

# Heavy Duty Finishing Tools

For applications requiring specialized, heavy-duty finishing tools, we've included excerpts from our Construction Tools catalog here. Check out our scalers, needle scalers, piston scalers, drills, and accessories on the next few pages -- and consult our website, or your distributor or Ingersoll-Rand representative for more details on our complete product line.

## Scalers/Needle Scalers

### Features

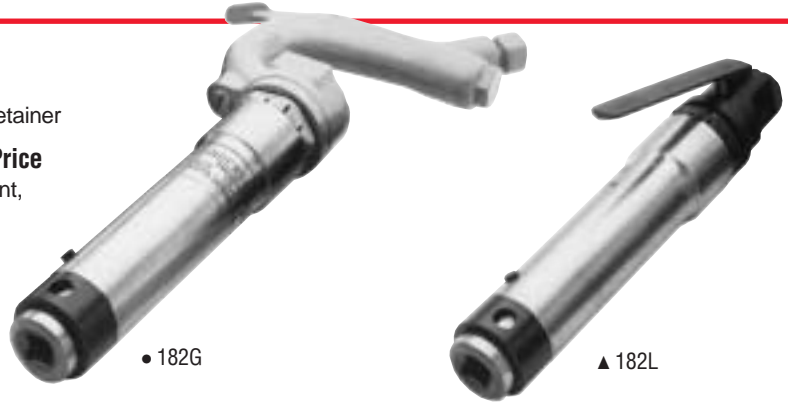
- Long nozzle section extends retainer life and permits the use of a variety of accessories
- Positive chisel retainer is simple to operate
- Strengthened head block holds up under the most extreme conditions

### Standard Equipment

- Positive lock chisel retainer

### Equipment at Extra Price

- For needle attachment, needles & chisels  
See page 39



Model	Throttle	Weight less Chisel		Length		Piston Stroke		Bore		Blows per Minute	Hose Connector Pipe Tap in.	Size Hose Recomm.		CFM
		lb.	kg	in.	mm	in.	mm	in.	mm			in.	mm	
172L	Lever	3 <sup>11</sup> / <sub>16</sub>	1.69	7 <sup>5</sup> / <sub>8</sub>	194	9 <sup>9</sup> / <sub>16</sub>	14	1 <sup>5</sup> / <sub>16</sub>	24	5,500	1/4	5 <sup>5</sup> / <sub>16</sub>	8	12
• 182G	Grip	5 <sup>5</sup> / <sub>16</sub>	2.41	12 <sup>13</sup> / <sub>16</sub>	325	1 <sup>1</sup> / <sub>16</sub>	27	1 <sup>5</sup> / <sub>16</sub>	24	4,000	1/4	5 <sup>5</sup> / <sub>16</sub>	8	13
▲ 182L	Lever	4 <sup>1</sup> / <sub>16</sub>	1.84	9	229	1 <sup>1</sup> / <sub>16</sub>	27	1 <sup>5</sup> / <sub>16</sub>	24	4,000	1/4	5 <sup>5</sup> / <sub>16</sub>	8	13

Performance figures are at 90 psi (620 kPa) air pressure.

## Needle Scaler Kit

### 182K1 Scaler Kit

- Model 182L scaler
- Complete NS11A needle attachment (with 5" long needles)
- One extra set of NS11-22-19 needles (5" long)
- One set of NS11-122-19 needles (7" long)
- One WF-14A-61/8 angle chisel
- One WF-14B-61/8 straight chisel
- One WF-14F-7 flat chisel
- PKB-1 or vinyl carrying case



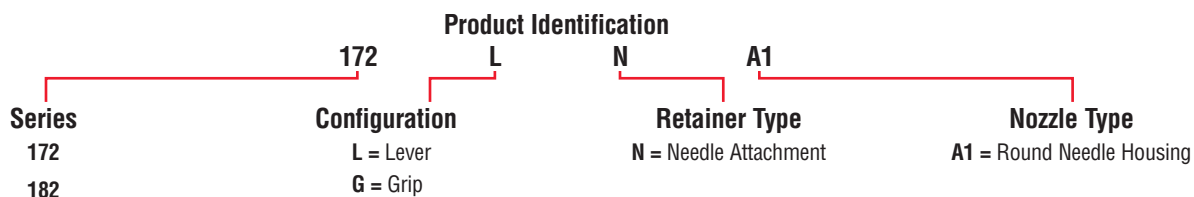
# Needle Scalers

## Features

- Adjustable bayonet-type needle housing lock allows adjustment without special tools
- Choice of three needle materials permits custom selection for various surfaces
- Rubber-faced throttle valve means positive sealing
- Tested and approved in accordance with MIL-S-23492A (Ships)
- Precision heat-treated needles for maximum performance

## Standard Equipment

- Lever throttle
- Nineteen 1/8" (3 mm) diameter steel needles, 5" (127 mm) long. NS11-22-19



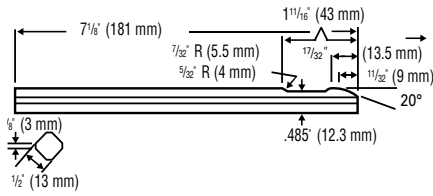
Model	Needle Housing Shape	Weight		Length		Piston Stroke		Bore		Blows per Minute	Hose Connector Pipe Tap in.	Size Hose Recomm.		CFM
		lb.	kg	in.	mm	in.	mm	in.	mm			in.	mm	
●172LNA1	Round	5 1/4	2.38	13 3/4	349	5/16	14	15/16	24	5,500	1/4	5/16	8	12
▲182LNA1	Round	5 3/4	2.61	15	381	1 1/16	27	15/16	24	4,000	1/4	5/16	8	13

Performance figures are at 90 psi (620 kPa) air pressure.

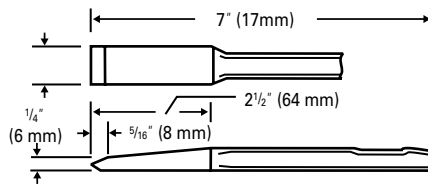
# Scaler/Needle Scaler Accessories

## Chisels and Star Drills for Series 172 and 182 Scalers

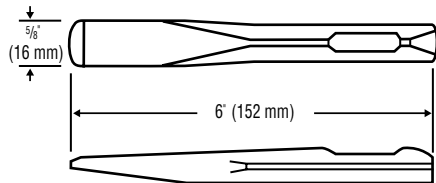
WF-14-7 1/8 Chisel Blank



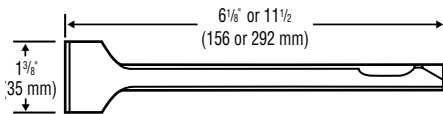
WF-14F-7 Flat Scaling Chisel



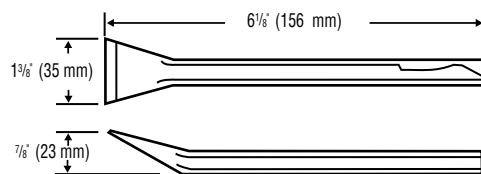
WF-14G-6 Gouge Chisel



WF-14B-6 1/8 or WF-14B-11 1/2  
Straight Scaling Chisel



WF-14A-6 1/8 Angle Scaling Chisel



## Needle Scaler Attachments

Needle Scaler Attachments are available for use on Series 172 or 182 Scalers already in service. Order by one of the symbols shown.

Attachment Symbol	Description	
NS11A	5" (127 mm) Steel Needles Std.	Round Needle Housing
NS11AS	5" (127 mm) Stainless Steel Needles	
NS11A7	7" (178 mm) Extended Steel Needles	
NS11BB	5" (127 mm) Beryllium Copper Needles	Rectangular Needle Housing
NS11BS	5" (127 mm) Stainless Steel Needles	
NS11B7	7" (178 mm) Extended Steel Needles	

## Replacement Needles

Set of 19 Needles

Part Number	Description
NS11-22-19	5" (127 mm) Steel Needles-Standard
NS11-B22-19	5" (127 mm) Beryllium Copper Needles-Optional
NS11-S22-19	5" (217 mm) Stainless Steel Needles-Optional
NS11-122-19	7" (178 mm) Extended Steel Needles-Optional

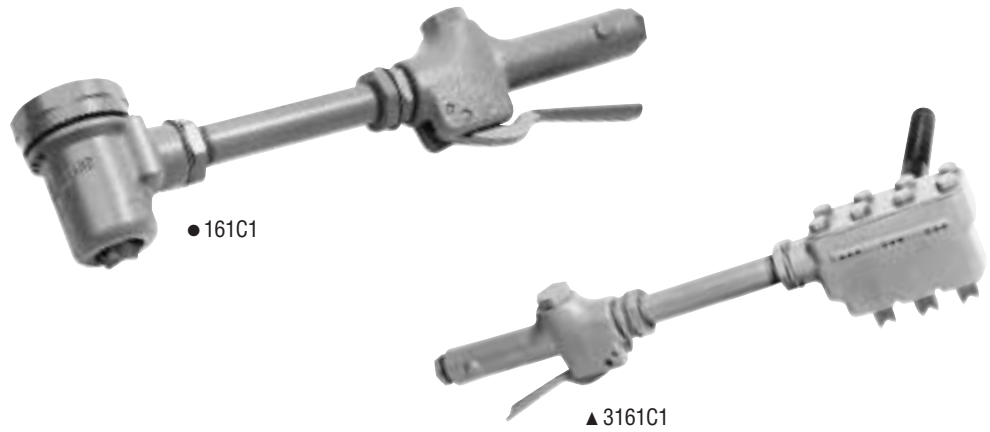
# Piston Scalers

## Features

- The handle containing the lever throttle on Model 3161C1 is interchangeable with the dead handle—thus it may be used parallel to, or at 90° to the three pistons
- The vibration and rotation of the piston does the scaling. A chisel is not used with this tool

## Standard Equipment

- 23/4" (70 mm) short steel piston (one for Model 161C1, three for Model 3161C1)



Model	Piston Description	Blows per Minute	Operating Height		Length		Side to Center Distance		Weight		Throttle	CFM
			in.	mm	in.	mm	in.	mm	lb.	kg		
● 161C1	One Short Steel	3300	4 1/8	105	13 1/4	337	1 3/16	30	6 1/2	2.94	Lever	9
▲ 3161C1	Three Short Steel	3800	4	102	*15 3/8	*391	7/8	22	9 3/8	4.25	Lever	15

*\*With Lever Throttle attached to narrow end of Barrel.  
Both of the above Scalers have 1/4" NPT air inlet, 5/16" (8 mm) size hose is recommended.  
Performance figures are at 90 psi (620 kPa) air pressure.*

## Pistons for Models 161C1 and 3161C1 Scalers

For Model 161C1 one required	Description
N16-5A	Short Steel 2 3/4" (70 mm)-Standard

For Model 3161C1 three required	Description
316-5	Short Steel 2 5/8" (67 mm)-Standard
316-C5	Short Carbide-Tipped 2 5/8" (67 mm)
316-L5	Long Steel 3 5/8" (92 mm)
316-CL5	Long Carbide-Tipped 3 5/8" (92 mm)

## Series 728, 950-3800 rpm, .5 HP Maintenance Drills

### Features

- Powerful and economical
- Excellent for general purpose applications

### Standard Equipment

- Dead handle assembly on Model 728NA3 (728N-A48 dead handle)



● 728LA2

Model	Free Speed rpm	Stall Torque		Length with Chuck		Weight with Chuck		Chuck Capacity		Side to Center Distance		CFM
		in.-lb.	Nm	in.	mm	lb.	kg	in.	mm	in.	mm	
<b>Pistol Grip</b>												
728JA1	3800	30	3.39	7	177	2 <sup>7</sup> / <sub>16</sub>	1.1	3 <sup>5</sup> / <sub>8</sub>	8	2 <sup>9</sup> / <sub>32</sub>	23	19
● 728LA2	2550	54	6.10	7 <sup>1</sup> / <sub>4</sub>	184	2 <sup>1</sup> / <sub>2</sub>	1.1	3 <sup>5</sup> / <sub>8</sub>	10	2 <sup>9</sup> / <sub>32</sub>	23	19

Series 728 Drills have 1/4" NPT air inlet; 1/4" (6 mm) size hose is recommended. Performance figures are at 90 psi (620 pKa) air pressure. All models have 3/8" x 24 spindle.