

LUKAS

Passion makes the difference!



Industrial Cutting Equipment

**includes new
Concrete Crusher**



IDEX

IDEX CORPORATION

**JAWS
OF
LIFE.**

LUKAS Industrial Cutting Equipment

The demand for environmentally-friendly disposal and recycling of used or discarded products within highly industrialized countries continues to increase. LUKAS offers a broad selection of hydraulic cutting equipment developed specifically for cutting, spreading and demolition work. They are especially suited to the following tasks

- ✓ Recycling automobiles
- ✓ Recycling household goods
- ✓ Recycling cables
- ✓ Demolition of heating systems
- ✓ Demolition and remodelling in buildings
- ✓ Cutting metal parts at scrap yards
- ✓ Reconstruction and demolition of nuclear power plants
- ✓ Production cutting of metal sheets, moulding or extruded channel, materials with varying profiles, castings, etc.

LUKAS Cutting Equipment – an investment that pays for itself – quickly!

- ✓ Superior cutting power provides a significant time-saving compared to traditional cutting methods
- ✓ Personnel are more productive and less fatigued, increasing productivity
- ✓ Equipment is simple to use and may be operated by less-qualified personnel without the need for special training
- ✓ The tools create little noise and create no sparks eliminating the need for noise abatement and fire suppression measures (e.g. using grinders or cutting torches)
- ✓ Low operating costs as no consumables are required
- ✓ Demonstration and test cutting with your material possible anytime

Consider the Selection Criteria for the Correct Tool

How many cuts do you make per day?

Cut volume

Low

High



What materials do you cut?

Cutting performance

Low

High



How light should your cutter be?

Mobility

Low

High



Experience the Power of LUKAS Cutters on Your Application!



LUKAS cutters for mobile use



LSI 135

The ideal cutters for mobile use at reclamation facilities, scrap yards, in buildings or on building sites. Also suitable for cutting work underwater.

Highlights

- ✓ Optimal operation due to low weight
- ✓ Precise thumb control in any work situation using LUKAS star grip valve
- ✓ Regrindable blades
- ✓ Many blade forms are available, providing the optimal geometry in every situation
- ✓ Durable sliding plates
- ✓ Pivot bolts with lubrication fitting

Recommended Application

With curved blades:

- ✓ Automobile recycling
- ✓ Cable recycling
- ✓ Demolition of heating systems
- ✓ Cutting operations in production facilities

With straight blades or combi blades:

- ✓ Recycling household goods
- ✓ Recycling electronic waste
- ✓ Cutting flat materials

**Recommended hydraulic power unit:
PO6 LSI-10-50**



LSI 200



LSI 220

Number of cuts

Low High

Cutting performance

Low High

Mobility

Low High

	LSI 135	LSI 200	LSI 220
Cutting force at 500 bar	43,840 lbs / 195 kN	69,919 lbs / 311 kN	68,570 lbs / 305 kN
Blade opening	4.02 in. / 102 mm	4.92 in. / 125 mm	5.91 in. / 150 mm
Dimensions	21.65 x 6.73 x 5.71 in. 550 x 171 x 145 mm	26.38 x 8.66 x 6.42 in. 670 x 220 x 163 mm	28.54 x 8.66 x 6.42 in. 725 x 220 x 163 mm
Weight	21.4 lbs / 9,7 kg	30.4 lbs / 13,8 kg	34.6 lbs / 15,7 kg



LSI 230



LSI 240



LSI 235



	LSI 230	LSI 240	LSI 235
Cutting force at 500 bar	78,687 lbs / 350 kN	78,687 lbs / 350 kN	62,950 lbs / 280 kN
Blade opening	8.86 in. / 225 mm	11.22 in. / 285 mm	10.43 in. / 265 mm
Spreading force at 500 bar	---	---	8,093 – 43,840 lbs 36 – 195 kN
Spreading width	---	---	14.17 in. / 360 mm
Dimensions	29.01 x 9.25 x 6.42 in. 737 x 235 x 163 mm	29.76 x 9.25 x 6.42 in. 756 x 235 x 163 mm	29.96 x 8.66 x 6.42 in. 761 x 220 x 163 mm
Weight	36.8 lbs / 16,7 kg	36.6 lbs / 16,6 kg	37.3 lbs / 16,9 kg

Mobile Cutters for the most difficult applications



LSI 511 V

Hose break protection

Manufactured from 10 layers of the same material used for bulletproof vests, the hose break protection sleeve offers an additional measure of safety



LSI 501 V



LSI 530 V



LSI 55 V

Extremely powerful cutting tools for demolition and remodelling on building sites, redevelopment work in buildings, demolition of industrial plants or material separation at scrap yards. Also suitable for cutting work underwater.

Highlights

- ✓ Maximum cutting power
- ✓ Precise thumb control in any work situation using LUKAS star grip valve
- ✓ Regrindable blades
- ✓ Many varied blade forms are available, providing the optimal geometry in every situation
- ✓ Durable sliding plates
- ✓ Pivot bolts with lubrication fitting

Recommended Applications

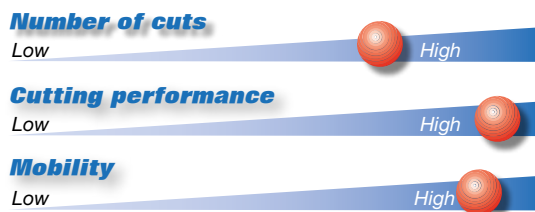
With curved blades:

- ✓ Building demolition and remodelling
- ✓ Removal of heating systems
- ✓ Demolition or construction work
- ✓ Cutting larger dimension cables
- ✓ Cutting stronger metal profiles

With combi blades:

- ✓ Recycling household goods
- ✓ Recycling electronic waste
- ✓ Cutting material at scrap yards
- ✓ Cutting flat materials

Recommended hydraulic power unit: PO6 LSI-10-50



	LSI 511 V	LSI 501 V	LSI 530 V	LSI 55 V
Cutting force at 500 bar	154,901 lbs / 689 kN	121,403 lbs / 540 kN	124,101 lbs / 552 kN	95,548 lbs / 425 kN
Blade opening	5.2 in. / 132 mm	7.09 in. / 180 mm	10.98 in. / 279 mm	12.36 in. / 314 mm
Spreading force at 500 bar				7,868 - 44,289 lbs 35 - 197 kN
Spreading width				17.01 in. / 432 mm
Dimensions	29.72 x 9.25 x 6.61 in. 755 x 235 x 168 mm	31.06 x 9.25 x 6.61 in. 789 x 235 x 168 mm	31.18 x 9.25 x 6.61 in. 792 x 235 x 168 mm	33.94 x 9.25 x 6.61 in. 862 x 235 x 168 mm
Weight	51.8 lbs / 23,5 kg	52.2 lbs / 23,7 kg	50.9 lbs / 23,1 kg	52.7 lbs / 23,9 kg

Mobile Cutters with electronic control



LSI 400 E



LSI 511 E



LSI 501 E



LSI 530 E

Powerful cutting tools with aluminum cylinder body design, combine to provide portability in a tool for applications requiring high cut frequency. The tool is push button operated. A solenoid valve on the power unit controls the opening and closing functions.

Highlights

- ✓ Many varied blade forms are available, providing the optimal geometry in every situation
- ✓ Very durable
- ✓ Regrindable blades
- ✓ Low-maintenance
- ✓ Low-wear, push button control
- ✓ Durable sliding plates
- ✓ Pivot bolts with lubrication fitting

Recommended Applications

- ✓ Cutting applications in industrial production
- ✓ Cable recycling
- ✓ Automobile recycling

With combi blades

- ✓ Household goods recycling
- ✓ Electronic waste recycling
- ✓ Cutting flat materials

Recommended hydraulic power unit: PO6 LSI-510.

Number of cuts



Cutting performance



Mobility



	LSI 400 E	LSI 511 E	LSI 501 E	LSI 530 E
Cutting force at 500 bar	69,919 lbs / 311 kN	154,901 lbs / 689 kN	121,403 lbs / 540 kN	124,101 lbs / 552 kN
Blade opening	4.92 in. / 125 mm	5.20 in. / 132 mm	7.09 in. / 180 mm	10.99 in. / 279 mm
Dimensions	26.77 x 8.66 x 4.96 in. 680 x 220 x 126 mm	29.72 x 9.25 x 6.61 in. 755 x 235 x 168 mm	31.06 x 9.25 x 6.61 in. 789 x 235 x 168 mm	31.18 x 9.25 x 6.61 in. 792 x 235 x 168 mm
Weight	34.6 lbs / 15,7 kg	47.4 lbs / 21,5 kg	47.8 lbs / 21,7 kg	46.5 lbs / 21,1 kg



LSI 435 E



LSI 55 E

	LSI 435 E	LSI 55 E
Cutting force at 500 bar	62,950 lbs / 280 kN	95,548 lbs / 425 kN
Blade opening	10.43 in. / 265 mm	12.36 in. / 314 mm
Spreading force at 500 bar	8,093 – 43,840 lbs 36 – 195 kN	7,869 – 44,289 lbs 35 – 197 kN
Spreading width	14.17 in. / 360 mm	17.01 in. / 432 mm
Dimensions	30.35 x 8.66 x 6.42 in. 771 x 220 x 163 mm	34.64 x 9.25 x 6.61 in. 880 x 235 x 168 mm
Weight	41.4 lbs / 18,8 kg	49.6 lbs / 22,5 kg

Heavy duty Cutters with electronic control



LSI 600 E

Extremely durable cutters designed with steel cylinder bodies for use in hostile environments with a high, cut frequency. The tools are push button operated. A solenoid valve on the power unit controls the opening and closing functions.

Highlights

- ✓ Extremely durable
- ✓ Regrindable blades
- ✓ Low maintenance
- ✓ Low-wear push button control
- ✓ Pivot bolts with lubrication fitting

Recommended Applications

- ✓ Cutting work in industrial production
- ✓ Cable recycling
- ✓ Automobile recycling

With combi blades:

- ✓ Household goods recycling
- ✓ Electronic waste recycling
- ✓ Weld seam checking on spot-welded steelwork

Recommended hydraulic power unit: PO6 LSI-510.



LSI 635 E

Number of cuts



Cutting performance



Mobility



	LSI 600 E	LSI 635 E
Cutting force at 500 bar	69,919 lbs / 311 kN	62,950 lbs / 280 kN
Blade opening	4.92 in. / 125 mm	10.43 in. / 265 mm
Spread force at 500 bar		8,093 – 43,840 lbs / 36 – 195 kN
Spread width		14.17 in. / 360 mm
Dimensions	26.77 x 9.92 x 4.96 in. 680 x 252 x 126 mm	30.35 x 9.92 x 4.96 in. 771 x 252 x 126 mm
Weight	48.5 lbs / 22 kg	55.3 lbs / 25,1 kg

For high cut frequency and high cut performance

These tools are designed for fixtured use and are supplied with a threaded base for direct connection of the supply and return hoses. The tool is controlled from an external hydraulic control system or LUKAS tailor made power unit and remote control solutions. They are designed for use in industrial installations and machines.

Highlight

- ✓ Many blade forms are available, providing the optimal geometry in every situation
- ✓ Extremely durable
- ✓ Regrindable blades
- ✓ Low maintenance
- ✓ Pivot bolts with lubrication fitting

Recommended Applications

- ✓ Cutting tasks in industrial production
- ✓ Suitable for use as a manipulator with industrial robots
- ✓ Remote control cutting of radioactive material
- ✓ Demolition of scrap automobiles with industrial robots

Custom-made units for all purposes available on request.

Number of cuts



Cutting performance



Mobility



LSI 511 AB



LSI 501 AB



LSI 530 AB



LSI 55 AB



LSI 600

	LSI 511 AB	LSI 501 AB	LSI 530 AB	LSI 55 AB	LSI 600
Cutting force at 500 bar	154,901 lbs / 689 kN	121,403 lbs / 540 kN	124,101 lbs / 552 kN	95,548 lbs / 425 kN	69,919 lbs / 311 kN
Blade opening	5.20 in. / 132 mm	7.09 in. / 180 mm	10.98 in. / 279 mm	12.36 in. / 314 mm	4.92 in. / 125 mm
Spreading force at 500 bar				7,869 – 44,289 lbs 35 – 197 kN	
Spreading width				17.01 in. / 432 mm	
Dimensions	24.01 x 9.25 x 6.61 in. 610 x 235 x 168 mm	25.35 x 9.25 x 6.61 in. 644 x 235 x 168 mm	25.47 x 9.25 x 6.61 in. 647 x 235 x 168 mm	27.01 x 9.25 x 6.61 in. 686 x 235 x 168 mm	18.94 x 8.27 x 4.96 in. 481 x 210 x 126 mm
Weight	44.7 lbs / 20,3 kg	45.2 lbs / 20,5 kg	44.3 lbs / 20,1 kg	34.6 lbs / 15,7 kg	44.1 lbs / 20 kg

LUKAS Concrete Crusher and Reinforcing Bar Cutter for fast, silent and clean demolition jobs



LSI 530 CC

This compact tool is best suited to reconstruction projects in commercial buildings and for building demolition. It is designed to crush concrete and cut reinforcing rods with different contact points on the same tool arm.

Recommended Applications

- ✓ Easily crushes up to 8" thick concrete walls
- ✓ Highly suitable for stone walls made of aerated concrete, bricks etc.
- ✓ Cuts reinforcing bars and other metal parts
- ✓ Allows precisely dimensioned demolition of walls
- ✓ Produces a precise opening in a wall during reconstruction

LSI 530 CC	
Blade opening	0.35 up to 12.2 in. / 9 up to 309 mm
Crushes Concrete type B 35	7.7 in. / 195 mm
Cuts reinforcing bars up to	1.1 in. / 28 mm
Dimensions l x w x h	30.9 x 9.85 x 6.7 in. / 785 x 250 x 170 mm
Weight	50.0 lbs / 22.7 kg

Highlights

- ✓ Incredible crushing and cutting power
- ✓ Precise control in any work position using the exclusive LUKAS star grip valve
- ✓ Durable sliding plates for long life in tough environments
- ✓ A Heavy Duty Pivot bolt with a lubrication fitting nearly eliminates teardown for PM and greatly increases the life of key components.

Ergonomic Benefits

- ✓ Crushing concrete and cutting reinforcing bars with the same tool
- ✓ Creates no vibration and won't contribute to hand-arm vibration syndrome (HAVS) normally associated with jack hammers or other percussive equipment
- ✓ Creates no dust
- ✓ No noise like that associated with demolition hammers and saws

Recommended hydraulic power unit: PO6 LSI-10-50



Motor Pumps for Cutters and Combi Tools

Highlights

- ✓ High flow capacity for quicker work
- ✓ Operator friendly – all controls within easy reach.
- ✓ Robust construction
- ✓ Low noise
- ✓ Original LUKAS radial piston pump

Design

The standard version is equipped with a 10 Liter oil tank. We also offer a larger capacity oil tank of 25 Liters for operations with a high cycle frequency. The motor pumps are delivered as standard without a support frame. The carrying support frame is recommended for applications requiring frequent movement of the power unit.



P06 LSI-10-50 (with 10 Liter oil tank)

P06 LSI-20-50 (with 25 Liter oil tank)

High-performance, two-stage motor pump for cutting and combi devices with star grip valve.

Also available with gasoline engine:

G06 LSI-10-50 (with 10 Liter oil tank)

G06 LSI-20-50 (with 25 Liter oil tank)



P06 LSI-510 (with 10 Liter oil tank)

P06 LSI-520 (with 25 Liter oil tank)

High-performance, two-stage motor pump for use with push button tools and applications requiring remote actuation.

Connection Hoses



Connection hose pair (standard equipment) for connection of the power unit to the hydraulic cutter. A quick connect coupler at one end connects to the tool while threaded fittings allow connection to the power unit.

Available hose lengths: 5 m and 10 m.



Hydraulic Hose Pair

with remote control cable and plug connection with electronic control.

Hose length: 5 m and 10 m.



Extension hose pair

with quick-release connections at both ends. Allows extension of the hose pair or may be used to allow use of a quick connection coupling at the power unit end. Requires use of quick connect couplers on the power unit.

Available hose lengths: 5 m and 10 m.



Hose break protection

Manufactured from 10 layers of the same material used for bulletproof vests, the hose break protection sleeve offers an additional measure of safety



Quick-connect couplers

for connection to the hydraulic cutter, should the hose pair also be connected to the unit.

Quick-connect couplers

for mounting on the hose pair.

Accessories



Balancer for LSI Cutting Equipment:

EW 15 for LSI 135 and LSI 200
up to 15 kg tool weight

EW 22 for LSI 220 – 240,
LSI 400 – 435 and LSI 600
up to 22 kg tool weight

EW 30 für LSI 501 – 530,
LSI 55, LSI 635 and Concrete Crusher
up to 30 kg tool weight

Hanger Attachment with Rotatable Mounting

For the tool series LSI 200,
LSI 400 and LSI 600



For LSI 501 – 530, LSI 55
and Concrete Crusher



Transport cart

Designed for convenient storage of the tool, hose pair and power unit, allowing easy transport of an LSI cutting system:

Cutting tool, motor pump and hydraulic hoses.

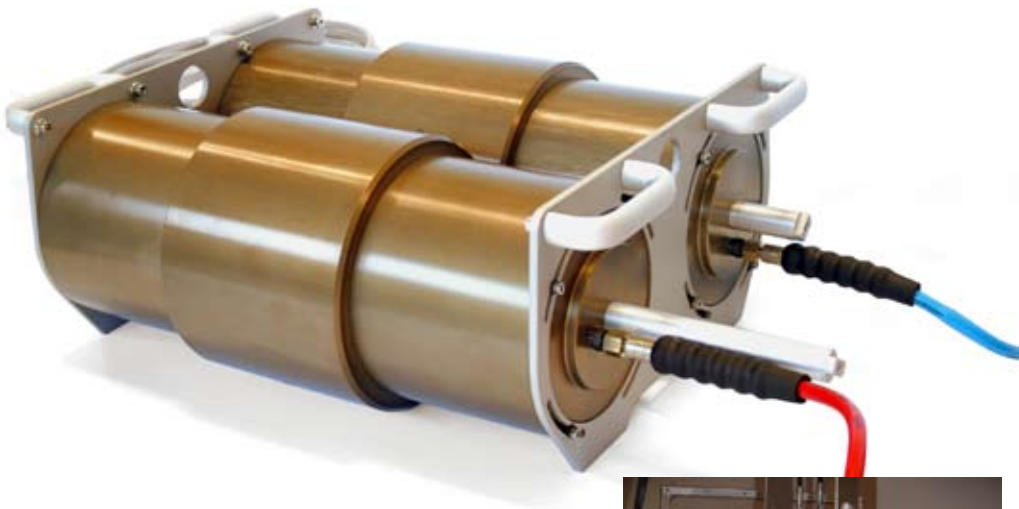
The transport wagon is suitable for power units with 10 Liter oil tank and is available in two versions:

For LSI 200 – 240

For LSI 501 – 530

LSI 55 and Concrete Crusher

LUKAS LSI Equipment in Power Plants



The pressure medium converter (oil – deionised water) ensures that no oil traces get into the deionised environment when work is being done with an LSI cutting device in the reactor area.



Special Applications



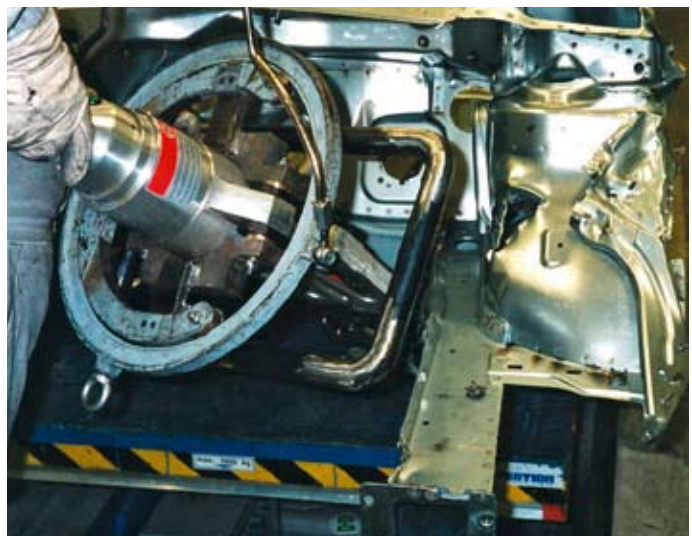
Remote control cutting underwater in the Gulf of Mexico at a depth of 762 m.



After being lifted from the ocean bottom the old ocean cables are shortened with LUKAS cutters so that they can be loaded for transport in containers.



Spot-weld integrity testing is completed by ripping the seams apart with a LUKAS LSI combi tool or LUKAS spreader. The spot weld rip-pattern provides feedback on the optimal settings for the weld robots.



Special Applications



For the demolition of an industrial chimney the inner wall was systematically dismantled using a LUKAS spreader. The demolition of the chimney could not be completed using conventional methods as a blast at this location was not possible.





**Further
LUKAS Products:
Hydraulic tools
available in
aluminium
stainless steel
steel
6 t to 1100 t
lifting capacity**



**Vetter
Mini Lifting Bags
10 t to 68 t
lifting capacity**

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All indications were carefully made and examined. We can, however, not undertake any responsibility for eventual mistakes or incompletenesses. Subject to revision.

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