

Heavy-Duty Needle Scalers

Heavy-Duty Needle Scalers

Ideal for cleaning and stress-relieving weld seams and joints; texturing concrete; 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

Semi Pistol Grip



3B



4B



2BPG

Pistol Grip



3BPG

2B Combination Kit
See next page for more information.



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 12 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 418.2200
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 18 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 Scalers

Heavy-Duty Chisel Scalers

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 13. All others Chisel Scalers shown above have 1/2" square connection.



Inline Grip



1B



2B



3B



2BPG



4B

Semi Pistol Grip



Pistol Grip

2B Combination Kit



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



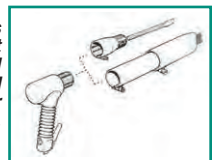
Chisels for Standard Chisel Scalers

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 Scalers and Chisel Scalers 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, easy to handle
- Optional dust shroud for dust and debris collection
- Tool-free needle changeover
- Converts to chisel scaler in seconds



VL223



ATEX-Certified Needle Scalars available for hazardous environments and Ex Zones. See page 11 for details.



VL203



VL303



Needle Scalars and Chisel Scalars convert in seconds with optional head or when purchased as a Kit. See page 10 for Kit information.



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



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 10 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 12 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 18 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 & petrochemical industries 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

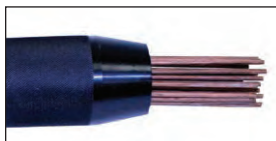


VL203Ex



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



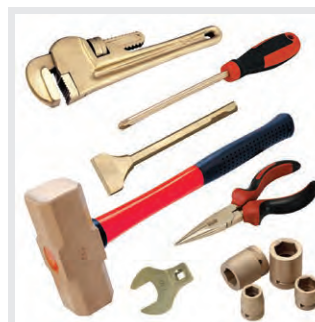
Vibro-Lo™ technology operates with 7x less vibration than standard models.



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!**

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	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 (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 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 18 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 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 needles is undesirable.



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