

Heavy-Duty Needle Scalers

Heavy-Duty Needle Scalers

Ideal for cleaning and stress-relieving weld seams and joints; texturing concrete; and removing coatings, corrosion and other accumulated materials.

Power & Productivity

- Oversized piston with longer stroke
- Heavy-duty hardened anvil
- Chisel-tipped needles

Low Maintenance & Less Downtime

- Air powered – fewer moving parts
- Converts to chisel scaler in seconds
- Piston valve

Versatile

- One tool for different applications
- Lightweight – easy to handle

Inline Grip



1B



2B



2B Combination Kit
See next page for more information.

Semi Pistol Grip



3B



4B



2BPG



3BPG

Pistol Grip



Grip	Description	Model Number	Needle Qty./Dia.	Weight (lbs.)	Blows per minute	CFM @ 90 PSI	Noise Level db(A)	Vibration Levels m/s ²
Inline	1B Needle Scaler	111.1099	12 / 3mm	3.5	3800	3.0	110.4	8.5
	2B Needle Scaler	121.2099	19 / 3mm	5.75	3000	5.5	113.3	9.3
Pistol	2BPG Needle Scaler	123.2199	19 / 3mm	5.75	3000	5.5	113.3	12.6
	3BPG Needle Scaler	133.3199	28 / 3mm	8.25	2200	8.0	114.5	18.9
Semi Pistol	3B Needle Scaler	131.3099	28 / 3mm	10	2200	8.0	114.5	12.2
	4B Needle Scaler	141.4099	35 / 4mm	12.5	1800	8.5	117.4	23.5

See page 19 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



Dust Collection Shroud for Standard Needle Scalers

Optional Dust Shroud for Needle Scalers – for use with dust extraction vacuums.

Model 2B and 2BPG Needle Scalers – Order Dust Shroud P/N 418.2199

Model 3BPG Needle Scaler – Order Dust Shroud P/N 418.3039

TVS™ Needle Scalers with Integrated Vacuum Shroud



CS Unitec's Trelawny™ TVS™ Needle Scalers with Integrated Vacuum Shroud enable dust-free working in hazardous applications when used with a dust extraction vacuum (see page 21 for dust collection systems).



Grip	Description	Model Number	Weight (lbs.)	Blows per minute	CFM @ 90 PSI	Noise Level db(A)	Vibration Levels m/s ²
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

Heavy-Duty Chisel Scalars

Heavy-Duty Chisel Scalars

Ideal for splitting, chipping, pointing, brick raking and removing accumulated materials and corrosion.

- Inline, pistol and semi-pistol grip
- Ball bearing chisel retainer

Grip	Description	Model Number	Weight (lbs.)	Blows per minute	CFM @ 90 PSI	Noise Level db(A)	Vibration Levels m/s ²
Inline	1B Chisel Scaler	114.1200	3.3	3800	3.0	98.9	8.2
	2B Chisel Scaler	124.2200	4.4	3000	5.5	98.6	17.4
Pistol	2BPG Chisel Scaler	125.2300	4.5	3000	5.5	98.6	22.4
	3BPG Chisel Scaler	135.3300	6.2	2200	8.0	105.1	25.6
	3BPG Chisel Scaler*	135.3395	6.2	2200	8.0	105.1	25.6
Semi Pistol	3B Chisel Scaler	134.3200	7.5	2200	8.0	105.1	19.9
	4B Chisel Scaler	144.4200	8.2	1800	8.5	105.1	45.2

* 3BPG Chisel Scaler 135.3395 has 5/8" hexagonal chisel holder and is compatible with chisels shown on page 11. All others Chisel Scalars shown above have 1/2" square connection.



Inline Grip



1B



2B



3B



2BPG



4B

Semi Pistol Grip



3BPG

Pistol Grip

2B Combination Kit




Kit includes 2B Needle Scaler, 19 (3mm) needles, 3/4" width chisel and allen wrench. P/N 199.3120



Chisels for Standard Chisel Scalars

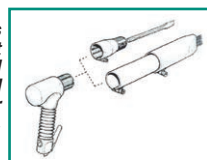


1/2" Square Connection

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

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.

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



Low-Vibration Needle/Chisel Scalars



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

CS Unitec's Trelawny™ line of low-vibration needle/chisel scalars 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 and easy to handle
- Optional dust shroud for dust and debris collection
- Tool-free needle changeover
- Converts to chisel scaler in seconds



VL223



VL203



VL303

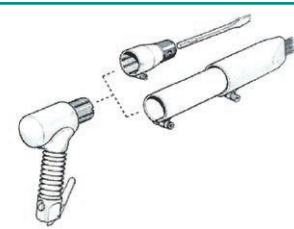
ATEX-Certified Needle Scalars
are available for hazardous
environments and Ex Zones.
See page 17 for details.

CS Unitec's Trelawny™ Vibro-Lo™ line of Needle/Chisel Scalars operate with 7x less vibration than standard models. These tools utilize vibration damping components to offset the hammer vibration created when the needles/chisels impact the workpiece.



Dust Collection Shroud

Needle Scalars and Chisel Scalars convert in seconds with optional head or when purchased as a Kit. See page 16 for Kit information.



Applications include:

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



Heavy-Duty Low-Vibration Needle Scalers



Heavy-Duty Vibro-Lo™ Needle Scalers

- Inline or pistol grip
- Remove coatings, corrosion and other accumulated materials
- Ideal for stress-relieving weld seams and joints



VL223



VL203



VL303

Needle Scalers and Chisel Scalers convert in seconds with optional head or when purchased as a Kit. See page 16 for Kit information.




Grip	Description	Model Number	Needle Quantity/ Diameter	Weight (lbs.)	Blows per minute	CFM @ 90 PSI	Noise Level db(A)	Vibration Levels m/s ²
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 19 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 Scalers



Optional Dust Shroud for Needle Scalers – 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 21 for dust extraction systems.

Drop Protection Kit

CS Unitec offers a drop protection kit for our Vibro-Lo™ Needle/Chisel Scalers. 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



Heavy-Duty Vibro-Lo™ Chisel Scalers

Grip	Description	Model Number	Weight (lbs.)	Blows per minute	CFM @ 90 PSI	Noise Level db(A)	Vibration Levels m/s ²
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



Chisels for Vibro-Lo™ Chisel Scalers

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.



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

VL223 Kit and VL303 Kit do not include a plastic carrying case.



VL203 Kit – Plastic carrying case included.

Specially designed for use in hazardous environments – equipped with Vibro-Lo™ low-vibration technology

These specially engineered Trelawny™ VL203Ex, VL223Ex and VL303Ex needle scalers are:

- Fully certified to the classification EX II 2Gc IIA T4 under the European Directive 94/9/EC.
- Ideal for use in oil, gas and petrochemical applications such as refineries, offshore platforms, LPG terminals and all chemical processing environments.

ATEX Certified

For use in hazardous environments and ATEX and Ex Zones



Grip	Description	Model Number	Needle Quantity/ Diameter	Weight (lbs.)	Blows per minute	CFM @ 90 PSI	Noise Level db(A)	Vibration Levels m/s ²
Inline	VL223Ex Needle Scaler with dust shroud	139.2423	19 / 3mm	5.25	2400	4	90.7	2.56
Pistol	VL203Ex Needle Scaler with dust shroud	139.2403	19 / 3mm	6	2400	4	90.7	2.75
	VL303Ex Needle Scaler with dust shroud	139.2433	28 / 3mm	7.75	3000	5	109.5	2.3



VL223Ex

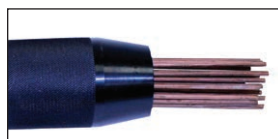


VL203Ex



VL303Ex

Standard Features



Copper Beryllium needles – high strength with non-sparking and non-magnetic properties.



Dust shroud to protect user from hazardous dust and debris.



Fall arrestor eliminates the risk of dropping the tool, causing injury or equipment damage.



Vibro-Lo™ technology operates with 7x less vibration than standard models.



Kit includes ATEX-Certified needle scaler, extra set of Copper Beryllium needles, dust shroud, corner cuff, edge cuff, flat cuff and fall arrestor.

Optional Accessory

Anti-static lanyard available for use with the fall arrestor (P/N 415.3003)



Non-Sparking, Non-Magnetic Safety Hand Tools

CS Unitec offers a complete line of high-quality safety hand tools for use in Ex Zones, ATEX Zones and hazardous environments where hazardous, flammable or combustible vapors, liquids, dusts or residues may be present. **Contact us for more information!**

Lightweight and slim design for tight areas – equipped with Vibro-Lo™

CS Unitec's electric low-vibration needle scaler offers a powerful motor and low vibration for greater productivity and operator comfort. Optional accessories convert needle scaler to chisel scaler or bush hammering tool.

- Integrated Vibro-Lo™ vibration reduction technology
- Lightweight and easy to handle
- Optional dust shroud for dust collection vacuum
- Converts to chisel scaler in seconds
- Optional Bush Hammer Head Kit converts needle scaler to hammering tool



**Available
Late 2016**



CS Unitec's Electric Needle and Chisel Scalers operate with 7x less vibration than standard models. These tools utilize vibration damping components to offset the hammer vibration created when the needles/chisels impact the workpiece.

Electric Vibro-Lo™ Needle Scaler

Model Number	Needle Quantity/ Diameter	Weight (lbs.)	Blows per minute	Power
VL219E Needle Scaler				
196.6002	19 / 3mm	8.15	3000	110 V, 650 Watts, 60Hz
196.6004	19 / 3mm	8.15	3000	230 V, 650 Watts, 50Hz



Optional Accessories



Chisel Kit – P/N 419.6610
Converts VL219E into a chisel scaler



Bush Hammer Head Kit – P/N 415.6610
Converts VL219E into a Bush Hammer tool



Bush Hammer Head – P/N 612.6600



Dust Shroud – P/N 418.6100
For use with dust extraction vacuums
See page 21 for dust extraction systems.



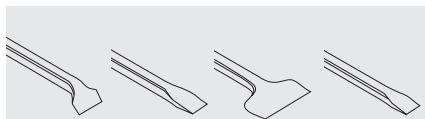
Needles



Flat

19 needles (5" long x 3mm dia.) – P/N 443.1115
Box of 1000 needles (5" long x 3mm dia.) – P/N 443.1105

Chisels



See page 16 for the following types of chisels:

Square Cranked End for weld flux and thick coating removal
Square (3/4" wide) for weld splatter removal
Square (2-1/2" wide) for removal of rust or peeling paint
Square (3/4" wide) for weld splatter and sand cast cleaning

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 are 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	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 19 needles	413.1119
3mm	6 x sets of 28 needles	413.1128
3mm	Box of 100 needles	453.1110
3mm	Box of 1000 needles	443.1107
3mm	7" long (180mm)	
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	443.1105
3mm	5" long (127mm)	
3mm	19 x needles	443.1115
3mm	5" long (127mm)	

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 desirable.



Size	Description	Part #
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

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



See page 21 for dust extraction systems.

Conversions:

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