,522lb)	
Net (Machine dimension and weight)	LINKWEL-G2	Universal conveyor
Height	1,837mm (72 3/8 in)	1,772mm (69 3/4 in)
Length MAX	2,219mm (87 3/8 in)	3,085mm (121 1/2 in)
Width	620mm (24 3/8 in)	715mm (28 1/8 in)
Weight	500kg (1,100lb)	190kg (420lb)
Gross (Wooden crate (Box dimensions and weight)	LINKWEL-G2	Universal conveyor
Height	1,850mm (72 7/8 in)	1,550mm (61 in)
Length	2,700mm (106 1/4 in)	3,500mm (137 3/4 in)
Width	900mm (35 3/8 in)	750mm (29 1/2 in)
Weight	720kg (1,587lb)	410kg (904lb)

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 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.

# HITEC CO.,LTD.

HEAD OFFICE & FACTORY  
2565-8, NAGATSUTA-CHO, MIDORI-KU, YOKOHAMA 226-0026, JAPAN  
PHONE +81-45-983-5000 FAX +81-45-983-0020  
E-mail : sales@hitec-jp.com URL : www.hitec-jp.com