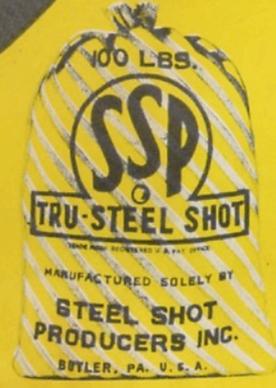


# TRU-STEEL SHOT

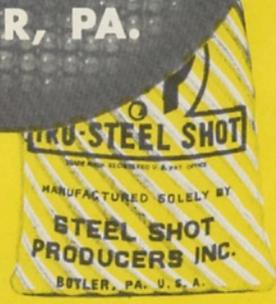
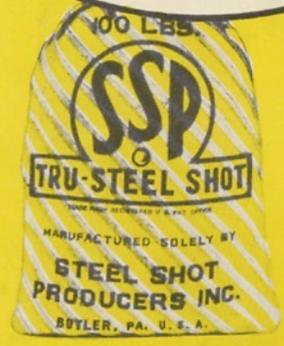
**Perfected • Proved Accepted**



THE *Original* High-Carbon, FULLY HEAT-TREATED STEEL SHOT of **TOOL STEEL QUALITY**



MANUFACTURED BY **STEEL SHOT PRODUCERS, INC.**  
BUTLER, PA.



**ROUND AND SOLID  
HARD AND TOUGH  
FULLY HEAT-TREATED**



**TRU-STEEL SHOT**

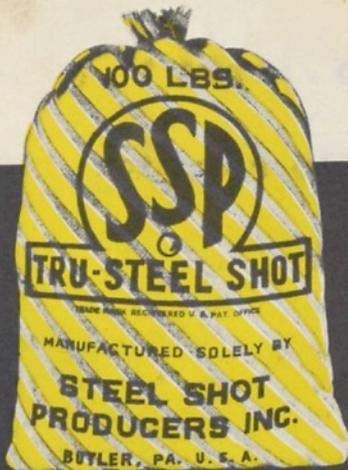
AMERICAN STEEL & SUPPLY COMPANY  
1011 EAST 103rd STREET  
CHICAGO 28, ILLINOIS

AMERICAN STEEL & SUPPLY COMPANY  
1011 EAST 103rd STREET  
CHICAGO 28, ILLINOIS

Made Under Direct Control and  
Supervision --- Backed By The 65  
Years of Abrasives Manufacturing  
Experience of

**PITTSBURGH CRUSHED STEEL CO.**

*The Pioneer Manufacturer of Metal Abrasives*



MANUFACTURED BY

**STEEL SHOT PRODUCERS, Inc.**  
**BUTLER, PA.**

SUBSIDIARY OF

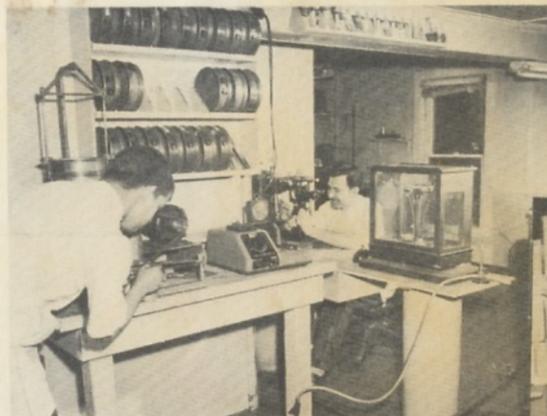
**PITTSBURGH CRUSHED STEEL CO., Pittsburgh 1, Pa.**

# TESTED!

# PROVED!

# ACCEPTED!

TESTED FOR QUALITY CONTROL BY  
EXPERT TECHNICIANS IN THE MODERN  
TRU-STEEL LABORATORY



Controlled Hardness,  
Analysis and  
Heat-treatment

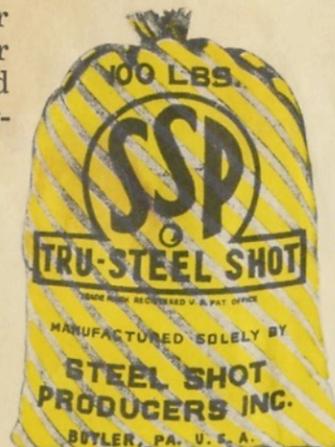


**EVERY HEAT OF TRU-STEEL  
IS LABORATORY-TESTED  
AND CONTROLLED TO  
EXACTING STANDARDS OF FINE STEEL MAKING.**

Tru-Steel is something more than cast steel in shot form. It is not so-called "soft" shot, yet has longer life and greater resistance to breakage in the machine than "soft" shot. Only in Tru-Steel are found combined the characteristics that have been sought after for years in metal abrasives—super toughness for resistance to breakage, and proper hardness for fast, thorough, surface-bright cleaning.

### PRECISION PLUS

Precision control of chemistry in melting PLUS expert heat-treatment of the cast product, PLUS pains-taking laboratory testing before shipment, all provide in Tru-Steel the world's finest blast-cleaning medium.



## Proven Performance

### FOR EVERY CLEANING JOB

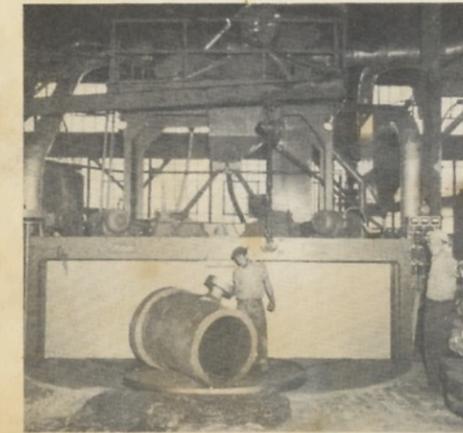
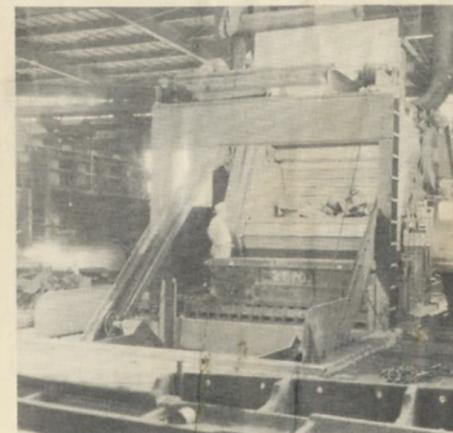
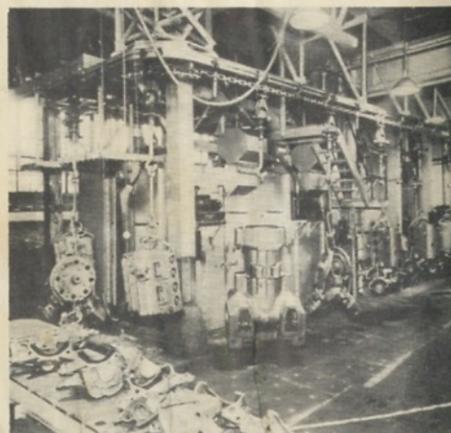
Many years actual production usage in all blast-cleaning applications have proven Tru-Steel's ability to perform the toughest cleaning jobs. The toughest forging scale fades before it; heat-treated malleables come out bright and clean; brass, bronze and aluminum are beautiful in their true colors. Steel and gray iron are cleaned at the high production rate that really cuts costs in the cleaning department.

Because of its chemical composition, Tru-Steel has gained wide and enthusiastic acceptance for cleaning before plating, galvanizing and other finish coatings. Many cleaning jobs to which it has heretofore been considered impossible to apply blast-cleaning operations, have been made possible through the use of Tru-Steel, resulting in important savings through big-production blast-cleaning.

### FOR PEENING

No other form of metal abrasive equals Tru-Steel for peening. Its toughness assures retention of round form and minimum breakage. It does not work-harden and explode into

fines. Uniformity of hardness through full heat-treatment, plus the most accurate grading, assure highest peening efficiency for Tru-Steel Shot.



### PERFORMANCE AND SAVINGS BRING PRAISE FROM USERS

"We are very happy to report that our experience in converting our Soft Iron Blasting over to "Tru-Steel" Shot has proven very satisfactory. We have reduced the amount of abrasive used in our machine to the unbelievable figure of 1/10 of that which was previously used per wheel hour of operation, and at the same time have reduced our maintenance costs substantially and increased our wheel life. We are now in process of converting our Hard Iron Blasting to "Tru-Steel" Shot and we are confident that our experience will follow along the same lines as above."

"Comparative tests of 27 days for Hard Iron Shot and 90 days for "Tru-Steel" Shot were made during the first part of this year. Shot consumption was 85 percent less for "Tru-Steel" Shot, maintenance costs fell off 19 percent; and our overall

average cost per ton of castings cleaned dropped 45 percent. Needless to say, we have adopted "Tru-Steel" Shot as our standard abrasive for our continuous cleaning barrel."

"Tru-Steel saved 10c per ton of steel cleaned over other steel shot claimed to be as good."

A large farm implement company proved "Tru-Steel" to be the lowest cost of all steel shot tested.

"Our Tru-Steel Shot experience continues to be most satisfactory."

"While our experience with Tru-Steel Shot only dates back about three months, yet in that time our records indicate we only used 20% the amount of shot we formerly used. There is no question in our opinion that Tru-Steel Shot despite its higher cost, is much more economical than the abrasives we formerly used."

### TRU-STEEL SHOT IS SCREENED TO S.A.E. SPECIFICATIONS

Shot No.	ON SCREEN			THRU SCREEN			ON SCREEN			THRU SCREEN			
	%	Max	%	%	Max	%	%	Min	%	Max	%		
780	7 (0.111)	0				7 (0.111)	10 (0.0787)	85	10 (0.0787)	12 (0.0661)	12	12 (0.0661)	3
660	8 (0.0937)	0				8 (0.0937)	12 (0.0661)	85	12 (0.0661)	14 (0.0555)	12	14 (0.0555)	3
550	10 (0.0787)	0				10 (0.0787)	14 (0.0555)	85	14 (0.0555)	16 (0.0469)	12	16 (0.0469)	3
460	10 (0.0787)	0	10 (0.0787)	12 (0.0661)	5	12 (0.0661)	16 (0.0469)	80	16 (0.0469)	18 (0.0394)	11	18 (0.0394)	4
390	12 (0.0661)	0	12 (0.0661)	14 (0.0555)	5	14 (0.0555)	18 (0.0394)	80	18 (0.0394)	20 (0.0331)	11	20 (0.0331)	4
330	14 (0.0555)	0	14 (0.0555)	16 (0.0469)	5	16 (0.0469)	20 (0.0331)	80	20 (0.0331)	25 (0.028)	11	25 (0.028)	4
230	18 (0.0394)	0	18 (0.0394)	20 (0.0331)	10	20 (0.0331)	30 (0.0232)	75	30 (0.0232)	35 (0.0197)	12	35 (0.0197)	3
170	20 (0.0331)	0	20 (0.0331)	25 (0.028)	10	25 (0.028)	40 (0.0165)	75	40 (0.0165)	45 (0.0138)	12	45 (0.0138)	3
110	30 (0.0232)	0	30 (0.0232)	35 (0.0197)	10	35 (0.0197)	50 (0.0117)	70	50 (0.0117)	80 (0.007)	10	80 (0.007)	10
70	40 (0.0165)	0	40 (0.0165)	45 (0.0138)	10	45 (0.0138)	80 (0.007)	70	80 (0.007)	120 (0.0049)	10	120 (0.0049)	10

Save with

**TRU-STEEL**

**TOOL-STEEL QUALITY**

Save on

ABRASIVE CONSUMPTION  
PARTS REPLACEMENT  
MACHINE DOWN TIME  
TRANSPORTATION COSTS

AMERICAN STEEL & SUPPLY COMPANY  
INCORPORATED  
*Industrial Supplies*

*Magnum  
C. Johnson  
Bluff*  
*Cataloy File*

Office and Warehouse

1011 EAST 103RD STREET  
CHICAGO 28  
WATERFALL 8-9893

September 9, 1955

International Harvester Company,  
Manufacturing Research Department,  
5225 South Western Avenue,  
Chicago 9, Illinois

Attention: Mr. P. Carey

Gentlemen:

When I was in your plant yesterday morning, it was my intention to discuss the subject of peening in more detail with you, but was advised that you were in a meeting later in the morning.

In recent years, we have developed Tru-Steel Shot for the expressed purpose of peening, and it has found very wide acceptance in this field, as well as for general blasting. Tru-Steel is the original high carbon, heat treated steel shot and has characteristics which give it extremely long life in its original form. This material wears down instead of breaking, which is one of the things required for a good peening operation. This material sells for \$225.00 a net ton in all quantities, F.O.B. Butler, Pennsylvania.

We are enclosing herewith a bulletin describing Tru-Steel, which we trust will be of interest to you, and suggest that you consider the possibility of a test of this material.

Very truly yours,  
AMERICAN STEEL & SUPPLY COMPANY, Agents  
Globe Steel Abrasive Company

*John A. Renstrom*

J. A. Renstrom/jk  
Encl: 1  
CC: GSA

# SEE

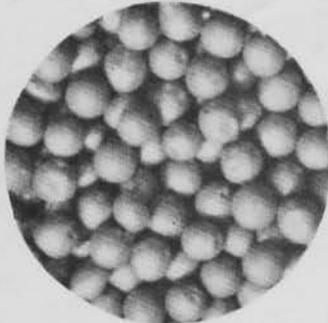
STARTED IN 1951 OR 1952  
 NOTE: THIS WAS THE FIRST CAST STEEL  
 SHOT PRODUCER. IT WAS OWNED BY PITTSBURGH  
 CRUSHED STEEL. BOTH FRANK BORN & WHELAN  
 SOLD THIS SHOT. WHELAN-BANTON HAD THEIR  
 PLANT RUNNING BY 1957

## how you save on shot with TRU-STEEL

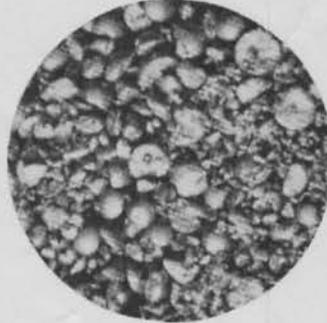
### LIFE COMPARISON -- TRU-STEEL vs. CHILLED IRON SHOT

Showing relative breakdown after a given number of passes through a centrifugal blasting wheel

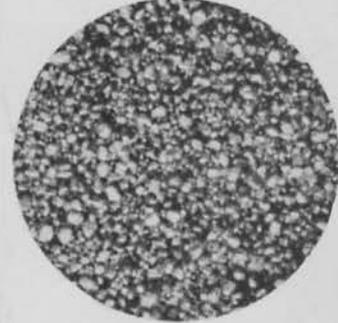
**CHILLED  
 IRON**  
 No. 230  
 at  
 Mag. 10X



NEW SHOT

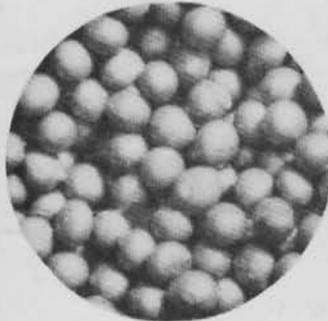


AFTER 50 PASSES

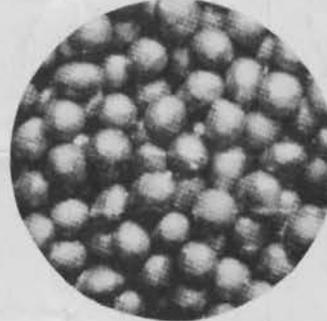


AFTER 1500 PASSES

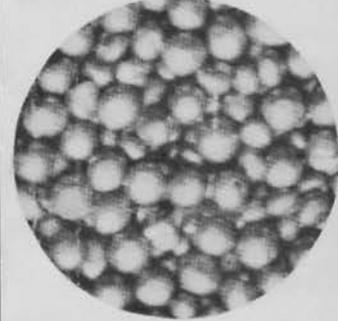
**TRU-  
 STEEL**  
 No. 230  
 at  
 Mag. 10X



NEW SHOT



AFTER 50 PASSES



AFTER 1500 PASSES

Perfected TRU-STEEL shot has no equal for economy and performance. It is new and different — a genuine true steel that has received a full heat treatment, not just a draw or anneal.

You can expect top performance and real economy from TRU-STEEL because of these exclusive features: it is round and solid — hard and tough — fully heat treated — wears down — does not break down — accurately graded and controlled as to quality and hardness.

#### Performance Characteristics

1. Cleans as fast — or faster — than chilled iron shot.
2. Reduces machine maintenance costs.
3. Increases life of machine parts.
4. Lasts many times longer than chilled iron shot.
5. Saves storage space and transportation costs.
6. Reduces cleaning costs per ton.

#### TRU-STEEL User Quotes Money-Saving Results

For cleaning alloy steel forgings after annealing and after heat treatment for plating. TRU-STEEL shot cleans work in the same length of time or less than ordinary shot, and the surface produced is very satisfactory for plating or painting.

"We find TRU-STEEL shot lasts from 5 to 6 times as long as ordinary shot.

"Blades used to last at the most 50 Wheel hours with ordinary shot — with TRU-STEEL approximately 400 hours.

"Our wheel has been operating over 800 hours at this point perfectly satisfactorily.

"In general TRU-STEEL shot costs half as much as ordinary shot, cuts down on maintenance and costly parts with less shot handling and storage."

**GET THE FACTS - Write for complete details.**

MANUFACTURED EXCLUSIVELY  
 BY  
**STEEL SHOT PRODUCERS, INC.**  
 BUTLER, PA.

