

0-30

Examples of Value Analysis working with the Foundry Dept.

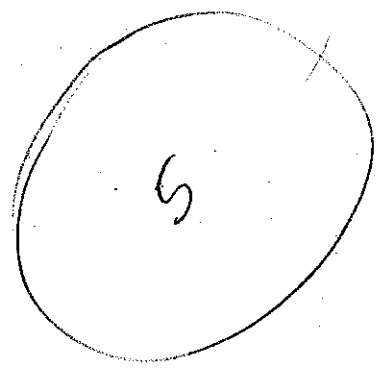
(Myron DeHollander's notes)

4,26,000 / annual savings

When the VA Tech was added to other
 good tech when a more intense
 authors are we trying to accomplish
 finding & dealing with people barriers
 surrounding it into more into
 search on
 function bases for
 alternatives

Case
 accumulated
 APR 8

Includ



EXAMPLES OF VALUE ANALYSIS WORKING WITH THE FOUNDRY DEPT. --

Fuse Disconnect Switch - Philadelphia. Bob Jeckel (Value Analyst), DeHollander and Bill Bender (Foundry people)-formerly made as a two bronze castings, with necessary machining, drilling and assembly screw and lockwasher. Redesigned into a one-piece casting eliminating machining and assembly. Cost reduction -- Annual - \$7000

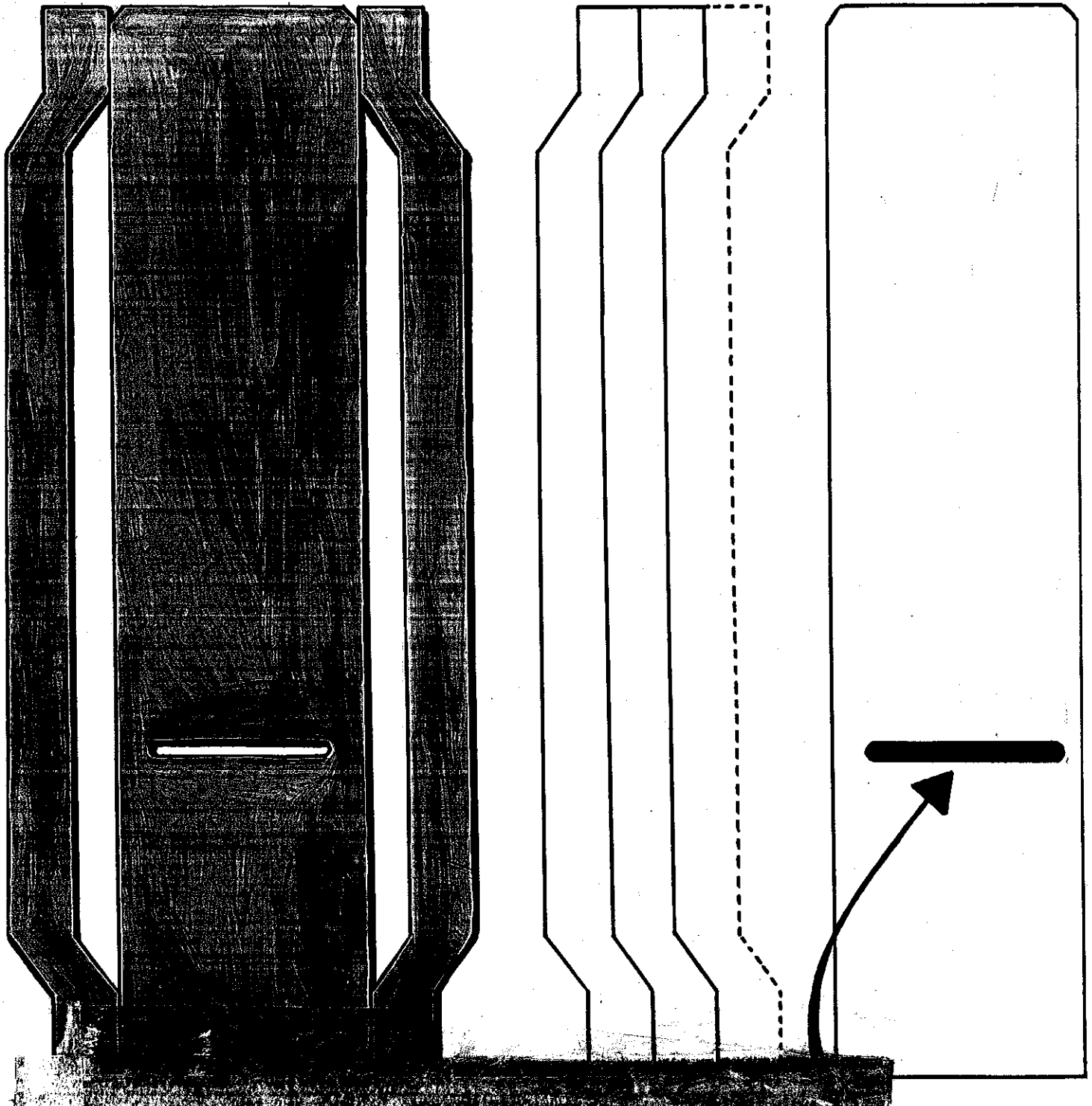
Railroad Motor Brush Holder - I&CE -- Formerly produced as a sand cast bronze detail requiring considerable machining including boring two holes and inserting and fastening in place two, 1" dia. steel pins. By redesign we now produce as a die cast bronze part with the steel pins "cast in place" integral with the holder resulting in reduction in machining and assembly cost, reduction in weight. \$5.00 reduction per casting, 10,000 castings per year -- Savings - \$50,000

Bell Mouth Adapter - A&OS Burlington, Larry Monroe (Value Analyst) working with Sig Eliot (Foundry). Formerly machined from a bar of steel (5½ pound). Now produced as investment precision castings (weight 1/2 pound) requiring no machining at an annual savings of over \$35,000. Cost reduction \$29.00/set.

Rotor Coil Bracket - LM&G - Phil Spinelli (Value Analyst) with DeHollander (Foundry). Formerly steel fabrication cost \$4.00 shop cost. Now redesigned as a casting (grey iron) costing 72¢ ready to use. Idea can be incorporated in many similar applications.

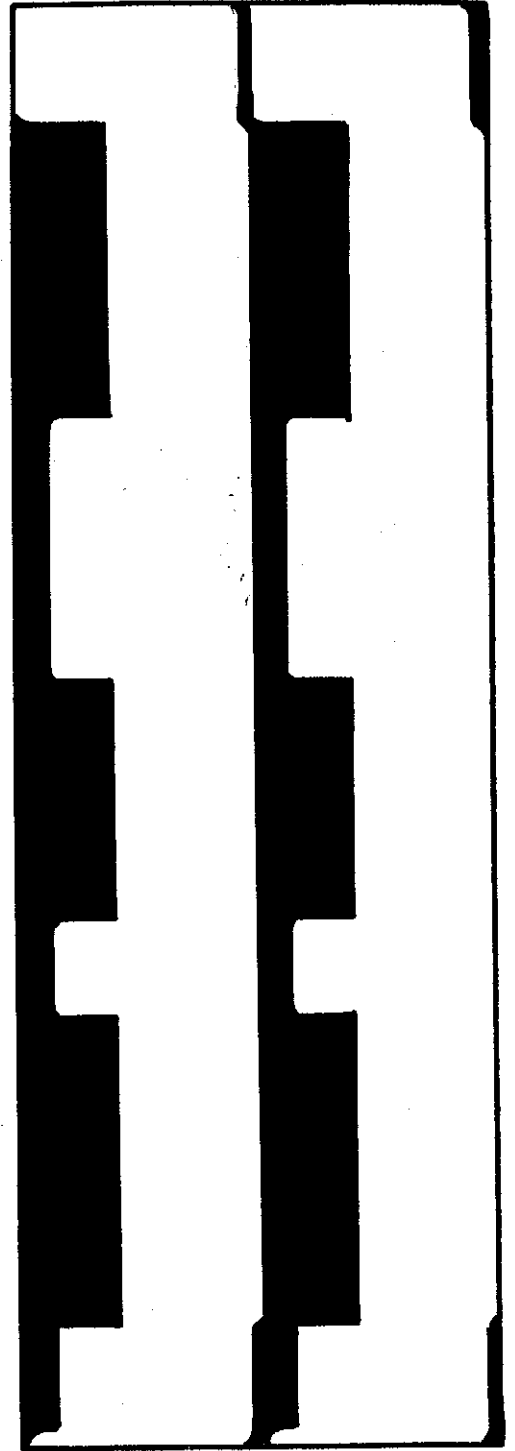
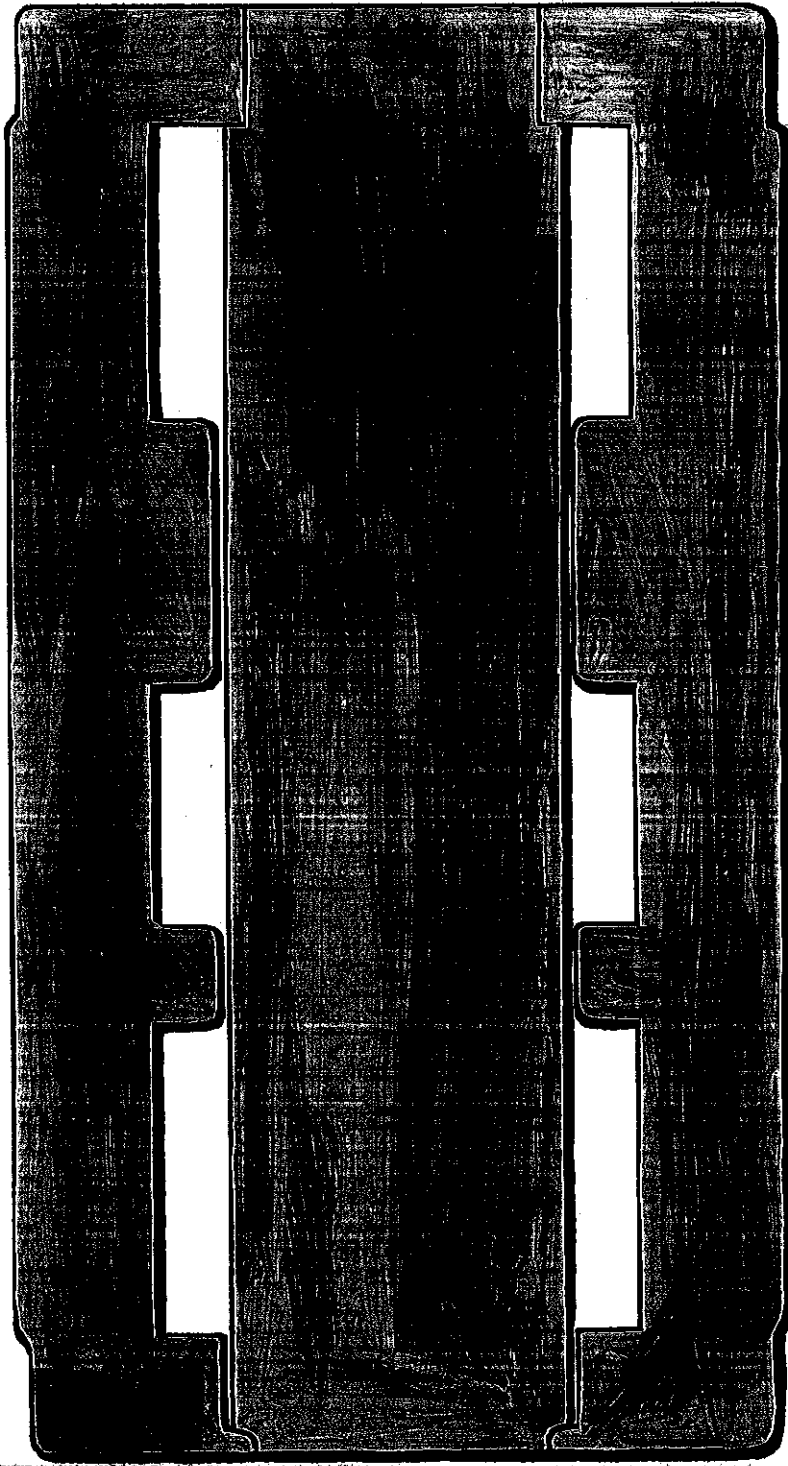
Bearing End Shield - LM&G - Phil Spinelli (Value Analyst) with Ernie Frens of Foundry. Formerly produced as fabrication at \$575.00 a pair. Now as castings \$300.00 per pair. Initial order 16 pairs. Has other similar applications.

Louvre - MIM - Bill LaBahn (Eng.) and Guy Pealer (Foundry). Thru redesign based on cooperative thinking between product engineer and foundry engineer an expensive core was eliminated and the louvre blade was simplified in shape to eliminate coring. Savings on one design size only -- well over \$24,000/annually.



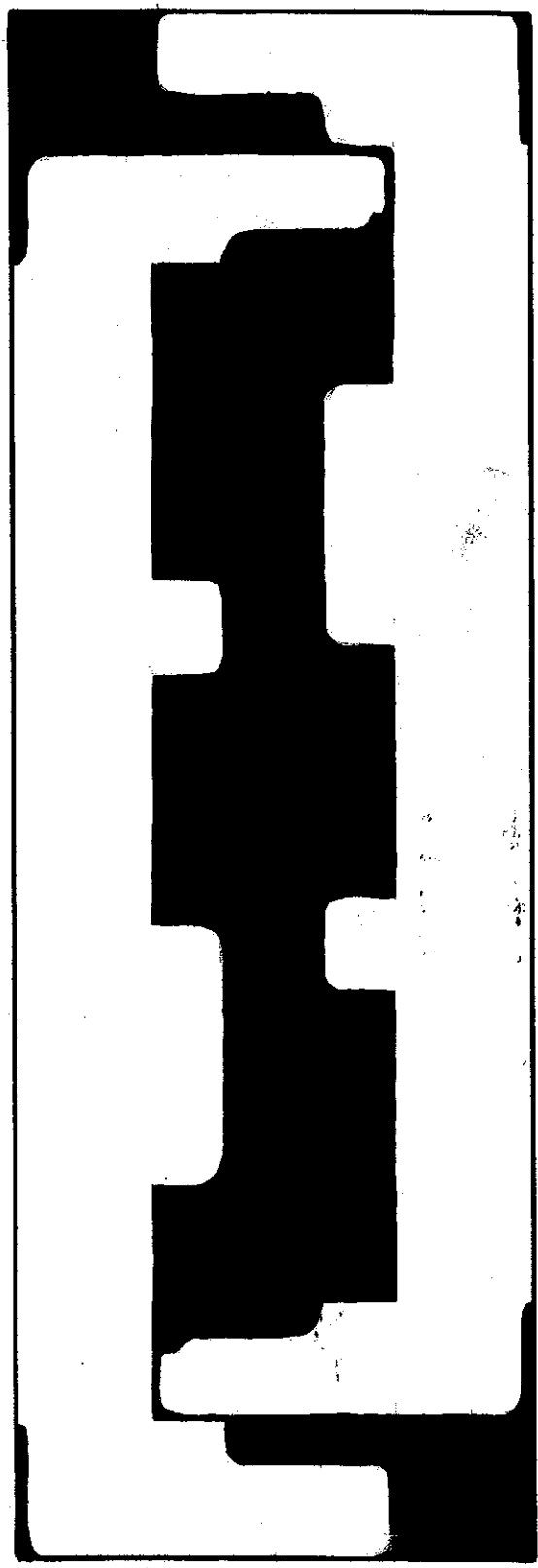
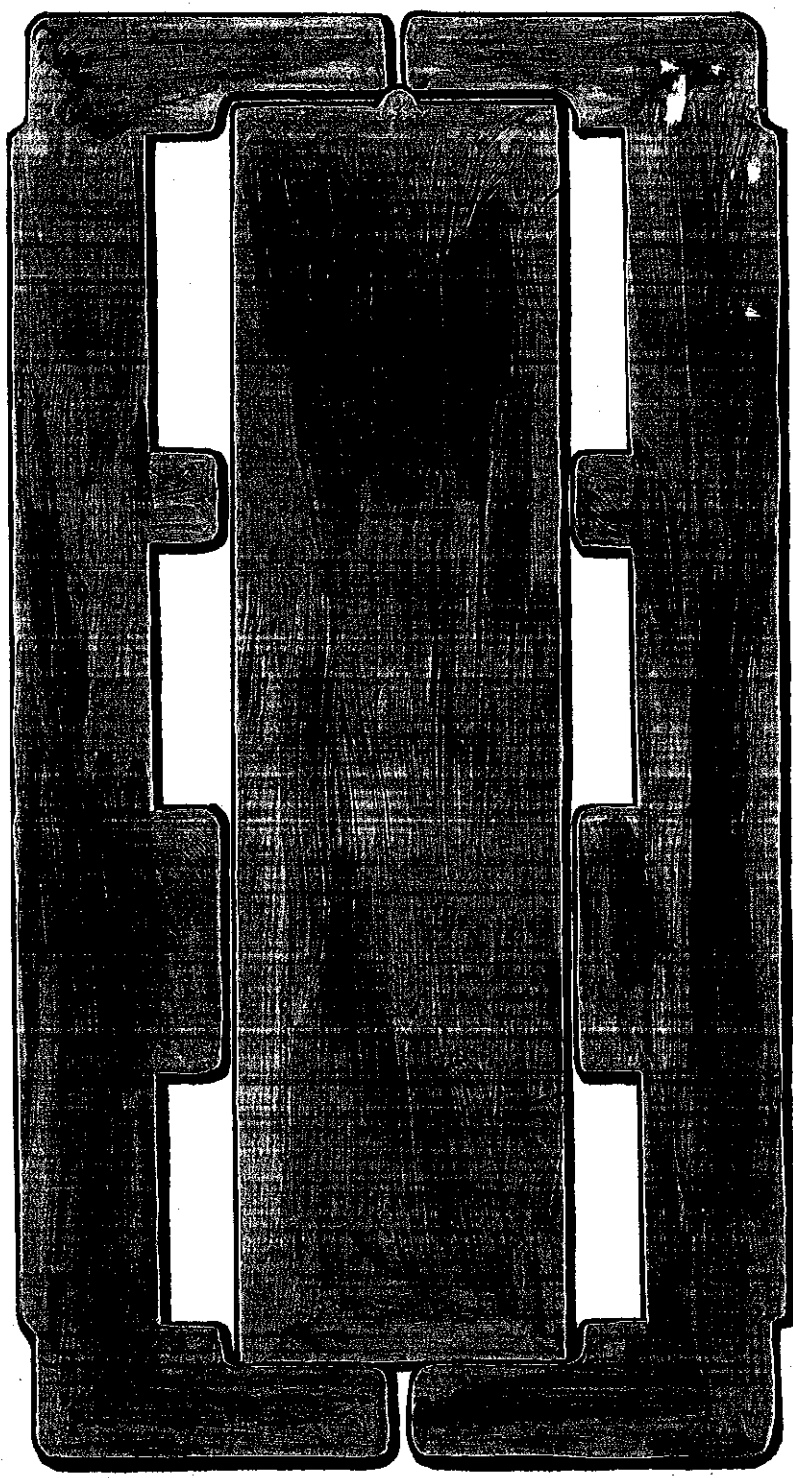
When the Product Engineering people saw this -- they got their "dander up" and working again with laboratory people developed a way to get the function and bring the scrap to almost ZERO. The only scrap is the little air gap now punched out from the center of the punching. This improved core brought them other benefits resulting in overall cost reduction of 20¢ which is \$200,000 on each million.

■ **SCRAP**



▲
SCRAP
25%

The Value Specialist working with laboratory people provided the same functional 3-piece "slice" with scrap cut to 25%. Savings then were \$50,000/yr. on each million. (3 million of this design used).



▲
SCRAP
42%

The Value Analysis study of the fluorescent ballast showed 42% of silicon steel scrapped at nesting as shown by black.

STORIES AND EXAMPLES

| | used but not met | Pres | V pres Sorter Heads | Funct. M grs | LA Cement 30 mm | R105 Cement 2 hrs |
|--|------------------------|------|---------------------------|-----------------|-----------------------|-------------------------|
| Cement | X | | ✓ | ✓ | | |
| Switch blade | X | - | - | - | | |
| shaft | X | ✓ | ✓ | | | |
| hang it with Rope | X | ✓ | ✓ | ✓ | ? | ✓ |
| wrong beliefs | | ✓ | ✓ | | | ✓ |
| ✓ Value measurements | | 2 | | | | ✓ |
| Function/Property | | | | | | |
| Property/Material | | | | | | |
| Material/cost | | ✓ | ✓ | ✓ | | |
| Partial Analysis | X | ✓ | ✓ | ✓ | | ✓ |
| gas tanks | X | ✓ | ✓ | ✓ | ✓ | ✓ |
| Insulation \$16-6 | | ✓ | ✓ | ✓ | ? | ✓ |
| 1 & Check | | | ✓ | ✓ | | |
| settle Cement | | | ✓ | | | |
| TV knob | X | ✓ | ✓ | ✓ | | ✓ |
| worm blood | X | ✓ | ✓ | ✓ | ✓ | |
| Motor switch - too late | | ✓ | ✓ | | | |
| People screens | | | | | ? | ✓ |
| ✓ People values systems | | 2 | ✓ | ✓ | | |
| acme thread | | | ✓ | ✓ | | |
| Bonn streetlight | | | | | | ✓ |
| weld segment 140 - 34-\$75 | | ✓ | ✓ | ✓ | | |
| ✓ Edison 7 years | | 3 | ✓ | | | ✓ |
| Dust cover | X | | ✓ | ✓ | | ✓ |
| Sales mgr - Hotpoint | X | | | | | ✓ |
| ✓ System | | 1 | | | | ✓ |
| automobile - aeroplane | X | | | | | |
| jet | | | | | | |
| Telephone | X | | | | | |
| chinese | | | | | | |
| cost first, performance second (after research) | | | ✓ | - | | |
| R + D - 90% "old" | | | | | | |
| 35. 23 - 8 | | | ✓ | ✓ | | |

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A 6¢ ITEM

"

VERY PRECISE
LITTLE PART

SIZE OF A

SHINGLE NAIL

COLD CONTROL

REFRIG. KEEPERS

BRUSH HOLDER

SPRING HOLDER

GLASS BREAKER

DOUBLE NUT

SPOT FOCUSER

FILTER

INS. STUD

MOTOR SCREEN

J BOLTS

DISPOSAL STUD

DRYER STUD

ST. HT. SPACER DISC

SWITCH BLADE

WELD SEGMENT

BLANKET SHAFT

" KNOB

COILS

SPEAKER BUTTONS

QUARTZ ROD LOCATER

1/4" CU. TUBE

OIL BURNER CONTROL

| | |
|--------------------------|---------------|
| Acorn Nut | 44 |
| Alum. Bearing Shell | 82 |
| Alum. Nameplate | 88 |
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