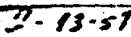
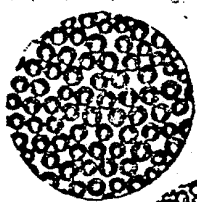


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is less clear than this
notice, it is due to the
quality of the document
being filmed



Look for FREE-
FLO Lead Shot
marked in this
way. It is the
only lead shot
that is made
this way.

A "competitor"
lead shot, made
by the same
method, but of a
different size.
The difference
between the two
is clearly shown
in the micrograph.



The quality of
"DUTCH BOY" FREE-FLO

Lead Shot...

is clearly indicated in the photo-
micrographs reproduced (unre-
touched) above. A comparison is
made with a "competitor" product.
The "Dutch Boy" shot shows the
result of our long experience of shot
making as well as evidence of our
facility in producing smooth, solid,
clean lead shot, in the smallest sizes
especially, there is no substitute for
the shot lower. True, this is a more
expensive pattern in many respects
but the extra cost and cost is just-
ified by the result—a truly uniform,
free-flowing shot that is the best
possible guarantee against bunching
and uneven flow in the lead shot.



Made in U.S.A.

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notice: if the film image is less clear than this notice, it is due to the quality of the document being filmed

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Lead Improves
Machinability Mainly
By Lubrication Effect

Why Leaded Forgings
Favor Machinists

New Technique: Lead in Steel Forgings

LEADED
STEEL

How Much Does Lead Change Steel?

Leaded Steel Gains 60%

Break
Production
Records
With Leaded
Steels

Dutch Boy

Leaded Steels are on the move. Tomorrow are going up. And for good reason. They run more easily. Cutting tools last longer. However cuts and higher speeds are possible. In short, free-cutting steels lower costs by increasing production—without sacrificing any of the other desirable properties of the alloy being varied.

What makes this "unmistakable" difference in machinability? A mere "mistake" of lead—0.15 to 0.35% by weight.

But "just any lead" won't do. Big producers of leaded steel are very particular about the purity of the lead, about its form, about its uniformity, about its "fluidity". They have found that high purity lead, in the shape of fine shot, in closely held size tolerance, in the ideal alloying agent.

That's precisely where National Lead Company comes in. As the premier producer of lead shot, with the largest production facilities and the widest experience in shot-making, National Lead is the leading source of supply for lead shot—from the smallest size to triple 8 ball and everything in between.

Here's only "Dutch Boy" FREE-FLO Shot is preferred for leaded steel.

It is high purity lead to begin with, with a chemical composition well suited for dispersion in steel.

It is "dropped"—a forming method that produces smooth, solid shot.

It is clean—no surface, no inclusions or blemishes.

It is carefully size-graded—in any given batch more than 97% lies within the 0.0033"—0.0134" diameter size.

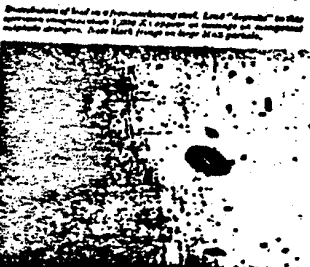
It is coated lightly with a special lubricant to prevent oxidation and "burning".

It is free-flowing—a property fully earned by shot, but, uniformly and liberally.

Introduced into molten steel by compressed air or gravity, "Dutch Boy" FREE-FLO Lead Shot assures maximum recovery in the alloy. Also, due at least in part to its overall characteristics, "Dutch Boy" FREE-FLO Lead Shot permits uniform distribution throughout the melt. The result is leaded steel with the maximum of free-machining properties.

"Dutch Boy" FREE-FLO Lead Shot is packed in convenient to handle, easy to stock, space saving 25 lb. bins. A bin weighs less than 6 cubic feet. Special laminated cloth-encased outer bins provide protection against moisture and leakage.

(Shipping courtesy "Iron Age" and "Steel")



NATIONAL LEAD COMPANY

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