

# 500 bph compact line



## Key Benefits

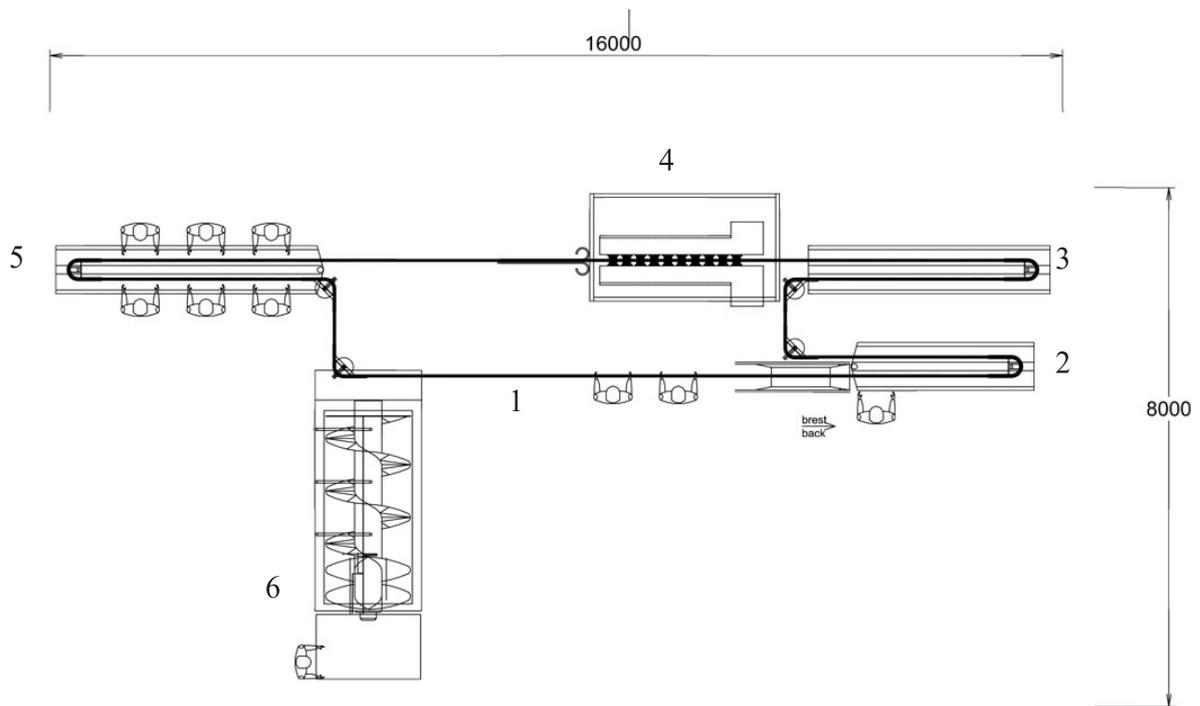
- Compact, low-cost poultry processing solution to process up to 500 birds per hour
- Complete set-up which includes all equipment necessary for primary processing
- All equipment is simple and quick to install, operate and maintain
- Designed for future expansion and growth
- Proven technology based on 30 years of poultry processing experience
- Smart engineering and small overhead provide considerable cost savings
- Low initial investment, low cost of ownership per bird and quick return on investment
- Designed and manufactured in Holland



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# Layout



## Legend

1. Overhead Conveyor
2. Bleeding Trough
3. Scalding
4. Plucking section with integrated head / windpipe puller
5. Evisceration trough with work stations and evisceration tools
6. Water Chiller with drain table



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# Process / Equipment list

Description					
Staff	Process	Description	kW	Water	Air
1	Hanging	Manual hanging on overhead conveyer			
1	Crate cleaning	Optional: High pressure washer for cleaning crates			
1	Crate handling	Optional: Roller track for transporting live bird crates			
	Stunning	Optional: Operation according to waterbath principle		0.3 - 0.5 m3/h	
1	Killing	Manual killing with a knife			
	Bleeding	Stainless steel trough, effective bleeding length 2500 mm			
	Scalding	Double pass, 550 mm wide, effective scald length 2500/3800mm (soft/hard scald)	1*3.0 kW	0.5 L/bird	
	Plucking	2 opposing plucking cabinets with a total of 32 plucking discs	2*3.0 kW	0.6-3.0 m3/h	
	Head Pulling	Device for removing heads, in-line, straight type			
	Evisceration	SS trough, 5000 mm work length, integrated vacuum/air connections			
	Hand tool accessories	Sharpening steel, stainless steel safety gloves			
1	Vent Cutting	Vacuum and air operated vent gun, capacity 2000 bph per tool. knife Ø 30 mm			23,7 m3/h
1	Opening	Opening the vent with manual opener knives			
1	Evisceration	Removing the intestine package with evisceration forks			
1	Heart/Liver	Removing / separating hearts and livers from intestine package			
1	Gizzard/Intestine Handling	Removing / handling the remaining intestine package			
		Optional: Gizzard Inspection Table with peeling roll	2*0.55 kW	0.6 m3/h	
1	Neck Cutting	Pneumatic neck scissor, capacity 1000 bph per tool			23,7 m3/h
1	Lung Removal	Vacuum-operated tool, capacity 1000 bph per tool, pipe Ø 25 mm			23,7 m3/h
	Bird Washing	Automatic outside bird washer		0.25-0.5 m3/h	
	Hock Cutting	Automatic in-line hock cutter, driven by the overhead conveyer	1*1.1kW		
	Unloading	Automatic unloading station for unloading whole birds or hocks			
	Shackle washing	Chain and shackle washer with rotating brushes and spray nozzles	2*0.4 kW	0.3 m3/h	
	Chilling	Water chiller, 3000 mm long, Ø 1600 mm	1*1.75 kW	1000 liters + 2.5 L/bird	
		Optional: water separator to remove excess water from carcasses	1*0.75 kW		
		Optional: perforated drain table			
1	Packing	Optional device to bag whole birds, capacity 500-800 bph per bagger			10 L/bird
<b>Additional equipment</b>					
	Overhead Conveyer	Stainless steel T-Track, 6 inch pitch, 63 meters long			
	Line Drive /Tensioner	Combined line drive / tension unit	1*2.2 kW		
	Shackles	416 stainless steel defeathering and evisceration shackles			
	Chain	Hardened, calibrated, galvanized steel chain, 25,4x8mm			
	Compressor	Optional: air compressor with a capacity of 600 liters per minute			
	Vacuum	Optional: vacuum transport system with vacuum pump, 1 buffer and 1 collection tank			

General key-figures:

Average use of water: 15L per bird (on daily total)

For 500 birds per hour average fuel consumption 10/15 liters per day.

combination cold water generator for the water chiller: 2,5 L/b of 4-6 deg C + 0.5kg kg/bird.

Ice chilling only: Ice consumption 1 kg flake ice per 1kg bird

Advices ambient cooling temps:

ambient controlled temperature in the evisceration dep (12deg),

cut-up and packaging dep (6-8deg),

dispatch: 2-4degC

blast freezer (-40)

frozen store -18 deg C

cold store (for fresh product 1.5 ton) -2deg C