



# FISH SCALER

## INSTRUCTION MANUAL

SAFETY, ASSEMBLY, AND MAINTENANCE INSTRUCTIONS FOR MODEL:

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**Model: Pro 30**

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# WARNING

When using fish scalers, as with any electric tool, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and personal injury, including the following:

## READ ALL INSTRUCTIONS

### GROUNDING INSTRUCTIONS

This tool should be grounded while in use to protect the operator from electric shock. The tool is equipped with a three conductor cord and three prong grounding type plug to fit the proper grounding type receptacle. The green conductor in the cord is the grounding wire. Never connect the green wire to a live terminal.

### GENERAL SAFETY PROCEDURES

- Keep work area clean. Cluttered areas invite injury.
- Keep children away. Do not let visitors contact tool or extension cord. All visitors should be kept away from work area.
- Do not use the tool for any purpose for which it is not intended.
- Dress properly, do not wear loose clothing or jewelry as they can get caught in moving parts.
- Wear safety glasses to protect against flying debris.
- Don't overreach, keep proper footing and balance at all times.
- Disconnect power cord when not in use, before servicing and when changing flexible shafts, handpieces, and tools.
- Avoid unintentional starting. Be sure switch is in the off position before plugging tool in.
- Stay alert, be aware of what you are doing and others around you. Do not operate the tool when you are tired.
- Check for damaged parts before use of the tool. Any part damaged, such as a guard, should be repaired or replaced by an authorized service center. Do not use tool if switch does not turn it on and off.

### Assembly Instructions:

! Be sure unit is unplugged and the switch is in the off position before proceeding.

Align and insert flexible core into motor core adapter. Insert outer casing into motor casing adapter until the shoulder on the coupling bottoms out. Tighten both socket cap screws using a 3/16" hex key. Insert the flexible core into the adapter on the handpiece, and then thread handpiece onto flexible shaft. Hang unit from a secure mounting at a height that allows the shaft to have a gradual arc while the operator is using the tool.

The scaler is now ready for use.

### Operating Instruction:

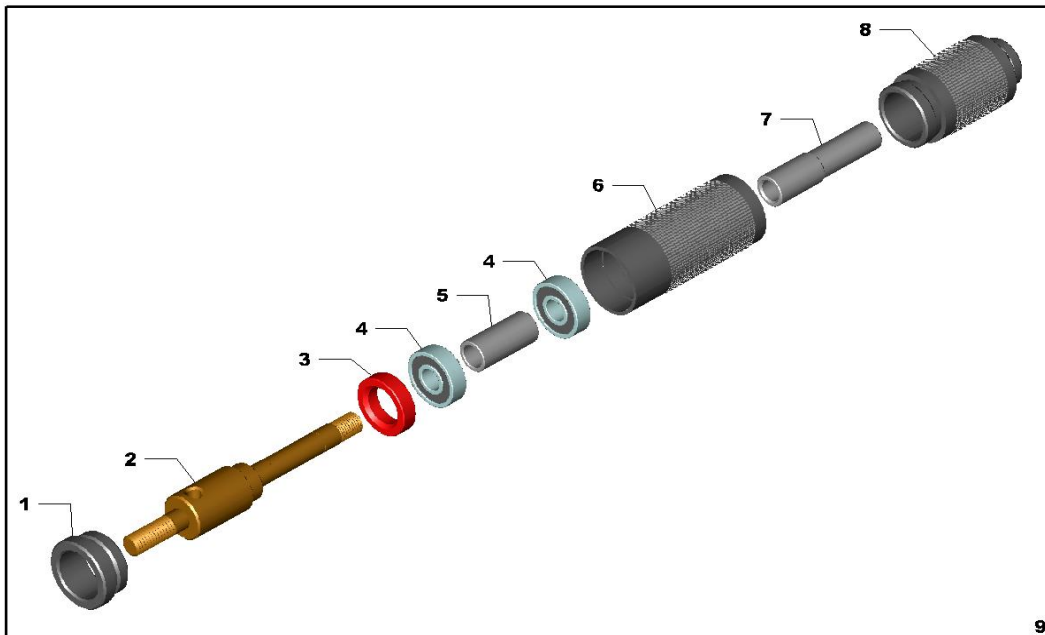
Hold the handpiece securely by the knurled anti slip handle. Keep hands away from the cutter head. Move the switch to the on position to start the motor. Beginning with the tail end of the fish, slowly move the cutter head toward the head of the fish. Repeat this motion until all the scales have been removed. When you are finished scaling turn the power off by moving the switch to the off position. Replace the handpiece on the holder after it has stopped spinning.

### Maintenance:

The motor and the handpiece use sealed bearings which require no maintenance over their life span.

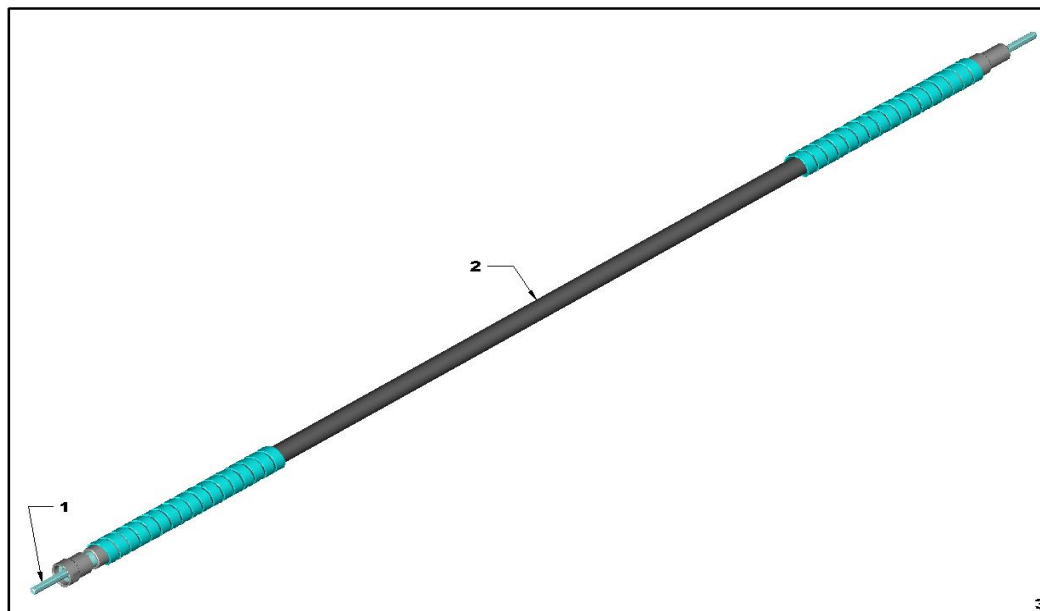
The life expectancy of the flexible shaft can be increased by lubricating the inner core after every fifty (50) hours of use. To lubricate the inner core remove the shaft from the motor and then slide the inner flexible shaft out of the rubber housing. Wipe the old grease off and then reinstall the core applying approximately 1/16" of Northrock shaft lubricant (P/N 520A1) along the whole length.

## STANDARD DUTY HAND PIECE



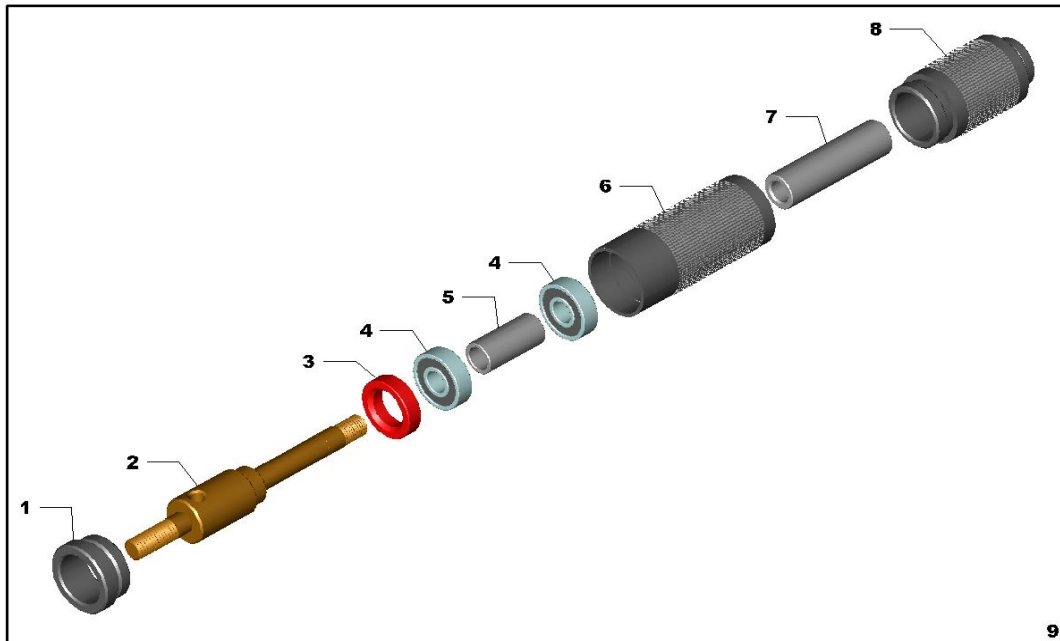
Ref.	Part No.	Description
1	305C1	CAP, BEARING
2	155BG1	SPINDLE
3	110A5	OIL SEAL
4	140C00	BEARING (2 req'd)
5	200S1	SPACER
6	105BC1	HOUSING
7	160DN1	CORE ADAPTER
8	150GL1	CASING ADAPTER
9	25AE2	COMPLETE HAND PIECE

## STANDARD DUTY SHAFT ASSEMBLY



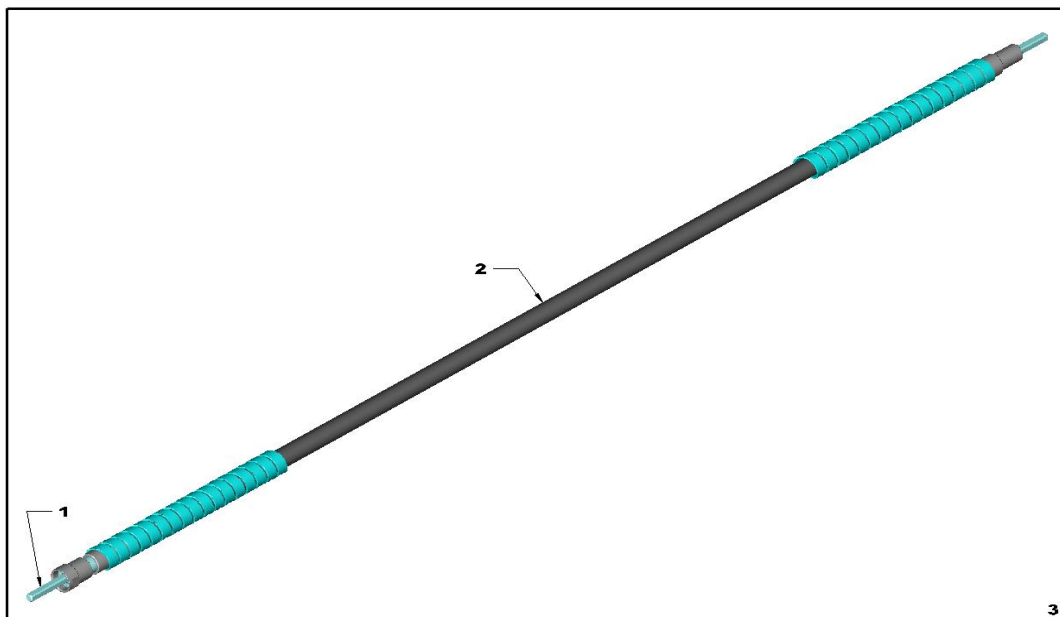
Ref.	Part No.	Description
1	250CC4	CORE
2	275BH4	CASING
3	25BB4	COMPLETE SHAFT ASSEMBLY

## HEAVY DUTY HAND PIECE



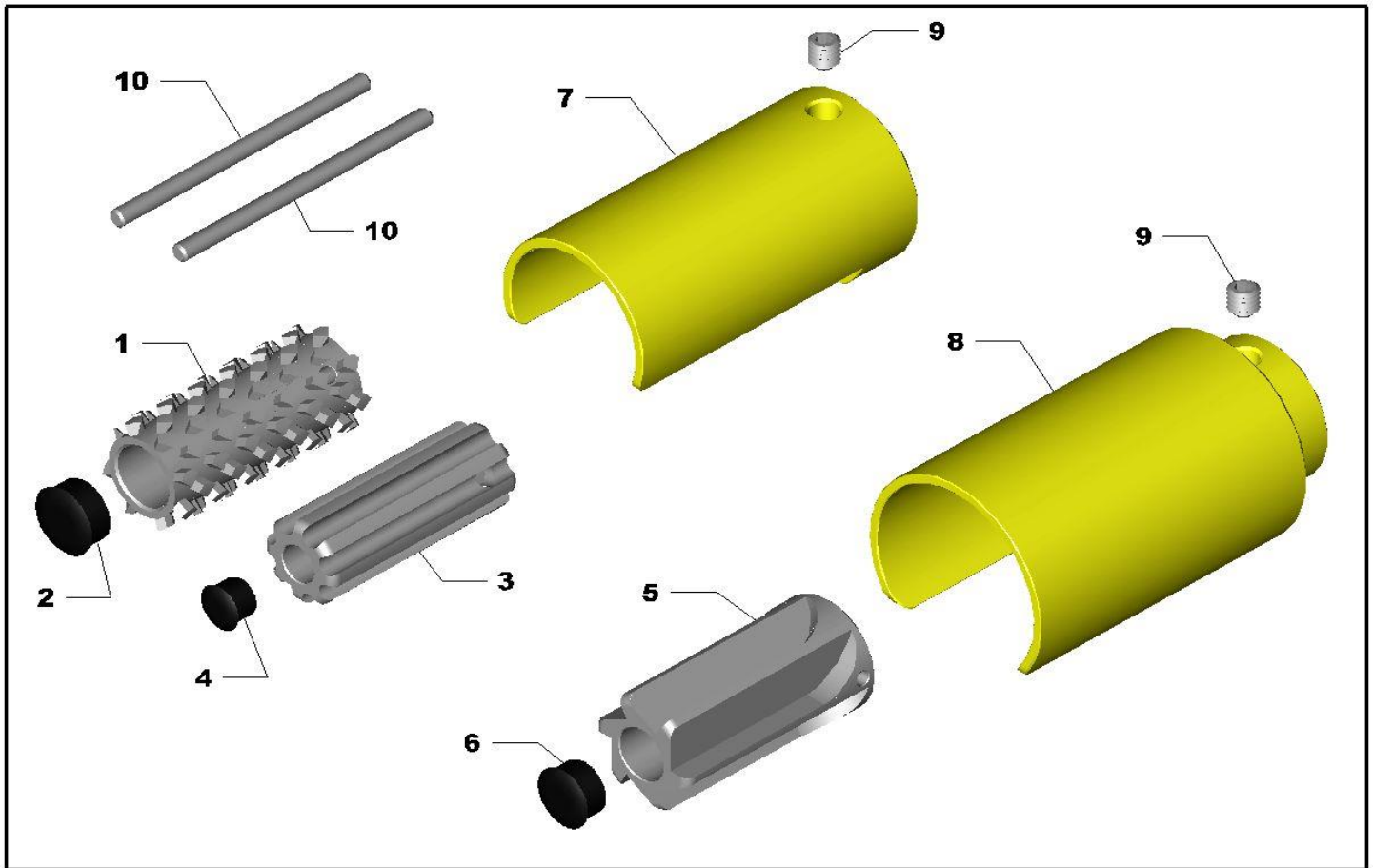
Ref.	Part No.	Description
1	305C1	CAP, BEARING
2	155BG1	SPINDLE
3	110A5	OIL SEAL
4	140C00	BEARING (2 req'd)
5	200S1	SPACER
6	105BC1	HOUSING
7	160CW2	CORE ADAPTER
8	150GL1	CASING ADAPTER
9	25AE1	COMPLETE HAND PIECE

## HEAVY DUTY SHAFT ASSEMBLY



Ref.	Part No.	Description
1	250CD4	CORE
2	275BH4	CASING
3	25BC4	COMPLETE SHAFT ASSEMBLY

## CUTTERS & GUARDS FOR 25AE1 & 25AE2



Ref.	Part No.	Description
1	225C1	DIAMOND PATTERN CUTTER
2	400K1	END CAP
3	225A1	8-FLUTE CUTTER
4	400H1	END CAP
5	225B1	6-FLUTE CUTTER
6	400J1	END CAP
7	270B4	GUARD (for 225A1 & 225C1)
7A	270B3	270B4 (with #9)
8	270A4	GUARD (for 225B1)
8A	270A3	270A4 (with #9)
9	190B250	SET SCREW
10	180H1	PIN (for cutter assembly, 2 req'd)

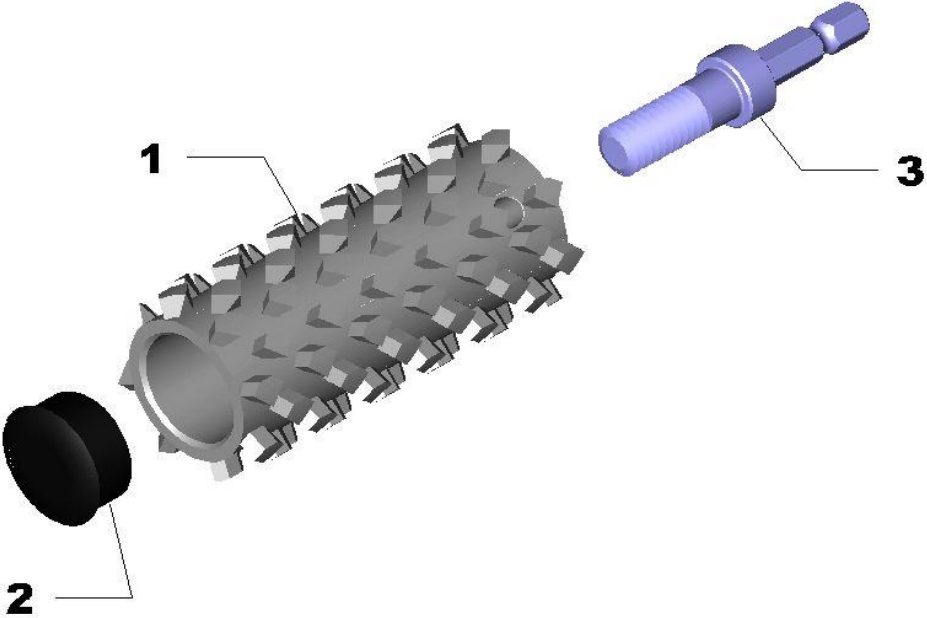
This exploded view diagram illustrates the assembly of a water pump. The components are numbered as follows:

- 1**: Motor housing (black and grey).
- 2**: Upper pump housing (blue).
- 3**: Lower pump housing (blue).
- 4**: Long vertical impeller shaft (teal).
- 5**: Power cord with a two-prong electrical plug.
- 6**: Cable strain relief (black).
- 7**: O-ring (black).
- 8**: Purple impeller nut.
- 9**: Green impeller ring.
- 10**: Multiple yellow screws used for assembly.
- 11**: Small blue O-ring.
- 12**: Small blue O-ring.
- 13**: Blue terminal block.
- 14**: Green terminal block.
- 15**: Red wire cutters.
- 16**: Black screwdriver.
- 17**: Blue impeller nut.
- 18**: Red impeller ring.
- 19**: Blue impeller ring.
- 20**: Green impeller ring.
- 21**: Grey impeller ring.
- 22**: Small blue O-ring.
- 23**: Short vertical impeller shaft (teal).
- 24**: Small blue O-ring.
- 25**: Small blue O-ring.
- 26**: Small blue O-ring.
- 27**: Small blue O-ring.
- 28**: Small blue O-ring.

# POWER UNIT ASSEMBLY (2020)

Ref.	Part No.	Description
1	555E1	ELECTRIC MOTOR (120 VDC Rectified)
	555F1	ELECTRIC MOTOR (230 VDC Rectified)
1A	555E2	COMPLETE POWER UNIT (115 Volt) {less core & casing adapters}
	555F2	COMPLETE POWER UNIT (220 Volt) {less core & casing adapters}
2	105CF1	COVER (TOP)
3	105CG1	COVER (BOTTOM)
4	485F1	HANGER
4A	485F1	HANGER, FISH SCALER (with #17)
5	505C2	ELECTRIC CORD
6	435C1	STRAIN RELIEF (with #7)
7	-----	STRAIN RELIEF NUT (1 req'd) [sold with #6]
8	485E1	HANGER, FISH SCALER
9	570A1	EYE BOLT
10	190F187	PAN HEAD SCREW
11	211A31	NUT
12	285A312	LOCK WASHER
13	705A1	RECTIFIER (ac/dc)
13A	705A2	RECTIFIER (ac/dc) Complete Assembly {with #26, #27 & #28}
14	425C1	SWITCH (comes with #15)
15	-----	NUT (2 req'd) [sold with #14]
16	430A1	WATER RESISTANT SWITCH SEAL
17	225H1	RETAINING RING (2 req'd)
18	160DW1	CORE ADAPTER (STANDARD DUTY) for 25BB4
18A	160DW2	160DW1 (with #22)
19	160DX1	CORE ADAPTER (HEAVY DUTY) for 25BC4
19A	160DX2	160DX1 (with #22)
20	160AA1	CORE ADAPTER (STANDARD DUTY) for 10K1
20A	160AA2	160AA1 (with #22)
21	160Y1	CORE ADAPTER (HEAVY DUTY) for 10L1
21A	160Y2	160Y1 (with #22)
22	190B218	SET SCREW (2 req'd with each core adapter)
23	150CC1	CASING ADAPTER
23A	150CC2	CASING ADAPTER (with #24)
24	320B237	SOCKET CAP SCREW (2 req'd)
25	190F150	PAN HEAD SCREW
26	190F650	PAN HEAD SCREW
27	285A138	LOCK WASHER
28	715A1	TERMINAL BLOCK (2 req'd)

# PORTABLE FISH SCALER



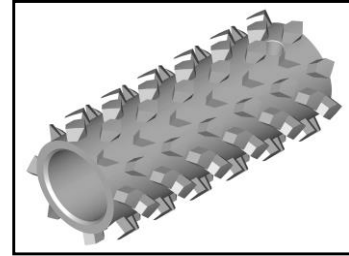
Ref.	Part No.	Description
1	225C1	DIAMOND PATTERN CUTTER
2	400K1	END CAP
3	155CM1	SPINDLE
4	25BD1	PORTABLE FISH SCALER



# Commercial Fish Scaler

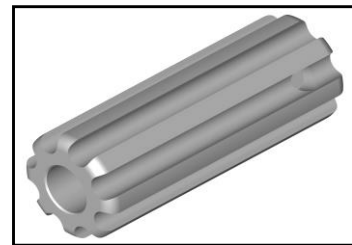
## **DIAMOND TOOTH TOOL**

Supplied as standard equipment on all scalers. This will handle the majority of fish. Some examples include Flounder, Snapper, Perch, Whitefish, Salmon, Haddock and Sea Bass.



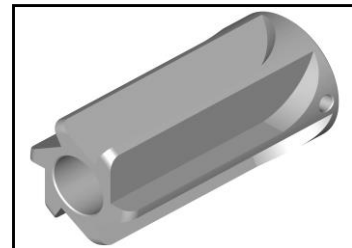
## **SIX FLUTE TOOL**

This tool can be supplied in place of the diamond tooth tool on a new machine for an additional charge or as an extra accessory. Used mainly on large scale fish with thick skin. Some examples include Carp, Buffalo and Grouper.



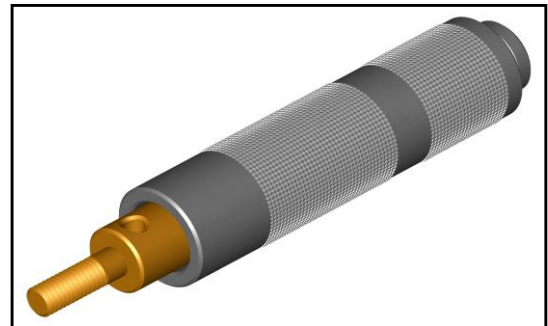
## **EIGHT FLUTE TOOL**

This tool can be supplied in place of the diamond tooth tool on a new machine or as an accessory. Used on small to medium scale fish with thin skin that can be prone to damage when scaled by coarser tools.



## **HANDPIECE**

The handle grip is manufactured from high quality corrosion resistant aluminum. The drive shaft is constructed of rugged stainless steel. Two sealed ball bearings provide smooth operation and long handpiece life. All scaler tools will interchange.



[illegible]