

# ARNESSEN ELECTRIC CHIPPING HAMMER

ARNESSEN & HUSKY  
SPARE PARTS  
and OPERATING MANUAL

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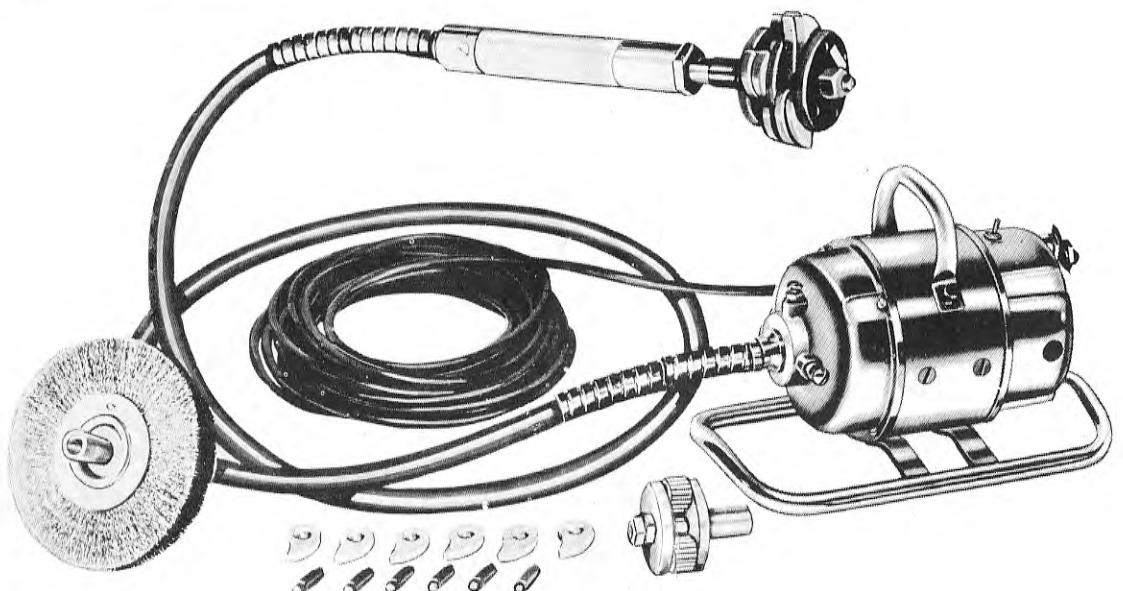
**Corrosion  
dynamics, INC.**  
Subsidiary of ARNESSEN ELECTRIC CO., INC.  
5 Bond Street, Brooklyn 31, N. Y.



**Important!**  
save this booklet  
for future  
reference

complete  
D.C. and A.C.  
units

# ARNESEN ELECTRIC



## CHIPPING HAMMER

Complete  
CHIPPING HAMMER unit  
consists of —

- 1 Heavy-Duty ball bearing Motor of specified voltage with Metal Skids
- 1 Ten-foot Heavy-Duty Swivel type Ball Bearing Flexible Shaft
- 25 ft. of #3 conductor rubber cable
- 1 Double-Finger head
- 1 Single-Wheel head
- 1 Wire-Brush head
- 6 Spare Chipping Fingers
- 6 Spare Pins

NOTE: See back cover for the name and address of your nearest Distributor for Arnesen Electric Chipping Hammers

### Specifications of ARNESEN ELECTRIC CHIPPING HAMMER PARTS

#### DOUBLE HEAD

Either a Double Finger Head; or a Double Wheel Head.

#### SINGLE HEAD

Either a Single Finger Head; or a Single Wheel Head.

#### WIRE BRUSH HEAD

A Wire Wheel, complete with arbor.

#### SPARE FINGERS

Six spare Chipping Fingers.

#### SPARE SPACER PINS

Six spare Spacer Pins.

#### MOTOR

Direct Current Hammers are furnished with a  $\frac{1}{2}$  H.P., heavy duty, totally enclosed, ball-bearing motor; Alternating Current Hammers, with a  $\frac{3}{4}$  H.P., heavy duty, Repulsion-Induction motor. Each motor mounted with handle, skid, and toggle switch.

#### FLEXIBLE SHAFT

A 10 ft. rubber sheathed, steel lined, flexible swivel outer casing with a ball-bearing supported handle; and a flexible steel core.

#### RUBBER CORD

A 25 ft. length of 3 conductor rubber cable.

Unit No.	Description	Voltage
3M1	ARNESEN ELECTRIC CHIPPING HAMMER Complete	115 Volts, D.C.
3M2	ARNESEN ELECTRIC CHIPPING HAMMER Complete	230 Volts, D.C.
3M3	ARNESEN ELECTRIC CHIPPING HAMMER Complete	32 Volts, D.C.
3M4	ARNESEN ELECTRIC CHIPPING HAMMER Complete	110/220 Volts, 60 cycle, 1 phase A.C.
3M5	ARNESEN ELECTRIC CHIPPING HAMMER Complete	220 Volts, 50 cycle 1 phase, A.C.
3M6	ARNESEN ELECTRIC CHIPPING HAMMER Complete	110/220 Volts, 60 cycle, 3 phase A.C.
3M7	ARNESEN ELECTRIC CHIPPING HAMMER Complete	220/440 Volts, 50 cycle, 3 phase A.C.
3M8	ARNESEN ELECTRIC CHIPPING HAMMER Complete	110/220 Volts, 50 cycle, 3 phase A.C.
3M9	ARNESEN ELECTRIC CHIPPING HAMMER Complete	220/440 Volts, 50 cycle, 3 phase A.C.

Net Weight of complete unit—90 lbs.  
Gross Shipping Weight, complete unit—  
110 lbs.

# MOTOR REPLACEMENT PARTS

Note: Manufacturer assumes no liability or risk if Hammers are used in areas where volatile or combustible mixtures are used or stored.

Fig. No.	Part No.	Description
1	6M1	Motor only for 3M1 Hammer, (rubber cable included)
	6M2	Motor only for 3M2 Hammer, (rubber cable included)
	6M3	Motor only for 3M3 Hammer, (rubber cable included)
2	6M4	Motor only for 3M4 Hammer, (rubber cable included)
	6M5	Motor only for 3M5 Hammer, (rubber cable included)
	6M6	Motor only for 3M6 Hammer, (rubber cable included)
	6M7	Motor only for 3M7 Hammer, (rubber cable included)
	6M8	Motor only for 3M8 Hammer, (rubber cable included)
	6M9	Motor only for 3M9 Hammer, (rubber cable included)
	2A13	Armature Assembly complete for 6M4 Motor
	2A14	Armature Assembly complete for 6M5 Motor
	2A15	Armature Assembly complete for 6M6 Motor
3	2A16	Armature Assembly complete for 6M7 Motor
	2A17	Armature Assembly complete for 6M8 Motor
	2A18	Armature Assembly complete for 6M9 Motor
	3C13	Field coils 110 V. (pair)
	3C14	Field coils 220 V. (pair)
	2A10	Armature 110 V. DC
4	2A11	Armature 220 V. DC
	2A12	Armature Assembly complete for 6M3 Motor

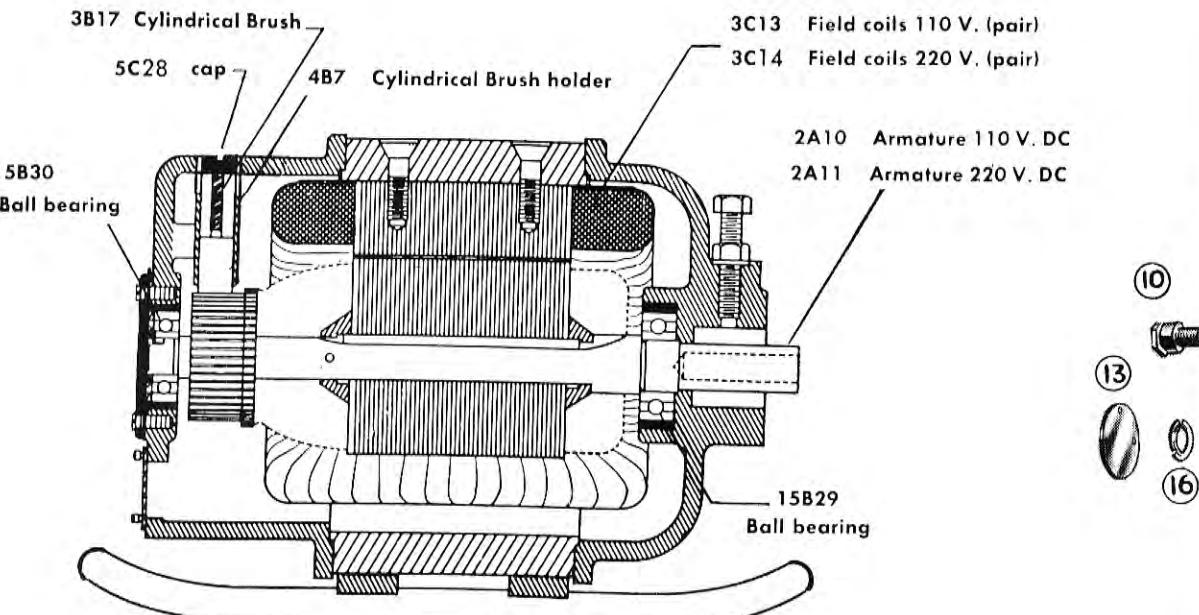
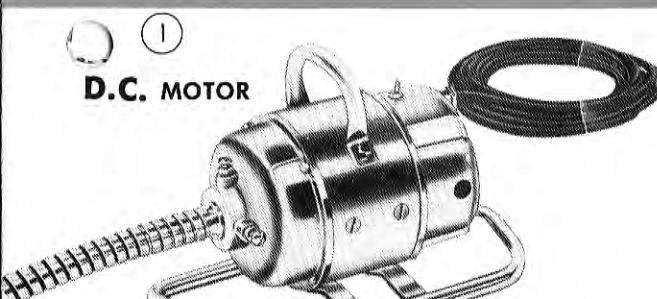
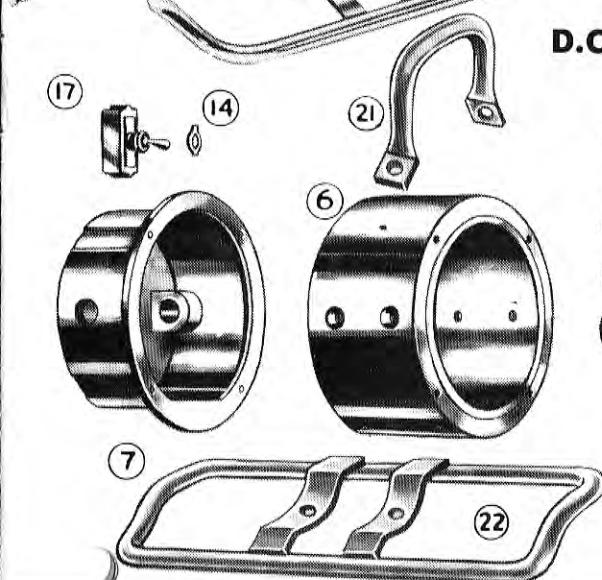


Fig. No.	Part No.	Description	Fig. No.	Part No.	Description
4	2A10	Armature Assembly complete for 6M1 Motor	not illustrated	4B6	Brushholder—square type (set of 2) —for all D.C. Motors
	2A11	Armature Assembly complete for 6M2 Motor	9	4B7	Brushholders—cylindrical type (set of 2)—for all D.C. Motors
	2A12	Armature Assembly complete for 6M3 Motor	10	3D1	Terminal Tube—for motor mounting
5	3C13	Field Coils (set of 2) for 6M1 Motor	not illustrated	3B16	Carbon Brush for all D.C. Motors (to fit 4B6 Brushholder)
	3C14	Field Coils (set of 2) for 6M2 Motor	11	3B17	Carbon Brush for all D.C. Motors (to fit 4B7 Brushholder)
	3C15	Field Coils (set of 2) for 6M3 Motor	12	3D2	Motor Set Bolt—for holding flexible shaft
not illustrated	3C16	Stator Coils mounted in steel frame for 6M4 Motor	13	5C25	Bearing Cap for commutator end of all D.C. Motors
	3C17	Stator Coils mounted in steel frame for 6M5 Motor	14	3P62	ON-OFF indicator plate for switch
	3C18	Stator Coils mounted in steel frame for 6M6 Motor	15	15B30	Ball Bearing for commutator end—all D.C. Motors
	3C19	Stator Coils mounted in steel frame for 6M7 Motor	16	11R48	Ball Bearing Retainer Ring, commutator end—all D.C. Motors
	3C20	Stator Coils mounted in steel frame for 6M8 Motor	17	10S5	ON-OFF switch—for all Motors
	3C21	Stator Coils mounted in steel frame for 6M9 Motor	18	15B29	Ball Bearing for coupling end—all D.C. Motors
	2H67	Field Frame for all D.C. Motors	20	4P13	Pole Piece—all D.C. Motors
	1E26	End Bell, commutator end—for all D.C. Motors	21	TMII	Carrying Grip Handle—all Motors
	1E25	End Bell, coupling end—for all D.C. Motors	22	TMS	Skid Assembly—all Motors
6	not illustrated		23	5C27	Brushholder Cap, old type, for 4B6 Brushholder
				5C28	Brushholder Cap, new type, for 4B7 Brushholder



D.C. MOTOR



D.C. MOTOR PARTS only

A. C. MOTOR  
NOT ILLUSTRATED

Specify Type and Serial No. of Motor  
as well as Part No., when ordering  
Replacement Parts

# "SWIVEL" FLEXIBLE SHAFT AND PARTS

## CARE OF FLEXIBLE SHAFT

The inner core of the flexible shaft must be greased heavily with a good shaft Grease at least twice a month if the Hammer is used frequently.

### DO NOT USE OIL

#### TO GREASE inner core

1. Remove set screws (2) and lock washers located at rear of Grip Handle. This will release the outer rubber shaft casing.
2. Hold Rubber Outer Casing firmly and pull Grip Handle or Clutch Handle from Outer Rubber Casing. The inner core attached to the Handle will then be accessible for greasing. Grease inner core its entire length before ASSEMBLING.
3. Replace Inner Core in Outer Rubber Casing and secure with set screws. Grease at least once a month. Swivel Flexible Shaft fits both the No. 1CL1 Clutch Handle and the 3H7 Grip Handle.

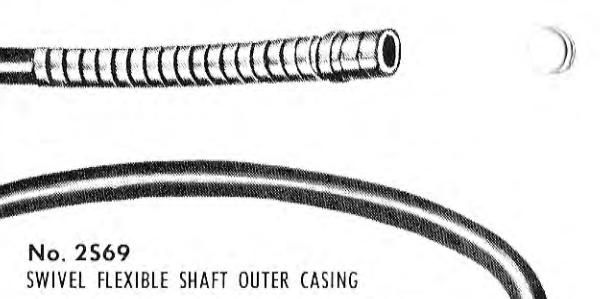
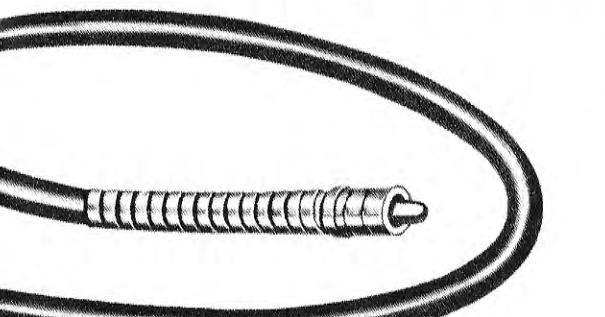
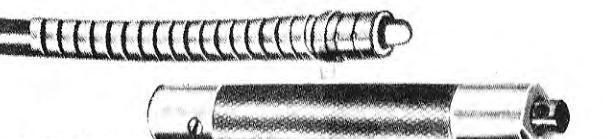
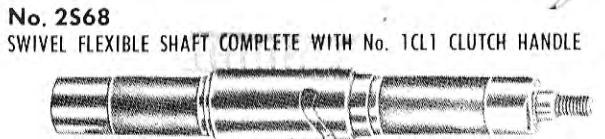
**CAUTION — THE CLUTCH HANDLE CONTAINS A DRY CLUTCH. DO NOT GREASE OR OIL**

#### Replacement Part Numbers

Inner Core ..... Part No. 2S67  
Outer Casing ..... Part No. 2S69  
Grip Handle ..... Part No. 2S58  
Clutch Handle .... Part No. 1CL1

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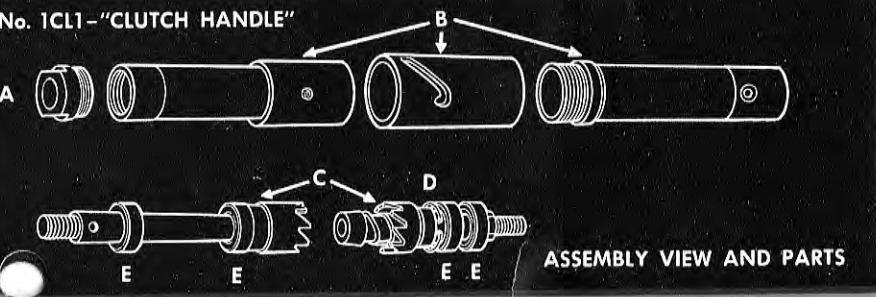
## CLUTCH HANDLE AND PARTS



### No. 1CL1 CLUTCH HANDLE COMPLETE

The new "CLUTCH" Handle completely revolutionizes the operating control of the Chipping Hammer by giving the operator instant control at the operating end. A slight twist of the Handle starts or stops the rotation of the Heads during scaling operations. It eliminates all possible danger of Chipping Hammer bouncing around deck or at sides of ship while operator is shutting off power at Motor. THE NEW "CLUTCH" HANDLE IS RECOMMENDED BY SHIPS' SAFETY COMMITTEES.

Fig. No.	Part No.	Description	No. of Pieces
A	2N27	Retainer Nut	1
B	1CL2	Clutch Housing	1
C	1CL3	Clutch Inner Assembly	1
D	1CL4	Retainer Ring	1
E	15B7	Ball Bearings	4
F	CC	Rubber Sleeve (Not Illustrated)	1



## CAUTION

### CARE OF THE "CLUTCH" HANDLE

The new "CLUTCH" Handle is a **DRY CLUTCH**. No Oil or Grease should ever be used on this Handle.

## GRIP HANDLE AND PARTS



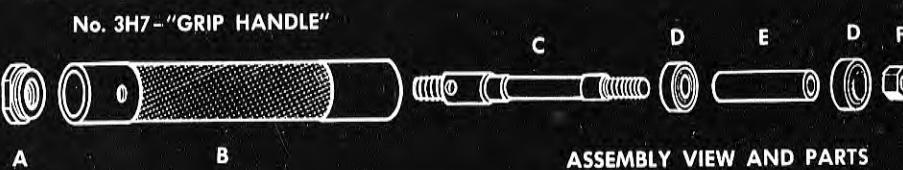
### No. 3H7 GRIP HANDLE COMPLETE

The Grip Handle is a Standard part of all Arnessen Electric Chipping Hammers. The "SWIVEL" feature of the Flexible Shaft permits a completely independent rotating action of the Handle, thus eliminating any possibility of kinking or twisting of the Flexible Shaft Hose.

#### CARE OF THE GRIP HANDLE

After the INNER CORE of the Flexible Shaft has been greased, a sufficient amount of grease should be placed into the GRIP HANDLE before Assembling the Inner Core of the Flexible Shaft. DO NOT USE OIL.

Fig. No.	Part No.	Description	No. of Pieces
A	2N27	Retainer Nut	1
B	3H7	Grip Handle	1
C	12S3	Spindle	1
D	15B7	Ball Bearings	2
E	1S26	Bearing Spacer	1
F	2N30	Retainer Nut for Spindle Bearing	1

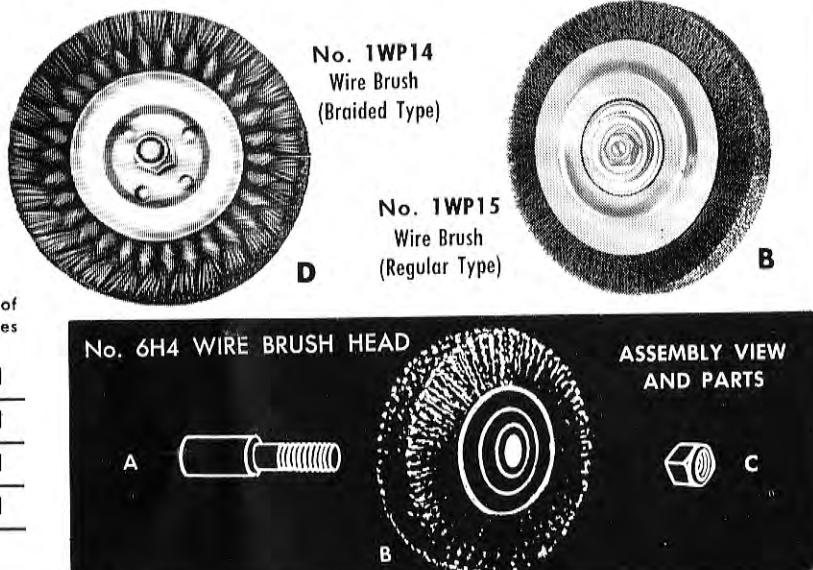


## WIRE BRUSH HEADS AND PARTS

### No. 6H4 WIRE BRUSH HEAD

For removing residue of rust, paint and scale remaining after use of Finger or Wheel Heads.

No. Fig.	No. Part	Description	No. of Pieces
A	5A1	Arbor for wire brush head	1
B	1WP15	Wire Brush (Regular Type)	1
C	2N28	Stop Nut for Arbor	1
(or D)	1WP14	Wire Brush (Braided Type)	1



NOTE: Wire Brush Heads should never be used for direct removal of heavy accumulations of rust or paint.

### No. 1W15 WIRE CUP BRUSH HEAD

For scouring action on horizontal surfaces, to remove residue of scale remaining after use of Finger or Wheel Heads.

No. Fig.	No. Part	Description	No. of Pieces
A	5A1	Arbor for wire cup brush	1
B	2G10	Wire Cup Brush	1
C	2N28	Stop Nut for Arbor	1

## SAFETY GUARD FOR HEADS

### No. 6H7—SAFETY GUARD

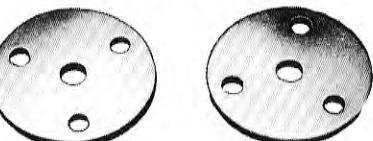
Assures complete safety to operator when used with Finger Heads, Wheel Heads and Brush Heads.

NOTE: ARNESSEN SAFETY GUARDS as well as goggles are recommended by Ships' Safety Committees and should be used in all scaling operations.



## SINGLE FINGER HEAD PARTS

### COMPONENT PARTS



No. 3P63 Single Finger Head End Plates (2)



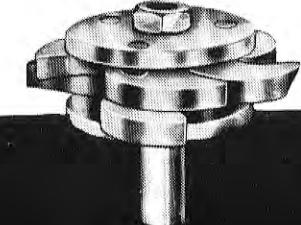
No. 9F1 Chipping Fingers for Single Finger Head (6)



No. 5A3 Single Finger Head Hardened Arbor (1)



No. 2N29 Stop Nut for Single Finger Head (1)



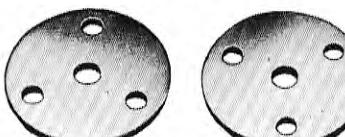
No. 6H1 — SINGLE FINGER HAMMER HEAD—For scaling rust and paint accumulations from smaller surfaces—angles, corners and seams not accessible with the Double Finger Hammer Head.



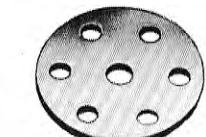
No. 2P30 Spacer Pins for Single Finger Head (3)

## DOUBLE FINGER HEAD PARTS

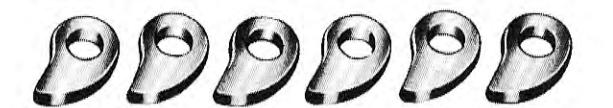
### COMPONENT PARTS



No. 3P63 Double Finger Head End Plates (2)



No. 3P64 Double Finger Head Center Plate (1)



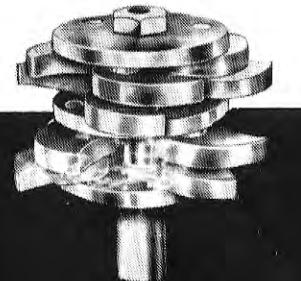
No. 9F1 Chipping Fingers for Double Finger Head (12)



No. 5A2 Double Finger Head Hardened Arbor (1)



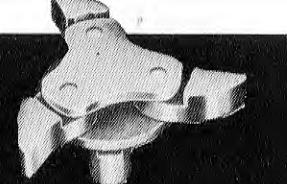
No. 2N29 Stop Nut for Double Finger Head (1)



No. 6H2—DOUBLE FINGER HAMMER HEAD—The Double Finger Head is used for scaling rust and paint accumulations from hulls, decks, and other large metal surfaces where fast scaling operations are needed.

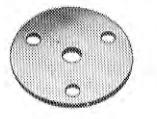


No. 2P30 Spacer Pins for Double Finger Head (6)

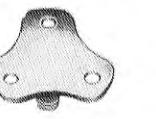


**No. 7CH1 — CORNER FINGER HAMMER HEAD** — For removing rust from the very hard-to-get-at places — narrow openings, corners and crevices not accessible with larger heads.

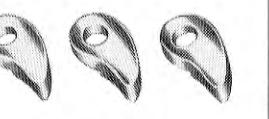
## CORNER FINGER HEAD PARTS



No. 7CH5  
Bottom End Plate



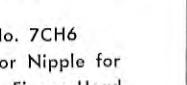
No. 7CH2  
Top Triangular End Plate



No. 7CH3  
Chipping Fingers for  
Corner Finger Head (3)



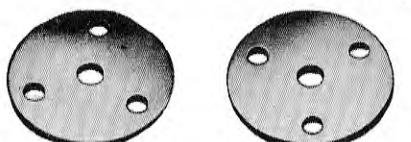
No. 7CH4  
Spacer Pins for  
Corner Finger Head (3)



No. 7CH6  
Adaptor Nipple for  
Corner Finger Head

## SINGLE WHEEL HEAD PARTS

### COMPONENT PARTS



No. 3P63 Single Wheel  
Head End Plates (2)



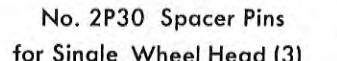
No. 6 Chipping Wheels for  
Single Wheel Head (3)



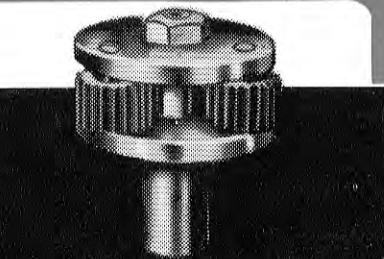
No. 2N29  
Stop Nut for Single  
Wheel Head (1)



No. 5A3  
Single Wheel Head  
Hardened Arbor (1)



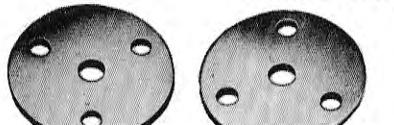
No. 2P30 Spacer Pins  
for Single Wheel Head (3)



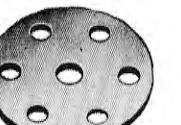
No. 6H5 — **SINGLE WHEEL HEAD** — Used for scaling rust and paint accumulations from smaller surfaces of light gauge metal and for corners, angles and seams, not accessible with the Double Wheel Head.

## DOUBLE WHEEL HEAD PARTS

### COMPONENT PARTS



No. 3P63 Double Wheel Head  
End Plates (2)



No. 3P64 Double Wheel  
Head Center Plate (1)



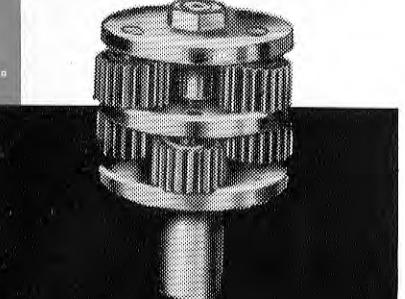
No. 6 Chipping Wheels for Double Wheel Head (6)



No. 2P30 Spacer Pins for Double  
Wheel Head (6)



No. 5A2 Double Wheel Head  
Hardened Arbor '11



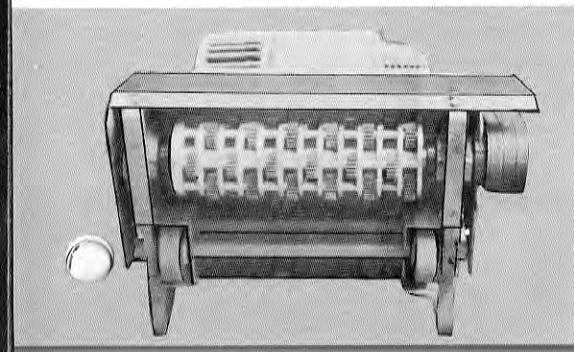
No. 6H6 — **DOUBLE WHEEL HEAD** — For fast scaling of rust and paint accumulations from large surfaces. Can be safely used on lighter gauge metal surfaces.

## ARNESSEN

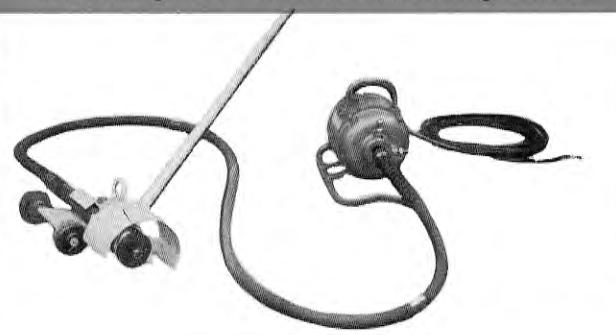
### ELECTRIC DECK SCALER

A real high production tool for large area scaling . . .

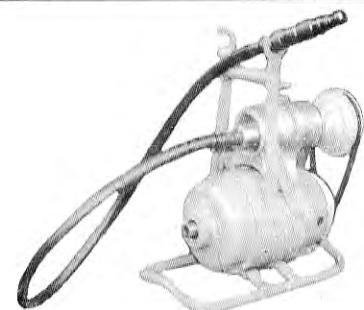
- **NEW . . . DIFFERENT** — ruggedly designed and built for Heavy Duty rust, scale and paint removal
- 16" cutting path for easy and economical "down to metal" scaling of large horizontal surfaces
- All units have "built-in" overload protection devices
- High strength alloy steel cutting wheels greatly reduce wear and replacement
- Rotating drum mounted on heavy-duty roller bearings
- Self-propelled and equipped with brace bars to lessen vibration
- Unit is complete "ready to operate" with 25 feet of 3-conductor heavy electric cord



ARNESSEN DECK SCALER DOLLY  
Removes rust and paint accumulations from deck surfaces with complete safety to operator. Pressure on working head controlled by lowering handle.



ARNESSEN HIGH-SPEED POWER  
TAKEOFF UNIT  
For buffing, grinding, drilling, and sanding on both interior and exterior applications.



Contact your nearest Corrosion Dynamics Distributor for further details, prices and delivery. (See back cover)

**CORROSION DYNAMICS, INC.**

Subsidiary of Arnessen Electric Co., Inc.

335 Bond Street, Brooklyn 31, New York



# HOW

## to assemble and operate the — ARNESEN ELECTRIC CHIPPING HAMMER

**1**

Screw Arbor on to end of Flexible Cable Shaft Grip Handle. Long Arbor for Double Heads — Short Arbor for Single Heads.

**2**

Tighten Arbor securely with wrench then place End Plate over Arbor as shown.

**3**

For Single Heads insert 3 Spacer Pins into holes of End Plate. For Double Heads add Center Plate and 3 additional Spacer Pins.

**4**

Place 2 Chipping Fingers over each Spacer Pin — be sure to place Fingers with Tips pointing counter-clockwise.

**5**

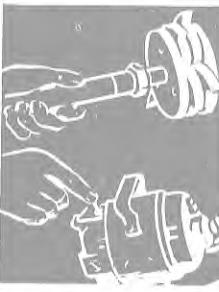
Place other End Plate over Arbor and onto Chipping Fingers. For Double Heads place Center Plate and 6 additional Chipping Fingers before placing other End Plate into position.

**6**

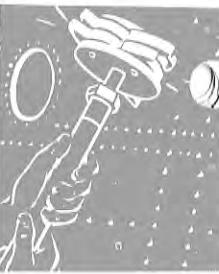
Screw Stop-Nut on to threaded end of Arbor and tighten securely with wrench. This Stop-Nut must be kept tight at all times.

**7**

**Important:** Before starting motor be sure to hold Grip Handle firmly in other hand. Never relinquish hold of Grip Handle until motor is stopped.

**8**

For correct operating position, hold Grip Handle almost parallel to surface being cleaned, with Chipping Finger Tips against surface.

**9**

With Chipping Fingers held close to surface being cleaned, move Chipping Hammer from side to side with wide sweeping arc-like motions.

**10**

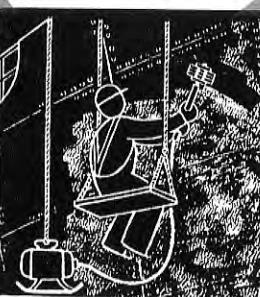
To assure positive safety to operator, attach Safety-Guard to Hammer Head. We also advise the use of Safety-Goggles while operating.



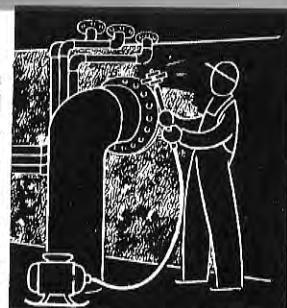
# WHERE

## to use the —

## ARNESEN ELECTRIC CHIPPING HAMMER



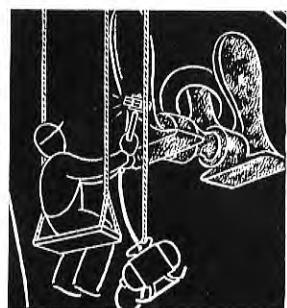
For fast removal of rust from Hulls, Decks, and other large surfaces, use the Double Finger Hammer Head.



For small surfaces such as Corners, Angles and Seams, etc., not accessible to the Double Finger Hammer Head, use the Single Finger Hammer Head. Where metal is light-gauge use Single Wheel Head.



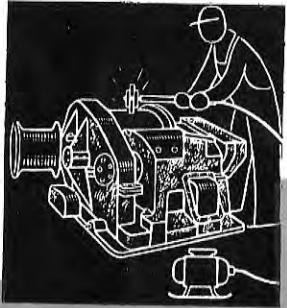
For removing rust from inside Hulls, Plates, etc., use the Double Finger Hammer Head for large surfaces and the Single Finger Hammer Head for smaller surfaces.



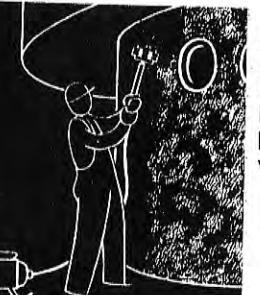
For Anchors, Anchor Chains and other small heavy-gauge metal areas, use the Single Finger Hammer Head.



For quick removal of rust from Stacks, use the Double Finger Hammer Head. To obtain a perfectly smooth metal finish, follow up with the Wire Wheel Brush Head.



For those extremely "hard-to-get-at" crevices, corners, angles, seams, etc., use the special Corner Finger Hammer Head.



For large surfaces of Upper Structures use the Double Finger Hammer Head. Where metal is light-gauge use the Double Wheel Head.

## CARE OF CHIPPING HAMMER

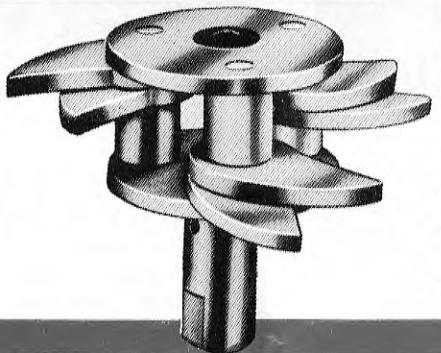
Use only genuine  
ARNESEN "SPARE PARTS"  
for your Chipping Hammer —  
Look for Trademark or Part No.

1. Grease end of Motor Shaft thoroughly and fill Motor End Bell recess with heavy grease before attaching the flexible shaft.
2. While Hammer is in use, immerse Head in oil at intervals to aid in cooling and to prevent excessive friction.
3. Rubber Cable supplying power to Motor should be kept clear of obstructions and never used to move Motor.
4. Do not drop or place any heavy object on the Flexible Shaft as it may cause serious damage to Motor.

# HUSKY FINGER HEADS & PARTS

## No. 1 ALL-PURPOSE FINGER HEAD

The No. 1 ALL-PURPOSE FINGER HEAD is used for general all-round use for scaling rust and paint accumulations from small to large surfaces.

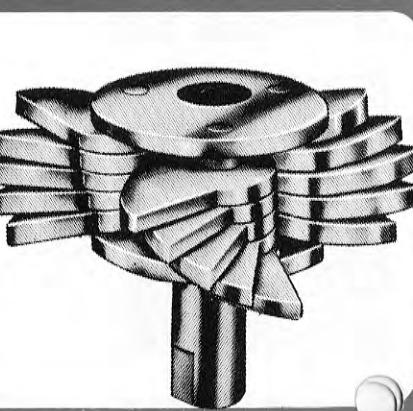


No. Fig.	No. Part	Description	No. of Pieces
A	8SA1	Head Coupling	1
B	8SA3	Square Hole Base Plate	1
C	8SA6	Long Spacer Pins	3
D	8LF9	Long Fingers	6
E	8SA8	Small Spacers	2
F	8SA7	Large Spacers	2
G	8SA4	Round Hole Top Plate	1
H	8SA2	Long Axis Bolt	1

No. Fig.	No. Part	Description	No. of Pieces
A	8SA1	Head Coupling	1
B	8SA3	Square Hole Base Plate	1
C	8SA6	Long Spacer Pins	3
D	8LF9	Long Fingers	15
E	8SA4	Round Hole Top Plate	1
F	8SA2	Long Axis Bolt	1

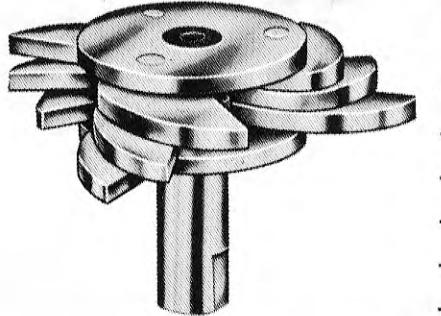
## No. 2 HEAVY DUTY FINGER HEAD

The No. 2 HEAVY DUTY FINGER HEAD is used for scaling rust and paint accumulations from Hulls, Decks, and other large metal surfaces where fast scaling operations are needed.



## No. 4 LONG FINGER SINGLE HEAD

Designed for removing rust and paint from small and average surfaces not accessible to the larger Chipping Heads.

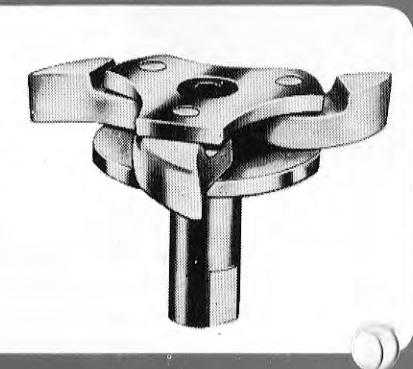


No. Fig.	No. Part	Description	No. of Pieces
A	8SA1	Head Coupling	1
B	8SA3	Square Hole Base Plate	1
C	8SA5	Short Spacer Pins	3
D	8LF9	Long Fingers	9
E	8SA4	Round Hole Top Plate	1
F	8SA11	Short Axis Bolt	1

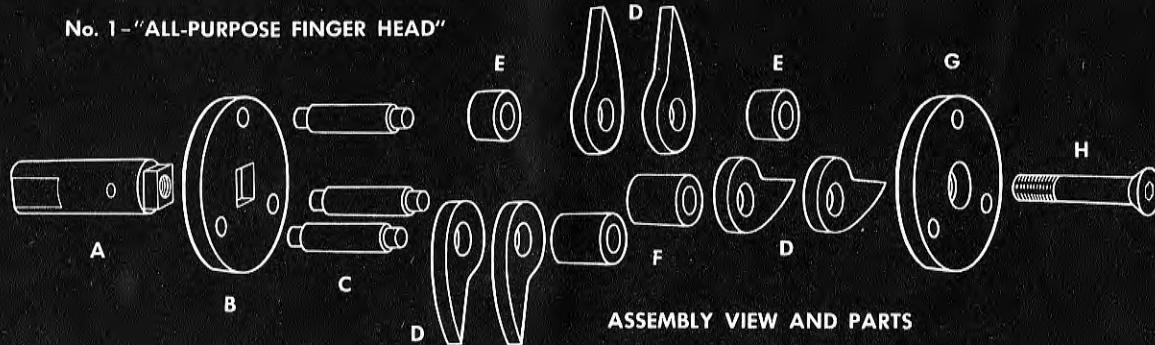
No. Fig.	No. Part	Description	No. of Pieces
A	8SA1	Head Coupling	1
B	8SA17	Square Hole Base Plate (for Corner Finger Head only)	1
C	7CH4	Spacer Pins	3
D	7CH3	Corner Fingers	3
E	8SA13	Top Triangle Plate	1
F	8SA11	Short Axis Bolt	1

## No. 6 CORNER FINGER HEAD

For those hard-to-get-at places Angles, Corners, Crevices, Seams, Machinery and Parts, where pin-pointed, flush chipping is needed.

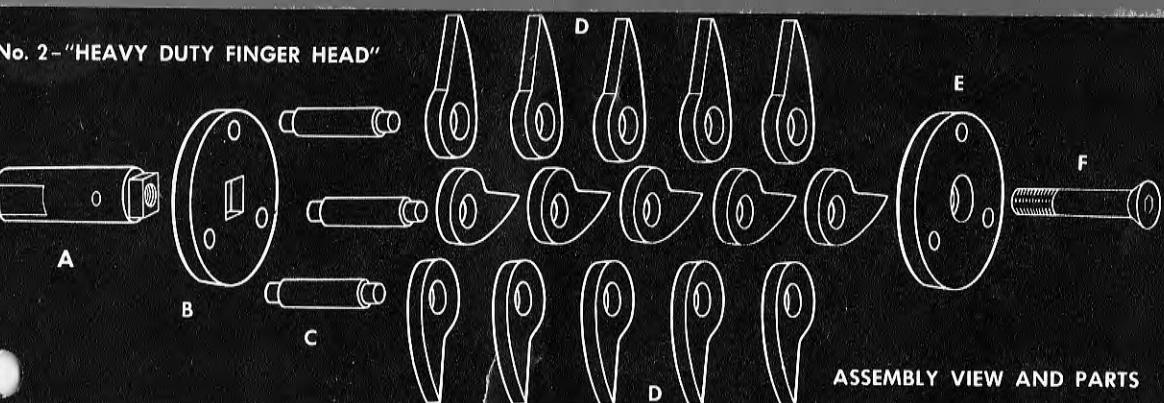


## No. 1 - "ALL-PURPOSE FINGER HEAD"



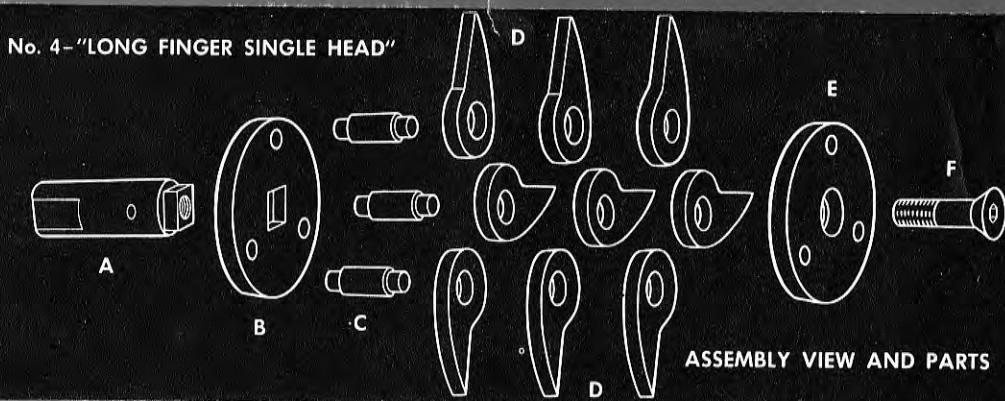
ASSEMBLY VIEW AND PARTS

## No. 2 - "HEAVY DUTY FINGER HEAD"



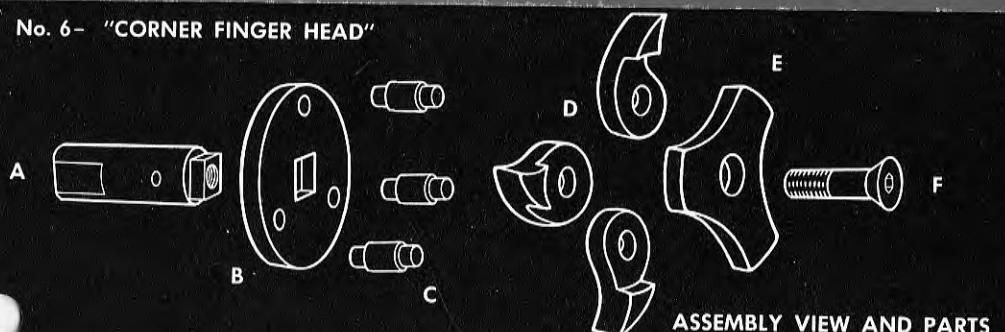
ASSEMBLY VIEW AND PARTS

## No. 4 - "LONG FINGER SINGLE HEAD"



ASSEMBLY VIEW AND PARTS

## No. 6 - "CORNER FINGER HEAD"

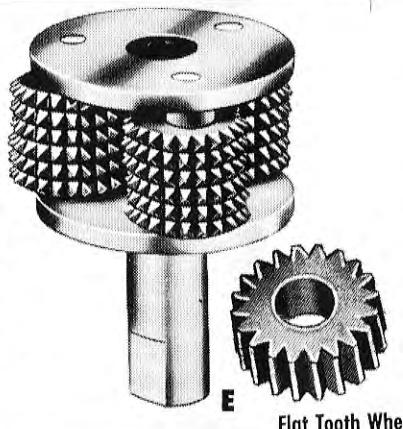


ASSEMBLY VIEW AND PARTS

## HUSKY WHEEL HEADS & PARTS

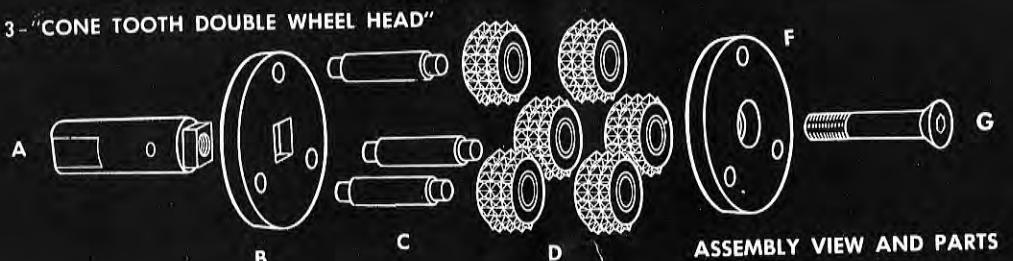
### No. 3 CONE TOOTH HEAVY DUTY WHEEL HEAD

This new CONE TOOTH HEAVY DUTY WHEEL HEAD has been designed for fast scaling of rust and paint accumulations from large lighter metal gauge surfaces.



No. Fig.	No. Part	Description	No. of Pieces
A	8SA1	Head Coupling	1
B	8SA3	Square Hole Base Plate	1
C	8SA6	Long Spacer Pins	3
D	8SA10	Cone Tooth Wheels	6
(or) E	8FT10	Flat Tooth Wheels	6
F	8SA4	Round Hole Top Plate	1
G	8SA2	Long Axis Bolt	1

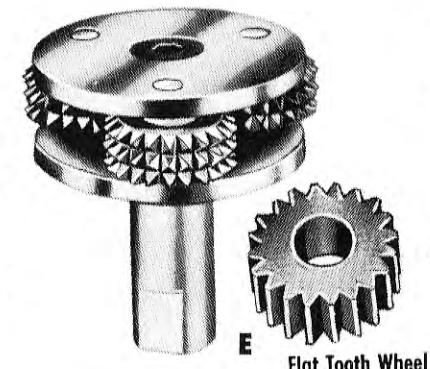
No. 3 - "CONE TOOTH DOUBLE WHEEL HEAD"



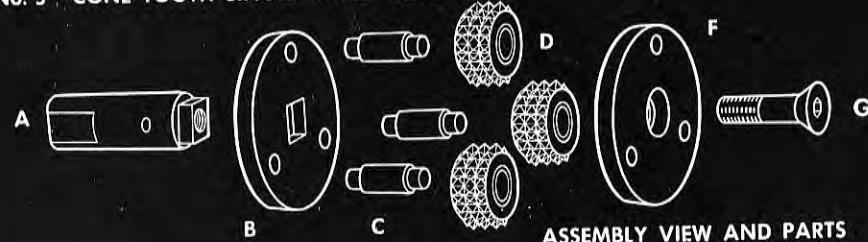
No. Fig.	No. Part	Description	No. of Pieces
A	8SA1	Head Coupling	1
B	8SA3	Square Hole Base Plate	1
C	8SA5	Short Spacer Pins	3
D	8SA10	Cone Tooth Wheels	3
(or) E	8FT10	Flat Tooth Wheels	3
F	8SA4	Round Hole Top Plate	1
G	8SA11	Short Axis Bolt	1

### No. 5 CONE TOOTH SINGLE WHEEL HEAD

For scaling rust and paint accumulations from smaller areas or lighter areas. It can also be used effectively for Corners, Angles, Seams, etc., not ordinarily accessible to the HEAVY DUTY WHEEL HEAD.



No. 5 - "CONE TOOTH SINGLE WHEEL HEAD"

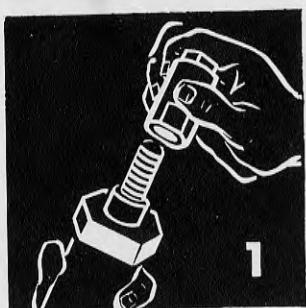


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- ALCOA STEAMSHIP COMPANY
- ALLIED CHEMICAL CORPORATION
- AMERICAN ANCHOR & CHAIN CORPORATION
- AMERICAN EXPORT LINES
- AMERICAN MAIL LINES
- AMERICAN SHIP CLEANING
- ANACONDA COMPANY
- ARGENTINE STATE LINES
- ASSOCIATED PIPE & SUPPLY
- ATLANTIC COAST CONTRACTING COMPANY
- BALDT ANCHOR CHAIN & FORGE
- BAUER DREDGING COMPANY
- BETHLEHEM TRANSPORTATION
- LLOYD BRASILEIRO
- CANADIAN NATIONAL STEAMSHIPS
- CARIBBEAN STEAMSHIP COMPANY
- CHEMICAL FIRE & RUST PROOFING CORPORATION
- CHICAGO DULUTH & GEORGIAN BAY TRANSIT CO.
- CLEVELAND CLIFFS IRON COMPANY
- MASSACHUSETTS MARITIME ACADEMY
- DEPT. OF DEFENSE, CANADA
- DISTRICT ENGINEER, MEMPHIS, TENNESSEE
- DREIER STRUCTURAL STEEL COMPANY
- EPOXY WATERPROOFING & RESTORATION COMPANY
- ERIE RAILROAD
- FARRELL LINES
- FORD MOTOR COMPANY
- GRACE LINE
- GRANCOLOMBIANA TRANSPORTADORA LTDA.
- GYPSUM TRANSPORTATION COMPANY
- HANNA MINING COMPANY
- HELLENIC LINES, LTD.
- HUDSON RIVER DAY LINE
- INTERLAKE STEAMSHIP COMPANY
- KEANSBURG STEAMBOAT COMPANY
- KILL VAN KULL FERRY
- LAKE CHAMPLAIN TRANSPORTATION CO.
- LYKES BROS. STEAMSHIP CO.
- MAINE MARITIME ACADEMY
- MERRITT DREDGING COMPANY
- MILITARY SEA TRANSPORTATION SERVICE
- MOORE MC CORMACK LINES
- MASSACHUSETTS MARITIME ACADEMY
- NATIONAL GYPSUM COMPANY
- NEW YORK CENTRAL RAILROAD
- NEW YORK FIRE DEPARTMENT
- NORWEGIAN AMERICAN LINE
- PANAMA CANAL LINE
- PETROLEOS MEXICANOS
- PICKLANDS MATHER & CO.
- PITTSBURG STEAMSHIP COMPANY
- PAN AMERICAN WORLD AIRWAYS
- QUEBEC & ONTARIO TRANSPORTATION CO., LTD.
- REPUBLIC STEEL CO.
- SHIP TANK SERVICE
- SOUTH FERRY, INC.
- SWEDISH AMERICAN LINE
- STATES MARINE LINES
- TUBE & STEEL CORPORATION
- UNION SULPHUR & OIL CORPORATION
- U. S. COAST GUARD ACADEMY
- UNITED STATES LINES
- PACIFIC & ATLANTIC STEAMSHIP COMPANY
- UNITED PAINTING COMPANY
- WESTCHESTER FERRY CORPORATION
- WILH. WILHELMSEN & CO.
- WILSON LINE, INC.
- WISCONSIN & MICHIGAN STEAMSHIP CO.

## HOW to assemble and operate the

## "HUSKY" ELECTRIC CHIPPING HAMMER



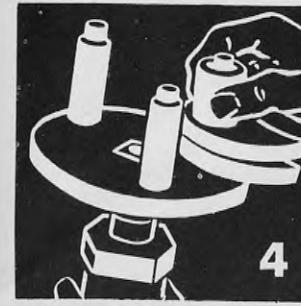
1  
Attach Head Coupling to the Flexible Shaft "Grip" or "Clutch" Handle.



2  
Place Square Hole Base Plate over Head Coupling.



3  
Insert 3 Long Spacer Pins in holes of Base Plate.



4  
Place 2 Chipping Fingers on one of the Spacer Pins and then 1 Large Spacer.



5  
On next Spacer Pin place 1 Short Spacer, 2 Chipping Fingers and 1 more Short Spacer.



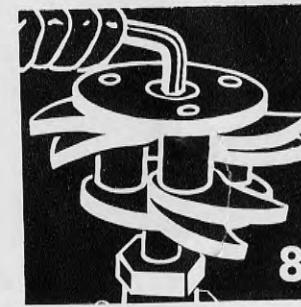
6  
On the 3rd Spacer Pin, place 1 Large Spacer and then 2 Chipping Fingers.

ILLUSTRATIONS SHOW ASSEMBLY VIEWS

OF THE NO. 1 "ALL-PURPOSE HEAD"



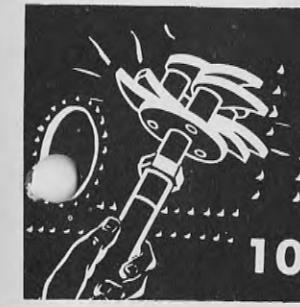
7  
Place Round Hole Top Plate on top of the 3 Long Spacer Pins.



8  
Insert Long Axis Bolt through top of Round Hole Top Plate and tighten securely with Head Wrench.



9  
Tighten Nylon Lock Screw at side of Head Coupling for added rigidity.



10  
For correct operating position, hold Handle almost parallel to surface being cleaned with Chipping Fingers against surface.



11  
With Chipping Fingers held close to surface to be scaled, move Chipping Hammer from side to side with wide sweeping arc-like motions.



12  
For positive safety to operator, attach Safety Guard to Hammer Head. The use of Safety Goggles are also recommended.

## CARE of CHIPPING HAMMER

1. Grease end of MOTOR SHAFT thoroughly and fill MOTOR END BELL recess with heavy grease before attaching the FLEXIBLE SHAFT.
2. While HAMMER is in use, immerse HEAD in oil at intervals to aid in cooling and to prevent excessive friction.
3. RUBBER CABLE supplying power to MOTOR should be kept clear of obstructions and never used to move or pull MOTOR.
4. Do not drop or place any heavy object on the FLEXIBLE SHAFT as it may cause serious damage to MOTOR.

5. FLEXIBLE SHAFT should be greased, NOT oiled . . . at least once a month.
6. STANDARD GRIP HANDLE should be greased, NOT oiled . . . at the same time FLEXIBLE SHAFT is greased.
7. CLUTCH HANDLE is a DRY CLUTCH . . . NO OIL OR GREASE IS NECESSARY.

The "HUSKY" ELECTRIC CHIPPING HAMMER should never be used in areas where volatile or combustible mixtures are used or stored.



Use only genuine  
"HUSKY" SPARE-PARTS  
for your Chipping Hammers

# ARNESSEN ELECTRIC CHIPPING HAMMER



ARNESSEN AND HUSKY ELECTRIC CHIPPING HAMMERS . . . Complete Units . . . or Spare Parts . . . can be supplied or serviced on land or sea . . . at any designated port or address through authorized Arnessen Distributors.

Note: State number and quantity of units or parts required.

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