

# Low-Vibration Needle/Chisel Scalers

**Vibro-Lo™**  
Vibration Reduction  
Technology

## High power with low vibration – equipped with Vibro-Lo™

CS Unitec's Trelawny™ line of Low-Vibration needle/chisel scalers offer high performance and low vibration for greater productivity and improved operator comfort. Ergonomically designed with low maintenance and quick change tooling option.

- Integrated Vibro-Lo™ vibration reduction technology
- Lightweight, easy to handle
- Optional dust shroud for dust and debris collection
- Tool-free needle changeover
- Converts to chisel scaler in seconds



VL223



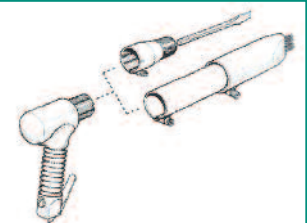
VL203



VL303



Needle Scalers and Chisel Scalers convert in seconds with optional head or when purchased as a Kit. See following page for Kit information.



### Applications include:

- Texturing concrete
- Cleaning and stress-relieving weld seams and joints
- Removing coatings, corrosion and other accumulated materials
- Splitting, chipping, pointing and brick raking



# Low-Vibration Needle/Chisel Scalars



## Vibro-Lo™ Needle Scalars

Grip	Description	Model Number	Needle Quantity/ Diameter	Weight (lbs.)	Blows per minute	CFM @ 90 PSI	Noise Level db(A)	Vibration Levels m/s <sup>2</sup>
Inline	VL223 Needle Scaler	199.2103	19 / 3mm	5.25	2400	4	90.7	2.56
	VL223 Needle Scaler with dust shroud	139.2103	19 / 3mm	5.25	2400	4	90.7	2.56
Pistol	VL203 Needle Scaler	199.2003	19 / 3mm	6	2400	4	90.7	2.75
	VL203 Needle Scaler with dust shroud	199.2303	19 / 3mm	6	2400	4	90.7	2.75
	VL303 Needle Scaler	199.3003	28 / 3mm	7.75	3000	5.5	109.5	2.3
	VL303 Needle Scaler with dust shroud	199.3005	28 / 3mm	7.75	3000	5.5	109.5	2.3

See page 13 for the following types of needles:

- Chisel** for light surface marking
- Flat** for light treatment and polishing effect
- Pointed** for very hard scale

**Copper Beryllium** ⚠ for use in potentially explosive areas

**Stainless Steel** for use in applications where corrosion or humidity is a problem, such as the food processing industry

## Dust Collection Shroud for Vibro-Lo™ Needle Scalars



Optional Dust Shroud for Needle Scalars – for use with dust extraction vacuums.  
 Model VL223 Needle Scaler – Order Dust Shroud P/N 418.2003  
 Model VL203 Needle Scaler – Order Dust Shroud P/N 418.2003  
 Model VL303 Needle Scaler – Order Dust Shroud P/N 418.3003

See page 15 for dust extraction systems.



## Vibro-Lo™ Chisel Scalars

Grip	Description	Model Number	Weight (lbs.)	Blows per minute	CFM @ 90 PSI	Noise Level db(A)	Vibration Levels m/s <sup>2</sup>
Inline	VL223 Chisel Scaler	199.2213	6.5	2400	4	76.3	3.69
Pistol	VL203 Chisel Scaler	199.2203	7	2400	4	76.3	3.33
	VL303 Chisel Scaler	199.3203	9.5	3000	5.5	78.2	3.7

## Vibro-Lo™ Needle/Chisel Scaler Kits

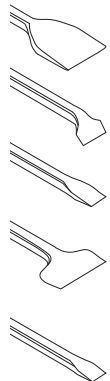
CS Unitec offers Vibro-Lo™ Needle/Chisel Scaler Kits, each supplied with the Needle Scaler, 3mm needles, a chisel holder, anvil and a 3/4" blade chisel.



- VL223 Kit** – Order P/N 199.2113
- VL203 Kit** – Order P/N 199.2105
- VL303 Kit** – Order P/N 199.3103

## Chisels for Vibro-Lo™ Chisel Scalars

Chisel Part Number	Shank	Length	Width	Application
704.3110	Square	7"	2"	Spark-resistant Aluminum Bronze for use in hazardous areas ⚠
704.3205	Square Cranked End	7"	3/8"	Weld flux and thick coating removal
704.3101	Square	7"	3/4"	Weld splatter removal
704.3103	Square	7"	2-1/2"	Wide flat chisel for the removal of rust or peeling paint
704.3107	Square	10"	3/4"	Flat chisel for weld splatter and sand cast cleaning



CS Unitec offers a full line of non-sparking, non-magnetic chisels and safety hand tools for hazardous areas and Ex zones. Contact us for details.

## Drop Protection Kit

CS Unitec offers a drop protection kit for our Vibro-Lo™ Needle/Chisel Scalars. Protect your investment when working at heights or in applications where dropping/losing the tool is likely, including: offshore platforms and rigs, bridges/scaffolding, vessels and ships.



- For VL223 and VL203**  
Order P/N 720.2003\*
- For VL303**  
Order P/N 720.3003\*

\* Safety clip and line not supplied



# Standard Needle/Chisel Scalars

## Standard Needle and Chisel Scalars


Grip	Description	Model Number	Needle Qty./Dia.	Weight (lbs.)	Blows per minute	CFM @ 90 PSI	Noise Level db(A)	Vibration Levels m/s <sup>2</sup>
Inline	1B Needle Scaler	111.1099	12 / 3mm	3.5	3800	3.0	110.4	8.5
	1B Chisel Scaler	114.1200	N/A	3.3	3800	3.0	98.9	8.2
	2B Needle Scaler	121.2099	19 / 3mm	5.75	3000	5.5	113.3	9.3
	2B Chisel Scaler	124.2200	N/A	4.4	3000	5.5	98.6	17.4
Pistol	2BPG Needle Scaler	123.2199	19 / 3mm	5.75	3000	5.5	113.3	12.6
	2BPG Chisel Scaler	125.2300	N/A	4.5	3000	5.5	98.6	22.4
	3BPG Needle Scaler	133.3199	28 / 3mm	8.25	2200	8.0	114.5	18.9
	3BPG Chisel Scaler	135.3300	N/A	6.2	2200	8.0	105.1	25.6
	3BPG Chisel Scaler*	135.3395	N/A	6.2	2200	8.0	105.1	25.6
Semi Pistol	3B Needle Scaler	131.3099	28 / 3mm	10	2200	8.0	114.5	12.2
	3B Chisel Scaler	134.3200	N/A	7.5	2200	8.0	105.1	19.9
	4B Needle Scaler	141.4099	35 / 4mm	12.5	1800	8.5	117.4	23.5
	4B Chisel Scaler	144.4200	N/A	8.2	1800	8.5	105.1	45.2

See page 13 for needles:

**Chisel** for light surface marking

**Flat** for light treatment and polishing effect

**Pointed** for very hard scale

**Copper Beryllium**  for use in potentially explosive areas

**Stainless Steel** for use in applications where corrosion or humidity is a problem, such as the food processing industry



Inline Grip



Pistol Grip



Semi Pistol Grip

\* 3BPG Chisel Scaler 135.3395 has 5/8" hexagonal chisel holder and is compatible with chisels shown on page 14. All others Chisel Scalars shown above have 1/2" square connection.



### Dust Collection Shroud for Standard Needle Scalars

Optional Dust Shroud for Needle Scalars – for use with dust extraction vacuums.  
Model 2B and 2BPG Needle Scalars – Order Dust Shroud P/N 418.2199  
Model 3BPG Needle Scaler – Order Dust Shroud P/N 418.3039

## TVS™ Needle Scalars with Integrated Vacuum Shroud




CS Unitec's Trelawny™ TVS™ Needle Scalars with Integrated Vacuum Shroud enable dust-free working in hazardous applications when used with a dust extraction vacuum (see page 15 for dust collection systems).

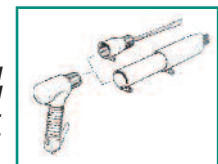
Grip	Description	Model Number	Weight (lbs.)	Blows per minute	CFM @ 90 PSI	Noise Level db(A)	Vibration Levels m/s <sup>2</sup>
Inline	2B Needle Scaler	139.2007	6.4	3000	5.5	98.6	17.4
Pistol	2BPG Needle Scaler	139.2107	6.6	3000	5.5	98.6	22.4
	3BPG Needle Scaler	139.3107	9.9	2200	8.0	105.1	19.9

## Chisels for Standard Chisel Scalars

 1/2" Square Connection

Chisel Part No.	Shank	Length	Width	Application
704.1110	Square	7"	2"	Spark-resistant Aluminum Bronze  for use in hazardous areas
704.2105	Square Cranked End	7"	3/8"	Weld flux and thick coating removal
704.1101	Square	7"	3/4"	Weld splatter removal
704.1103	Square	7"	2-1/2"	Wide flat chisel for the removal of rust or peeling paint
704.1107	Square	10"	3/4"	Flat chisel for weld splatter and sand cast cleaning
704.1106	Square	8"	1/4"	Mortar removal for repointing brick work
704.1112	Square	7"	Moil Point	Concrete chipping

Standard Needle Scalars and Chisel Scalars convert in seconds with optional head or when purchased as a Kit. Contact us for more information.



CS Unitec offers a full line of non-sparking, non-magnetic chisels and safety hand tools for hazardous areas and Ex zones. Contact us for details.



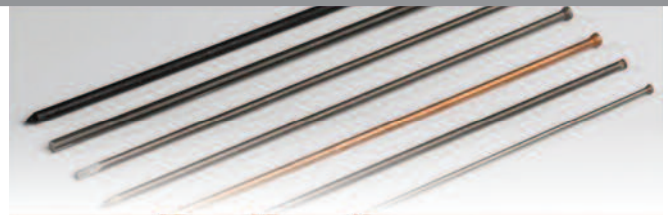
Above: Model 1B Chisel Scaler with Square Cranked End Chisel for removal of flux

# Needles

CS Unitec's Trelawny™ needles last 10x longer than standard needles. Save time and money with fewer needle changes and less downtime.

All of CS Unitec's Needle Scalers are delivered from stock complete with 180mm long x 3mm diameter chisel-tipped high-performance needles. Other needle holders are available as accessories for use with 2mm and 4mm diameter needles. We also offer spark-resistant needles for use in potentially hazardous areas and Ex zones, as well as stainless steel needles for use in humid areas – such as applications in the food processing industry – where corrosion is a concern.

Standard pack set is one carton of 6 sets. Some models are packed as an individual set in a box. Boxes of 100 qty. needles in a durable, reusable plastic container are available, as well as larger quantities.



## Chisel Tip

These needles will clean the same materials as a pointed tip, but will leave light surface marking



Size	Description	Part #
3mm	6 x sets of 12 needles	413.2112
3mm	6 x sets of 19 needles	413.2119
3mm	6 x sets of 28 needles	413.2128
3mm	6 x sets of 49 needles	413.2149
3mm	Box of 100 needles	453.2110
3mm	Box of 1000 needles	443.2107

## Flat Tip

Flat-tipped needles will reduce marking on metal surfaces and can give a polishing effect. For use on thin gauge metals and any surface where a light treatment is required.



2mm needles used on a welded joint produce a similar effect to shot peening, reducing stress in the weld.

Size	Description	Part #
2mm	6 x sets of 29 needles	412.1129
2mm	6 x sets of 51 needles	412.1151
2mm	6 x sets of 65 needles	412.1165
2mm	Box of 100 needles	452.1110
2mm	Box of 2000 needles	442.1107
3mm	6 x sets of 12 needles	413.1112
3mm	6 x sets of 19 needles	413.1119
3mm	6 x sets of 28 needles	413.1128
3mm	6 x sets of 49 needles	413.1149
3mm	Box of 100 needles	453.1110
3mm	Box of 1000 needles (180mm long)	443.1107
4mm	6 x sets of 19 needles	414.1119
4mm	6 x sets of 35 needles	414.1135
4mm	Box of 50 needles	454.1105
4mm	Box of 500 needles	444.1107
3mm	Box of 1000 needles 5" long (127mm)	443.1105
3mm	19 x needles 5" long (127mm)	443.1115

## Pointed Tip

Sharpened to a conical point, these are the most effective in breaking through very hard scale on materials where some surface indentation is permissible – or where a roughening or keying of the surface is actually desirable.



Size	Description	Part #
3mm	6 x sets of 12 needles	413.3112
3mm	6 x sets of 19 needles	413.3119
3mm	6 x sets of 28 needles	413.3128
3mm	6 x sets of 49 needles	413.3149
3mm	Box of 100 needles	453.3110
3mm	Box of 1000 needles	443.3107
4mm	6 x sets of 19 needles	414.3119
4mm	6 x sets of 35 needles	414.3135
4mm	Box of 50 needles	454.3105
4mm	Box of 500 needles	444.3107

See page 15 for dust extraction systems.

### Conversions:

2mm = 0.08"  
3mm = 0.12"  
4mm = 0.16"  
180mm = 7"

## Spark-Resistant Copper Beryllium

Available in 3mm flat tip only; for use in potentially hazardous areas.



Size	Description	Part #
3mm	Box of 12 needles	403.1312
3mm	Box of 19 needles	403.1319
3mm	Box of 28 needles	403.1328
3mm	Box of 49 needles	403.1349
3mm	Box of 100 needles	453.1310
3mm	Box of 500 needles	443.1307

## Stainless Steel

Available in 3mm flat tip form only, to be used in applications such as refurbishment of food processing machinery or areas of high humidity where the corrosive effect on needles would be prohibitive.



Used on decorative concrete surfaces where contamination of the surface from carbon steel needle is undesirable.

Size	Description	Part #
3mm	Box of 100 needles	453.1207
3mm	Box of 500 needles	443.1207