



## PRODUCT BULLETIN

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# PERMANENT PLATE MAGNETS

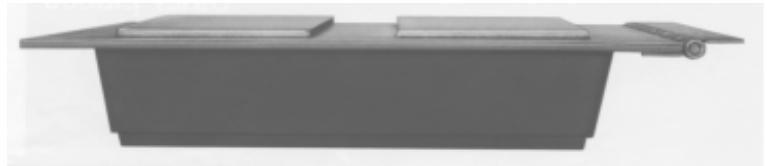
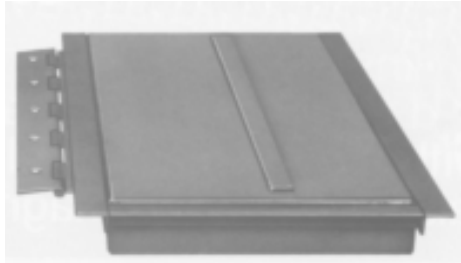
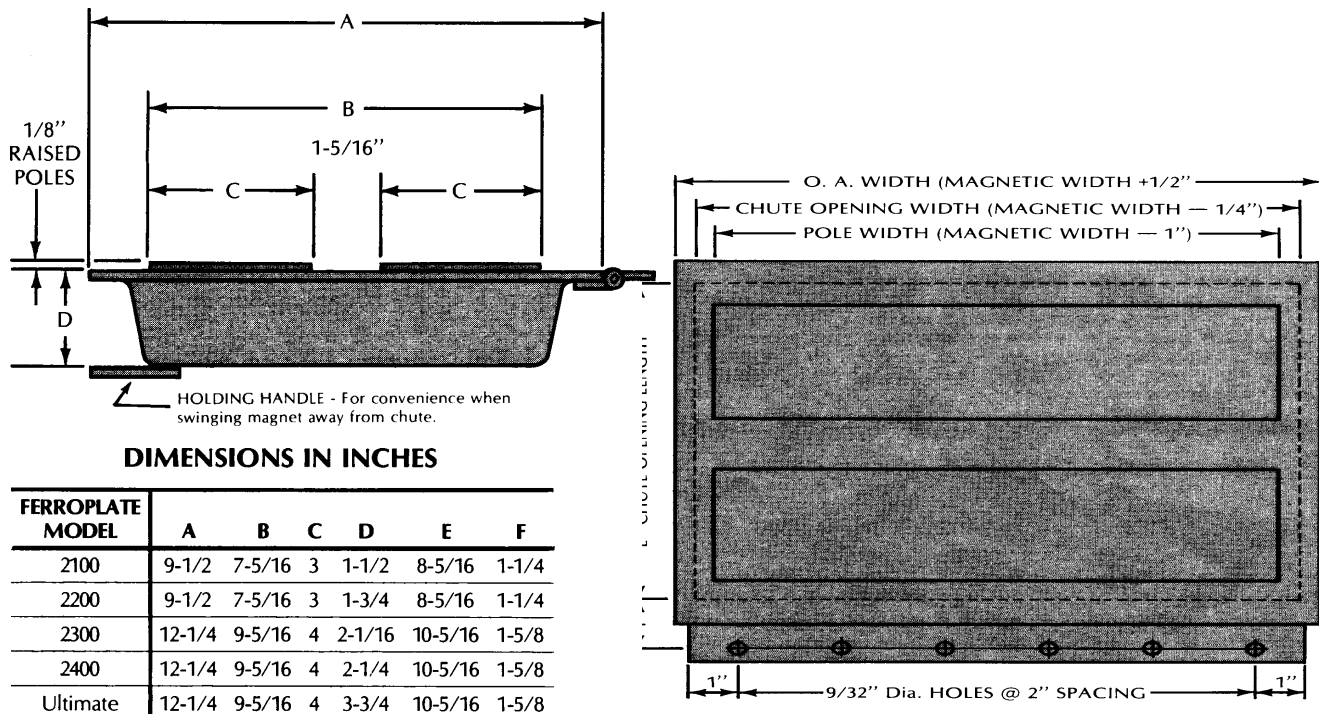


Plate magnets are usually rated and selected for chute applications according to their magnetic range in inches, or by their capacity in cubic feet per hour of material flow - with volume dependent on magnetic range. But, selecting plate magnets by range, directly or indirectly, overlooks the importance of holding power.

A plate magnet that doesn't have enough holding power in a chute, can lose attracted metal objects and small ferrous particles. These magnetic can be pushed off the face of the magnet by the force of material flow. Some other designs are built with a narrow strip of magnetized metal attached to the flat face. The strip is added to boost holding power. Otherwise, holding power against a pushing force on the smooth flat face would be dangerously low. However, the very limited exposure of a single narrow strip adds only a very limited amount of holding power. It acts more as a minor mechanical barrier.



An increased amount of magnetic holding power is offered on some flat face designs as an option - an extra charge for auxiliary flat or step shaped pole pieces. Such options aren't needed on a standard Dings Ferroplate. Every standard Ferroplate model is built with raised pole pieces - 2 large size stainless steel pole pieces, permanently welded to the face. Because these members have so many edges, so much edge length and so much top surface area raised above the face, they act as large, powerful and exposed holding areas. And, the air gap exposed between these members adds even more holding power - a lot more.

With large raised poles - exposed poles - and a fully exposed air gap between poles - every standard model Ferroplate is already designed and built for utmost holding power, as well as maximum magnetic range. An increased amount of magnetic holding power is offered on some flat face designs as an option - an extra charge for auxiliary flat or step shaped pole pieces. Such options aren't needed on a standard Dings Ferroplate. Every standard Ferroplate model is built with raised pole pieces - 2 large size stainless steel pole pieces, permanently welded to the face. Because these members have so many edges, so much edge length and so much top surface area raised above the face, they act as large, powerful and exposed holding areas. And, the air gap exposed between these members adds even more holding power - a lot more.

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### **EASY TO APPLY**

Ferroplates are easy to apply because there aren't many limitations on where or how to use them. They operate in any position, in hot, cold or wet locations, indoors, outdoors, and even on vibrating equipment.

Sizes start at 12" in width and increase by 2" increments to many feet in width — for mounting on any size chute, and for suspending over any size conveyor belt or pan. Because they're built with powerful permanent magnet material, they're always ready to work. There's no switch to turn on or off, no maintenance and no operating cost.

The most popular type of application is on the bottom side of a rectangular shaped chute that slopes downward. It doesn't matter if the chute is open or enclosed. It doesn't matter if the chute is made of ordinary steel, galvanized steel, stainless steel or any other metal. A Ferroplate is designed to work in any metal chute, and in wood chutes too.

Ferroplates can separate all kinds of ferrous objects —nails, nuts, bolts, wire, tools, springs, abraded iron and more. By getting rid of such metal buried inside processed materials, Ferroplates protect processing machinery against damage. They also purify materials to protect consumers and prevent dangerous explosion causing sparks. Users include processors of food, grain, chemicals, pharmaceuticals, fertilizer, plastics, minerals, textiles, wood chips — and many other materials.

