



Mounty®
Simply drilling

Lumesa
■ Drilling Technology

Table of contents

Drilling Technology

Overview Chain Feeds	2
Mounty® Portable Chain Feeds	4
Diesel & Electric Power Packs	14
Control panels	15
Powerpack KSD91F	16
Powerpack KSD93F	18
Rotary Heads	20
Top Hammers	22
Hydroclamps	23
Accessoires	24
Special accessories	26
Universal Mounting Plate	28
LDA Rigs Built on Mast	31
Top Hammers	42
Rotary Heads	44
Accessories	45
Hydroclamps	46
Special Solutions	47
Drilling tools	48
KSB®	50
Injection Technology	
Lumesa Injection	53
Lumesa IMP E	54
Lumesa SA and Lumesa GmbH	58
Directions	62

Systems

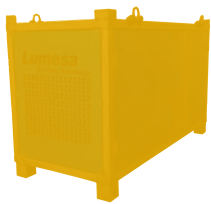
Mounty® Portable Chain Feeds



Mounty Page 4



Control Panels
Page 15

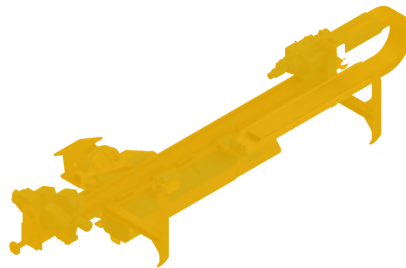


Diesel Power Packs
Page 14



Electro Power Packs
Page 14

LDA Drill Rig Built on Mast



Drill Rig built on mast Page 31

Drilling tools



Lumesa DTH
(Down-the-hole hammer) Page 49

Additional Products



Rotary drives
Page 20



Hydro Clamps
Page 23

Injection Tecnology



Injection systems
Page 56

Portable Chain Feeds

Overview



Mounty® 90 L



Mounty® 90 H

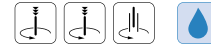


Mounty® 91 H



Mounty® 92 H

Specifications



Operating weight excavator t				> 2	> 3
Weight ¹	kg	> 45	> 50	> 110	> 140
Oil requirement	l/min / bar		55 / 200	60 / 200	100 / 200
Feed / Retrait force	kN	9	12	20	40
Torque max.	daNm	90	140	180	500
Feed	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
Dimensions (LxBxH)	mm	2'160 / 580 / 650	2'160 / 580 / 500	2'220 / 580 / 500	2'315 / 584 / 600
Chain feed profil	BL	90	90	91	92
Fixing plate for scaffolding tube		inclusive	inclusive	inclusive	inclusive
Rotary plate for scaffolding tube		inclusive	inclusive	inclusive	inclusive
Clamp	mm		25 – 116	25 – 146	25 – 181
Top hammer	daNm	35	103	103	150
Rotary drive	daNm	90	140	140	800
Double head	daNm				

Deliverable with

Hydraulic control panel	inclusive	inclusive	inclusive	inclusive
Radio or cabel control	optional	optional	optional	optional
Digital display radio control				
Anti jamming system				
Adjustable percussioin mechanism				
Injection pump control	optional	optional	optional	optional
Threaded gear				
Swivel 90° (mechanical)	optional	optional	optional	optional
Breaking device	optional	optional	optional	optional
Drilling guide	inclusive	inclusive	inclusive	inclusive
Rack back stay	inclusive	inclusive	inclusive	inclusive

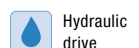
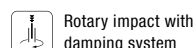
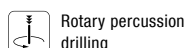
Requirements hydraulic power units

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

Drilling methods Application ideal Application conditionally possible

Blast hole / Rock drilling	ø mm	33	45	57	76	89	33	45	57	76	89	33	45	57	76	89	33	45	57	76	89
KSB® Anchor drilling	ø anchor	R32	R38	R51	T76	T114	R32	R38	R51	T76	T114	R32	R38	R51	T76	T114	R32	R38	R51	T76	T114
Rotate- / Downhole Drilling	ø mm	70	90	140	178	250	70	90	140	178	250	70	90	140	178	250	70	90	140	178	250
Casing drilling	ø mm	114	139	168	178	219	114	139	168	178	219	114	139	168	178	219	114	139	168	178	219
Core drilling	mm	100	131	146	200	254	100	131	146	200	254	100	131	146	200	254	100	131	146	200	254
Injection connector	mm	3/8"					3/8"					3/8"					3/8"				

1. Without safety device according to standard EN16228



Drill Rig built on mast

Overview














LDA 91 Mounity

LDA 91

LDA 92

LDA 92P

Specifications

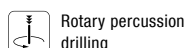
		 	 	  	   
Operating weight excavator t		> 6	> 8	> 12	> 16
Weight ¹	kg	550	770	1'400 / 1'600	1'800 / 2'000
Oil requirement	l/min / bar	60 / 200	110 / 230	120 / 230	160 / 230
Feed / Retrait force	kN	20	20	40	40
Torque max.	daNm	180	212	212	500
Feed		on request	3'300	3'540	3'540
Dimensions		on request	4'550 / 620 / 900	4'600 / 1'200 / 1'850	4'900 / 1'200 / 1'850
Chain feed profil	BL	91	91	92	92
Rotate	Degree	360	360	360	360
Swivel	Degree	±90	± 90	0 – 90	0 – 90
Clamp		25 – 146	25 – 146	25 – 146	30 – 170
Top hammer	daNm	150	106 / 212	106 / 212	250 / 500
Rotary drive	daNm	on request	on request	212	500
Double head	daNm			on request	on request

Deliverable with

Hydraulic control panel		inclusive			
Radio or cabel control		optional	inclusive	inclusive	inclusive
Digital display radio control		optional	optional	optional	optional
Anti jamming system		optional	inclusive	inclusive	inclusive
Adjustable percussion mechanism		inclusive	inclusive	inclusive	inclusive
Threaded gear		optional	on request	on request	on request
Swivel 90°			optional	inclusive	inclusive
Breaking device				optional	optional
Drilling guide			optional	optional	optional
Internal power supply		optional	optional	optional	optional
Central lubrication		optional	optional	optional	optional
Telescopic chain feed			on request	on request	on request
Walking foot		optional	optional	optional	optional
Vacuum cleaning		optional	on request	on request	on request
Rod magazine				on request	on request
Pulling winch			on request	on request	on request

Blast hole / Rock drilling	ø mm	33	45	57	76	89	33	45	57	76	89	33	45	57	76	89	33	45	57	76	89
KSB® Anchor drilling	ø anchor	R32	R38	R51	T76	T114	R32	R38	R51	T76	T114	R32	R38	R51	T76	T114	R32	R38	R51	T76	T114
Rotate- / Downhole Drilling	ø mm	70	90	140	178	250	70	90	140	178	250	70	90	140	178	250	70	90	140	178	250
Casing drilling	ø mm	114	139	168	178	219	114	139	168	178	219	114	133	152	178	219	114	133	152	178	219
Core drilling	mm	100	131	146	200	254	100	131	146	200	254	100	131	146	200	254	100	131	146	200	254
Injection connector	mm			3/8"					3/8"					1"					1"		

1. Without safety device according to standard EN16228



Rotary percussion drilling



Rotating unpiped



Rotating piped



Rotary impact with damping system

Mounty® Portable Chain 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.





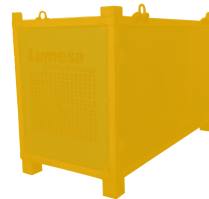
Mounthy® Portable Chain Feeds



Mounthy Page 4



*Control Panels
Page 15*



*Diesel Power Packs
Page 14*



*Electro Power Packs
Page 14*

Additional Products



*Rotary drives
Page 20*



*Hydro Clamps
Page 23*

Mounty® 90 L

Portable Chain Feeds



Lightweight, portable chain 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.

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

Mounty 90L package

- Mounty 90L, feed length 1.30, 1.80 or 2.4 m
- Rotary head NLL
- Control panel SLL
- Rack back stay



Technical specifications

Mounty® 90 L

Specifications



Operating weight excavator t

Weight ¹	kg	> 45
Oil requirement	l/min / bar	
Feed / Retrait force	kN	9
Torque max.	daNm	90
Feed	mm	1'300 / 1'800 / 2'300
Dimensions (LxBxH)	mm	2'160 / 580 / 650
Chain feed profil	BL	90
Fixing plate for scaffolding tube		inclusive
Rotary plate for scaffolding tube		inclusive
Clamp	mm	
Top hammer	daNm	35
Rotary drive	daNm	90
Double head	daNm	

Deliverable with

Hydraulic control panel	inclusive
Radio or cabel control	optional
Digital display radio control	
Anti jamming system	
Adjustable percussion mechanism	
Injection pump control	optional
Threaded gear	
Swivel 90° (mechanical)	optional
Breaking device	optional
Drilling guide	inclusive
Rack back stay	inclusive

Requirements hydraulic power units

Weight	kg
Engine power	kW
Fuel	
Hose length	m

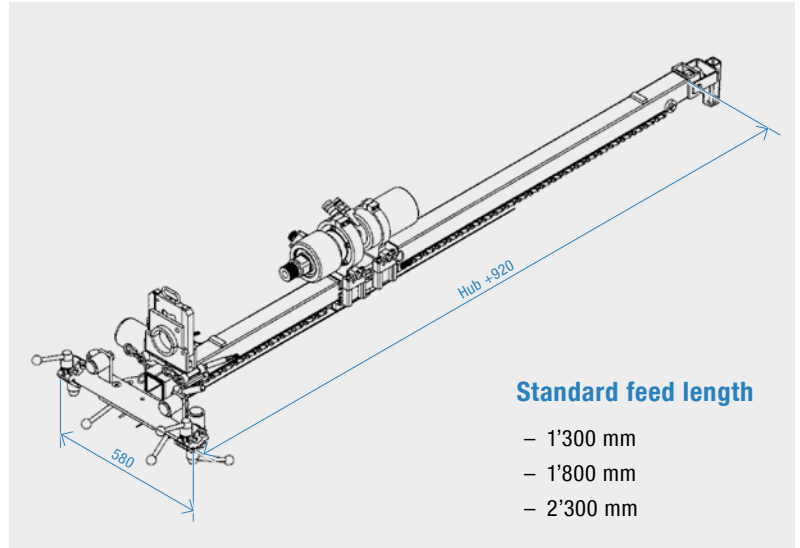
Drilling methods

	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
Rotate- / Downhole Drilling	ø mm	70	90	140	178	250
Casing drilling	ø mm	114	139	168	178	219
Core drilling	mm	100	131	146	200	254
Injection connector	mm	3/8"				

1. Without safety device according to standard EN16228



System drawing



Mounty® 90 H

Portable Chain Feeds



Avalanche construction and renovations

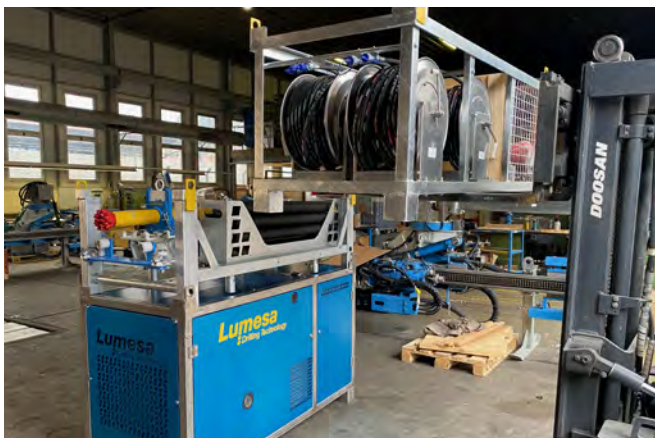
Portable hydraulic chain feed, ideal for all handy drilling work; can be used with down-the-hole hammer and drill hammer (pneumatic or hydropneumatic) as well as for core drilling. Designed for easy mounting on any type of scaffolding and suitable for wall work. Very light and handy.

Lightweight chain 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
- Rotary head NL3
- Remote controlled panel SF3
- Rack back stay
- Powerpack KSD91



Technical specifications

Mounty® 90 H

Specifications



Operating weight excavator t

Weight ¹	kg	> 50
Oil requirement	l/min / bar	55 / 200
Feed / Retrait force	kN	12
Torque max.	daNm	140
Feed	mm	1'300 / 1'800 / 2'300
Dimensions (LxBxH)	mm	2'160 / 580 / 500
Chain feed profil	BL	90
Fixing plate for scaffolding tube		inclusive
Rotary plate for scaffolding tube		inclusive
Clamp	mm	25–116
Top hammer	daNm	103
Rotary drive	daNm	140
Double head	daNm	

Deliverable with

Hydraulic control panel	inclusive
Radio or cabel control	optional
Digital display radio control	
Anti jamming system	
Adjustable percussion mechanism	
Injection pump control	optional
Threaded gear	
Swivel 90° (mechanical)	optional
Breaking device	optional
Drilling guide	inclusive
Rack back stay	inclusive

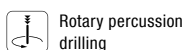
Requirements hydraulic power units

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

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
Rotate- / Downhole Drilling	ø mm	70	90	140	178	250
Casing drilling	ø mm	114	139	168	178	219
Core drilling	mm	100	131	146	200	254
Injection connector	mm	3/8"				

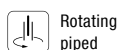
1. Without safety device according to standard EN16228



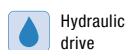
Rotary percussion drilling



Rotating unpiped

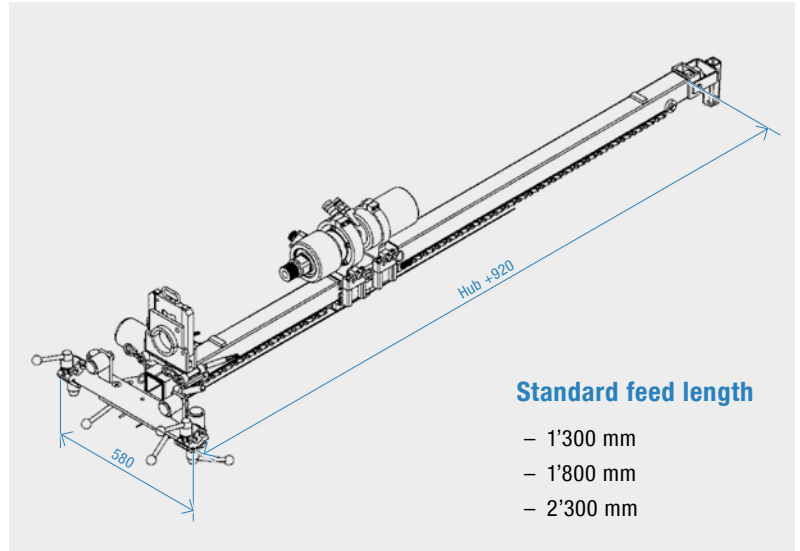


Rotating piped



Hydraulic drive

System drawing



Mounty® 91 H

Portable Chain Feeds



Chain feed for compact excavators

Portable hydraulic chain 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 chain 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
- Remote controlled panel SF3
- Rack back stay
- Powerpack KSD91



Technical specifications

Mounty® 91 H

Specifications



Operating weight excavator t		> 2
Weight ¹	kg	> 110
Oil requirement	l/min / bar	60 / 200
Feed / Retrait force	kN	20
Torque max.	daNm	180
Feed	mm	1'300 / 1'800 / 2'300
Dimensions (LxBxH)	mm	2'220 / 580 / 500
Chain feed profil	BL	91
Fixing plate for scaffolding tube		inclusive
Rotary plate for scaffolding tube		inclusive
Clamp	mm	25 – 146
Top hammer	daNm	103
Rotary drive	daNm	140
Double head	daNm	

Deliverable with

Hydraulic control panel		inclusive
Radio or cabel control		optional
Digital display radio control		
Anti jamming system		
Adjustable percussion mechanism		
Injection pump control		optional
Threaded gear		
Swivel 90° (mechanical)		optional
Breaking device		optional
Drilling guide		inclusive
Rack back stay		inclusive

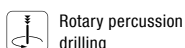
Requirements hydraulic power units

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

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
Rotate- / Downhole Drilling	ø mm	70	90	140	178	250
Casing drilling	ø mm	114	139	168	178	219
Core drilling	mm	100	131	146	200	254
Injection connector	mm	3/8"				

1. Without safety device according to standard EN16228



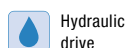
Rotary percussion drilling



Rotating unpiped

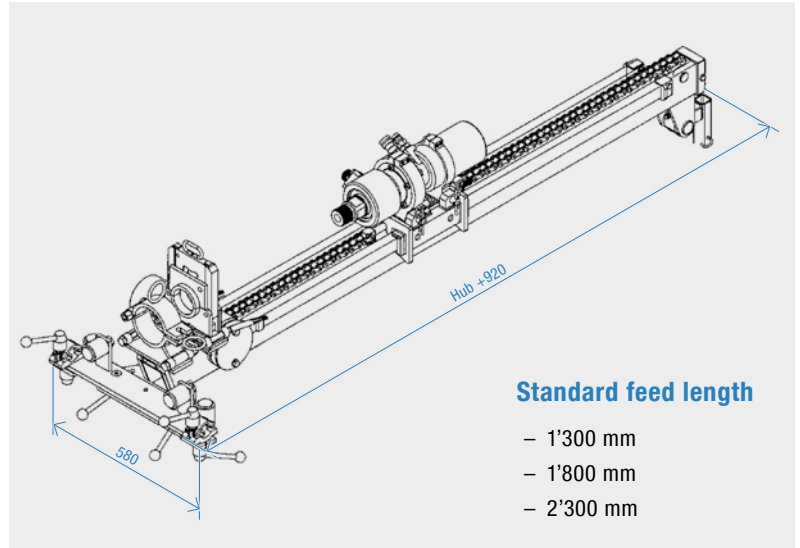


Rotating piped



Hydraulic drive

System drawing



Mounty® 92 H

Portable Chain Feeds



For heavy anchor work

Hydraulic, portable heavy chain 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 chain feed for:

- Anchor hole drilling
- Micropile drilling
- Overburden drilling



Technical specifications

Mounty® 92 H

Specifications



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

Deliverable with

Hydraulic control panel		inclusive
Radio or cabel control		optional
Digital display radio control		
Anti jamming system		
Adjustable percussion mechanism		
Injection pump control		optional
Threaded gear		
Swivel 90° (mechanical)		optional
Breaking device		optional
Drilling guide		inclusive
Rack back stay		inclusive

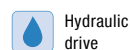
Requirements hydraulic power units

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

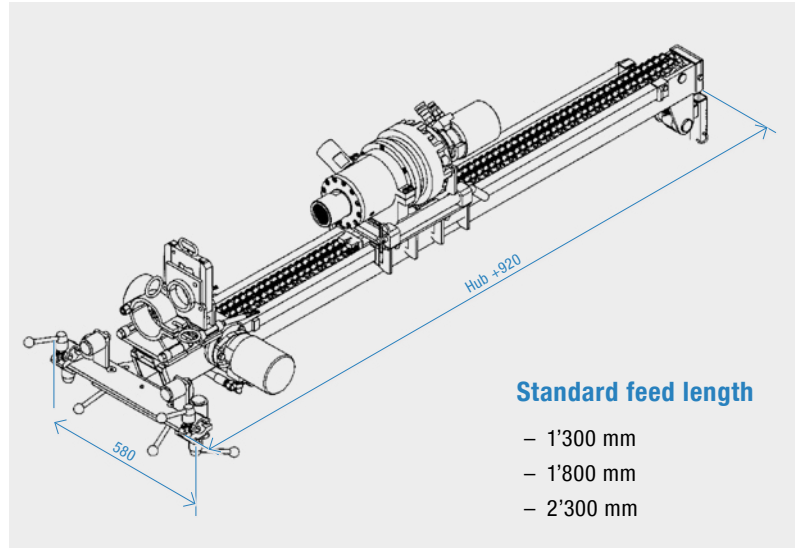
Drilling methods

	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
Rotate- / Downhole Drilling	ø mm	70	90	140	178	250
Casing drilling	ø mm	114	139	168	178	219
Core drilling	mm	100	131	146	200	254
Injection connector	mm	3/8"				

1. Without safety device according to standard EN16228



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

Weight ¹	kg	390	500	450	800
Oil output at 200 bar	l/min	55(45)*	50	50	100
Engine power	kW	22 / 18 ¹	17.9	17.9	43
Engine	Typ	Lombardini 4 Cyl.	Yanmar 3 Cyl.	Yanmar 3 Cyl.	Yanmar 4 Cyl.
Engine cooling		Water	Water	Water	Water
Revolutions	rpm	3'000	3'200	3'200	2'900
Particulate filter					Yes
Homologation		Stage V	Stage V	Stage V	Stage V
Sound insulation			inclusive	inclusive	inclusive
Length max.	mm	1'480	1'600	1'600	1'800
Width max.	mm	640	800	800	800
Height max.	mm	1'100	1'174	1'174	1'370
Radio control		optional	inclusive		inclusive
Use on chain feed		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

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

Drive		air	hydraulic	hydraulic	hydraulic	hydraulic
Operation		manual	manual	manual	manual	radio
Weight	kg	40	80	120	160	50
Oil capacity at 200 bar	l/min		50	100	100	100
Function						
Rotation		x	x	x	x	x
Feed		x	x	x	x	x
Tongs			x	x	x	x
Hammer		x			x	(UBH)
Air purge		x	x	x	x	x
Use on chain feeds		90 L	90 / 91 / 92	90 / 91 / 92	(90) / 91 / 92	90 / 91 / 92
To aggregate type			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 chain feeds**

SM 5495 All chain feeds possible

Available with water separator

Set of hoses



Type

Length

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



Description

The KSD91F power unit is equipped with a 17.9 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

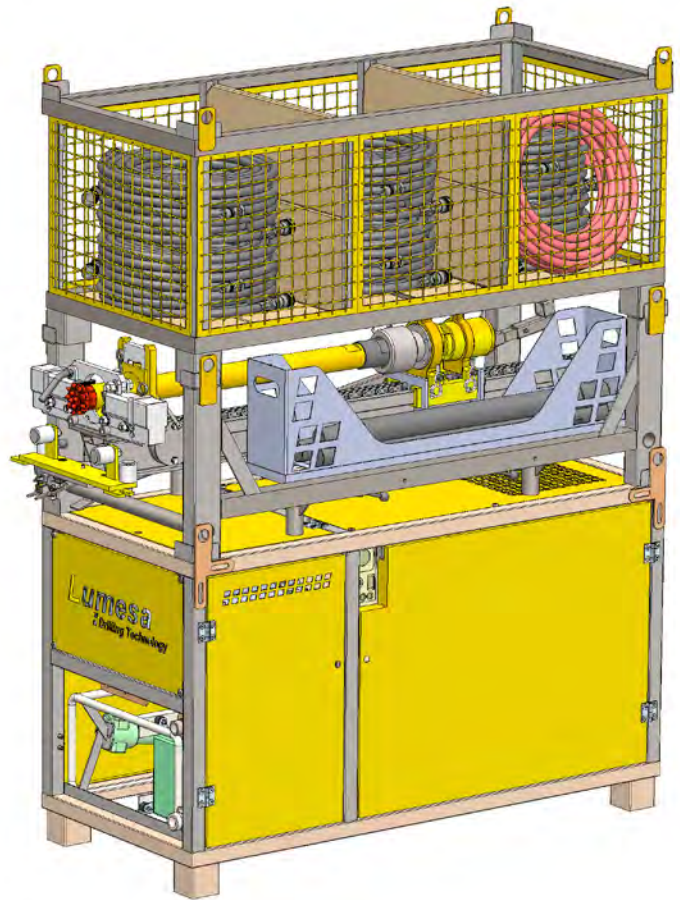
- Radio controlled
- Stage V engine
- Transportable by helicopter
- Compatible with all chain feeds
- Stainless steel frame
- Easy to operate
- Stackable (Mounty® Click system)
- Air control on/off
- Removable hydraulic block



Technical data

KSD91F

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



Valve frame



Remote control

Powerpack KSD93F

Mounty® Click



Description

The KSD93F power unit is equipped with a 42.5 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

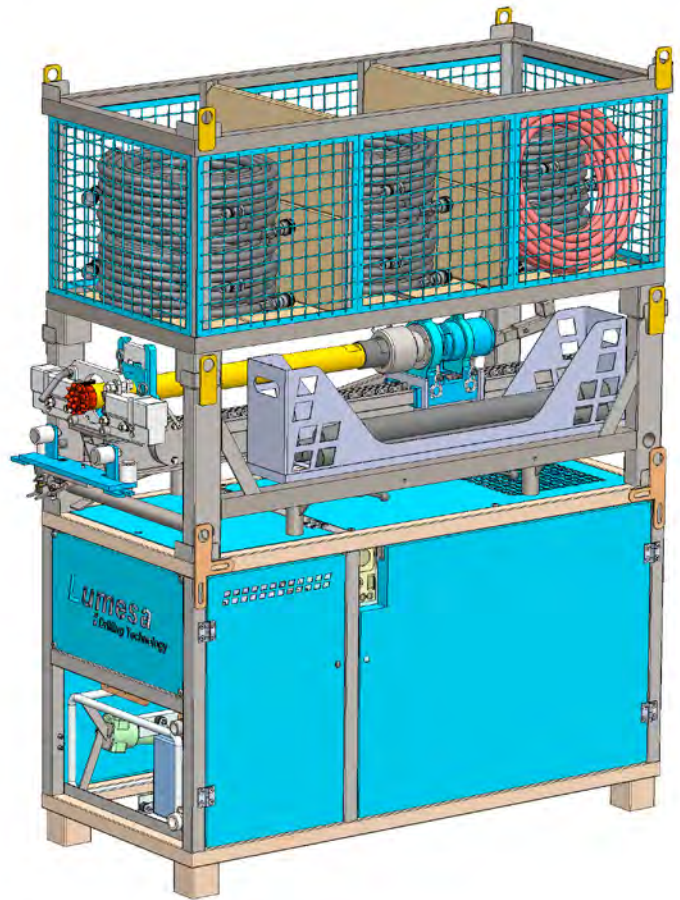
- Radio controlled
- Stage V engine
- Transportable by helicopter (700 kg)
- Compatible with all chain feeds
- Stainless steel frame
- Easy to operate
- Stackable (Mounty® Click system)
- Hydraulic load sensing
- Motor control
- Proportional air control
- Removable hydraulic block



Technical data

KSD93F

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



Valve frame



Remote control

Rotary Heads

High-speed and normal runners

Normal runner NL



NLL



NI1 / NL1a / NL1b



NL2 / NL3 / NL4

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

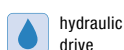
Ideal for down-the-hole hammers with casing tubes and *Lumetrix* eccentric core bits for casing drilling.

Rotary Heads NLL

Pneumatic version, including heavy duty flushing head.



Pneumatic drive









hydraulic drive

Fast runner SL



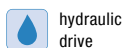
SL16 – SL11

		SL16	SL15	SL14	SL13	SL12	SL11
							
Drive		hydraulic	hydraulic	hydraulic	hydraulic	hydraulic	hydraulic
Weight	kg	22	28	29	29	30	30
Torque max.	daNm	22	26	40	56	68	80
Speed max.	rpm	1'075	860	610	440	360	310
Air requirement	m ³ /min						
Oil requirement	l/min	86 @ 200	86 @ 200	86 @ 200	86 @ 200	86 @ 200	86 @ 200
Oil requirement per revolution	cm ³	80	100	140	195	240	280
Transmission ratio		1	1	1	1	1	1
Shaft		Rd50 AG / API 2 3/8 IG					
Flushing head		G 1 1/4 (Rd46)					
Suitable for chain feeds		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	140 / 70	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	40 ÷ 80 @ 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 chain feeds	Typ	90 / 91	90 / 91	90 / 91 / 92	91 / 92



pneumatic drive



hydraulic drive



Rotary percussion drilling



Adapter plate for drill hammer -H-

Artikelnummer **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

Weight	kg	20	40	100
Closing force	kN	100	180	180
Breaking torque	kNm			30
Clamping range Ø 116	mm	25 – 116		
Clamping range Ø 146	mm	55 – 146	30 – 154	
Clamping range Ø 181	mm		90 – 181	60 – 180
Use on chain feed		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 Mouny Chain 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 chain 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 chain 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 chain 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 Chain Feeds 90/91/92

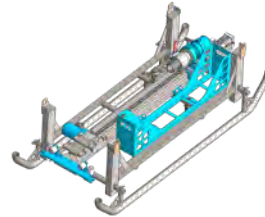
Base frame; for transport and operation



Article no.	BL90	BL91	BL92
	x	x	x*

* without BL92 HBV

Base frame with skid for transport



Article no.	BL90	BL91	BL92
	x	x	x*

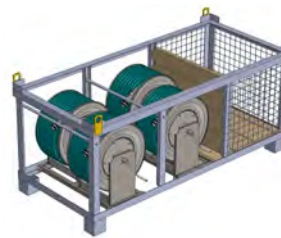
* without BL92 HBV

Mounty Click – material container



Article no.

Mounty Click – drum container



Article no.

Sliding scaffold plate



Article no.	BL90	BL91	BL92
901530.01	x		

Simple scaffolding plate to be fixed to the tube



Article no.	BL90	BL91	BL92
911650		x	
921670			x*

* without BL92 HBV

Scaffolding plate to be fixed to the tube



Article no.	BL90	BL91	BL92
911660		x	
921680			x*

* without BL92 HBV

Buckling plate to be fixed with dowels



Article no.	BL90	BL91	BL92
901352	x	x	x*

* Without BL92 HBV

Rack back stay



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

Back stay support for rack back stay



Article no.	BL90	BL91	BL92
911640		x	
921660			x*

* without BL92 HBV

Special accessories

Dust collector MOUNTY E900H

E 900H

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



Required powerpack to operate with E 900H

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

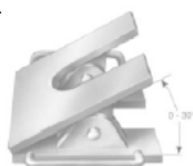
HZV 22-800

Light and efficient

To extract the casing tubes

Pulling force	<i>kN</i>	400		800
	<i>bar</i>		250	
Total weight	<i>kg</i>	165	168	365
Base plate	<i>kg</i>	40	38	95
Pulling cylinder	<i>kg</i>	75	75	150
Pulling unit with wedges	<i>kg</i>	50	55	120
Feed	<i>mm</i>		250	
Diameter	<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 Chain Feeds Type 91 H and 92 H



Hydraulic rotary head

UAP 90

UAP 91

UAP 92

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

With treadle rollover

Swivel element		± 90°	± 90°	± 90°
Rollover		360°	360°	360°
Pullout cylinder	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 chain feed can be turned 180° in a few easy steps thanks due 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)

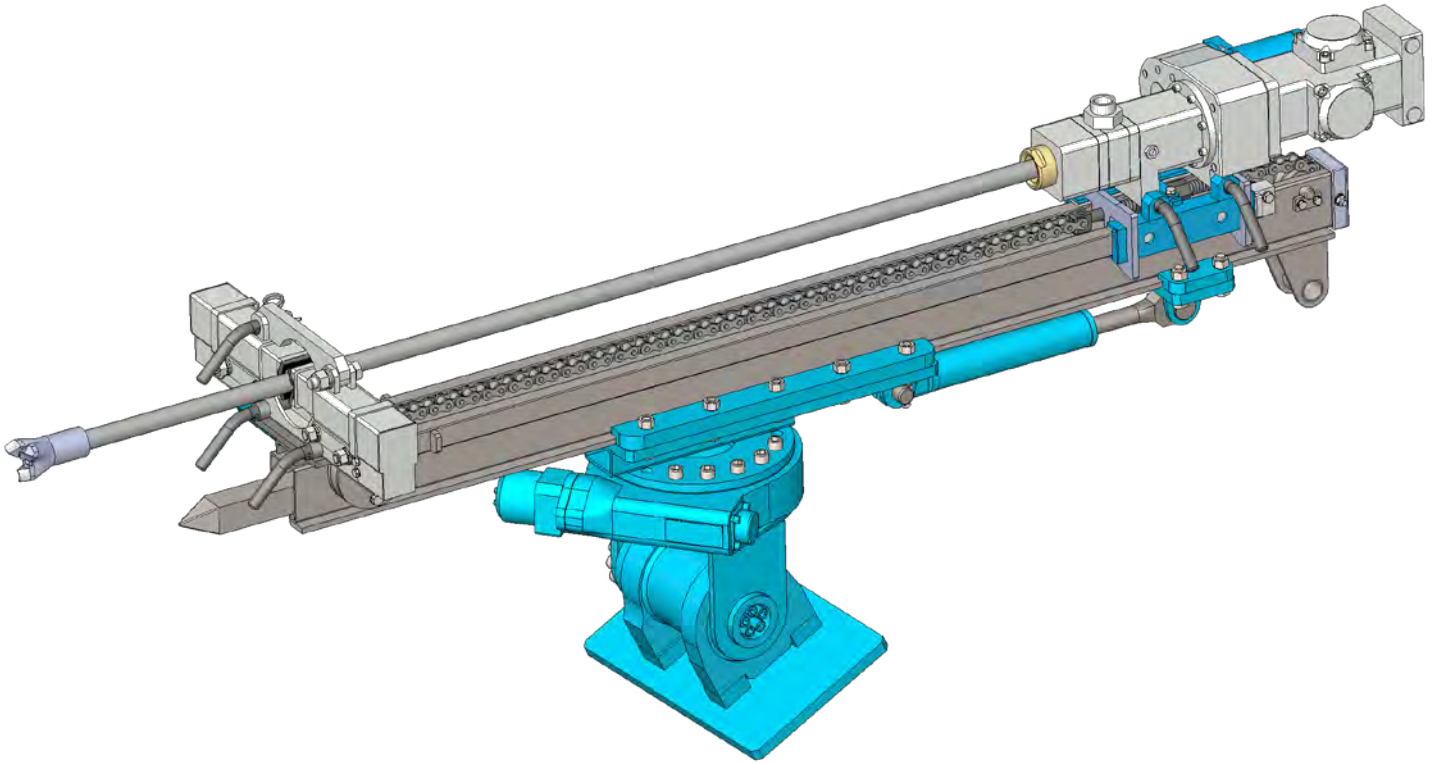


Article no.	BL90	BL91	BL92
911630		x	
921650			x*

* without BL92 HBV

LDA 91 Mounthy®

Lumesa Drilling Attachment



Portable chain 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.





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

Lumesa Drilling Attachment



Drill Rigs Built on Mast

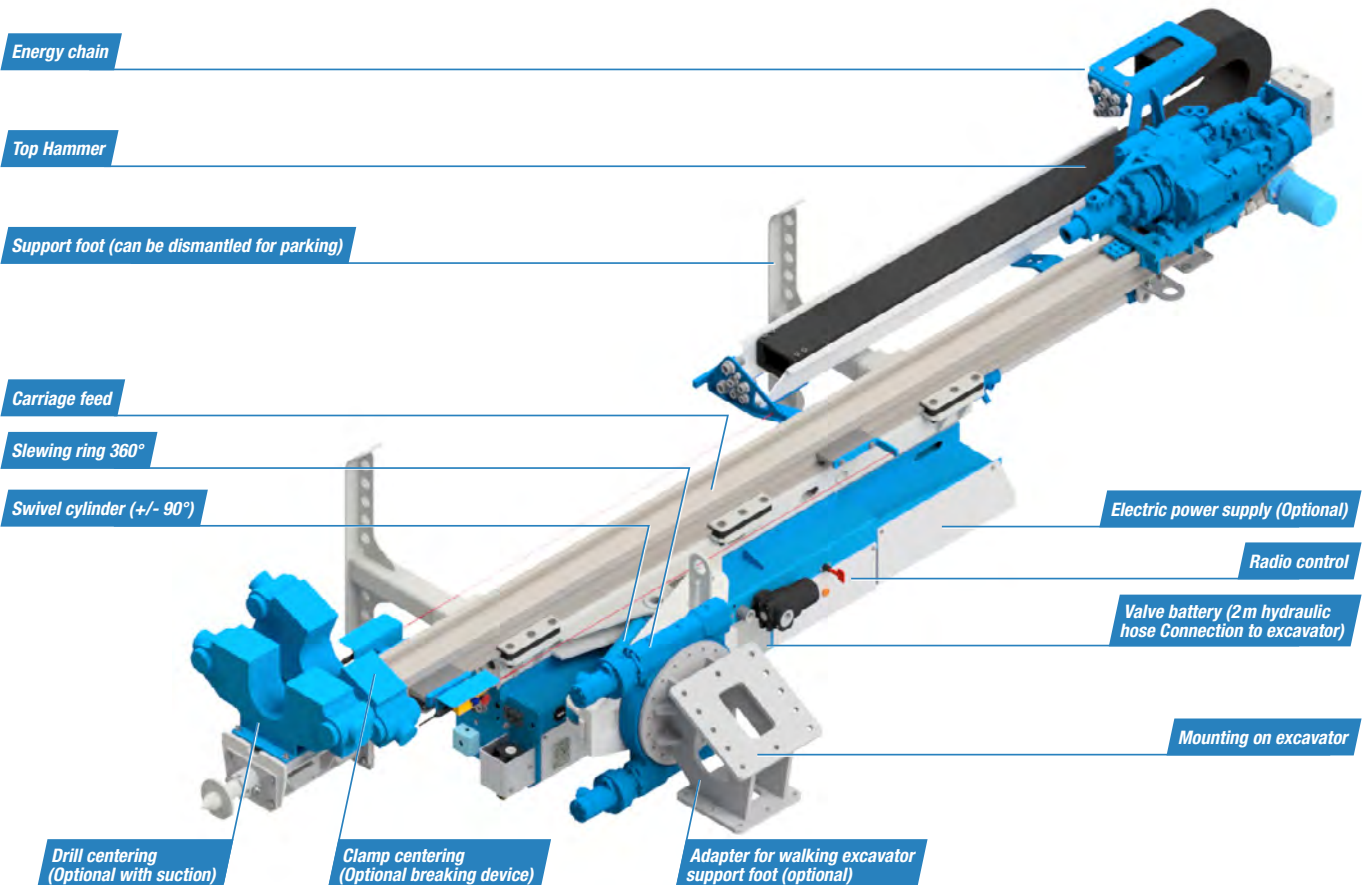
Lumesa
■ Drilling Technology

LDA Drill Rigs Built on Mast

Lumesa Drilling Attachment

Based on the standard system, **Lumesa** Austria produces together with **Lumesa** Switzerland customized drill rigs for every application. By means of a checklist, precise customer briefing and professional advice, an exact requirements profile is drawn up, which serves as the basis for the construction of the drill mount. The great flexibility enables efficient, individual system solutions for the respective needs and requirements on the construction site. No intervention in the excavator hydraulics is required!

■ Designation of the components



■ Drilling positions



Drill Rig built on mast

Overview



LDA 91 Mounity

LDA 91

LDA 92

LDA 92P

Specifications



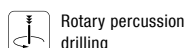
Operating weight excavator t		> 6	> 8	> 12	> 16
Weight ¹	kg	550	770	1'400 / 1'600	1'800 / 2'000
Oil requirement	l/min / bar	60 / 200	110 / 230	120 / 230	160 / 230
Feed / Retrait force	kN	20	20	40	40
Torque max.	daNm	180	212	212	500
Feed		on request	3'300	3'540	3'540
Dimensions		on request	4'550 / 620 / 900	4'600 / 1'200 / 1'850	4'900 / 1'200 / 1'850
Chain feed profil	BL	91	91	92	92
Rotate	Degree	360	360	360	360
Swivel	Degree	±90	± 90	0 – 90	0 – 90
Clamp		25 – 146	25 – 146	25 – 146	30 – 170
Top hammer	daNm	150	106 / 212	106 / 212	250 / 500
Rotary drive	daNm	on request	on request	212	500
Double head	daNm			on request	on request

Deliverable with

Hydraulic control panel		inclusive			
Radio or cabel control		optional	inclusive	inclusive	inclusive
Digital display radio control		optional	optional	optional	optional
Anti jamming system		optional	inclusive	inclusive	inclusive
Adjustable percussion mechanism		inclusive	inclusive	inclusive	inclusive
Threaded gear		optional	on request	on request	on request
Swivel 90°			optional	inclusive	inclusive
Breaking device				optional	optional
Drilling guide			optional	optional	optional
Internal power supply		optional	optional	optional	optional
Central lubrication		optional	optional	optional	optional
Telescopic chain feed			on request	on request	on request
Walking foot		optional	optional	optional	optional
Vacuum cleaning		optional	on request	on request	on request
Rod magazine				on request	on request
Pulling winch			on request	on request	on request

Blast hole / Rock drilling	ø mm	33	45	57	76	89	33	45	57	76	89	33	45	57	76	89	33	45	57	76	89
KSB® Anchor drilling	ø anchor	R32	R38	R51	T76	T114	R32	R38	R51	T76	T114	R32	R38	R51	T76	T114	R32	R38	R51	T76	T114
Rotate- / Downhole Drilling	ø mm	70	90	140	178	250	70	90	140	178	250	70	90	140	178	250	70	90	140	178	250
Casing drilling	ø mm	114	139	168	178	219	114	139	168	178	219	114	133	152	178	219	114	133	152	178	219
Core drilling	mm	100	131	146	200	254	100	131	146	200	254	100	131	146	200	254	100	131	146	200	254
Injection connector	mm			3/8"					3/8"					1"					1"		

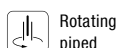
1. Without safety device according to standard EN16228



Rotary percussion drilling



Rotating unpiped



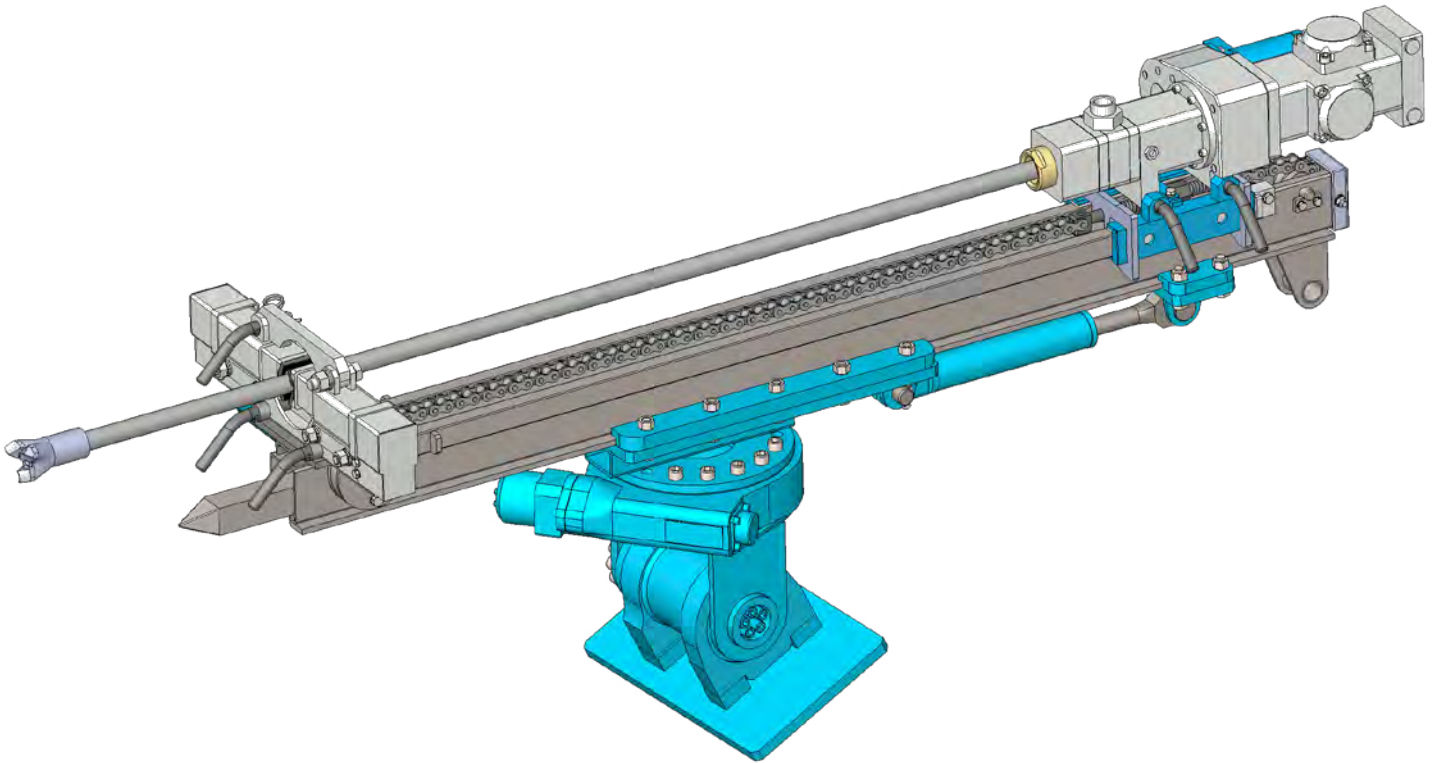
Rotating piped



Rotary impact with damping system

LDA 91 MOUNTY®

Lumesa Drilling Attachment



Portable chain 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

LDA 91 Mounty

Specifications



Operating weight excavator t		> 6
Weight ¹	kg	550
Oil requirement	l/min / bar	60 / 200
Feed / Retrait force	kN	20
Torque max.	daNm	180
Feed	mm	on request
Dimensions	mm	on request
Chain feed profil	BL	91
Rotate	Degree	360
Swivel	Degree	±90
Clamp		25 – 146
Top hammer	daNm	150
Rotary drive	daNm	on request
Double head	daNm	

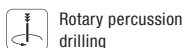
Deliverable with

Hydraulic control panel	inclusive
Radio or cabel control	optional
Digital display radio control	optional
Anti jamming system	optional
Adjustable percussion mechanism	inclusive
Threaded gear	optional
Swivel 90°	
Breaking device	
Drilling guide	
Internal power supply	optional
Central lubrication	optional
Telescopic chain feed	
Walking foot	optional
Vacuum cleaning	optional
Rod magazine	
Pulling winch	

Drilling methods

	Application ideal	Application conditionally possible				
Blast hole / Rock drilling	∅ mm	33	45	57	76	89
KSB® Anchor drilling	∅ anchor	R32	R38	R51	T76	T114
Rotate- / Downhole Drilling	∅ mm	70	90	140	178	250
Casing drilling	∅ mm	114	139	168	178	219
Core drilling	mm	100	131	146	200	254
Injection connector	mm	3/8"				

1. Without safety device according to standard EN16228



Rotary percussion drilling



Rotating unpiped



Rotating piped



LDA 91

Lumesa Drilling Attachment



Light powerful drill rig

Attachment carriage to at least 8 t excavators with the latest technology and agility (rotate 360° and move 600 mm). The drill rig is easily attached to the excavator with a quick coupler and without tools. The controls are in a package on the mast. The drill mast control is available wirelessly or with a cable. Optional a walking foot can be mounted for use on a walking excavator.

Best for

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



Technical specifications

LDA 91

Specifications



Operating weight excavator t		> 8
Weight ¹	kg	770
Oil requirement	l/min / bar	110 / 230
Feed / Retrait force	kN	20
Torque max.	daNm	212
Feed	mm	3'300
Dimensions	mm	4'550 / 620 / 900
Chain feed profil	BL	91
Rotate	Degree	360
Swivel	Degree	± 90
Clamp		25 – 146
Top hammer	daNm	106 / 212
Rotary drive	daNm	on request
Double head	daNm	

Deliverable with

Hydraulic control panel	
Radio or cabel control	inclusive
Digital display radio control	optional
Anti jamming system	inclusive
Adjustable percussion mechanism	inclusive
Threaded gear	on request
Swivel 90°	optional
Breaking device	
Drilling guide	optional
Internal power supply	optional
Central lubrication	optional
Telescopic chain feed	on request
Walking foot	optional
Vacuum cleaning	on request
Rod magazine	
Pulling winch	on request

Drilling methods Application ideal Application conditionally possible

Drilling method	ø mm	33	45	57	76	89
Blast hole / Rock drilling	ø mm					
KSB® Anchor drilling	ø anchor	R32	R38	R51	T76	T114
Rotate- / Downhole Drilling	ø mm	70	90	140	178	250
Casing drilling	ø mm	114	139	168	178	219
Core drilling	mm	100	131	146	200	254
Injection connector	mm	3/8"				

1. Without safety device according to standard EN16228



Rotary percussion drilling

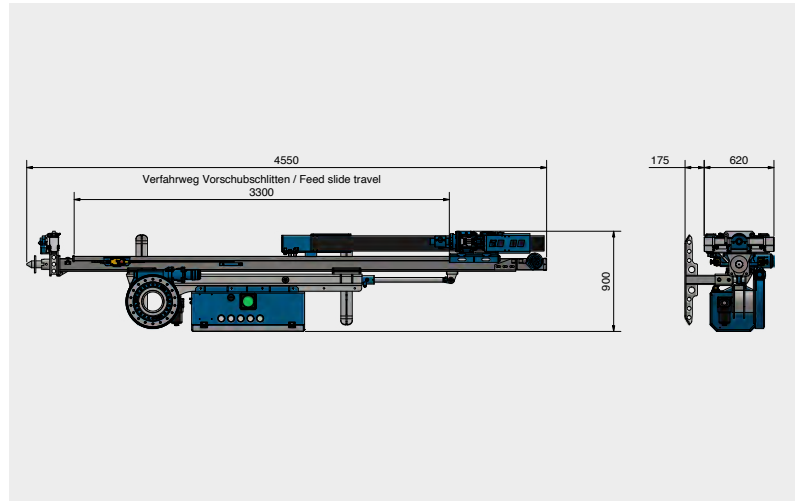


Rotating unpiped



Rotating piped

System drawing



LDA 92

Lumesa Drilling Attachment



Lightweight, powerful chain feed

Attachable crawler track to 12 t excavator with the latest technology, high manoeuvrability (360° turn, 90° swivel and 600 mm shift) and very high torque. The drilling attachment is simply mounted to the excavator by means of a quick hitch and without tools. The control unit and the optional power supply are located in a package on the mount. The drill mast is radio remote controlled. The most important drilling parameters can be read on a digital display on the radio control.

Optionally, a walking foot can be mounted for use on a walking excavator. A clamping and breaking device also allows for cased drilling.

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

LDA 92

Specifications



Operating weight excavator t		> 12
Weight ¹	kg	1'400 / 1'600
Oil requirement	l/min / bar	120 / 230
Feed / Retrait force	kN	40
Torque max.	daNm	212
Feed	mm	3'540
Dimensions	mm	4'600 / 1'200 / 1'850
Chain feed profil	BL	92
Rotate	Degree	360
Swivel	Degree	0-90
Clamp	mm	25 - 146
Top hammer	daNm	106 / 212
Rotary drive	daNm	212
Double head	daNm	on request

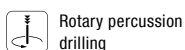
Deliverable with

Hydraulic control panel	
Radio or cabel control	inclusive
Digital display radio control	optional
Anti jamming system	inclusive
Adjustable percussion mechanism	inclusive
Threaded gear	on request
Swivel 90°	inclusive
Breaking device	optional
Drilling guide	optional
Internal power supply	optional
Central lubrication	optional
Telescopic chain feed	on request
Walking foot	optional
Vacuum cleaning	on request
Rod magazine	on request
Pulling winch	on request

Drilling methods Application ideal Application conditionally possible

Drilling method	ø mm	33	45	57	76	89
Blast hole / Rock drilling	ø mm	33	45	57	76	89
KSB® Anchor drilling	ø anchor	R32	R38	R51	T76	T114
Rotate- / Downhole Drilling	ø mm	70	90	140	178	250
Casing drilling	ø mm	114	133	152	178	219
Core drilling	mm	100	131	146	200	254
Injection connector	mm			1"		

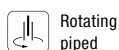
1. Without safety device according to standard EN16228



Rotary percussion drilling

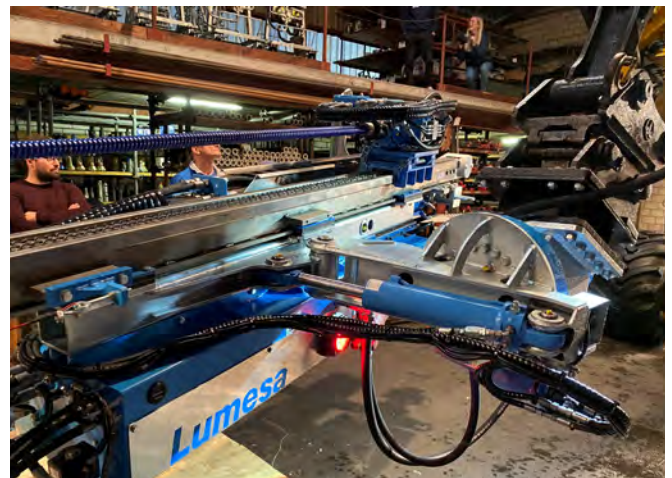
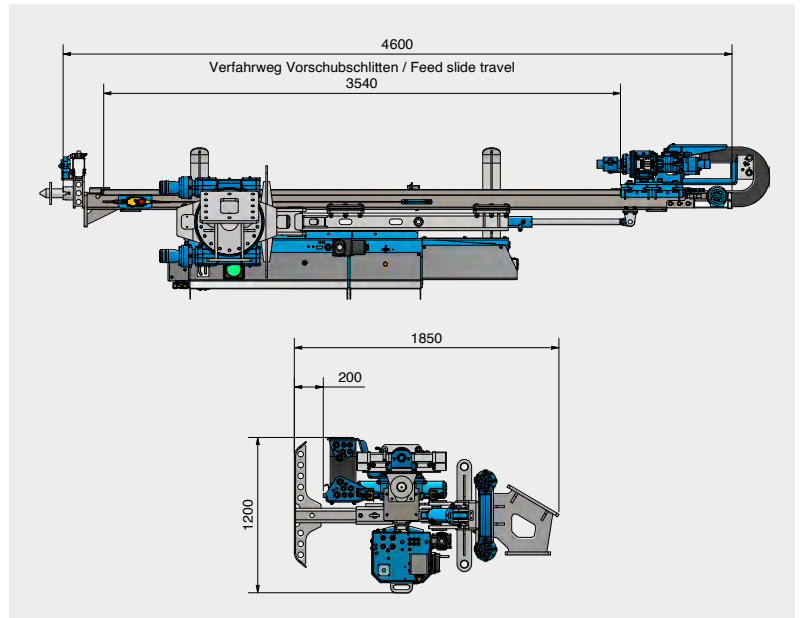


Rotating unpiped



Rotating piped

System drawing



LDA 92P

Lumesa Drilling Attachment



Heavy-duty attachable crawler on 16 t excavator with state-of-the-art technology, high manoeuvrability, (360° rotation, 90° swivel and 600 mm displacement) very high torque and retraction forces. The drilling attachment is simply mounted to the excavator by means of a quick hitch and without tools. The control system as well as the optional power supply is located in a package on the mount. The drill mast is radio remote controlled. The most important drilling parameters can be read on a digital display. A drilling angle display as well as an anti-jaming system make the drill rig even more efficient.

Optionally, a walking foot can be mounted for use on a walking excavator. A clamping and breaking device also allows for cased drilling.

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

LDA 92P

Specifications



Operating weight excavator t		> 16
Weight ¹	kg	1'800 / 2'000
Oil requirement	l/min / bar	160 / 230
Feed / Retrait force	kN	40
Torque max.	daNm	500
Feed	mm	3'540
Dimensions	mm	4'900 / 1'200 / 1'850
Chain feed profil	BL	92
Rotate	Degree	360
Swivel	Degree	0-90
Clamp	mm	30-170
Top hammer	daNm	250 / 500
Rotary drive	daNm	500
Double head	daNm	on request

Deliverable with

Hydraulic control panel	
Radio or cabel control	inclusive
Digital display radio control	optional
Anti jamming system	inclusive
Adjustable percussion mechanism	inclusive
Threaded gear	on request
Swivel 90°	inclusive
Breaking device	optional
Drilling guide	optional
Internal power supply	optional
Central lubrication	optional
Telescopic chain feed	on request
Walking foot	optional
Vacuum cleaning	on request
Rod magazine	on request
Pulling winch	on request

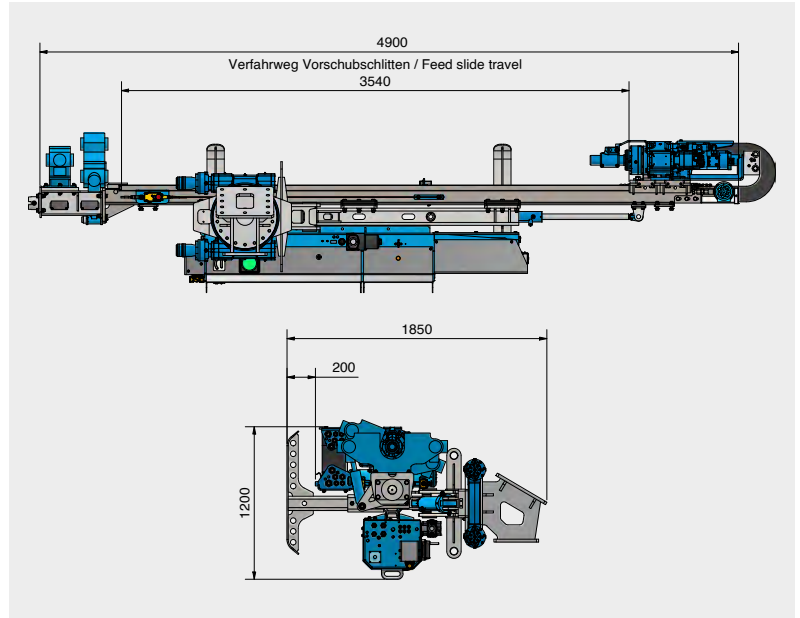
Drilling methods Application ideal Application conditionally possible

	ø mm	33	45	57	76	89
Blast hole / Rock drilling	ø mm	33	45	57	76	89
KSB® Anchor drilling	ø anchor	R32	R38	R51	T76	T114
Rotate- / Downhole Drilling	ø mm	70	90	140	178	250
Casing drilling	ø mm	114	133	152	178	219
Core drilling	mm	100	131	146	200	254
Injection connector	mm	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	140 / 70	200 / 140 / 70
Impact frequency max.	1/min	2'500	2'500 ÷ 4'500
Impact energy/power	Nm (KW)	205	157
Air requirement	m ³ /min bar	4 @ 6	
Oil requirement	l/min bar	20 ÷ 40 / 175	40 ÷ 80 @ 175
Insertion end	Typ R	R25, R32, R38, R51	R25, R32, R38, R51
	Typ IB	30, 40, 52	30, 40, 52
Suitable for chain feeds	Typ	90 / 91 / 92	91 / 92



pneumatic drive



hydraulic drive



Rotary percussion drilling

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



HD RD



RH 3X



20 15



RH 4X



20 15



RH 5X



20 40

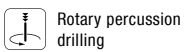


RH 10X



20

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



Rotary percussion drilling



Rotating unpiped



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

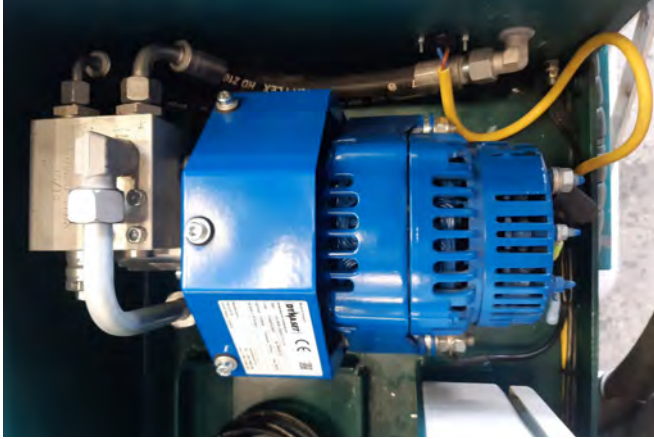
High rotation version, including flushing head. Available in different sizes (U/min)

Suitable for diamond core drilling



Accessories

Generator



Pulling winch attached to the underside of the chain feed



Suction hood



Walking foot easily demountable



Hydroclamps



HZ 100



HZ 180



Hydraulic Breaking Device

Weight	kg	20	40	100
Closing force	kN	100	180	180
Breaking torque	kNm			30
Clamping range Ø 116	mm	25 – 116		
Clamping range Ø 146	mm	55 – 146	30 – 154	
Clamping range Ø 181	mm		90 – 181	60 – 180
Use on chain feed		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



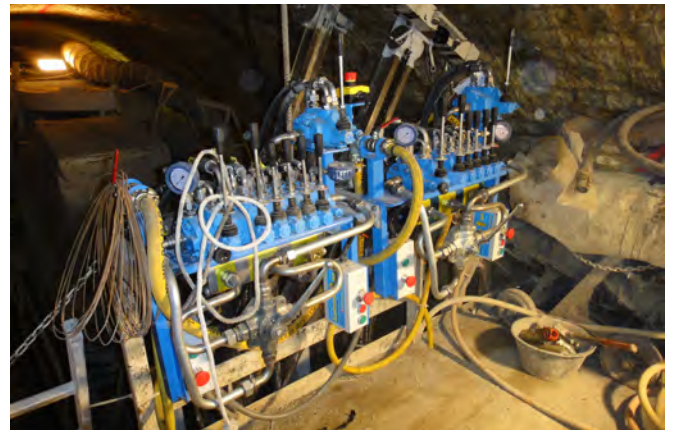
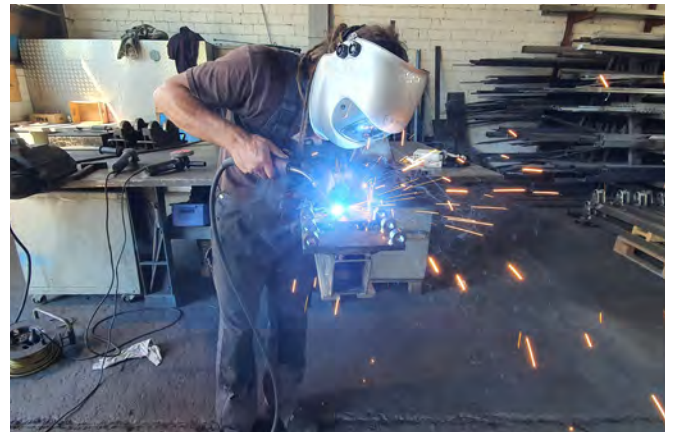
Special Solutions

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

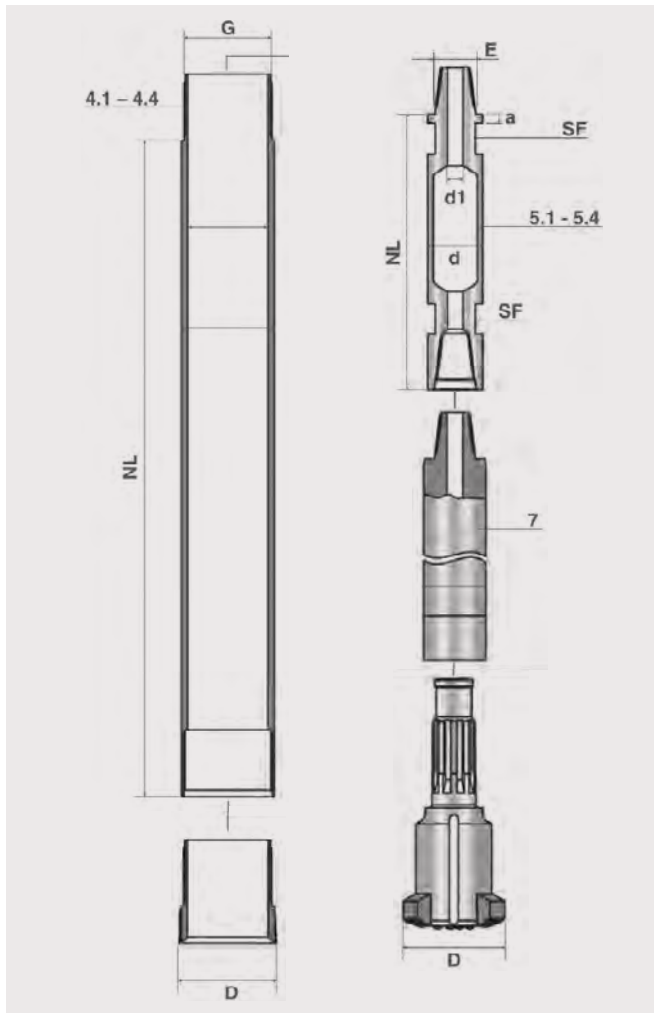
Do you have a special civil engineering task for which there has been no solution so far? Then this is a very special challenge for us.



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

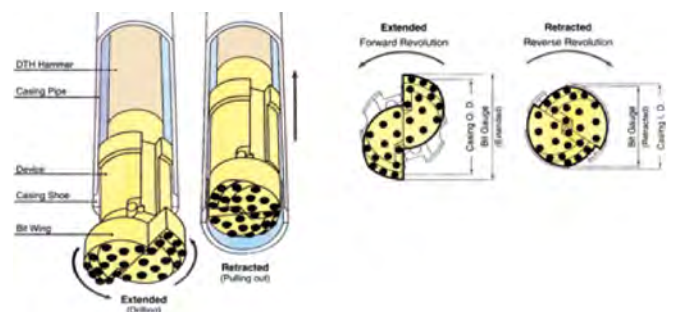


The **Lumetrix** makes it possible to create a cased borehole. The casing is used for safe installation in unstable soils of anchors or piles.

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.



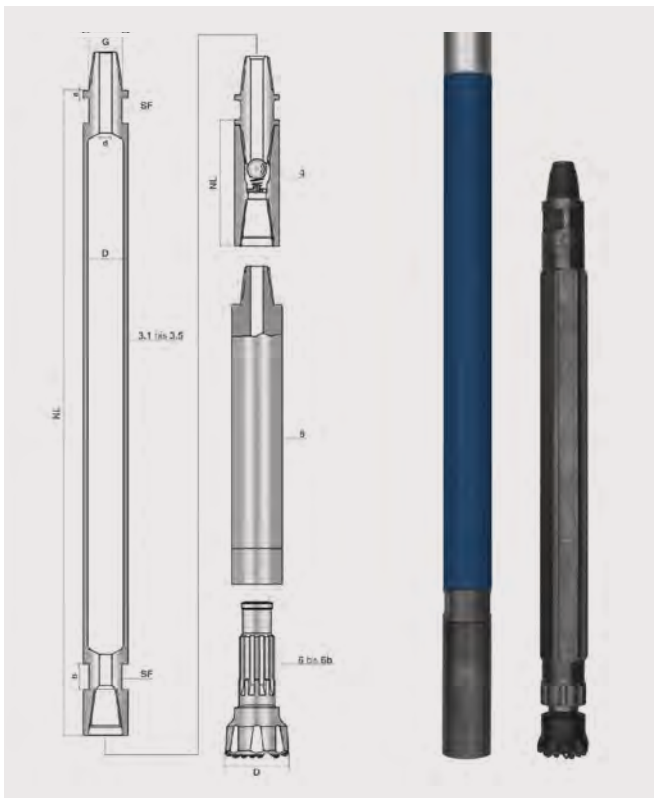
Drilling Tools

Lumesa DTH (Down-the-hole hammer)

		Lumesa DTH 2"	Lumesa DTH 3"	Lumesa DTH 4"
Drilling diameter	mm	72–80	85 – 120	110 – 185
Down-the-hole hammer	"	62	78	95
Drill bit	∅	72 76 80	85 92 100 110 120	110 120 130 150 165 185
Drill bit 1 m (length)	∅	60	70 76	76
Drill bit 1.5 m (length)	∅	60	70 76	76
Drill bit 2 m (length)	∅	60	70 76	76
Drill bit 3 m (length)	∅	60	70 76	76
Adapter MT/VT		Rd50 / (Rd 40)	Rd50 / API 2 3/8"	API 2 3/8
Injector MT/VT		Rd50	Rd50 / Rd50 API 2 3/8 / API 2 3/8	API 2 3/8" / API 2 3/8"
Submersible valve MT/VT			Rd50 / Rd50 API 2 3/8 / API 2 3/8	API 2 3/8 / API 2 3/8

Accessories

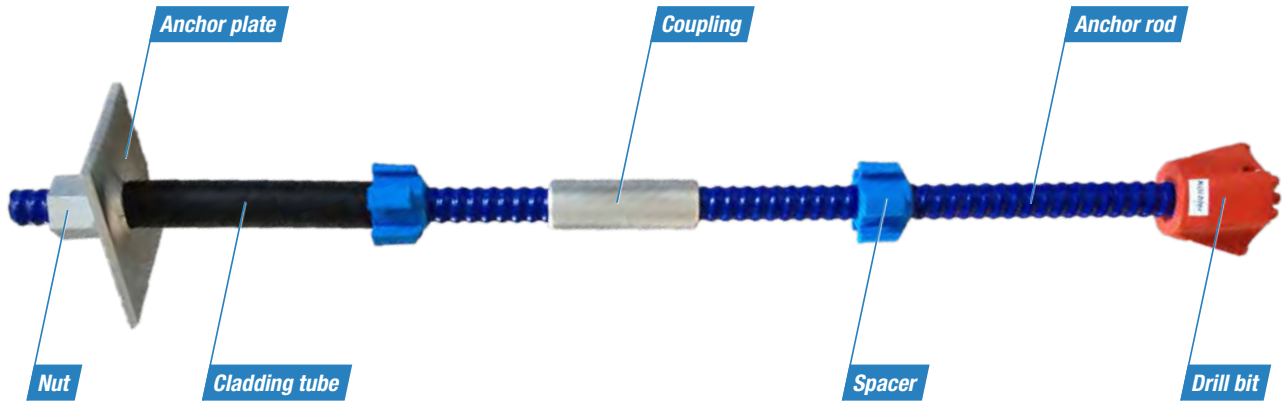
Impact spanner	optional	optional	optional
Double spanner	optional	optional	optional
Copper spray (antigrip)	optional	optional	optional
Arresting mandrel	optional	optional	optional



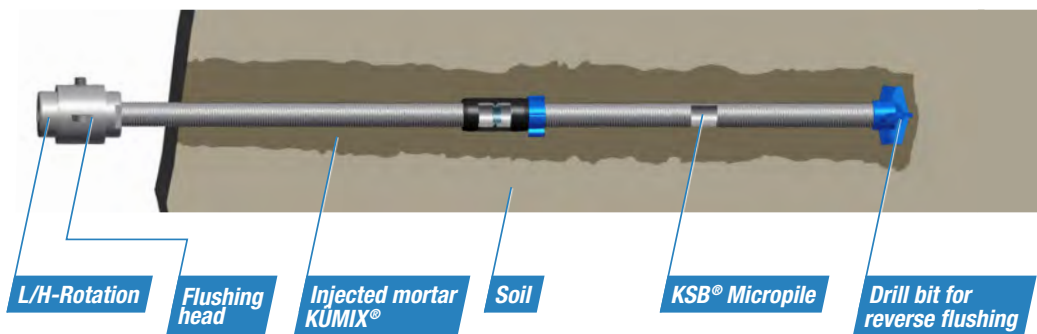
KSB®

Self-drilling anchor

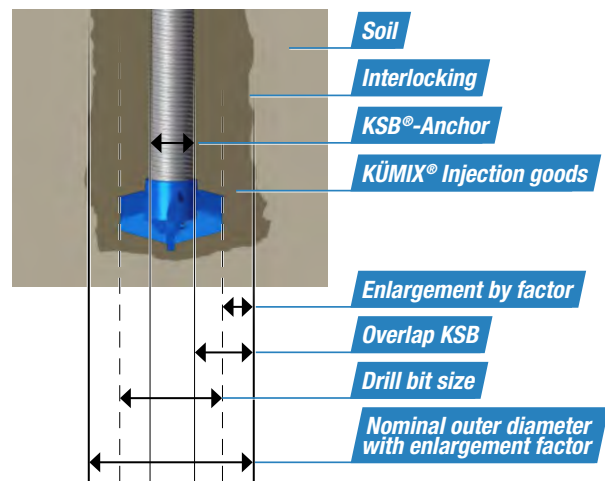
Anchor pile



System in use



Description



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

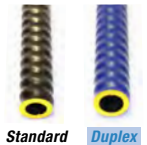


KUPS

Article no.	Size Ⓟ				Size Ⓞ		Failure load F _{ik} / kN	Yield str. F _{yk} / 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	12.73
● T76/55* 10-10 076 55 10					▨		1 300	1 000	15.75
● T76/51* 10-10 076 51 10					▨		1 600	1 200	18.86
● T76/41 10-10 076 41 10					▨		2 000	1 600	21.95
● 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 _{ik} / kN	Yield str. F _{yk} / kN	Weight kg
	R32	R38	R51	T64	T76	T114			
● R51/77* 10-10 051 07 T 10			■				1 000	800	8.00
● R51/97* 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 _{ik} / kN	Yield str. F _{yk} / 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



Lumesa Injection

Lumesa
■ Drilling Technology

Lumesa IMP E

Injection mix pump



Specifications



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

Available with

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

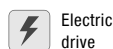
Gear motor	4.2 kW – 242 Upm	5.5 kW – 406 Upm	5.5KW + FU 100 – 406 Upm
Gear	Spur gear	Spur gear	Spur gear
Electrical connection	16 A/ 5-polig	16 A/ 5-polig	16 A/ 5-polig
Generator	mind. 15 kVA	mind. 20 kVA	mind. 18 kVA

Flow rate & Pressure

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



● Eccentric screw pump EP



Electric drive

Injection systems



K Mini-Pump



K Mini MUNGGO®



K MUNGGO®



K MUNGGO® 20F



K VARIO MUNGGO®

Max delivery rate	ℓ/min	0.7–6	16	60	14–60	6.6–17 / 9.8–26
Pump pressure max.	bar	15	30	60	60	60
Grain size max.	mm	1	1	2	2	2
Pump type		● EP	● EP	● EP	● EP	● EP
Adjustable quantity		stepless			stepless	stepless
Drive		CH 3 Pol	CH 3 Pol	Euro 16 A	Euro 16 A	Euro 16 A
Electrical connection		1.8 kW / 230 V	1.5 kW / 230 V	4.2; 5.5 kW / 400V	5.5 kW / 400V	6.4 kW / 400 V
Drive				on request		
Mixer mode			continuos mixer	continuos mixer	continuos mixer	continuos mixer
Mixer content	ℓ					
Mixer performance*	m ³ /h					
Buffer tank content	ℓ					
Transport length	mm	800	870	1'800	1'900	1'550
Length	mm	1'000	1'500	2'000	2'100	1'950
Width	mm	550	530	640	640	660
Height	mm	930	530	835	950	910
Weight	kg	33	114	160	170	259

Available with

Remote control				optional	inclusive	inclusive
Cable control	optional	optional		optional	optional	inclusive
Link to Gerlogg				optional	optional	optional
Water meter						
Water tank						
Silo compatible				optional	optional	optional
Agitator in buffer tank						
Stepless		optional			inclusive	inclusive

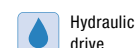
Other sizes, designs and features on request.

E Electric drive, manual operation
A Electric drive automatic
H Hydraulic drive, manual operation

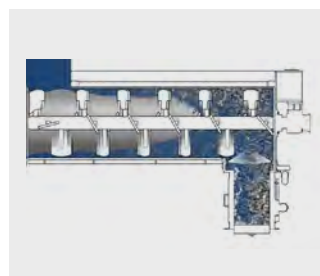
HD High pressure
C Container construction
VA Stainless steel execution

WT Water tank
EF Electric drive, frequency controlled
PP Double plunger pump

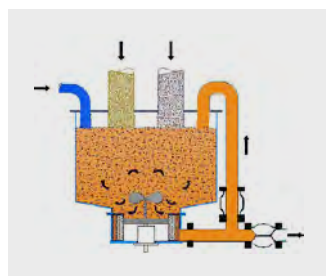
● Eccentric screw pump EP
● Double plunger pump PP



Mixer mode



Continuous mix



Colloidal mix

Pump type



Eccentric screw pump EP

Conveying hoses

for injection systems

Conveying hose 60 K MUNGG®



Code nr.	Type bar	Length m
51-0025 10	60	10
51-0025 20	60	20

inkl. fix coupling

Fix coupling MT K MUNGG®



Code nr.	Type bar	Thread inch
51-022500	60	1

inkl. gasket

Sponge rubber ball



Code nr.	Diameter mm
51-070090	30
51-070095	35

Fix coupling VT K MUNGG®



Code nr.	Type bar	Thread inch
51-022510	60	1

Fix coupling gasket K MUNGG®



Code nr.	Type bar
51-022545	60

Injections monitoring & controlling

Flow pressure tester



Code nr.	bar
51-930005	100

inkl. Fix coupling NW 25

K Injection pressure switch



Code nr.	bar
51-930010	60

inkl. Fix coupling NW 25 and connection cable

Flow meter



Code nr.	bar
55-500600	60

inkl. Fix coupling NW 25

Data logger



Code nr.	bar
52-DMS-100bar	100
52-DMS-40bar	40

inkl. Fix coupling NW 25 and frame with measuring unit.

Injection frame with discharge tap 1"



Code nr.	bar
51-930001	100

Team

Lumesa SA – Switzerland



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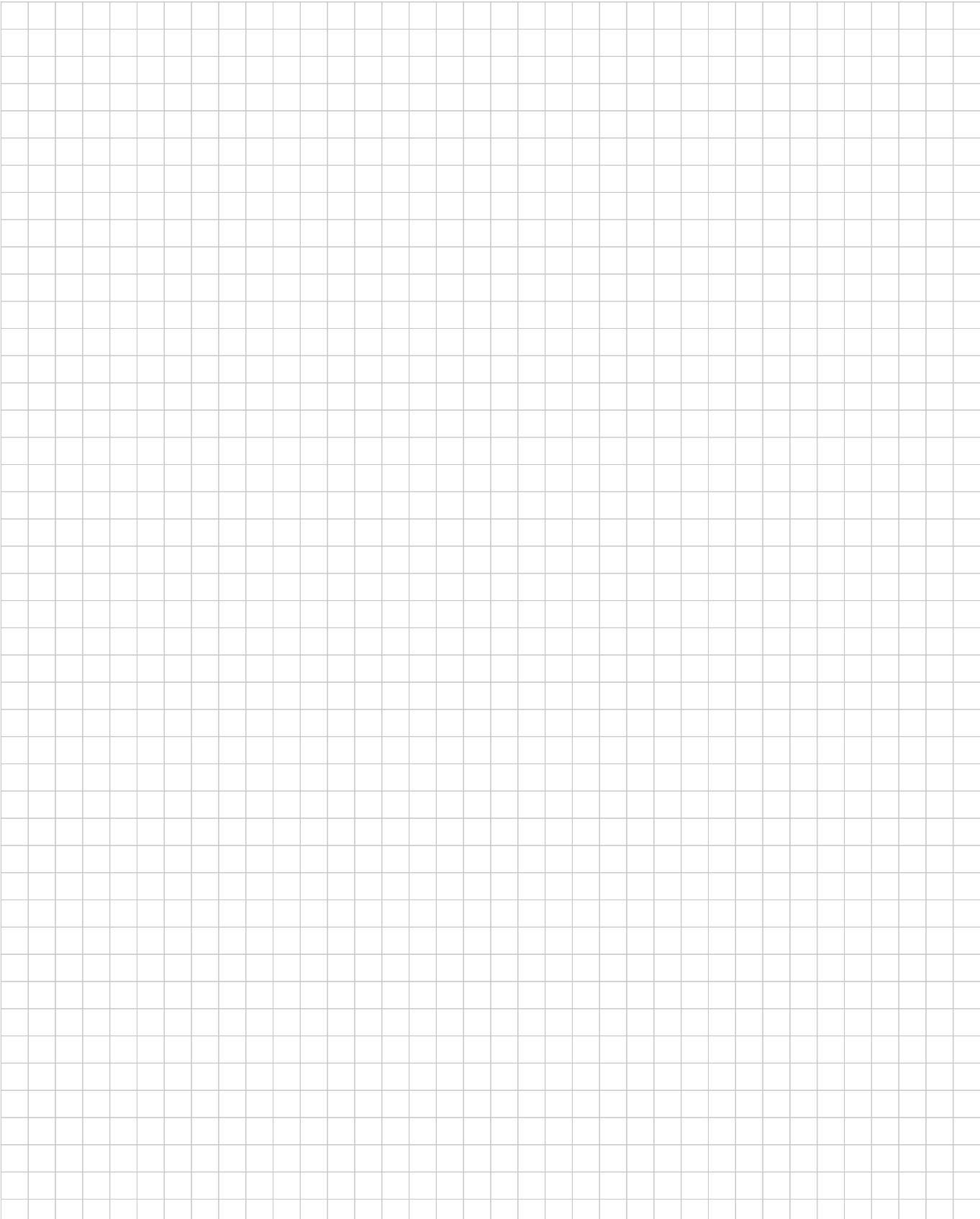
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Directions

Lumesa Switzerland and Austria

Lumesa Switzerland

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Via Bellinzona 5
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Switzerland

Tel +41 91 829 26 41
info@lumesa.ch
www.lumesa.ch

Driving directions

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



Lumesa Austria

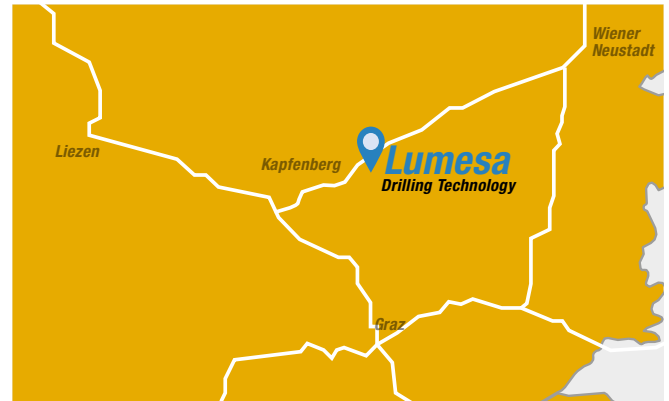
Contact

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office@lumesa.at
www.lumesa.at

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Directory «Industriezone Werk VI»



Locations

