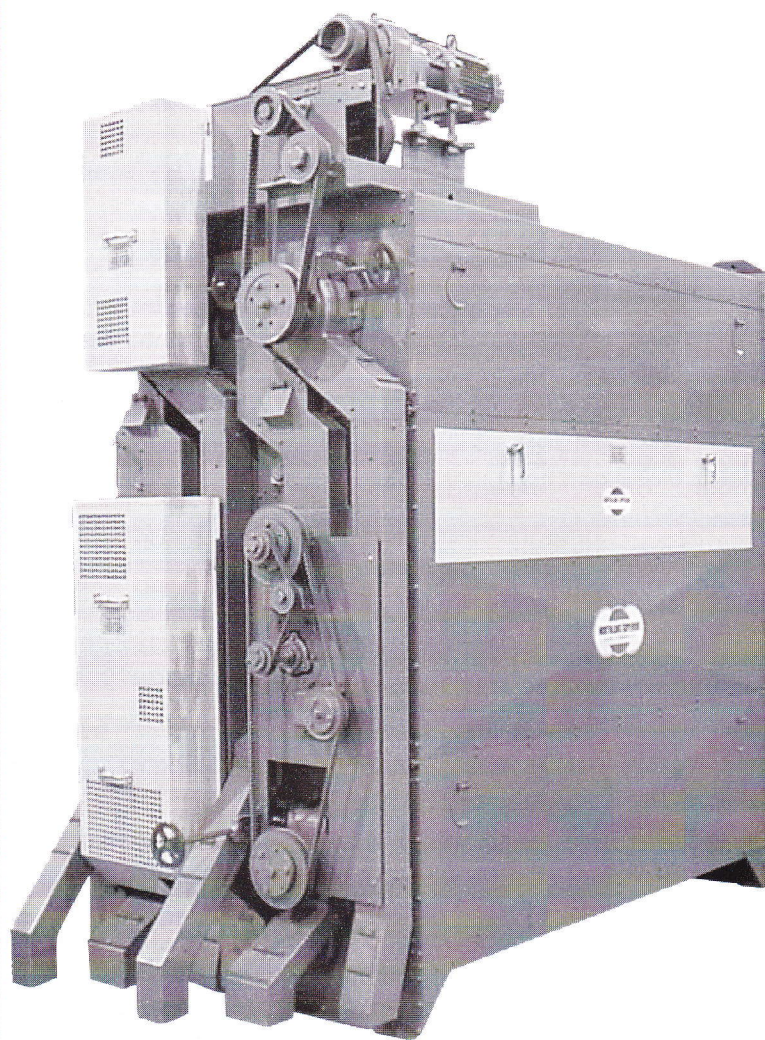


CRIPPEN NORTHLAND SUPERIOR SUPPLY CO. COMBINATION CLEANERS

Crippen Manufacturing's - NS Series of Combination Cleaners are part of a new generation of grain and oilseed processing equipment. Used in an in-line cleaning system, a terminal reclaim line or as a stand alone specialty cleaner, the Crippen Northland Superior combination cleaner offers both versatility and reliability. The combination cleaners are offered in a wide variety of configurations to suit the customers needs.



Standard Features:

- Long wearing case hardened and reversible cylinder shells.
- Carbon steel tri-bar grader shells for width separation c/w rotary brush cleaning mechanism.
- Indent pocket sizes available in a wide range of sizes.
- Receiving trough adjustment for precise separation; dump position for complete clean-out.
- Retarder adjustment to maintain desired grain level.
- All controls accessible and easy to operate.
- Poly drive belts for smooth performance and long life; no lubrication; maintenance free.
- All wear components are readily accessible and easy to change.
- Cylinder wear-bands on discharge end of cylinder.

Optional Features:

- A wide choice of custom flow and spouting configurations.
- Stainless steel, ceramic or urethane spouting liners for longer life.
- Stainless steel tri-bar grader shells.
- Actuator controlled flop spouting for wheat and durum cleaning applications.
- Nickel plated cylinder shells.

CRIPPEN NORTHLAND SUPERIOR SUPPLY CO.

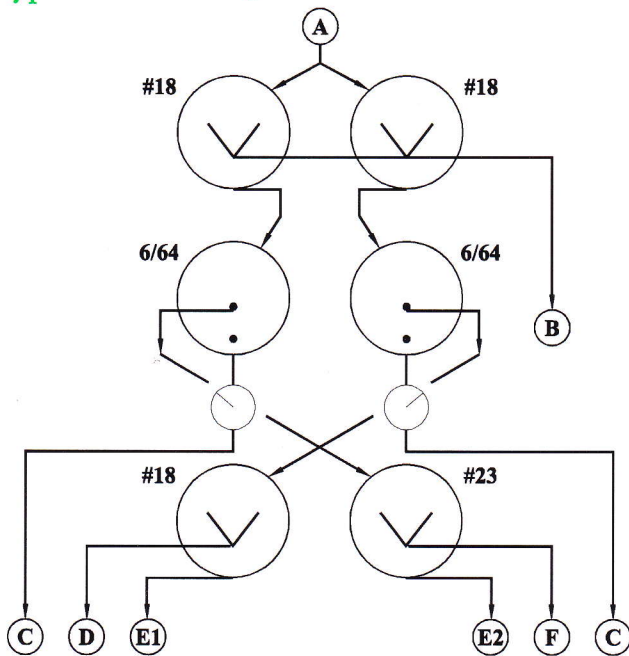
COMBINATION CLEANERS

Combination Cylinders - Machine Specifications

Cleaner Speed: 47 - 52 RPM

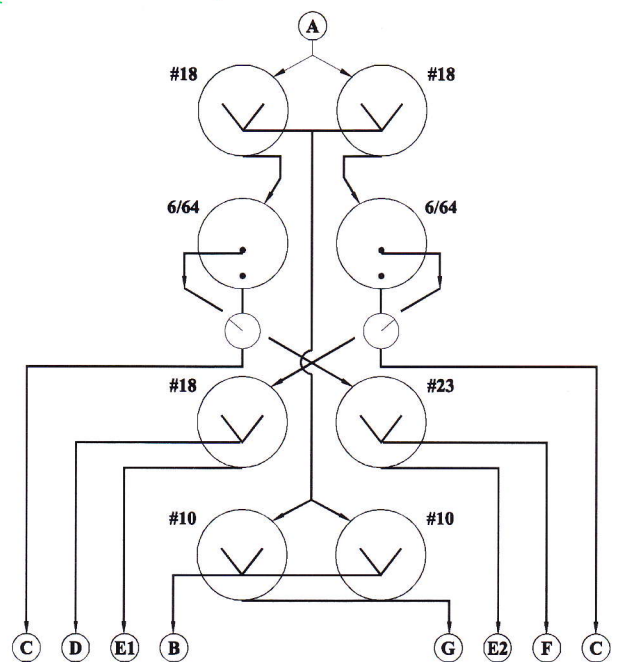
Model	Capacity (Wheat)		Power Requirements HP	Overall Length Inch	Overall Width Inch	Overall Height Inch	Net Weight Lbs
	Bu/Hr	T/Hr					
NS-B4/G17-2	303	8.25	5	126	53	126	6500
NS-B6/G17-2	303	8.25	7.5	130	53	151	8000
NS-B8/G17-2	303	8.25	10	131	53	182	10100
NS-B9/G17-3	455	12.5	10	130	78	151	12000

Typical NS-B4/G17-2 Combination Cleaner Flow

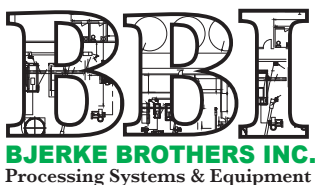


The NS-B4/G17-2 is characterized by a pair of #18 splitting cylinders at the top of the cleaner, followed by two 6/64 slot graders on the second row and a #23 cylinder, for durum, and a #18 cylinder, for wheat, on the bottom row. In operation the NS-B4/G17-2 has the following grain and by-product flows. Grain (A) enters the top two cylinders, at the desired capacity, where the shorter grains (liftings) are lifted by the indent cylinder and dropped into the receiving trough. From here the liftings (B) are transported from the machine for further processing. The remaining longer grains (tailings) are transferred to the grader where mixed feed oats (C) are separated. The remaining product is then transferred to the second set of cylinders, where the clean grain (D-Wheat) (F-Durum) is separated from the heads (E1 & E2).

Typical NS-B6/G17-2 Combination Cleaner Flow



The NS-B4/G17-2 is characterized by a pair of #18 splitting cylinders at the top of the cleaner, followed by two 6/64 slot graders on the second row and a #23 cylinder, for durum, and a #18 cylinder, for wheat, on the bottom row. In operation the NS-B4/G17-2 has the following grain and by-product flows. Grain (A) enters the top two cylinders, at the desired capacity, where the shorter grains (liftings) are lifted by the indent cylinder and dropped into the receiving trough. From here the liftings (B) are transported from the machine for further processing. The remaining longer grains (tailings) are transferred to the grader where mixed feed oats (C) are separated. The remaining product is then transferred to the second set of cylinders, where the clean grain (D-Wheat) (F-Durum) is separated from the heads (E1 & E2).



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