

## High Speed Tipper

### Single Pillar High Speed Tipper

BTM/100/4560/B/G

#### Single Pillar High Speed Tipper Description

This single pillar high speed tipper is designed to lift and tip an integral skip to discharge at a height of 4560mm. The high speed tipper is constructed from Grade 304 stainless steel and is fully TIG welded throughout. The lifting is achieved by a food quality toothed timing belt driven by a motor gearbox mounted at the top of the main column. The high speed tipper is designed to be bolted to the floor. This high speed tipper has a tipping hopper allowing 75 Litres of product to be tipped at a time. Because of the low weight that is being tipped the machine can be set to run at 12.0 Meters/Minute. At this speed, the total time required for tipping the product per cycle is + 60 seconds. If you allow 20 seconds for filling, the total cycle time is 80 seconds allowing 45 tips per hour.



*Single Pillar High Speed Tipper with Integral Skip*

Call now on 01495 312 172

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**Safety Guard to PD 5304:2005 Safety of Machinery**

The safety guard is constructed from 40 x 40 x 3mm stainless steel box section and 20mm diameter stainless steel tubing to meet the requirements of PD 5304:2005 Safety of Machinery. It would enclose the high speed tipper to a height of 2200mm on three sides with a hinged door on the fourth side. The guard door is electrically and mechanically interlocked preventing the high speed tipper from operating with the door open. In addition, the guard door can only be opened when the lifting carriage is at the full down position. The high speed tipper control system has provision for a 'Call for Product' signal to be connected.

**High Speed Tipper Specification**

DESCRIPTION	SINGLE PILLAR HIGH SPEED TIPPER
MODEL No.	BTM/100/4560/B/G
CAPACITY	100Kgs
TIPPING HEIGHT	4560mm
TIPPING ANGLE	130 DEGREES
OVERALL HEIGHT	5540mm
MACHINE HANDING	LEFT OR RIGHT HAND AVAILABLE
TIPPING CHUTE	OPTIONAL
CONTAINER DESCRIPTION	INTEGRAL SKIP
BASE ARRANGEMENT	BOLTED TO THE FLOOR & BRACED
CONTROL CIRCUIT	24Vac (STANDARD)
ELECTRICAL RATING	IP65
LIMIT SWITCHES	ADJUSTABLE ROD or SPRING
MOTOR DETAIL	2.2kW, 415V, 3 PHASE, 50 CYCLE
MOTOR BRAKE	415V SEPARATELY EXCITED
GEARBOX DETAIL	FLENDER
OUTPUT R.P.M.	28 R.P.M.
LOAD/TENSION CHAIN	50mm TOOTHED TIMING BELT
TENSILE STRENGTH	27000N
LIFT SPEED	VARIABLE VIA INVERTER DRIVE

**High Speed Tipper Application Story**

This single pillar high speed tipper was designed to give a continuous throughput of a snack product up to a multi head weighing system on a packing line. There is an intermediate rocking hopper mounted at the bottom of the high speed tipper which acts as a pouring chute into the integral skip. Once the integral skip is full, a high level sensor is activated and the intermediate rocking hopper tips backwards and begins to fill. Once the intermediate rocking hopper has tipped backwards, the high speed tipper lifts and tips very quickly and returns to the full down position before the intermediate rocking hopper is full. Having returned to the full down position, the intermediate rocking hopper tips forward and once again discharges directly into the integral skip. This allows a continuous throughput of product through the high speed tipper and results in a system that is easily cleaned compared to bucket elevators and flighted conveyors and also takes up much less floor space in the factory.

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REVISION NUMBER  
 CUSTOMER

DRAWING TITLE

SINGLE PILLAR HIGH SPEED SKIP TIPPER  
 GUARDED

DRAWN  
 CHECKED  
 DATE  
 03-05-06

DRAWING NUMBER  
 BP2061-2C

REMOVE ALL BURRS AND SHARP EDGES  
 TOLERANCES : UNLESS OTHERWISE STATED  
 FABRICATIONS : +/- 2.0mm  
 MACHINING : +/- 0.2mm  
 SHEET METAL WORK : +/- 1.0mm AND +/- 1.0 DEG

