



***Simply drilling***

**Lumesa**  
■ Drilling Technology

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# LUMESA – Simply Drilling

For more than 45 years, **Lumesa** stands for innovative drilling and injection technologies in special foundation construction. With locations in Switzerland and Austria, the company develops highly functional drill feeds and hydraulic powerpacks that are used worldwide. The heart of this technology is the almost wear-free INOX drill feed profile, which, in combination with powerful drill drives, is optimally tailored to the respective application. The modular design and advanced operating options make **Lumesa** drilling attachments the ideal choice for demanding projects.

## Simply INOX – The Secret of Longevity

INOX

**Lumesa** uses high-strength, stainless steel (INOX) – a material combination that impresses with its high strength, surface hardness and minimal roughness. The result: minimal wear, reduced maintenance and maximum durability. Thanks to the superior material quality, **Lumesa** drill feeds remain reliable and efficient even after years of use. Less downtime, lower operating costs and a sustainable economic advantage – that is Simply INOX.

## Simply Drilling – The promise to customers

**Lumesa** equipment impress with:

- ✓ Reliability and durability – an investment that pays off over many years.
- ✓ Easy handling – intuitive operation for efficient processes.
- ✓ Innovative technology – maximum efficiency and safety on the construction site.
- ✓ INOX quality – High-quality stainless steel for low-maintenance and maximum service life.



# Mounty® Portable Drill Feeds

Safety in the mountains



The problem of installing protection devices was presented to **Lumesa SA**. Previously, these structures were carried out with tracked machines. As these were not always sufficient, a portable machine was designed.

Several elements were available to be assembled into a model system for machines of 3 sizes. These components ranged from 40 kg to 50 kg for lighter machines (torque 1'400 Nm) and from 80 kg to 120 kg for heavy machines (torque 5'000 Nm).

Not to forget the tools, drilling and lining tubes, which can easily weigh one tonne! This construction requires that rods, hammers and tubes are perfectly matched to the drill.

The drilling process is different compared to tracked machines. Therefore, we offer advice, the necessary tools and equipment for each application.



# Portable Drill Feeds

## Overview



INOX



INOX



INOX



INOX

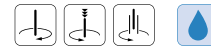
Mounty® 90 L

Mounty® 90 H

Mounty® 91 H

Mounty® 92 H

### Specifications



<b>Operating weight excavator t</b>			> 2	> 3	
<b>Weight <sup>1</sup></b>	kg	> 45	> 50	> 110	> 140
<b>Oil requirement</b>	l/min / bar		55 / 200	60 / 200	100 / 200
<b>Feed/Pullback force</b>	kN	9	12	20	40
<b>Torque max.</b>	daNm	90	140	180	500
<b>Feed stroke</b>	mm	1'300 / 1'800 / 2'300	1'300 / 1'800 / 2'300	1'300 / 1'800 / 2'300	1'300 / 1'800 / 2'300
<b>Dimensions (LxBxH)</b>	mm	2'160 / 580 / 650	2'160 / 580 / 500	2'220 / 580 / 500	2'315 / 584 / 600
<b>Drill feed profile</b>	BL	90	90	91	92
<b>Fixing plate for scaffolding tube</b>		inclusive	inclusive	inclusive	inclusive
<b>Rotary plate for scaffolding tube</b>		inclusive	inclusive	inclusive	inclusive
<b>Clamping device</b>	mm		25 – 146	25 – 146	25 – 181
<b>Top hammer</b>	daNm	35	103	103 / 150	150
<b>Rotary head</b>	daNm	90	140	180	800
<b>Double head</b>	daNm				

### Deliverable with

<b>Hydraulic control panel</b>		inclusive	inclusive	inclusive	inclusive
<b>Radio or cable remote control</b>		optional	optional	optional	optional
<b>Radio remote control with display</b>					
<b>Anti-jamming automatic</b>					
<b>Adjustable percussion mechanism</b>					
<b>Injection pump control</b>		optional	optional	optional	optional
<b>Thread synchronization</b>					
<b>Slew 90° (mechanical)</b>		optional	optional	optional	optional
<b>Breaking device</b>		optional	optional	optional	optional
<b>Drill guide</b>		inclusive	inclusive	inclusive	inclusive
<b>Rack back stay</b>		inclusive	inclusive	inclusive	inclusive

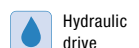
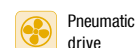
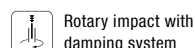
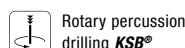
### Requirements hydraulic power units

<b>Weight</b>	kg		390 / 700	390 / 700	>510
<b>Engine power</b>			18 / 43	18 / 43	(18) / 43
<b>Fuel</b>					
<b>Hose length</b>	m		20 + 7	20 + 7	20 + 7

### Drilling methods Application ideal Application conditionally possible

<b>Blast hole / Rock drilling</b>	ø mm	33	45	57	76	89	33	45	57	76	89	33	45	57	76	89	33	45	57	76	89
<b>KSB® Anchor drilling</b>	ø anchor	R32	R38	R51	T76	T114	R32	R38	R51	T76	T114	R32	R38	R51	T76	T114	R32	R38	R51	T76	T114
<b>Rotary-Down-the-hole (DTH) drilling</b>	ø mm	70	90	140	178	250	70	90	140	178	250	70	90	140	178	250	70	90	140	178	250
<b>Cased drilling</b>	ø mm	114	139	168	178	219	114	139	168	178	219	114	139	168	178	219	114	139	168	178	219
<b>Core drilling</b>	ø mm	100	131	146	200	254	100	131	146	200	254	100	131	146	200	254	100	131	146	200	254
<b>Injection port</b>	inch		3/8"				3/8"					3/8"					3/8"				

1. Without safety device according to standard EN16228



# Mounty® 90 L

Portable Drill Feeds



INOX

Lightweight, portable drill feed, fully pneumatic, ideal for all handy drilling operations; can be used with down-the-hole hammer as well as with drill hammer. Uncoiled for easy mounting on any type of scaffolding; suitable for wall work.

- Drill feed, fixing plate for scaffolding tubes, combination guide retraction force 7 kN / 6 bar.
- Rotary head 900 Nm / 6 bar
- Control panel with oiler and hoses
- Rack back stay support 2.2 – 3.6 m

#### Mounty® 90 L package

- Mounty® 90 L, feed length 1.30, 1.80 or 2.3 m
- Rotary head NLL
- Control panel SLL
- Rack back stay



## Technical specifications

### Mounty® 90 L

#### Specifications



<b>Operating weight excavator t</b>		
<b>Weight <sup>1</sup></b>	kg	> 45
<b>Oil requirement l/min / bar</b>		
<b>Feed/Pullback force</b>	kN	9
<b>Torque max.</b>	daNm	90
<b>Feed stroke</b>	mm	1'300 / 1'800 / 2'300
<b>Dimensions (LxBxH)</b>	mm	2'160 / 580 / 650
<b>Drill feed profile</b>	BL	90
<b>Fixing plate for scaffolding tube</b>		inclusive
<b>Rotary plate for scaffolding tube</b>		inclusive
<b>Clamping device mm</b>		
<b>Top hammer</b>	daNm	35
<b>Rotary head</b>	daNm	90
<b>Double head daNm</b>		

#### Deliverable with

<b>Hydraulic control panel</b>	inclusive
<b>Radio or cable remote control</b>	optional
<b>Radio remote control with display</b>	
<b>Anti-jamming automatic</b>	
<b>Adjustable percussion mechanism</b>	
<b>Injection pump control</b>	optional
<b>Thread synchronization</b>	
<b>Slew 90° (mechanical)</b>	optional
<b>Breaking device</b>	optional
<b>Drill guide</b>	inclusive
<b>Rack back stay</b>	inclusive

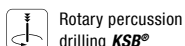
#### Requirements hydraulic power units

<b>Weight</b>	kg
<b>Engine power</b>	kW
<b>Fuel</b>	
<b>Hose length</b>	m

#### Drilling methods

	Application ideal	Application conditionally possible				
<b>Blast hole / Rock drilling</b>	ø mm	33	45	57	76	89
<b>KSB® Anchor drilling</b>	ø anchor	R32	R38	R51	T76	T114
<b>Rotary-/Down-the-hole (DTH) drilling</b>	ø mm	70	90	140	178	250
<b>Cased drilling</b>	ø mm	114	139	168	178	219
<b>Core drilling</b>	ø mm	100	131	146	200	254
<b>Injection port</b>	inch	3/8"				

1. Without safety device according to standard EN16228



Rotary percussion drilling **KSB®**

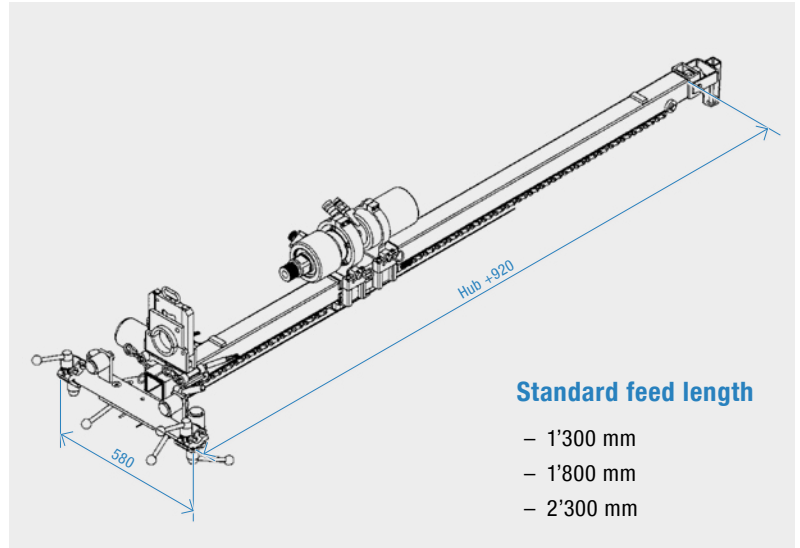


Rotating uniped



Pneumatic drive

## System drawing



# Mounty® 90 H

Portable Drill Feeds



INOX

## Avalanche construction and renovations

Portable hydraulic drill feed, ideal for all handy drilling work; can be used with down-the-hole hammer and drill hammer (pneumatic or hydro-pneumatic) as well as for core drilling. Designed for easy mounting on any type of scaffolding and suitable for wall work. Very light and handy.

### Lightweight drill feed for:

- scaffolding
- nailing
- blast hole drilling
- micropiling
- core drilling
- exploratory drilling
- diamond drilling

### Mounty® 90 H package

- Mounty® 90 H, feed length 1.30, 1.80 or 2.4 m
- Hydroclamp HZ 100
- Rotary head NL3
- Remote controlled panel SF3
- Rack back stay
- Powerpack KSD91





## Technical specifications

### Mounty® 90 H

#### Specifications



#### Operating weight excavator t

<b>Weight <sup>1</sup></b>	kg	> 50
<b>Oil requirement</b>	l/min / bar	55 / 200
<b>Feed/Pullback force</b>	kN	12
<b>Torque max.</b>	daNm	140
<b>Feed stroke</b>	mm	1'300 / 1'800 / 2'300
<b>Dimensions (LxBxH)</b>	mm	2'160 / 580 / 500
<b>Drill feed profile</b>	BL	90
<b>Fixing plate for scaffolding tube</b>		inclusive
<b>Rotary plate for scaffolding tube</b>		inclusive
<b>Clamping device</b>	mm	25 – 146
<b>Top hammer</b>	daNm	103
<b>Rotary head</b>	daNm	140
<b>Double head</b>	daNm	

#### Deliverable with

<b>Hydraulic control panel</b>	inclusive
<b>Radio or cable remote control</b>	optional
<b>Radio remote control with display</b>	
<b>Anti-jamming automatic</b>	
<b>Adjustable percussion mechanism</b>	
<b>Injection pump control</b>	optional
<b>Thread synchronization</b>	
<b>Slew 90° (mechanical)</b>	optional
<b>Breaking device</b>	optional
<b>Drill guide</b>	inclusive
<b>Rack back stay</b>	inclusive

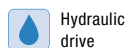
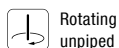
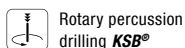
#### Requirements hydraulic power units

<b>Weight</b>	kg	390 / 700
<b>Engine power</b>	kW	18 / 43
<b>Fuel</b>		Diesel / Electric
<b>Hose length</b>	m	20 + 7

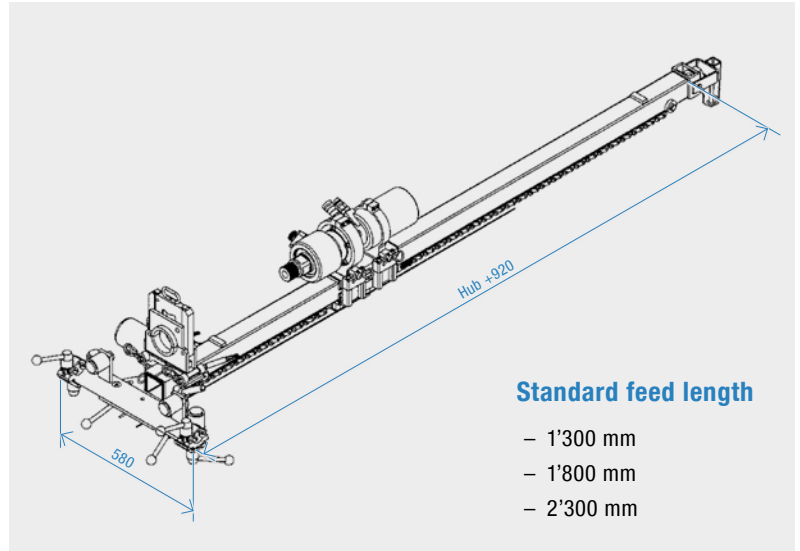
#### Drilling methods

	Application ideal	Application conditionally possible				
<b>Blast hole / Rock drilling</b>	ø mm	33	45	57	76	89
<b>KSB® Anchor drilling</b>	ø anchor	R32	R38	R51	T76	T114
<b>Rotary-/Down-the-hole (DTH) drilling</b>	ø mm	70	90	140	178	250
<b>Cased drilling</b>	ø mm	114	139	168	178	219
<b>Core drilling</b>	ø mm	100	131	146	200	254
<b>Injection port</b>	inch	3/8"				

1. Without safety device according to standard EN16228



## System drawing



# Mounty® 91 H

Portable Drill Feeds



INOX

## Drill feed for compact excavators

Portable hydraulic drill feed, excellently suited for all work with down-the-hole hammer, hammer drill or core drill. Can be mounted on all scaffolds or on any structure. In the S version, the feed motor can be mounted either at the front or at the rear. Versatile application possibilities: An excellent compromise between lightness and stability.

### Lightweight drill feed for:

- Anchor hole drilling
- Micropiling
- Core drillings
- Exploratory drilling
- HDI drilling

### Mounty® 91 H package

- Mounty® 91 H, feed length 1.3 m, 1.8 m or 2.4 m
- Rotary head NL2
- Hydroclamp HZ 100
- Remote controlled panel SF3
- Rack back stay
- Powerpack KSD91



## Technical specifications

### Mounty® 91 H

#### Specifications



<b>Operating weight excavator t</b>		> 2
<b>Weight <sup>1</sup></b>	kg	> 110
<b>Oil requirement</b>	l/min / bar	60 / 200
<b>Feed/Pullback force</b>	kN	20
<b>Torque max.</b>	daNm	180
<b>Feed stroke</b>	mm	1'300 / 1'800 / 2'300
<b>Dimensions (LxBxH)</b>	mm	2'220 / 580 / 500
<b>Drill feed profile</b>	BL	91
<b>Fixing plate for scaffolding tube</b>		inclusive
<b>Rotary plate for scaffolding tube</b>		inclusive
<b>Clamping device</b>	mm	25 – 146
<b>Top hammer</b>	daNm	103 / 150
<b>Rotary head</b>	daNm	180
<b>Double head</b>	daNm	

#### Deliverable with

<b>Hydraulic control panel</b>		inclusive
<b>Radio or cable remote control</b>		optional
<b>Radio remote control with display</b>		
<b>Anti-jamming automatic</b>		
<b>Adjustable percussion mechanism</b>		
<b>Injection pump control</b>		optional
<b>Thread synchronization</b>		
<b>Slew 90° (mechanical)</b>		optional
<b>Breaking device</b>		optional
<b>Drill guide</b>		inclusive
<b>Rack back stay</b>		inclusive

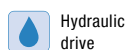
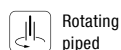
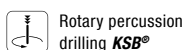
#### Requirements hydraulic power units

<b>Weight</b>	kg	390 / 700
<b>Engine power</b>	kW	18 / 43
<b>Fuel</b>		Diesel / Electric
<b>Hose length</b>	m	20 + 7

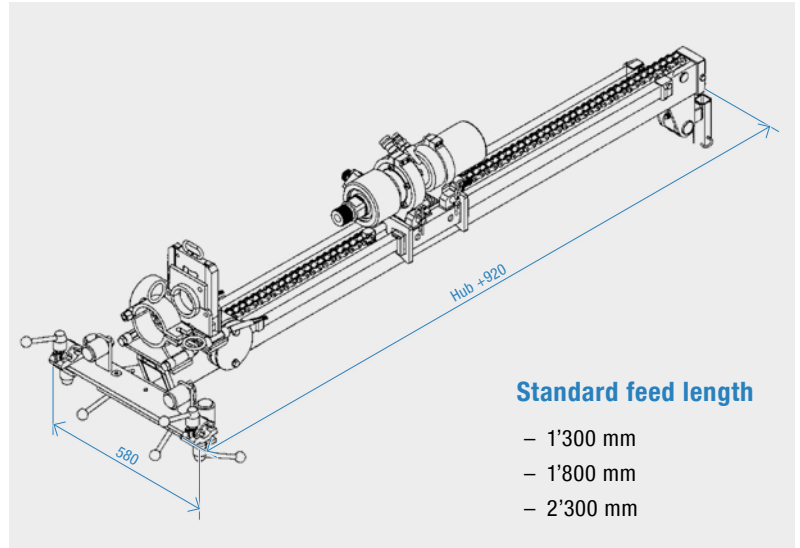
#### Drilling methods

	Application ideal	Application conditionally possible				
<b>Blast hole / Rock drilling</b>	ø mm	33	45	57	76	89
<b>KSB® Anchor drilling</b>	ø anchor	R32	R38	R51	T76	T114
<b>Rotary-/Down-the-hole (DTH) drilling</b>	ø mm	70	90	140	178	250
<b>Cased drilling</b>	ø mm	114	139	168	178	219
<b>Core drilling</b>	ø mm	100	131	146	200	254
<b>Injection port</b>	inch	3/8"				

1. Without safety device according to standard EN16228



## System drawing



#### Standard feed length

- 1'300 mm
- 1'800 mm
- 2'300 mm



# Mounty® 92 H

Portable Drill Feeds



INOX

## For heavy anchor work

Hydraulic, portable heavy drill feed, suitable for heavy duty work. It can be used for down-the-hole hammer, hammer drill or for core drilling and can be mounted on a scaffold or on any structure. In the S version, the feed motors can be mounted either at the front or at the rear.

## Lightweight drill feed for:

- Anchor hole drilling
- Micropile drilling
- Overburden drilling



## Technical specifications

### Mounty® 92 H

#### Specifications



<b>Operating weight excavator t</b>		> 3
<b>Weight <sup>1</sup></b>	kg	> 140
<b>Oil requirement</b>	l/min / bar	100 / 200
<b>Feed/Pullback force</b>	kN	40
<b>Torque max.</b>	daNm	500
<b>Feed stroke</b>	mm	1'300 / 1'800 / 2'300
<b>Dimensions (LxBxH)</b>	mm	2'315 / 584 / 600
<b>Drill feed profile</b>	BL	92
<b>Fixing plate for scaffolding tube</b>		inclusive
<b>Rotary plate for scaffolding tube</b>		inclusive
<b>Clamping device</b>	mm	25 – 181
<b>Top hammer</b>	daNm	150
<b>Rotary head</b>	daNm	800
<b>Double head</b>	daNm	

#### Deliverable with

<b>Hydraulic control panel</b>		inclusive
<b>Radio or cable remote control</b>		optional
<b>Radio remote control with display</b>		
<b>Anti-jamming automatic</b>		
<b>Adjustable percussion mechanism</b>		
<b>Injection pump control</b>		optional
<b>Thread synchronization</b>		
<b>Slew 90° (mechanical)</b>		optional
<b>Breaking device</b>		optional
<b>Drill guide</b>		inclusive
<b>Rack back stay</b>		inclusive

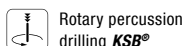
#### Requirements hydraulic power units

<b>Weight</b>	kg	>510
<b>Engine power</b>	kW	(18)/43
<b>Fuel</b>		Diesel / Electric
<b>Hose length</b>	m	20 + 7

#### Drilling methods

	Application ideal	Application conditionally possible				
<b>Blast hole / Rock drilling</b>	ø mm	33	45	57	76	89
<b>KSB® Anchor drilling</b>	ø anchor	R32	R38	R51	T76	T114
<b>Rotary-/Down-the-hole (DTH) drilling</b>	ø mm	70	90	140	178	250
<b>Cased drilling</b>	ø mm	114	139	168	178	219
<b>Core drilling</b>	ø mm	100	131	146	200	254
<b>Injection port</b>	inch	3/8"				

1. Without safety device according to standard EN16228



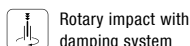
Rotary percussion drilling **KSB®**



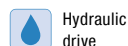
Rotating unpipied



Rotating piped

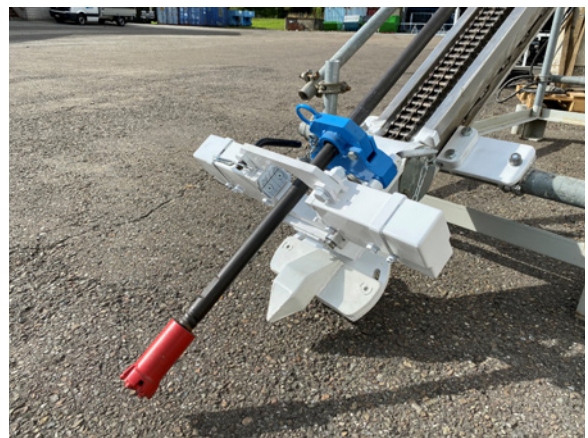
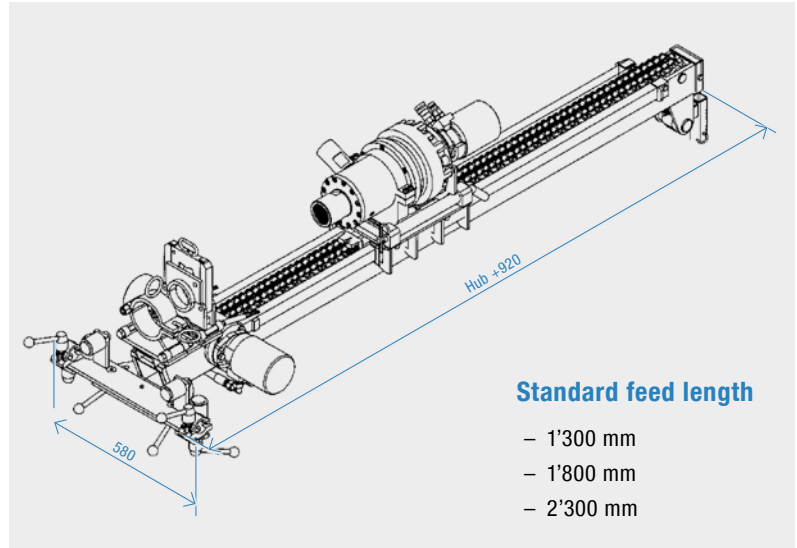


Rotary impact with damping system



Hydraulic drive

## System drawing



# Diesel & Electric Power Packs

Hydraulic power units transportable by helicopter

## Diesel Hydraulic Power Packs



**KSD 91**



**KSD 91 F**



**KSD 91 M**



**KSD 93 F**

<b>Weight <sup>1</sup></b>	kg	390	500	450	800
<b>Oil output at 200 bar</b>	l/min	55(45)*	50	50	100
<b>Engine power</b>	kW	22 / 18 <sup>1</sup>	16.9	16.9	43.7
<b>Engine</b>	Typ	Lombardini 4 Cyl.	Yanmar 3 Cyl.	Yanmar 3 Cyl.	Yanmar 4 Cyl.
<b>Engine cooling</b>		Water	Water	Water	Water
<b>Revolutions</b>	rpm	3'000	3'200	3'200	2'900
<b>Particulate filter</b>					Yes
<b>Homologation</b>		Stage V	Stage V	Stage V	Stage V
<b>Sound insulation</b>			inclusive	inclusive	inclusive
<b>Length max.</b>	mm	1'480	1'600	1'600	1'800
<b>Width max.</b>	mm	640	800	800	800
<b>Height max.</b>	mm	1'100	1'174	1'174	1'370
<b>Radio control</b>		optional	inclusive		inclusive
<b>Use on drill feed</b>		90 / 91 / 92	90 / 91 / 92	90 / 91 / 92	90 / 91 / 92

1. 1 - 18 kW / 45 l/min: Swiss version, diesel particulate filter not required

## Electric hydraulic power units



**KSE 90**



**KSE 91**



**KSE 92**



**KSE 92B**

<b>Weight</b>	kg	225	370	550	550
<b>Oil output at 200 bar</b>	l/min	40	60	100	120
<b>Engine</b>		Electro	Electro	Electro	Electro
<b>Engine power</b>	kW	11 (20 A)	22 (40 A)	30 (55 A)	37 (60 A)
<b>Power supply</b>	Volt	400	400	400	400
<b>Length max.</b>	mm	1'320	1'500	1'600	1'600
<b>Width max.</b>	mm	670	650	750	750
<b>Height max.</b>	mm	1'000	1'100	1'150	1'150
<b>Radio control</b>		optional	optional	optional	optional
<b>Use on drill feed</b>		90 / 91	90 / 91 / 92	90 / 91 / 92	90 / 91 / 92

# Control panels

manual and radio



**SEL**

**SE 3/8**

**SE 1/2**

**SH 1/2 Hammer**

**SF 1/2**

<b>Drive</b>		air	hydraulic	hydraulic	hydraulic	hydraulic
<b>Operation</b>		manual	manual	manual	manual	radio
<b>Weight</b>	kg	40	80	120	160	55
<b>Oil capacity at 200 bar</b>	l/min		50	100	100	100
<b>Function</b>						
<b>Rotation</b>		x	x	x	x	x
<b>Feed</b>		x	x	x	x	x
<b>Tongs</b>			x	x	x	x
<b>Hammer</b>		x			x	(UBH)
<b>Air purge</b>		x	x	x	x	x
<b>Use on drill feeds</b>		90 L	90 / 91 / 92	90 / 91 / 92	(90) / 91 / 92	90 / 91 / 92
<b>To aggregate type</b>			KSD 91 KSE 90 / KSE 91	KSD 93 / KSD 94 KSE 92 / KSE 92B	KSD 93 / KSD 94 KSE 92 / KSE 92B	All



Pneumatic drive



hydraulic drive

## Oiler on rack



**Article no.**      **Use on drill feeds**

SM 5495      All drill feeds possible

Available with water separator

## Set of hoses



**Type**

**Length**

Control panel  
(12 sets of hoses)      7 m  
(20m/40 m for radio)

Power pack  
control panel  
(3 sets of hoses)      5m/10m/20m/40m/50m  
(0.8m for radio)

Exact length on request



## manual control panels

hydraulic, maintenance-free direct control panels



## Radio control

**Lumesa** also offers a radio control panel instead of a manual hydraulic control panel. The big advantage is the flexibility in drilling and much less weight compared to the manual control panel.

# Powerpack KSD91F

Mounty® Click



INOX

## Description

The KSD91F power unit is equipped with a 16.9 kW Yanmar engine. It complies with current emission standards : it is Stage V certified and the hydraulics are controlled by a gear switching pump. The hydraulic block is integrated in the structure (max. length of hydraulic hoses 40 m). The block is removable and can be extended up to 80 meters (40 m + 40 m). An oiler and a motorized valve to switching the air flow are included in the package.

The unit is acoustically isolated.

## Main advantages

- Radio controlled
- Stage V engine
- Transportable by helicopter
- Compatible with all drill feeds
- Stainless steel frame
- Easy to operate
- Stackable (Mounty® Click system)
- Air control on/off
- Removable hydraulic block

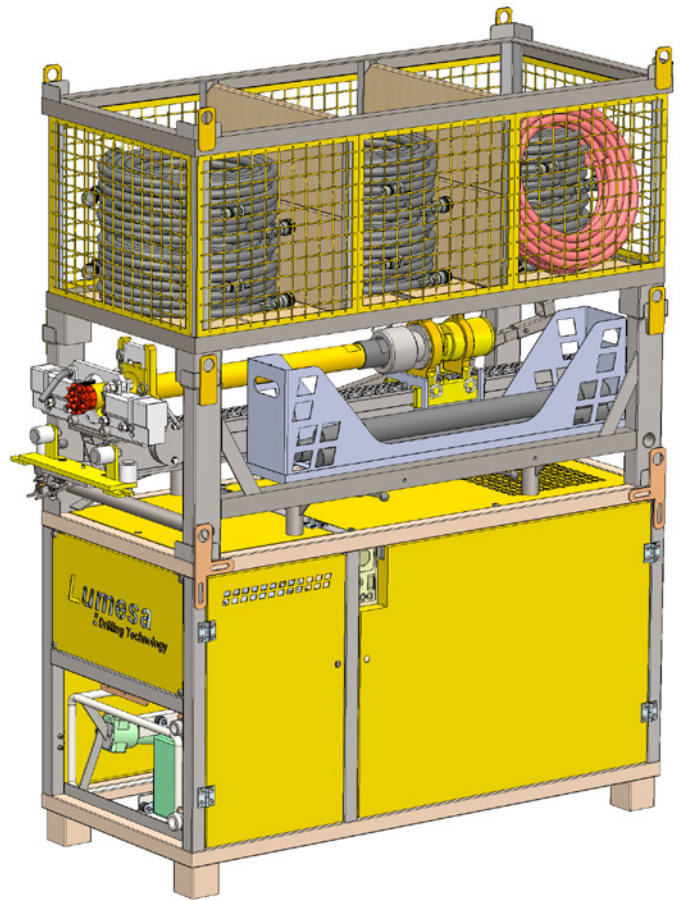




## Technical data

### KSD91F

<b>Weight</b>	kg	500
<b>Length</b>	mm	1'600
<b>Width</b>	mm	800
<b>Height</b>	mm	1'174
<b>Oil capacity at 200 bar</b>	ℓ/min	50
<b>Oil tank</b>	ℓ	40
<b>Diesel tank</b>	ℓ	20
<b>Function</b>		Rotation Feed Tongs Air purge on/off



Mounty® Click



Valve frame



Remote control

# Powerpack KSD93F

Mounty® Click



INOX

## Description

The KSD93F power unit is equipped with a 43.7 kW Yanmar engine. It complies with current emission standards : it is Stage V certified and the hydraulics are controlled by a variable geometry load-sensing pump. The hydraulic block is integrated in the structure (max. length of hydraulic hoses 40 m). The block is removable and can be extended up to 50 meters (10 m + 40 m). An oiler and a motorized valve to regulate the air flow are included in the package.

The unit is acoustically isolated.

## Main advantages

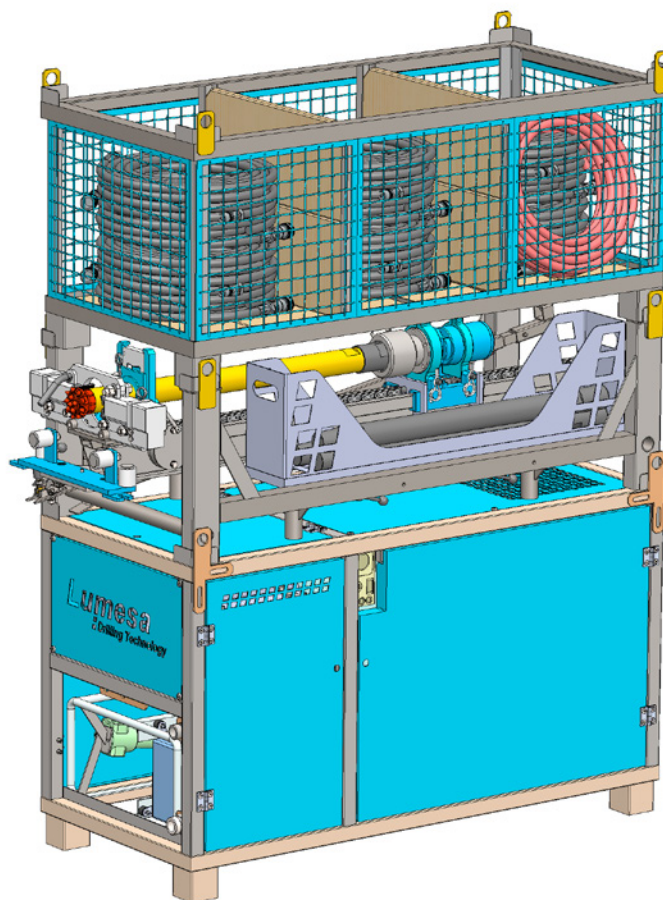
- Radio controlled
- Stage V engine
- Transportable by helicopter (800 kg)
- Compatible with all drill feeds
- Stainless steel frame
- Easy to operate
- Stackable (Mounty® Click system)
- Hydraulic load sensing
- Motor control
- Proportional air control
- Removable hydraulic block



## Technical data

### KSD93F

<b>Weight</b>	kg	800
<b>Length</b>	mm	1'800
<b>Width</b>	mm	800
<b>Height</b>	mm	1'370
<b>Oil capacity at 200 bar</b>	ℓ/min	100
<b>Oil tank</b>	ℓ	40
<b>Diesel tank</b>	ℓ	20
<b>Function</b>		Rotation Feed Tongs / Engine power Impact mechanism Air purge Motor on/off Motor speed
<b>Reach</b>	m	100
<b>Hose length</b>	m	40 + (10)



Mounty® Click



Valve frame



Remote control

# Rotary Heads

High-speed and normal runners



NLL



NI1 / NL1a / NL1b



NL2 / NL3 / NL4

## Normal runner NL

		NLL	NL1	NL1a	NL1b	NL2	NL3	NL4
<b>Drive</b>		air	hydraulic	hydraulic	hydraulic	hydraulic	hydraulic	hydraulic
<b>Weight</b>	kg	38	85	85	80	36	33	32
<b>Torque max.</b>	daNm	90	725	500	280	180	140	115
<b>Speed max.</b>	rpm		35	55	90	60	100	115
<b>Air requirement</b>	m <sup>3</sup> /min	4 @ 6						
<b>Oil requirement</b>	l/min		86 @ 200	86 @ 200	86 @ 200	46 @ 200	46 @ 200	46 @ 200
<b>Oil requirement per revolution</b>	cm <sup>3</sup>		2'450	1'650	980	780	470	400
<b>Transmission ratio</b>		1	5.17	5.17	5.17	1	1	1
<b>Shaft</b>		Rd50AG/API2 3/8 IG	API 2 3/8 IG			Rd50 AG / API 2 3/8 IG		
<b>Flushing head</b>		G 1 1/4 (Rd46)						
<b>Suitable for drill feeds</b>		90L	92	92	92	92 / 91	92 / 91 / 90	92 / 91 / 90

### Rotary Heads NL

Standard version, including a highly efficient flushing head that can be used with air, water and mortar. Available in various sizes (torque).

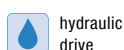
Ideal for down-the-hole hammers with casing tubes and **Lumetrix** eccentric core bits for casing drilling.

### Rotary Heads NLL

Pneumatic version, including heavy duty flushing head.



Pneumatic drive









hydraulic drive

## Fast runner SL



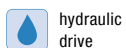
SL16 – SL11

		SL16	SL15	SL14	SL13	SL12	SL11
							
<b>Drive</b>		hydraulic	hydraulic	hydraulic	hydraulic	hydraulic	hydraulic
<b>Weight</b>	kg	22	28	29	29	30	30
<b>Torque max.</b>	daNm	22	26	40	56	68	80
<b>Speed max.</b>	rpm	1'075	860	610	440	360	310
<b>Air requirement</b>	m <sup>3</sup> /min						
<b>Oil requirement</b>	l/min	86 @ 200	86 @ 200	86 @ 200	86 @ 200	86 @ 200	86 @ 200
<b>Oil requirement per revolution</b>	cm <sup>3</sup>	80	100	140	195	240	280
<b>Transmission ratio</b>		1	1	1	1	1	1
<b>Shaft</b>		Rd50 AG / API 2 3/8 IG					
<b>Flushing head</b>		G 1 1/4 (Rd46)					
<b>Suitable for drill feeds</b>		92 / 91 / 90	92 / 91 / 90	92 / 91 / 90	92 / 91 / 90	92 / 91 / 90	92 / 91 / 90

## Rotary Heads SL

High rotation version, including flushing head. Available in different sizes (U/min)

Suitable for diamond core drilling



hydraulic drive

# Top Hammers

Lumesa universal top hammer



**BH90**

**UBH90**

**UBH90**

**HBH91**



Drive		pneumatic	pneumatic	pneumatic / hydraulic	hydraulic
Weight	kg	30	55	55	76
Torque max.	daNm		35 / 15	71 / 103	71 / 103 / 150
Speed max.	rpm	190	75 / 230	200 / 140	200 / 140 / 70
Impact frequency max.	1/min	2'500	2'500	2'500	2'500 ÷ 4'500
Impact energy/power	Nm (KW)	180	205	205	157
Air requirement	m³/min bar	5 @ 6	5 @ 6	4 @ 6	
Oil requirement	l/min bar			20 ÷ 40 / 175	45 ÷ 90 @ 175
Insertion end	Typ R	22 × 108	R25, R32, R38	R25, R32, R38, R51	R25, R32, R38, R51
	Typ IB		30, 40	30, 40, 52	30, 40, 52
Suitable for drill feeds	Typ	90 / 91	90 / 91	90 / 91 / 92	91 / 92



pneumatic drive



hydraulic drive



Rotary percussion drilling **KSB®**



**Adapter plate for drill hammer -H-**

Article no.	BL90	BL91	BL92
921301		×*	×

\* without BL91H

## BH90 (pneumatic)

Universal top hammer UBH90 for **KSB®** self-drilling anchors.

**Simple version for integral rods and KSB® self-drilling anchors.**

## UBH90 (pneumatic)

Pneumatic rotation and percussion.

**For rock drill rods and KSB® self-drilling anchors.**

## UBH90 (hydraulic / pneumatic)

Lightweight and dynamic high performance top hammer, pneumatic percussion and hydraulic rotation. Can be supplied with different torques.

**For rock drill rods and KSB® self-drilling anchors.**

## HBH91 (hydraulic)

Hydraulic drilling machine with high frequency, fully hydraulic. Can be supplied with different torques. Excellent ratio between power and weight.

**For rock drill rods and KSB® self-drilling anchors.**



# Hydroclamps



**HZ 100**



**HZ 180**



**Hydraulic Breaking Device**

<b>Weight</b>	kg	20	40	100
<b>Closing force</b>	kN	100	180	180
<b>Breaking torque</b>	kNm			30
<b>Clamping range Ø 116</b>	mm	25 – 116		
<b>Clamping range Ø 146</b>	mm	55 – 146	30 – 154	
<b>Clamping range Ø 181</b>	mm		90 – 181	60 – 180
<b>Use on drill feed</b>		90 / 91 / 92	91 / 92	(91) / 92

## Light and efficient

For blocking and breaking up drill rods and chuck tubes. The **Lumesa** HZ 100 & 180 are characterized by a very light (20 kg – 40 kg) operating weight. Optionally, a breaking device can also be installed. This is especially helpful when using an external casing.



**Double base for HBV plate**  
Support for hydraulic crusher



# Centerings

Accessories portable Mounty® Drill Feeds 90/91/92

## Combi guide



Article no.	Diameter	SW
901500.063	63	40, 50
901500.078	78	50, 55, 60, 70
901500.081	81	50, 55, 60, 70
901500.096	96	50, 55, 60, 70

Suitable for all drill feeds, except BL92 HBV.

## Tubex guide



Article no.	Diameter
901520.054	54
901520.064	64
901520.076	76
901520.084	84
901520.098	98
901520.113	113
901520.115	115
901520.129	129
901520.133	133
901520.140	140
901520.143	143
901520.152	152

Suitable for all drill feeds, except BL92 HBV.

## Rock drill rod guide



Article no.	Diameter
901500.025	25
901500.032	32
901500.038	38
901500.045	45

Suitable for all drill feeds, except BL92 HBV.

## Simple fixing plate



Article no.	BL90	BL91	BL92
901350	×		

## Double fixing plate



Article no.	BL90	BL91	BL92
901360	×		

## Wedge mounting plate



Article no.	BL90	BL91	BL92
901351	×		×*

\* without BL92H and BL92 HBV



# Fixing accessories

Accessories portable Mounty® Drill Feeds 90/91/92

## Mounty® Click

Base frame for transport and operation

Article no. BL90 BL91 BL92



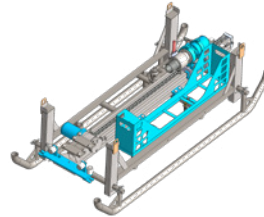
Article no.	BL90	BL91	BL92
	x	x	x*

\* without BL92 HBV

## Mounty® Click

Base frame with skid for transport and operation

Article no. BL90 BL91 BL92

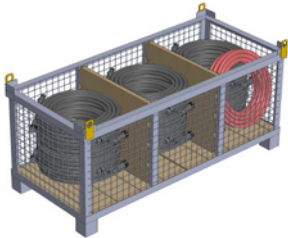


Article no.	BL90	BL91	BL92
	x	x	x*

\* without BL92 HBV

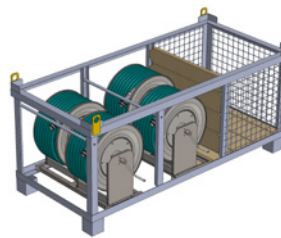
## Mounty® Click – material container

Article no.



## Mounty® Click – drum container

Article no.



## Sliding scaffold plate

Article no. BL90 BL91 BL92



Article no.	BL90	BL91	BL92
901530.01	x		

## Simple scaffolding plate to be fixed to the tube

Article no. BL90 BL91 BL92



Article no.	BL90	BL91	BL92
911650		x	
921670			x

## Scaffolding plate to be fixed to the tube

Article no. BL90 BL91 BL92



Article no.	BL90	BL91	BL92
911660		x	
921680			x

## Buckling plate to be fixed with dowels

Article no. BL90 BL91 BL92



Article no.	BL90	BL91	BL92
901352	x	x	x

## Rack back stay

Article no. L Hub



Article no.	L	Hub
SM 5490	1800	1200
SM 5490	2800	1200

## Back stay support for rack back stay

Article no. BL90 BL91 BL92



Article no.	BL90	BL91	BL92
911640		x	
921660			x

# Special accessories

## Dust collector MOUNTY® E900H

### E900H

<b>Weight</b>	kg	140
<b>Oil requirement</b>	l/min	25
<b>Oil pressure</b>	bar	80÷100
<b>Dimensions</b>	mm	510 × 520 H = 1'716
<b>Drill pipe max.</b>	mm	∅ 60
<b>Air quantity max.</b>	m <sup>3</sup> /min	10
<b>Air hose max.</b>	m	20
<b>Filter surface</b>	m <sup>2</sup>	7.2



### Required powerpack to operate with E900H

Drive	KSD91	KSD93F	KSE91	KSE92
<b>Down-the-hole hammers</b>	additional PP (KSD91)	ideal	additional PP (KSD91)	ideal
<b>UBH90</b>	additional PP (KSD91)	ideal	additional PP (KSD91)	ideal
<b>HBH91</b>		additional PP (KSD91)		
<b>Eurodrill</b>		additional PP (KSD91)		

The dust collector MOUNTY® E900H is designed for use in rock drilling to reduce the high level of dust formation. The reduction of pollution and consequently the request of health is achieved by the E900H. Typical application is the usage for rock drilling or blast holes with air flushing. The filter cleaning is guaranteed by backwashing.

Other models on request.



# Special accessories

Hydraulic casing pulling units



**HZV 15-400**

**HZV 18-400**

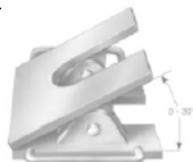
**HZV 22-800**

*Light and efficient*

To extract the casing tubes

<b>Pulling force</b>	<i>kN</i>	400		800
	<i>bar</i>			250
<b>Total weight</b>	<i>kg</i>	165	168	365
<b>Base plate</b>	<i>kg</i>	40	38	95
<b>Pulling cylinder</b>	<i>kg</i>	75	75	150
<b>Pulling unit with wedges</b>	<i>kg</i>	50	55	120
<b>Feed</b>	<i>mm</i>		250	
<b>Diameter</b>	<i>mm</i>	63÷159	145÷185	168÷219

- 1. Base plate
- 2. Pulling cylinder / pulling force 400 kN / 250 bar
- 3. Pulling unit with insert
- 4. Pulling slip
  - Ø 113 mm
  - Ø 143 mm
  - Ø 152 mm
  - Ø 170 mm
  - Ø 176 mm



1



2



3



4



# Universal Mounting Plate

For Drill Feeds Type 91 H and 92 H



## Hydraulic rotary head

### UAP 90

### UAP 91

### UAP 92

<b>Weight</b>	kg	190	280	370
<b>Swivel moment</b>	Nm	2'700	4'500	6'800
<b>Holding moment</b>	Nm	5'400	9'000	13'600

## With treadle rollover

<b>Swivel element</b>		± 90°	± 90°	± 90°
<b>Rollover</b>		360°	360°	360°
<b>Pullout cylinder</b>	mm	200–1'000	200–1'000	200–1'000

For use from various types of equipment, simple base plate matched to carrier equipment. For use in the calotte area, the drill feed can be turned 180° in a few easy steps thanks to the sliding rails on the rear.

The control can be either manual or with a radio control.



## Point (Shoe)



Article no.	BL90	BL91	BL92
901630	x	x	
921640			x*

\* without BL92 HBV

## Point (Rail)



Article no.	BL90	BL91	BL92
911630		x	
921650			x*

\* without BL92 HBV



Mounty® H 92 S, diameter 216 mm, length 40 m, test drilling by the dam Illsee, Leuk, Switzerland

*Lumesa Drilling Attachment*



***LDA Excavator  
mounted drill feeds***

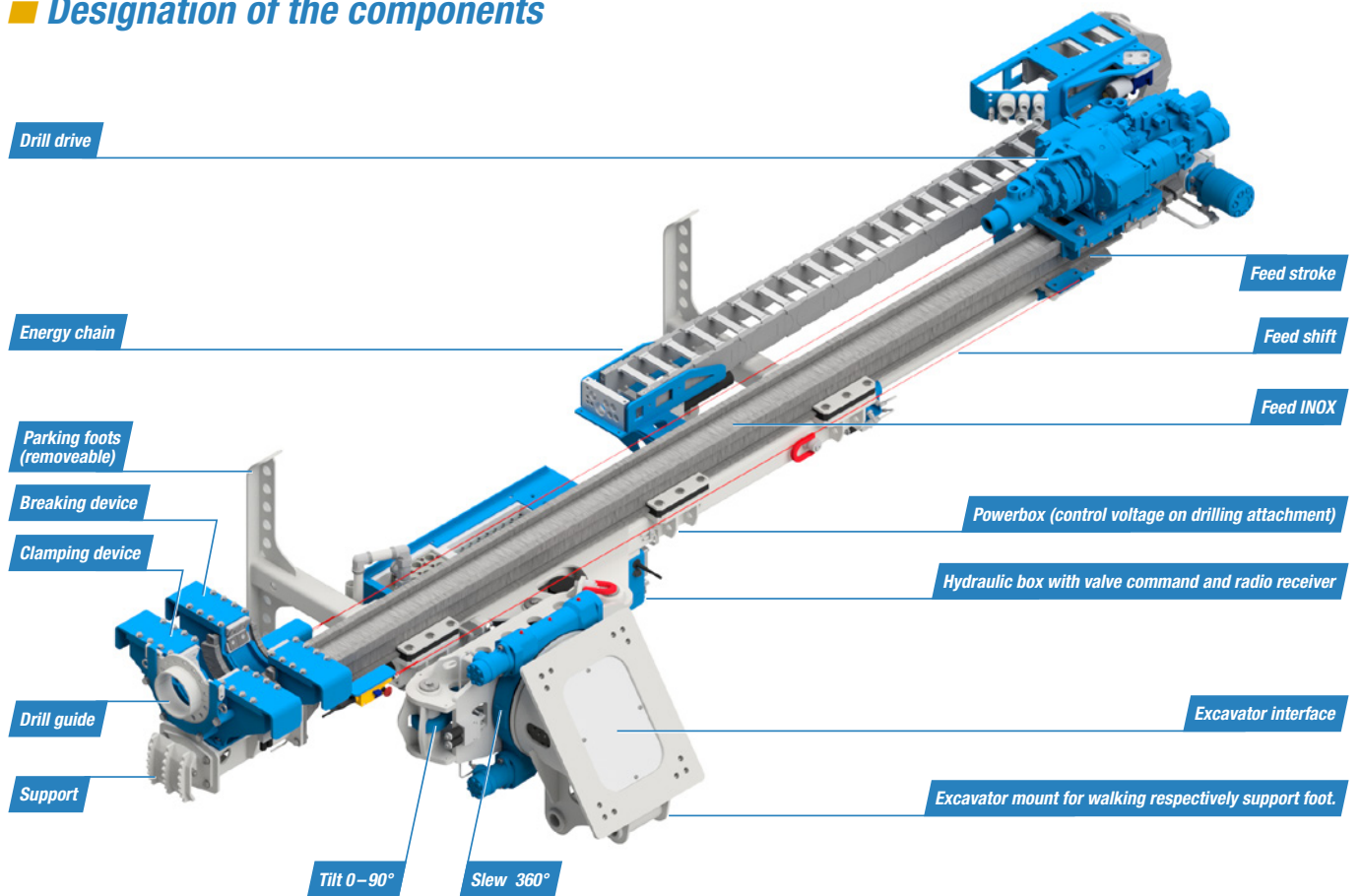
**Lumesa**  
■ Drilling Technology

# LDA Excavator mounted drill feeds

## Lumesa Drilling Attachment

Based on the standard system, **Lumesa** manufactures customized drilling attachments for every application. Using a checklist, precise customer briefing and professional advice, an exact requirement profile is created, which serves as the basis for the construction of the drilling attachment. The high level of flexibility enables efficient, individual system solutions for the respective needs and requirements on the construction site. No change in the excavator hydraulics is necessary. All drilling attachments are designed for operation with guards in accordance with DIN EN 16228-1.

### ■ Designation of the components

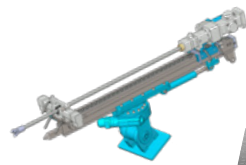


### ■ Drilling positions



# LDA Excavator mounted drill feeds

## Overview



INOX

LDA 91 MOUNTY®



INOX

LDA 91



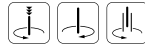
COMING SOON

NEW

INOX

LDA Flexi

### Specifications



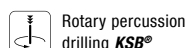
<b>Operating weight excavator t</b>		> 6	> 8	> 12
<b>Weight <sup>1</sup></b>	kg	550	770 / 1'150	1'000 / 1'150
<b>Oil requirement</b>	l/min / bar	60 / 200	120 / 230	120 / 230
<b>Feed/Pullback force</b>	kN	20 / 40	20	20
<b>Torque max.</b>	daNm	500	212	212
<b>Feed stroke</b>	mm	on request	3'300	2'800 + 500
<b>Dimensions (LxBxH)</b>	mm	on request	4'350 / 850 / 780	3'850 (4'350) / 1'050 / 1'700
<b>Drill feed profile</b>	BL	91 / 92	91	92
<b>Slew</b>	Degree	360	360	360
<b>Tilt</b>	Degree	±90	0 – 90	0 – 90
<b>Clamping device</b>		25 – 146	25 – 146	30 – 180
<b>Top hammer</b>	daNm	150	106 / 212	106 / 212
<b>Rotary head</b>	daNm	on request	on request	on request
<b>Double head</b>	daNm			

### Deliverable with

<b>Hydraulic control panel</b>		inclusive		
<b>Radio remote control</b>		optional	inclusive	
<b>Radio remote control with display</b>		optional	optional	inclusive
<b>Anti-jamming automatic</b>		optional	inclusive	inclusive
<b>Adjustable percussion mechanism</b>		inclusive	inclusive	inclusive
<b>Thread synchronization</b>		optional	on request	on request
<b>Tilt 0 – 90°</b>			optional	inclusive
<b>Breaking device</b>			on request	optional
<b>Drill guide</b>		optional	optional	optional
<b>Powerbox (control voltage)</b>		optional	optional	optional
<b>Lubrication pump drill drive</b>		optional	optional	optional
<b>Rotary union</b>			on request	on request
<b>Walking foot with swamp plate</b>		optional	optional	optional
<b>Dust collector</b>		optional	on request	on request
<b>Rod handler</b>			on request	
<b>Cable winch</b>			on request	

<b>Blast hole / Rock drilling</b>	ø mm	33	45	57	76	89	33	45	57	76	89	33	45	57	76	89
<b>KSB® Anchor drilling</b>	ø anchor	R32	R38	R51	T76	T114	R32	R38	R51	T76	T114	R32	R38	R51	T76	T114
<b>Rotary-/Down-the-hole (DTH) drilling</b>	ø mm	70	90	140	178	250	70	90	140	178	250	70	90	140	178	250
<b>Cased drilling</b>	ø mm	114	139	168	178	219	114	139	168	178	219	114	139	168	178	219
<b>Core drilling</b>	ø mm	100	131	146	200	254										
<b>Injection port</b>	inch			3/8"						1"						1"

1. Without safety device according to standard EN16228



Rotary percussion drilling **KSB®**



Rotating unpiped

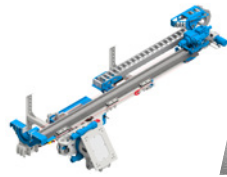


Rotating piped



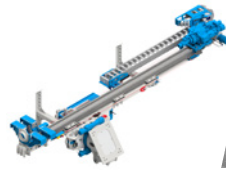
Rotary impact with damping system





INOX

LDA 92



INOX

LDA 92P



NEW

INOX

LDA 92P DH

Specifications



<b>Operating weight excavator t</b>		> 12	> 16	> 18
<b>Weight <sup>1</sup></b>	kg	1'375 / 1'500	1'550 / 1'750	1'850 / 2'050
<b>Oil requirement</b>	l/min / bar	120 / 230	165 / 230	170 / 230
<b>Feed/Pullback force</b>	kN	40	40	40
<b>Torque max.</b>	daNm	212	500	500
<b>Feed stroke</b>	mm	3'540	3'540	3'540
<b>Dimensions (LxBxH)</b>	mm	4'675 / 990 / 1'700	4'900 / 1'050 / 1'700	4'900 / 1'050 / 1'700
<b>Drill feed profile</b>	BL	92	92	92
<b>Slew</b>	Degree	360	360	360
<b>Tilt</b>	Degree	0 – 90	0 – 90	0 – 90
<b>Clamping device</b>		30 – 180	30 – 180	30 – 180
<b>Top hammer</b>	daNm	106 / 212	250 / 500	
<b>Rotary head</b>	daNm	on request	on request	
<b>Double head</b>	daNm			500 / 250

Deliverable with

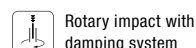
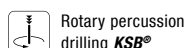
Hydraulic control panel

Radio remote control

<b>Radio remote control with display</b>		inclusive	inclusive	inclusive
<b>Anti-jamming automatic</b>		inclusive	inclusive	inclusive
<b>Adjustable percussion mechanism</b>		inclusive	inclusive	
<b>Thread synchronization</b>		on request	on request	on request
<b>Tilt 0 – 90°</b>		inclusive	inclusive	inclusive
<b>Breaking device</b>		optional	optional	inclusive
<b>Drill guide</b>		optional	optional	optional
<b>Powerbox (control voltage)</b>		optional	optional	optional
<b>Lubrication pump drill drive</b>		optional	optional	optional
<b>Rotary union</b>		on request	on request	on request
<b>Walking foot with swamp plate</b>		optional	optional	optional
<b>Dust collector</b>		on request	on request	
<b>Rod handler</b>		on request	on request	
<b>Cable winch</b>		optional	optional	optional

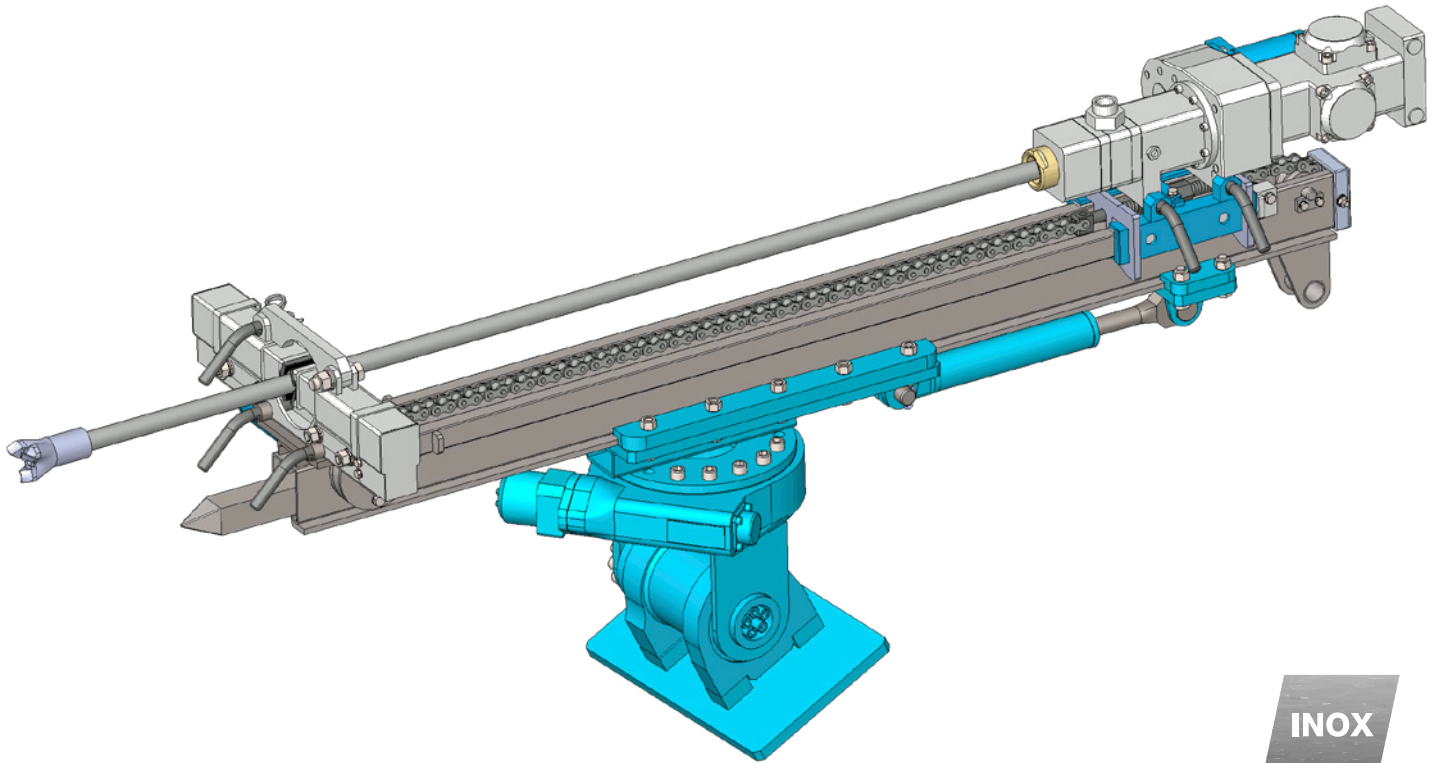
<b>Blast hole / Rock drilling</b>	ø mm	33	45	57	76	89	33	45	57	76	89
<b>KSB® Anchor drilling</b>	ø anchor	R32	R38	R51	T76	T114	R32	R38	R51	T76	T114
<b>Rotary-/Down-the-hole (DTH) drilling</b>	ø mm	70	90	140	178	250	70	90	140	178	250
<b>Cased drilling</b>	ø mm	114	133	152	178	219	114	133	152	178	219
<b>Core drilling</b>	ø mm										
<b>Injection port</b>	inch	1"			1"			1"			

1. Without safety device according to standard EN16228



# LDA 91 Mounty®

Lumesa Drilling Attachment



INOX

Portable drill feed mounted on excavator; in the standard version it can be aligned at any angle thanks due to tilt and swivel element. Like the standard version, it can be used with a down-the-hole hammer, top hammer or core drill.

Can be easily disassembled and used as a portable drilling unit.



## Technical specifications

INOX

### LDA 91 Mounty®

#### Specifications



<b>Operating weight excavator t</b>		> 6
<b>Weight 1</b>	kg	550
<b>Oil requirement</b>	l/min / bar	60 / 200
<b>Feed/Pullback force</b>	kN	20 / 40
<b>Torque max.</b>	daNm	500
<b>Feed stroke</b>	mm	on request
<b>Dimensions (LxBxH)</b>	mm	on request
<b>Drill feed profile</b>	BL	91 / 92
<b>Slew</b>	Degree	360
<b>Tilt</b>	Degree	±90
<b>Clamping device</b>		25 – 146
<b>Top hammer</b>	daNm	150
<b>Rotary head</b>	daNm	on request
<b>Double head</b>	daNm	

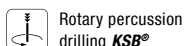
#### Deliverable with

<b>Hydraulic control panel</b>	<b>inclusive</b>
<b>Radio remote control</b>	optional
<b>Radio remote control with display</b>	optional
<b>Anti-jamming automatic</b>	optional
<b>Adjustable percussion mechanism</b>	<b>inclusive</b>
<b>Thread synchronization</b>	optional
<b>Tilt 0 – 90°</b>	
<b>Breaking device</b>	
<b>Drill guide</b>	optional
<b>Powerbox (control voltage)</b>	optional
<b>Lubrication pump drill drive</b>	optional
<b>Rotary union</b>	
<b>Walking foot with swamp plate</b>	optional
<b>Dust collector</b>	optional
<b>Rod handler</b>	
<b>Cable winch</b>	

#### Drilling methods

	Application ideal	Application conditionally possible				
<b>Blast hole / Rock drilling</b>	ø mm	33	45	57	76	89
<b>KSB® Anchor drilling</b>	ø anchor	R32	R38	R51	T76	T114
<b>Rotary-/Down-the-hole (DTH) drilling</b>	ø mm	70	90	140	178	250
<b>Cased drilling</b>	ø mm	114	139	168	178	219
<b>Core drilling</b>	ø mm	100	131	146	200	254
<b>Injection port</b>	inch			3/8"		

1. Without safety device according to standard EN16228



Rotary percussion drilling **KSB®**



Rotating unpiped

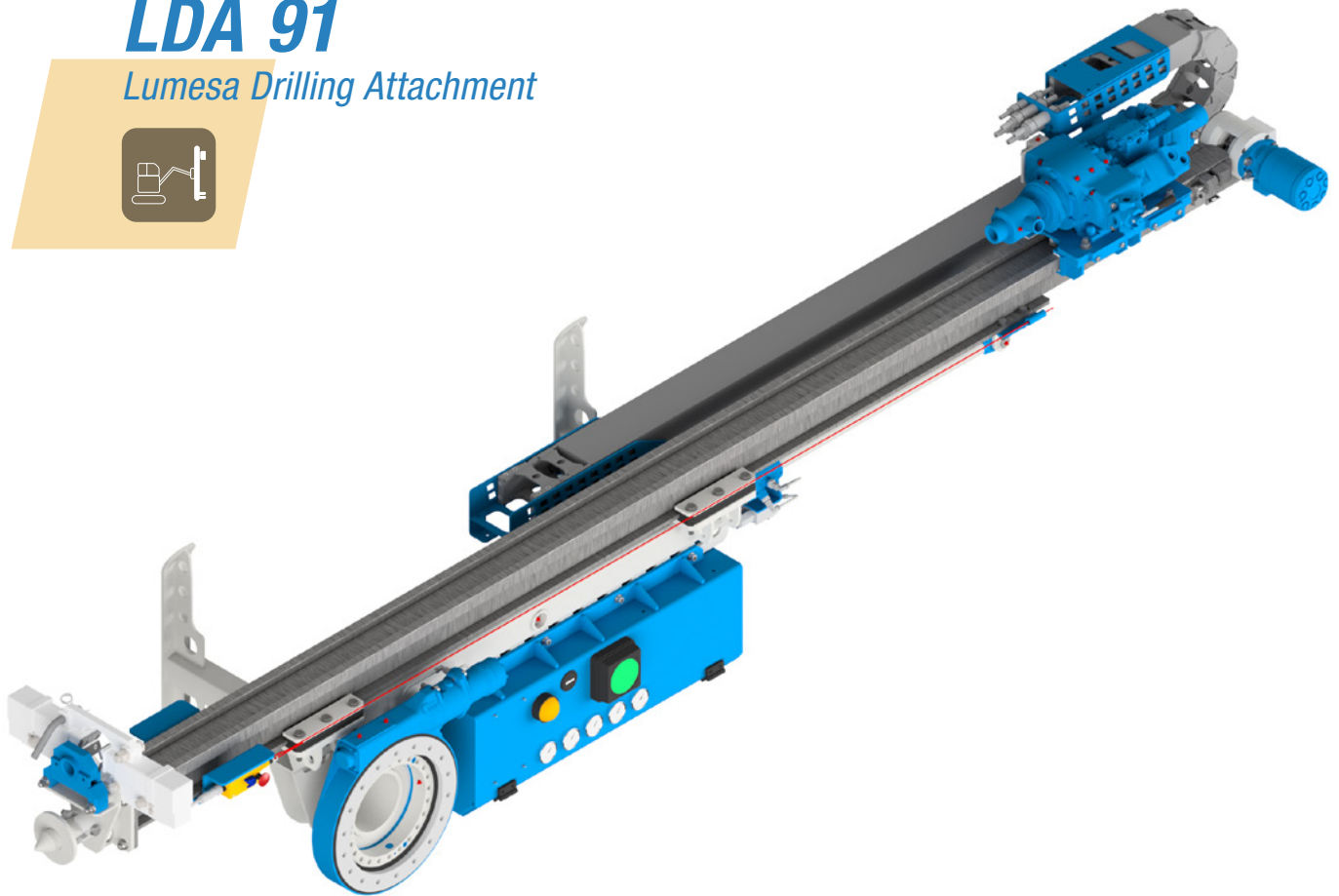


Rotating piped



# LDA 91

## Lumesa Drilling Attachment



### Lightweight, powerful and modular drilling attachment

Drilling attachment for excavators from 8t with the latest technology. Maximum mobility with 360° slew and 1000 mm feed shift as well as an optional 0–90° tilt module. The drilling attachment is mounted to the excavator without tools using a quick coupler. The compact hydraulic box for valve command and radio receiver is located on the feed holder. The drilling attachment is fully radio-controlled. An optional powerbox supplies the required control voltage directly to the drilling attachment, no supply via the excavator is required.

Optionally, a walking foot can be mounted for use on a walking excavator (spider excavator).

INOX

### Best for

- Self-drilling anchors (**KSB**® R 32, R 38, R 51) up to max D 100mm drill holes.
- Blast hole rock drilling
- Working on the walking excavator



## Technical specifications

INOX

LDA 91



### Specifications

Operating weight excavator t		> 8
Weight <sup>1</sup>	kg	770 / 1'150
Oil requirement	l/min / bar	120 / 230
Feed/Pullback force	kN	20
Torque max.	daNm	212
Feed stroke	mm	3'300
Dimensions (LxBxH)	mm	4'350 / 850 / 780
Drill feed profile	BL	91
Slew	Degree	360
Tilt	Degree	0 – 90
Clamping device		25 – 146
Top hammer	daNm	106 / 212
Rotary head	daNm	on request
Double head	daNm	

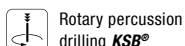
### Deliverable with

Hydraulic control panel	
Radio remote control	<b>inclusive</b>
Radio remote control with display	optional
Anti-jamming automatic	<b>inclusive</b>
Adjustable percussion mechanism	<b>inclusive</b>
Thread synchronization	on request
Tilt 0–90°	optional
Breaking device	on request
Drill guide	optional
Powerbox (control voltage)	optional
Lubrication pump drill drive	optional
Rotary union	on request
Walking foot with swamp plate	optional
Dust collector	on request
Rod handler	on request
Cable winch	on request

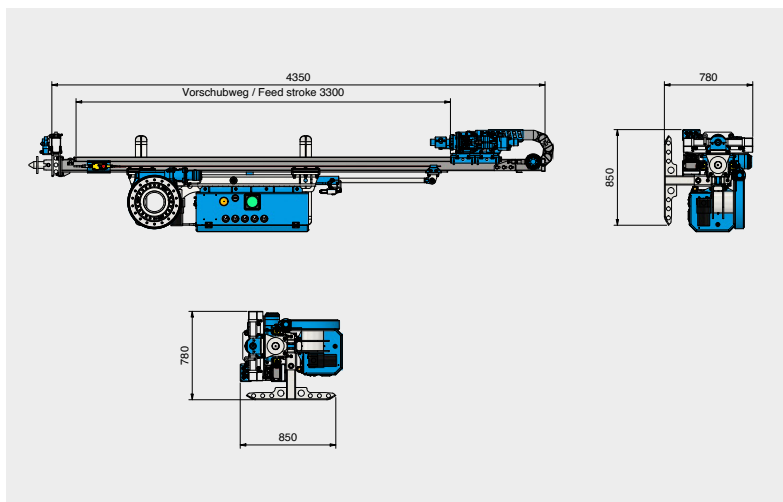
### Drilling methods

	Application ideal	Application conditionally possible				
Blast hole / Rock drilling	ø mm	33	45	57	76	89
KSB® Anchor drilling	ø anchor	R32	R38	R51	T76	T114
Rotary-/Down-the-hole (DTH) drilling	ø mm	70	90	140	178	250
Cased drilling	ø mm	114	139	168	178	219
Core drilling	ø mm					
Injection port	inch			1"		

1. Without safety device according to standard EN16228

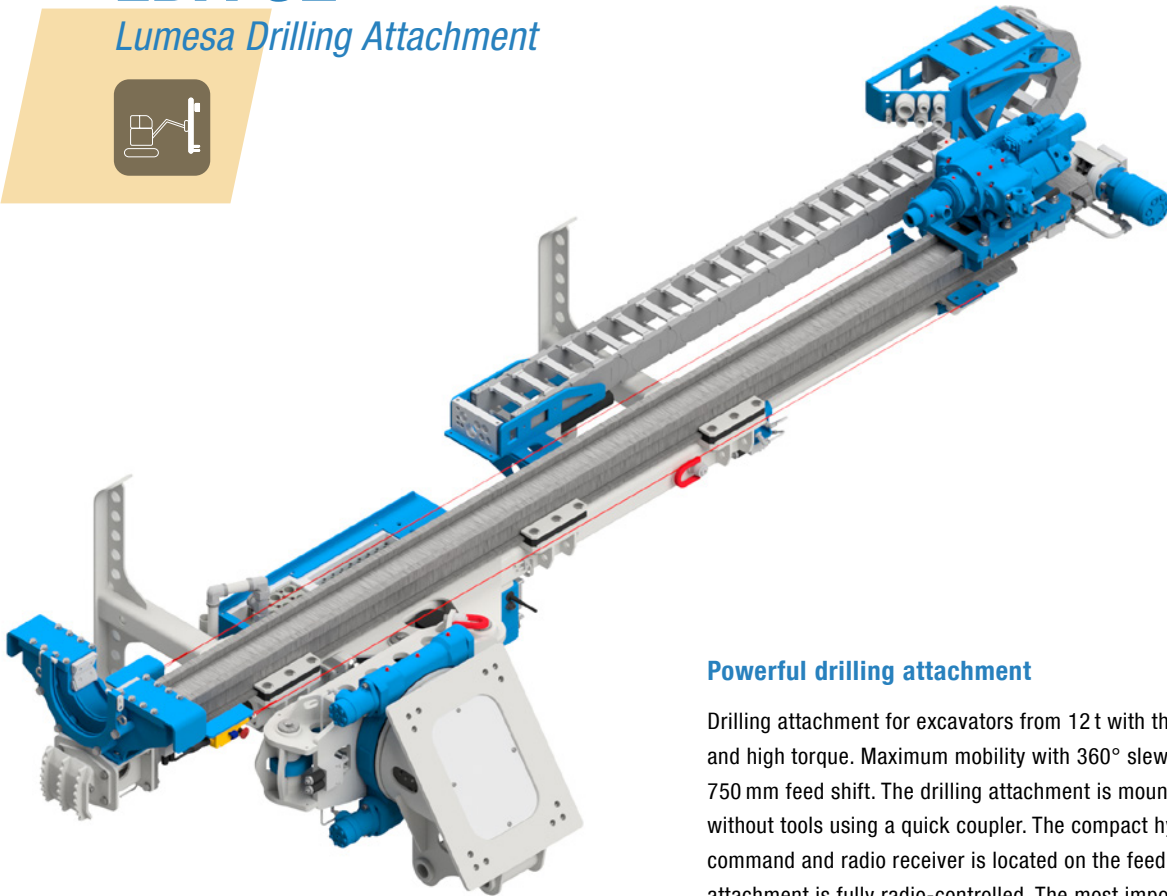


## System drawing



# LDA 92

## Lumesa Drilling Attachment



INOX

### Powerful drilling attachment

Drilling attachment for excavators from 12 t with the latest technology and high torque. Maximum mobility with 360° slew, 0–90° tilt and 750 mm feed shift. The drilling attachment is mounted to the excavator without tools using a quick coupler. The compact hydraulic box for valve command and radio receiver is located on the feed holder. The drilling attachment is fully radio-controlled. The most important drilling parameters are shown on a digital display on the radio remote control. An optional powerbox supplies the required control voltage directly to the drilling attachment, no supply via the excavator is required.

Optionally, a walking foot can be mounted for use on a walking excavator (spider excavator). An optional breaking device also enables cased drilling. Conversion to LDA 92P is possible at any time.

### Best suited for:

- Self-drilling anchors (*KSB*® R 32, R 38, R 51, T 76) up to max D 100 mm drill holes.
- Blast hole rock drilling
- Cased drilling
- Working on the walking excavator



## Technical specifications

INOX

LDA 92



### Specifications

<b>Operating weight excavator t</b>		> 12
<b>Weight <sup>1</sup></b>	kg	1'375 / 1'500
<b>Oil requirement</b>	l/min / bar	120 / 230
<b>Feed/Pullback force</b>	kN	40
<b>Torque max.</b>	daNm	212
<b>Feed stroke</b>	mm	3'540
<b>Dimensions (LxBxH)</b>	mm	4'675 / 990 / 1'700
<b>Drill feed profile</b>	BL	92
<b>Slew</b>	Degree	360
<b>Tilt</b>	Degree	0–90
<b>Clamping device</b>	mm	30–180
<b>Top hammer</b>	daNm	106 / 212
<b>Rotary head</b>	daNm	on request
<b>Double head</b>	daNm	

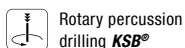
### Deliverable with

<b>Hydraulic control panel</b>	
<b>Radio remote control</b>	
<b>Radio remote control with display</b>	<b>inclusive</b>
<b>Anti-jamming automatic</b>	<b>inclusive</b>
<b>Adjustable percussion mechanism</b>	<b>inclusive</b>
<b>Thread synchronization</b>	on request
<b>Tilt 0–90°</b>	<b>inclusive</b>
<b>Breaking device</b>	optional
<b>Drill guide</b>	optional
<b>Powerbox (control voltage)</b>	optional
<b>Lubrication pump drill drive</b>	optional
<b>Rotary union</b>	on request
<b>Walking foot with swamp plate</b>	optional
<b>Dust collector</b>	on request
<b>Rod handler</b>	on request
<b>Cable winch</b>	optional

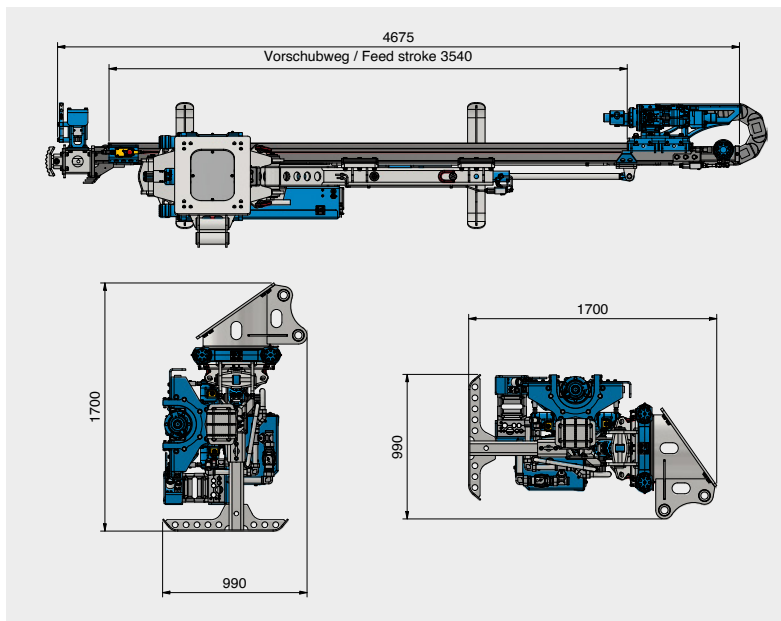
### Drilling methods

	Application ideal	Application conditionally possible				
<b>Blast hole / Rock drilling</b>	ø mm	33	45	57	76	89
<b>KSB® Anchor drilling</b>	ø anchor	R32	R38	R51	T76	T114
<b>Rotary-/Down-the-hole (DTH) drilling</b>	ø mm	70	90	140	178	250
<b>Cased drilling</b>	ø mm	114	133	152	178	219
<b>Core drilling</b>	ø mm					
<b>Injection port</b>	inch			1"		

1. Without safety device according to standard EN16228



## System drawing



# LDA 92P

## Lumesa Drilling Attachment



INOX

### High-power drilling attachment

Drilling Attachment for excavators from 16t with the latest technology and very high torque in combination with heavy pullback force. Maximum mobility with 360° slew, 0-90° tilt and 750 mm feed shift. The drilling attachment is mounted to the excavator without tools using a quick coupler. The compact hydraulic box for valve command and radio receiver is located on the feed holder. The drilling attachment is fully radio-controlled. The most important drilling parameters are shown on a digital display on the radio remote control. The drilling angle display as well as automatic anti-jamming (AFA) and gear shift make working with this drilling attachment even more efficient. An optional powerbox supplies the required control voltage directly to the drilling attachment, no supply via the excavator is required.

Optionally, a walking foot can be mounted for use on a walking excavator (spider excavator). An optional breaking device also enables cased drilling. Conversion to LDA 92P DH (double head) is possible at any time.

### Best suited for:

- Self-drilling anchors (*KSB*® R 32, R 38, R 51, T 76) up to max D 100 mm drill holes.
- Blast hole rock drilling
- Cased drilling
- Working on the walking excavator





## Technical specifications

INOX

### LDA 92P

#### Specifications



<b>Operating weight excavator t</b>		> 16
<b>Weight <sup>1</sup></b>	kg	1'550 / 1'750
<b>Oil requirement</b>	l/min / bar	165 / 230
<b>Feed/Pullback force</b>	kN	40
<b>Torque max.</b>	daNm	500
<b>Feed stroke</b>	mm	3'540
<b>Dimensions (LxBxH)</b>	mm	4'900 / 1'050 / 1'700
<b>Drill feed profile</b>	BL	92
<b>Slew</b>	Degree	360
<b>Tilt</b>	Degree	0–90
<b>Clamping device</b>	mm	30–180
<b>Top hammer</b>	daNm	250 / 500
<b>Rotary head</b>	daNm	on request
<b>Double head</b>	daNm	

#### Deliverable with

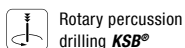
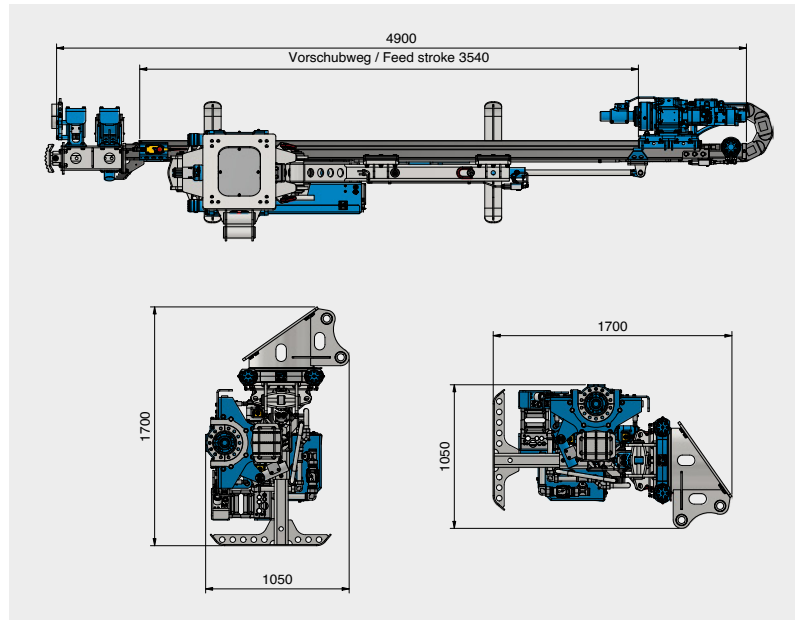
<b>Hydraulic control panel</b>	
<b>Radio remote control</b>	
<b>Radio remote control with display</b>	<b>inclusive</b>
<b>Anti-jamming automatic</b>	<b>inclusive</b>
<b>Adjustable percussion mechanism</b>	<b>inclusive</b>
<b>Thread synchronization</b>	on request
<b>Tilt 0–90°</b>	<b>inclusive</b>
<b>Breaking device</b>	optional
<b>Drill guide</b>	optional
<b>Powerbox (control voltage)</b>	optional
<b>Lubrication pump drill drive</b>	optional
<b>Rotary union</b>	on request
<b>Walking foot with swamp plate</b>	optional
<b>Dust collector</b>	on request
<b>Rod handler</b>	on request
<b>Cable winch</b>	optional

#### Drilling methods Application ideal Application conditionally possible

Drilling method	ø mm	33	45	57	76	89
<b>Blast hole / Rock drilling</b>	ø mm					
<b>KSB® Anchor drilling</b>	ø anchor	R32	R38	R51	T76	T114
<b>Rotary-/Down-the-hole (DTH) drilling</b>	ø mm	70	90	140	178	250
<b>Cased drilling</b>	ø mm	114	133	152	178	219
<b>Core drilling</b>	ø mm					
<b>Injection port</b>	inch			1"		

1. Without safety device according to standard EN16228

## System drawing



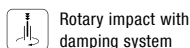
Rotary percussion drilling **KSB®**



Rotating unpiped



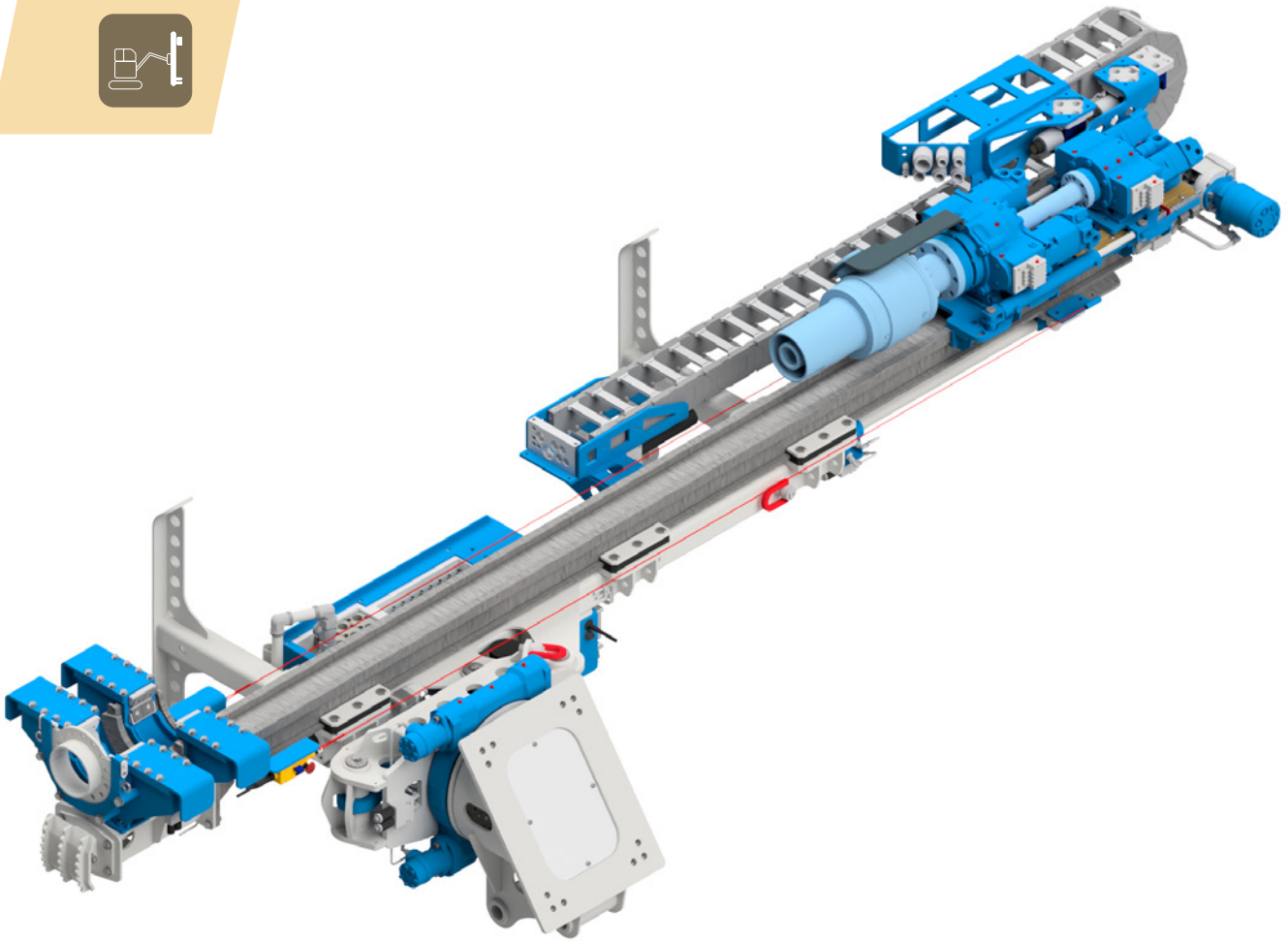
Rotating piped



Rotary impact with damping system

# LDA 92P DH

Lumesa Drilling Attachment



## High-power drilling attachment specially for cased drilling (overburden drilling)

INOX

Drilling Attachment for excavators from 18t with the latest technology and very high torque in combination with heavy pullback force. Maximum mobility with 360° slew, 0-90° tilt and 750 mm feed shift. The special feed carriage enables an axial displacement of the drill drives of 300 mm. The drilling attachment is mounted to the excavator without tools using a quick coupler. The compact hydraulic box for valve command and radio receiver is located on the feed holder. The drilling attachment is fully radio-controlled. The most important drilling parameters are shown on a digital display on the radio remote control. The drilling angle display as well as automatic anti-jamming (AFA) and gear shift make working with this drilling attachment even more efficient. An optional powerbox supplies the required control voltage directly to the drilling attachment, no supply via the excavator is required.

Optionally, a walking foot can be mounted for use on a walking excavator (spider excavator). A cable winch can be installed as an option. Conversion to LDA 92P (hydraulic hammer) is possible at any time.

### Best for:

- Cased drilling (rotary-rotary)
- Work on the walking excavator (spider excavator)

## Technical specifications

INOX NEW

### LDA 92P DH

#### Specifications



<b>Operating weight excavator t</b>		> 18
<b>Weight <sup>1</sup></b>	kg	1'850 / 2'050
<b>Oil requirement</b>	l/min / bar	170 / 230
<b>Feed/Pullback force</b>	kN	40
<b>Torque max.</b>	daNm	500
<b>Feed stroke</b>	mm	3'540
<b>Dimensions (LxBxH)</b>	mm	4'900 / 1'050 / 1'700
<b>Drill feed profile</b>	BL	92
<b>Slew</b>	Degree	360
<b>Tilt</b>	Degree	0 – 90
<b>Clamping device</b>	mm	30 – 180
<b>Top hammer</b>	daNm	
<b>Rotary head</b>	daNm	
<b>Double head</b>	daNm	500 / 250

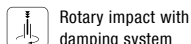
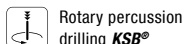
#### Deliverable with

<b>Hydraulic control panel</b>	
<b>Radio remote control</b>	
<b>Radio remote control with display</b>	<b>inclusive</b>
<b>Anti-jamming automatic</b>	<b>inclusive</b>
<b>Adjustable percussion mechanism</b>	
<b>Thread synchronization</b>	on request
<b>Tilt 0–90°</b>	<b>inclusive</b>
<b>Breaking device</b>	<b>inclusive</b>
<b>Drill guide</b>	optional
<b>Powerbox (control voltage)</b>	optional
<b>Lubrication pump drill drive</b>	optional
<b>Rotary union</b>	on request
<b>Walking foot with swamp plate</b>	optional
<b>Dust collector</b>	
<b>Rod handler</b>	
<b>Cable winch</b>	optional

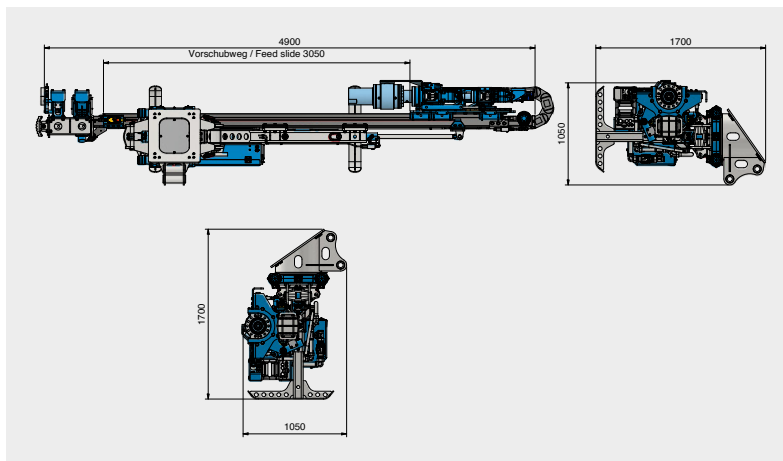
#### Drilling methods Application ideal Application conditionally possible

<b>Blast hole / Rock drilling</b>	ø mm				
<b>KSB® Anchor drilling</b>	ø anchor				
<b>Rotary-/Down-the-hole (DTH) drilling</b>	ø mm				
<b>Cased drilling</b>	ø mm	114	133	152	178 219
<b>Core drilling</b>	ø mm				
<b>Injection port</b>	inch				1"

1. Without safety device according to standard EN16228



## System drawing



# Top Hammers

Lumesa Universal Drill Hammer



**UBH90**



**HBH91**



Drive		pneumatisch / hydraulisch	hydraulisch
Weight	kg	55	76
Torque max.	daNm	71 / 103	71 / 103 / 150
Speed max.	rpm	200 / 140	200 / 140 / 70
Impact frequency max.	1/min	2'500	2'500 ÷ 4'500
Impact energy/power	Nm (KW)	205	157
Air requirement	m <sup>3</sup> /min bar	4 @ 6	
Oil requirement	l/min bar	20 ÷ 40 / 175	45 ÷ 90 @ 175
Insertion end	Typ R	R25, R32, R38, R51	R25, R32, R38, R51
	Typ IB	30, 40, 52	30, 40, 52
Suitable for drill feeds	Typ	90 / 91 / 92	91 / 92



pneumatic drive



hydraulic drive



Rotary percussion drilling **KSB®**

## UBH90 (hydraulic / pneumatic)

Lightweight and dynamic high performance top hammer, pneumatic percussion and hydraulic rotation. Can be supplied with different torques.

**For rock drill rods and KSB® self-drilling anchors.**

## HBH91 (hydraulic)

Hydraulic drilling machine with high frequency, fully hydraulic. Can be supplied with different torques. Excellent ratio between power and weight.

**For rock drill rods and KSB® self-drilling anchors.**



# Top Hammers

Eurodrill



**RH 1X**

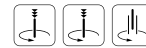
**RH 2X**

**RH 3X**

**RH 4X**

**RH 5X**

**RH 10X**



**HD RD**

**20 15**

**20 15**

**20 40**

**20**

Drive		hydraulic	hydraulic	hydraulic	hydraulic	hydraulic	hydraulic
<b>Weight</b>	kg	80	95	165	200	350	410
<b>Torque max.</b>	daNm	106	212	250	500	550	1'100
<b>Speed max.</b>	rpm	292	364	270	360	212	214
<b>Frequency</b>	rpm	3'000	3'000 4'000	2'500 4'500	2'500 4'500	2'500 2'400	2'500
<b>Impact energy / power</b>	Nm (KW)	180	180	320	320	320	320
<b>Oil requirement</b>	l/min P	75@200bar	75@200bar	115@200bar	140@200bar	190@200bar	220@200bar
<b>Conversion to rotary actuator X-series possible</b>				Yes	Yes	Yes	Yes
<b>Shaft</b>	Typ R	32 / 38	32 / 38 / 51	32 / 38 / 51	32 / 38 / 51 / 76	32 / 38 / 51 / 76	32 / 38 / 51 / 76 / 114
<b>Situated for drill feed</b>	Typ	91 / 92	91 / 92	92	92	(92)	(92)
<b>Recommended generators</b>	Typ	KSD 93 F	KSD 93 F	KSD 93 F	(KSD 93 F)		



Rotary percussion drilling **KSB®**



Rotating unpip



Rotating piped

EURODRILL is a hydraulically operated high-performance drive for high demands.



**X-Factor - flexible options with the same basic gearbox**

**ROTATING FLOATING SPINDLE BEATING**

1 Grundgetriebe  
3 Optionen

**Option 1**  
Rotating drive

**Option 2**  
Rotary drive with floating spindle

**Option 3**  
Drive percussive

# Rotary Heads

High-speed and normal runners



NL1



NL3 / SL16 / SL11

		NL1	NL3	SL16	SL11
<b>Drive</b>		hydraulic	hydraulic	hydraulic	hydraulic
<b>Weight</b>	kg	85	33	22	30
<b>Torque max.</b>	daNm	725	140	22	80
<b>Speed max.</b>	rpm	35	100	1'075	310
<b>Air requirement</b>	m <sup>3</sup> /min				
<b>Oil requirement</b>	l/min	86 @ 200	46 @ 200	86 @ 200	86 @ 200
<b>Oil requirement per revolution</b>	cm <sup>3</sup>	2'450	470	80	280
<b>Transmission ratio</b>		5.17	1	1	1
<b>Shaft</b>		API 2 3/8 IG	Rd50 AG / API 2 3/8 IG		
<b>Flushing head</b>		G 1 1/4 (Rd46)			
<b>Suitable for drill feeds</b>		92	92 / 91 / 90	92 / 91 / 90	92 / 91 / 90

## Rotary Heads NL

Standard version, including a highly efficient flushing head that can be used with air, water and mortar. Available in various sizes (torque).

Ideal for down-the-hole hammers with casing tubes and **Lumetrix** eccentric core bits for casing drilling.

## Rotary Heads SL

High rotation version, including flushing head. Available in different sizes (U/min)

Suitable for diamond core drilling



# Accessories

**Powerbox (control voltage)**



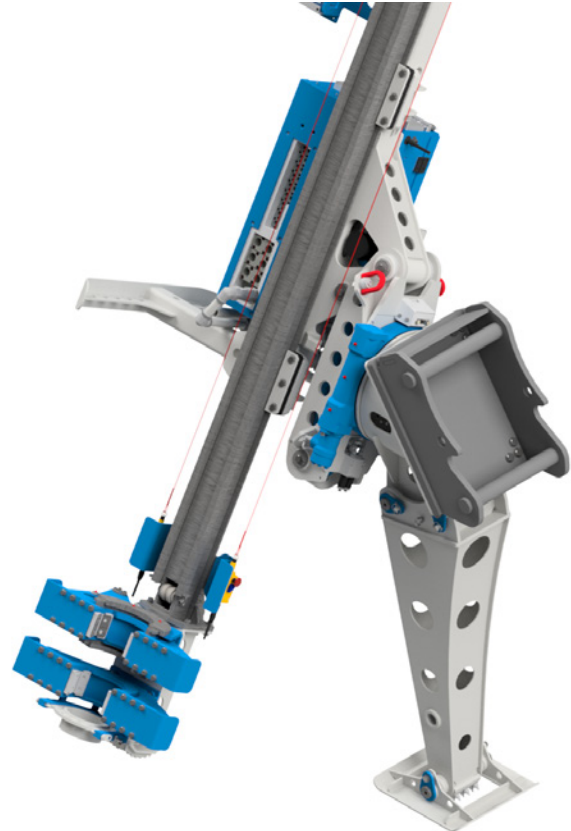
**Cable winch** mounted to the underside of the drill feed



**Dust collector**



**Walking foot** easy to remove



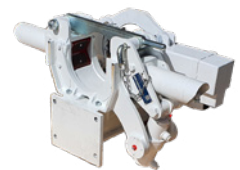
# Hydroclamps



**HZ 100**



**HZ 180**



**Hydraulic Breaking Device**

<b>Weight</b>	kg	20	40	100
<b>Closing force</b>	kN	100	180	180
<b>Breaking torque</b>	kNm			30
<b>Clamping range Ø 116</b>	mm	25 – 116		
<b>Clamping range Ø 146</b>	mm	55 – 146	30 – 154	
<b>Clamping range Ø 181</b>	mm		90 – 181	60 – 180
<b>Use on drill feed</b>		90 / 91 / 92	91 / 92	(91) / 92

## Light and efficient

For blocking and breaking up drill rods and chuck tubes. The **Lumesa** HZ 100 & 180 are characterized by a very light (20 kg – 40 kg) operating weight. Optionally, a breaking device can also be installed. This is especially helpful when using an external casing.



**Double base for HBV plate**  
Support for hydraulic crusher





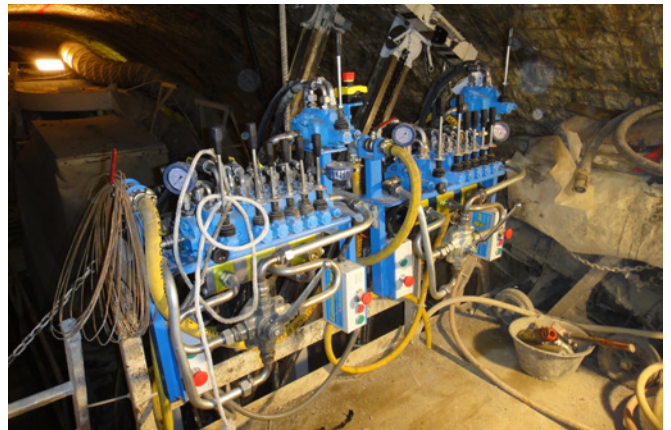
# Special Solutions

## Our experience for your projects

Our expertise is available to you as well, without any restrictions or obligations. Benefit from our experience and discuss your civil engineering task with our specialists! We will be eager to advise you.

## Special tasks call for special solutions

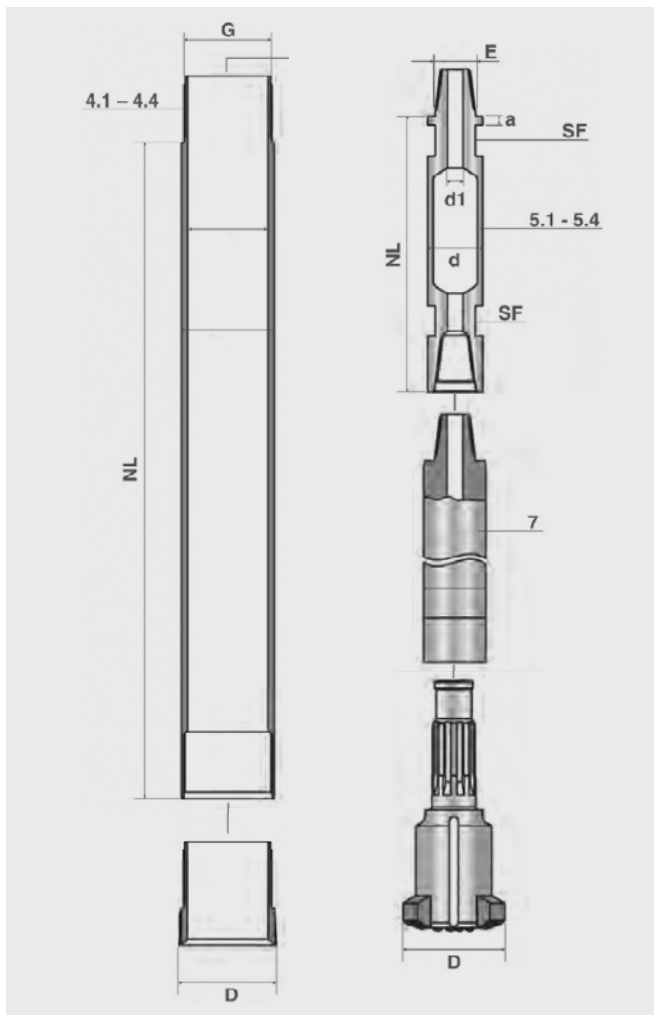
Do you have a special civil engineering task for which there has been no solution so far? We are happy to take on the challenge.



# Drilling Tools

## Lumetrix (Cased Drilling)

		Lumetrix 90	Lumetrix 115	Lumetrix 140
Drilling diameter	mm	125 / 91	152 / 114	185
Down-the-hole hammer	"	3	4	5
Drill bit 1 m (length)	∅	76	76	
Drill bit 1.5 m (length)	∅	76	76	
Direction of rotation		left	left	left
Starting tube 1.08 m (length)	∅	114.3 × 6.5	139.7 × 7.1	168.3 / 177.8
Starting tube 1 m (length)	∅	114.3 × 6.5	139.7 × 7.1	168.3 / 177.8
Starting tube 1.5 m (length)	∅	114.3 × 6.5	139.7 × 7.1	168.3 / 177.8
Pipe guide	mm	114.3	139.7	168.3 / 177.8
Casing protector	∅	114.3	139.7	168.3 / 177.8
Pulling head		Yes	Yes	Yes
Clamps		Yes	Yes	Yes

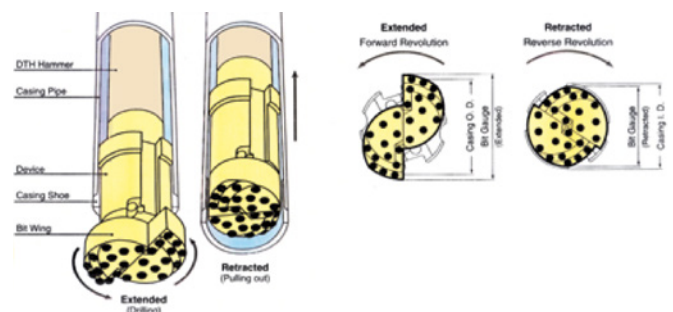


The **Lumetrix** makes it possible to create a cased borehole. The casing is used for safe installation in unstable soils of anchors or piles.

The **Lumetrix** has a fold-out drill head which allows the outer pipe to be overcut.

The outer pipe is pulled in over a shoulder by means of the **Lumetrix**. By folding in the **Lumetrix**, it can be removed together with the inner pipe once the drilling depth has been reached.

After moving the anchor or pile, the outer pipes can also be recovered from the borehole with a **Lumesa** pulling trolley, depending on the geology and high friction.



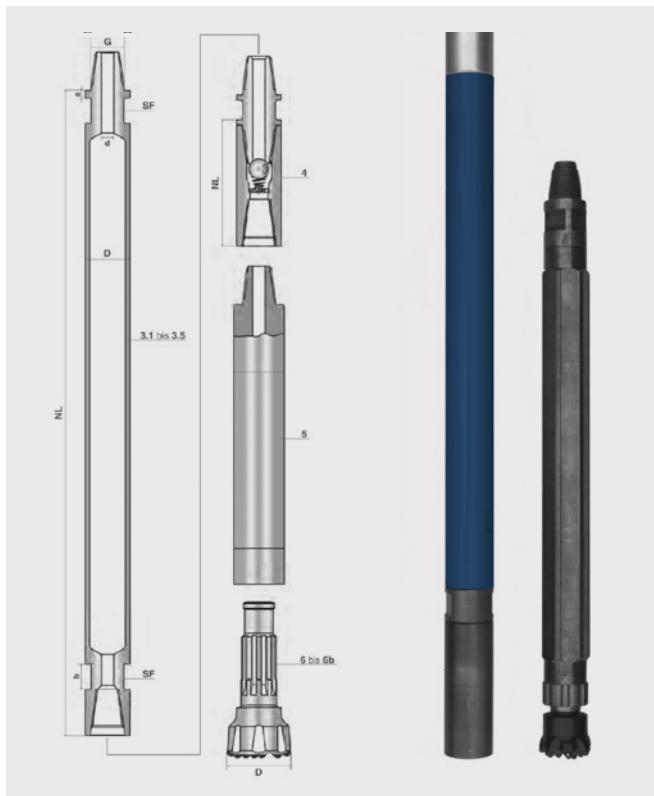
# Drilling Tools

Lumesa DTH (Down-the-hole hammer)

		Lumesa DTH 2"	Lumesa DTH 3"	Lumesa DTH 4"
<b>Drilling diameter</b>	mm	72–76	85 – 120	110 – 185
<b>Down-the-hole hammer</b>	"	62	78	95
<b>Drill bit</b>	∅	72   76	85   92   100   110   120	110   120   130   150   165   185
<b>Drill bit 1 m (length)</b>	∅	60	70   76	76
<b>Drill bit 1.5 m (length)</b>	∅	60	70   76	76
<b>Drill bit 2 m (length)</b>	∅	60	70   76	76
<b>Drill bit 3 m (length)</b>	∅	60	70   76	76
<b>Adapter MT/VT</b>		Rd50 / (Rd 40)	Rd50 / API 2 3/8"	API 2 3/8
<b>Injector MT/VT</b>		Rd50	Rd50 / Rd50 API 2 3/8 / API 2 3/8	API 2 3/8" / API 2 3/8"
<b>Submersible valve MT/VT</b>			Rd50 / Rd50 API 2 3/8 / API 2 3/8	API 2 3/8 / API 2 3/8
<b>Weight</b>	kg	13	23	35

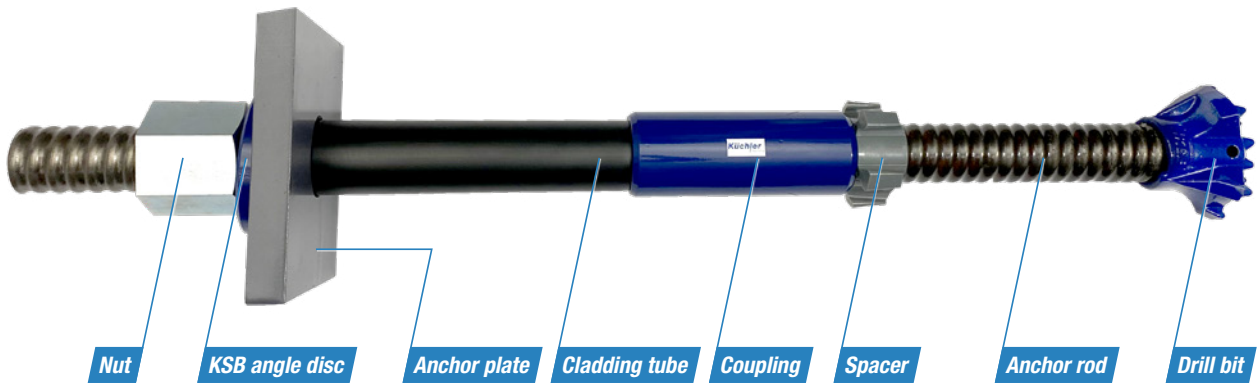
## Accessories

<b>Impact spanner</b>	optional	optional	optional
<b>Double spanner</b>	optional	optional	optional
<b>Copper spray (antigrip)</b>	optional	optional	optional
<b>Arresting mandrel</b>	optional	optional	optional

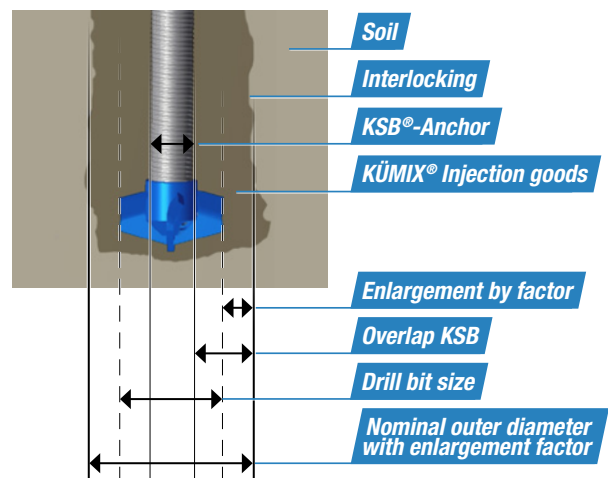
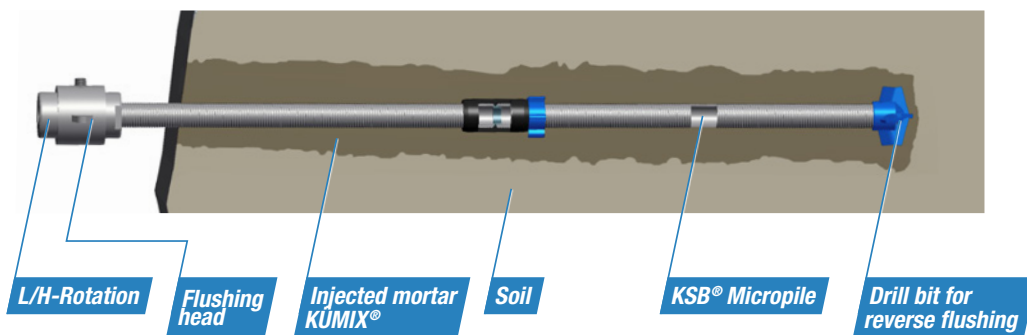


# KSB®

## Self-drilling anchor



### System in use



The **KSB®** is a self-drilling anchor system with continuous external thread that can be drilled without casing in loose soil and rock whilst grouting at the same time.

The **KSB®** system is based on the conventional threaded drill rods R 32, R 38, R 51, T64, T76 and T114 up to Fyk 2100 kN on tension and pressure.

A variety of compatible system components guarantee a wide range of applications, for example pressure, tension, non-stressed, pre-stressed, permanent or jet.

#### Your advantages

- No casing required
- Fast setting period
- Self-drilling system
- Rapid load
- Simultaneous drilling and injecting in one operation
- Continuous and high strength load

# KSB® Anchor rod

## KSB® Standard B 500

- Weak
- Standard
- Strong
- Very strong



Standard Duplex

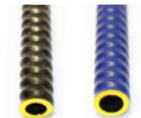


KUPS

Article no.	Size Ⓟ				Size Ⓞ		Failure load F <sub>ik</sub> / kN	Yield str. F <sub>yk</sub> / kN	Weight kg
	R32	R38	R51	T64	T76	T114			
● R32/22	10-10 032 22 10	■					250	200	2.90
● R32/20*	10-10 032 20 10	■					295	240	3.40
● R32/17	10-10 032 17 10	■					360	300	4.20
● R32/15*	10-10 032 15 10	■					400	340	4.55
● R38/17*	10-10 038 17 10		■				500	400	5.80
● R38/15*	10-10 038 15 10		■				580	450	6.30
● R51/35*	10-10 051 35 10			■			660	540	7.45
● R51/28*	10-10 051 28 10			■			800	630	9.10
● R51/25	10-10 051 25 10			■			1 000	800	10.70
● T64/42	10-10 064 42 10				▨		1 200	1 000	13.45
● T64/36	10-10 064 36 10				▨		1 400	1 100	15.05
● T76/59*	10-10 076 59 10					▨	1 100	850	13.00
● T76/55*	10-10 076 55 10					▨	1 300	1 000	15.50
● T76/51*	10-10 076 51 10					▨	1 600	1 200	19.00
● T76/41	10-10 076 41 10					▨	2 000	1 600	23.00
● T114/92	10-10 114 92 10					▨	2 050	1 650	25.80

## KSB® B 900

- Weak
- Standard
- Strong
- Very strong



Standard Duplex

Article no.	Size Ⓟ				Size Ⓞ		Failure load F <sub>ik</sub> / kN	Yield str. F <sub>yk</sub> / kN	Weight kg
	R32	R38	R51	T64	T76	T114			
● R51/77*	10-10 051 07 T 10		■				1 000	800	8.00
● R51/9T*	10-10 051 09 T 10		■				1 200	1 000	9.60
● T76/6T*	10-10 076 06 T 10					▨	1 400	1 200	12.20
● T76/8T*	10-10 076 08 T 10					▨	1 800	1 400	14.50
● T76/10T*	10-10 076 10 T 10					▨	2 200	1 700	17.70
● T76/12T	10-10 076 12 T 10					▨	2 600	2 100	18.90

## KSB® INOX 2b and 3b



Article no.	Size Ⓟ				Size Ⓞ		Failure load F <sub>ik</sub> / kN	Yield str. F <sub>yk</sub> / kN	Weight kg
	R32	R38	R51	T64	T76	T114			
2b R32	10-10 032 10 Inox	■					360	300	3.80
R38	10-10 038 10 Inox		■				630	460	6.30
R51	10-10 051 10 Inox			■			950	760	10.5
3b R38	10-10 038 10 Inox 3b		■				630	460	6.30

■ Available	■ KSB® INOX
▨ Trapezoidal thread	■ Duplex / add -2 to the item number

- Ⓟ Thread direction left
- Ⓞ Thread direction right

\* galvanised possible / price on request

Delivery periods of B500 Anchor rods 2,3 or 4 metres

Delivery periods of Duplex and B900 Anchor rods: 2 and 3 metres

Delivery periods INOX: 3 metres



*Injection*



***Injection***

**Lumesa**  
■ Drilling Technology



# IMP E

Injection mix pump





# Specifications



<b>Max delivery rate</b>	ℓ/min	63
<b>Pump pressure max.</b>	bar	60
<b>Grain size max.</b>	mm	2
<b>Pump type</b>		● EP
<b>Adjustable quantity</b>		optional
<b>Drive</b>		Euro 16 A
<b>Electrical connection</b>		6.4; 7.7 KW / 400V
<b>Drive</b>		
<b>Mixer mode</b>		continuous mixer
<b>Mixer content</b>	ℓ	75
<b>Mixer performance</b>	m <sup>3</sup> /h	2
<b>Buffer tank content</b>	ℓ	150
<b>Transport length</b>	mm	1'200
<b>Length</b>	mm	1'590
<b>Width</b>	mm	795
<b>Height</b>	mm	1'310
<b>Weight</b>	kg	286

## Available with

<b>Remote control</b>		on request
<b>Cable control</b>		on request
<b>Link to Gerlogg</b>		on request
<b>Water meter</b>		optional
<b>Water tank</b>		optional
<b>Silo compatible</b>		
<b>Agitator in buffer tank</b>		
<b>Stepless</b>		optional

<b>Gear motor</b>	4.2 kW – 242 Upm	5.5 kW – 406 Upm	5.5KW + FU 100 – 406 Upm
<b>Gear</b>	Spur gear	Spur gear	Spur gear
<b>Electrical connection</b>	16 A/ 5-polig	16 A/ 5-polig	16 A/ 5-polig
<b>Generator</b>	mind. 15 kVA	mind. 20 kVA	mind. 18 kVA

## Flow rate & Pressure

<b>K MUNG pump part 3 blue &lt; 60 bar</b>	14.0 ℓ/min	24.0 ℓ/min	6 – 24 ℓ/min
<b>K MUNG pump part 8 orange &lt; 50 bar</b>	24.0 ℓ/min	39.0 ℓ/min	9 – 39 ℓ/min
<b>K MUNG pump part 10 grey &lt; 40 bar</b>	39.0 ℓ/min	63.0 ℓ/min	15 – 63 ℓ/min



● Eccentric screw pump EP



Electric drive

# Team

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**Adriano Lorenzetti**  
Locksmith



**Elia Solari**  
Mechanic / locksmith



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# Directions

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## Lumesa Switzerland

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info@lumesa.ch  
www.lumesa.ch

### Driving directions

From motor-way A2 or from motor-way  
A13 exit BELLINZONA NORD



## Lumesa Austria

### Contact

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### Driving directions

S6 Semmering Expressway, Exit Kapfenberg, Directory «Werk VI Industriegebiet»,  
Directory «Industriezone Werk VI»



## Locations

