

DB-4Xtra Benefits

Features independent variable speed drive for the infeed conveyor

Vertical auger

Cross feed auger

Drum rotational speed

Discharge conveyor

Adjustable drum elevation to control product dwell time in the drum

Breading sifter conveyor to maintain coating quality

Push button controls

Handles a variety of irregular shapes

The open frame design with no hollow structures results in easier access and sanitation

Applies a uniform layer of flour or free-flowing breading to any product that can tolerate a gentle tumbling action



JBT PROTEIN PROCESSING

SECONDARY

BRINE PREPARATION | HOMOGENIZATION | INJECTION
INJECTION & RETURN MILLING | MACERATION | MASSAGING | TENDERIZATION
TVI MEAT SLICING | X-RAY TECHNOLOGY | AUTOMATED TRAY LOADING

FURTHER

WEIGHING | PORTIONING/TRIMMING | COATING | FRYING & FILTRATION | PROOFING
COOKING | COOLING | CHILLING | FREEZING | REFRIGERATION | CLIPPING & PACKAGING
SOLUTIONS | X-RAY TECHNOLOGY | HIGH-PRESSURE PROCESSING (HPP)



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SCHRÖDER

STEIN

TIPPER TIE

Wolf-tec POLAR

XVISION

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STEIN

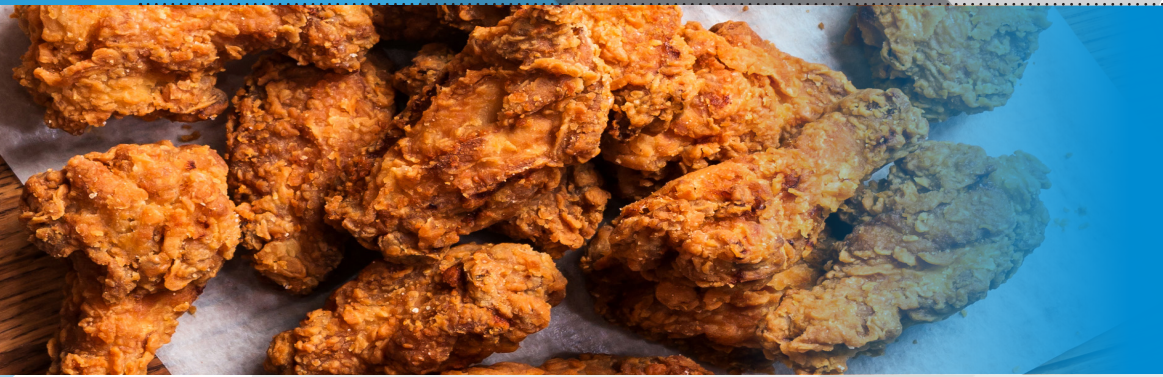
DB4-Xtra Drum Breeder



Works to apply a uniform layer of flour or free-flowing breading to any product that can tolerate a gentle tumbling action

COATING

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Stein DB-4Xtra Drum Breader

We designed our Stein DB-4Xtra Rotary Drum Breader for products that are best tumbled in the coating process. It is the ideal solution for products that have an irregular shaped surface geometry, and require a home-style final appearance. The DB-4Xtra can be used a pre-duster or as a final breader with flour coatings in a double or triple pass coating line. It is quick and easy to set up and provides a process with a high degree of repeatability and control.

Our drum breader is designed for the application of flour or granular free flowing coating materials to a wide range of food substrates that are best coated with an aggressive tumbling action.

Operations

Bulk products can be loaded on the DB-4Xtra infeed conveyor which delivers product directly to the drum section.

It then gently tumbles with products and coats them with flour style breadings.

Each piece comes out of the drum with a uniform pre-dust which makes it easier to handle and facilitates belt loading and product re-orientation in preparation for the next coating step

Once products are coated with pre-dust and batter they can be coated again with another layer of flour. This uniform layer initiates a home style look

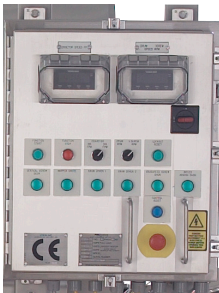
Pick-up varies depending on the number of coating passes

Excess breading drops through a mesh opening at the discharge end of the drum while coated product is dropped onto the discharge conveyor extension

Coating re-circulation is maintained with special cross-feed and vertical augers delivering a steady flow of coating material into the drum at the infeed end

Typical products coated on DB-4Xtra:

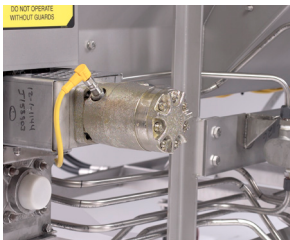
- Bone in poultry items (wings & drums)
- Vegetables (mushrooms, cauliflower, etc.)
- Soft pliable products like shrimp, clam strips
- Boneless chicken strips
- Popcorn chicken
- Calamari



Control Box

Hydraulic model: digital readouts for vertical screw, infeed discharge and drum speeds.

Electric model: controls have changed to VFD (vertical frequency drives). This allows speed readouts for the infeed and discharge conveyors, vertical screw and drum rotation motor



Nickel Coated Hydraulic Motors Withstands harsh environments



Crumb Box and Sifter Conveyor with E-Stop



Auger Housing

A change in the geometry of the auger housing eliminates flour leakage, flour clogging in the auger and promotes better flour circulation



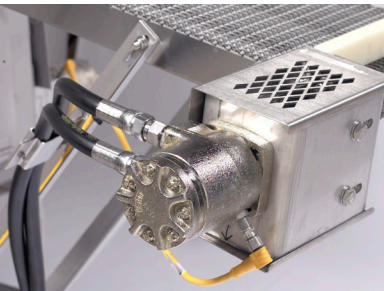
Chute

The steeper angle of the chute eliminates flour clogging in the auger and delivers better flour distribution across the surface of the products



Drum

Drum with open enclosure makes cleaning and accessibility easier



Direct Drive Coupling



Discharge Conveyor and Hydraulic Drive

Discharge conveyor has side plates to prevent products from falling off conveyor

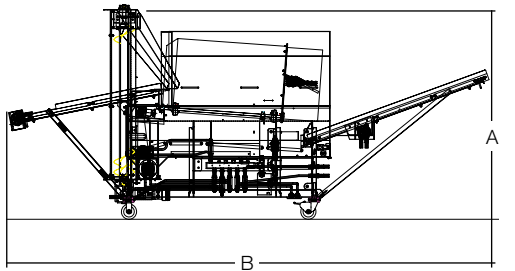
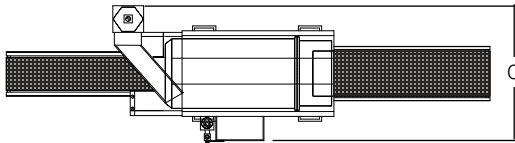


Access Door

Access door opens to allow easy access and inspection of return conveyor

Specifications

Model			DB-4Xtra
A. Height		mm	1794-1896
		in	71-75
B. Length		mm	4013
		in	158
C. Width		mm	1626-1753
		in	64-69
Breathing hopper capacity flour		kg	23-59
		lbs	50-130
Conveyor Belt			
Breathing Return	SS flat flex ½" P x .072	mm	508
		in	20
Infeed	SS mesh 30-30-16	mm	279
		in	11
Discharge	SS mesh 30-30-16	mm	355
		in	14
Sifter	SS flat flex 3/8" P x .050	mm	152
		in	6
Belt Speed			
Infeed		m/min	Adj 4.5-9
		ft/min	Adj 15-30
Discharge		m/min	Adj 4.5-9
		ft/min	Adj 15-30
Product infeed height		mm	711-813
		in	28-42
Product discharge height		mm	965-1067
		in	38-42
Electric drop location (from infeed end)		mm	1778
		in	70
Hydraulic drop location (from infeed end)	Pressure	mm	2226
		in	88
	Return	mm	2114
		in	83
Electric Drive			



Motor Specifications	ELECTRIC @ 460 v/3/60 Hz		ELECTRIC @ 380 - 415 v/3/50 Hz		HYDRAULIC @ 900 psi	
	kW		kW		l/min	
Crossfeed Screw						
	RPM	112	RPM	93	RPM	125
	Hp	0.75	Hp	0.75	GPM	34
	Amps	1.5	Amps	1.8		
Vertical Screw						
	kW	1.12	kW	1.12	l/min	25.4
	RPM	192	RPM	160	RPM	250
	Hp	1.5	Hp	1.5	GPM	6.7
Drum + Belt						
	kW	1.12	kW	1.12	l/min	11.8
	RPM	98	RPM	81	RPM	167
	Hp	1.5	Hp	1.5	GPM	3.1
Infeed Conveyor						
	kW	0.56	kW	0.56	l/min	5.3
	ft/min	15-30	ft/min	15-30	FPM	10-60
	m/min	4.5-9	m/min	4.5-9	m/min	3-18
Discharge Conveyor						
	Hp	0.75	Hp	0.75	GPM	1.4
	Amps	1.5	Amps	1.8		
Sifter Conveyor						
	RPM	40	RPM	33	l/min	2.3
	Amps	0.39	Amps	0.40	GPM	0.6
	kW	0.12	kW	0.12		
	Hp	0.16	Hp	0.16		
Total hyd. Consumption					l/min	65
					GPM	17
Maximum hydraulic working pressure						900 psi

Specifications subject to change without notice. Please corroborate with JBT sales support in your region.