

500 bph compact line



Key Benefits

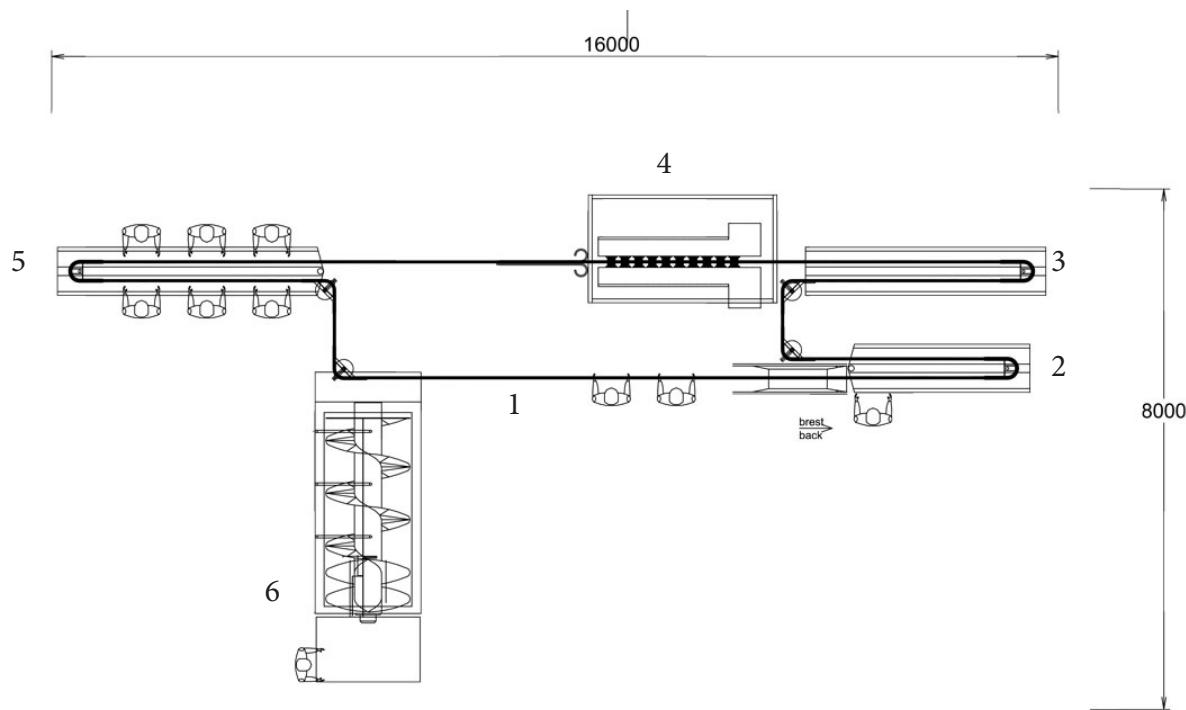
- Compact, low-cost poultry processing solution to process up to 500 birds per hour
- Complete set-up which includes all equipment necessary for primary processing
- All equipment is simple and quick to install, operate and maintain
- Designed for future expansion and growth
- Proven technology based 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



DUTCH POULTRY TECHNOLOGY B.V.
Hillegom, The Netherlands
www.dutch-poultry-tech.com

This information corresponds to the most recent available information at the time of publication. The construction, composition and execution of the product are subject to future modification, without notice. All given figures are indicative estimates. No rights can be derived from this publication.

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
Arrival	1	Hanging	Manual hanging on overhead conveyor		
	1	Crate cleaning	Optional: High pressure washer for cleaning crates		
	1	Crate handling	Optional: Roller track for transporting live bird crates		
Killing		Stunning	Optional: Operation according to waterbath principle	0.3 - 0.5 m3/h	
	1	Killing	Manual killing with a knife		
Bleeding		Bleeding	SS trough, effective bleeding length 2500 mm with integrated line drive / tensioner	1*2.2 kW	
		Scalding	Double pass, 550 mm wide, effective scald length 2500/3800mm (soft/hard scald)	1*3.0 kW*	0.5 L/bird
*Scalder heating by heat exchangers requires additional energy which depends on many circumstances: is the scalder open or closed, scalding temperature, bird sizes and veterinarian / governmental requirements. A rough estimate for required energy is 70kW/hour/section at 50°C and 82kW/hour/section at 60°C.					
Plucking	Plucking	2 opposing plucking cabinets with 32 plucking discs, effective pluck length 1600mm	4*3.0 kW	0.3-0.5 m3/h	
	Head Pulling	Device for removing heads, in-line, straight type			
Prefab modules	Evisceration	Evisceration trough	SS trough, 5000 mm work length with faucets, 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		
Unloading	Bird Washing	Automatic outside bird washer		0.25-0.5 m3/h	
	Hock Cutting	Automatic in-line hock cutter, driven by the overhead conveyor	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	Chilling	Water chiller, 3000 mm long, Ø 1600 mm	1*1.75 kW	3000 liters	
		Optional: water separator to remove excess water from carcasses	1*1.5 kW		
		Optional: perforated drain table			
Packing	1	Packing	Optional device to bag whole birds, capacity 500-800 bph per bagger		10 L/bird
Additional equipment					
Overhead Conveyor					
Stainless steel T-Track, 6 inch pitch, 40 meters long					
Shackles					
264 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, vacuum pump, 1 buffer and 1 collection tank					
1*2.5 kW					