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 100 mm drill holes.
- Blast hole rock drilling
- Working on the walking excavator





Technical specifications

INOX

LDA 91

Specifications

Operating weight excavator	t	> 8
Weight [1]	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	4'550 / 1'000 / 850
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	inclusive
Radio remote control with display	optional
Anti-jamming automatic	inclusive
Adjustable percussion mechanism	inclusive
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"		

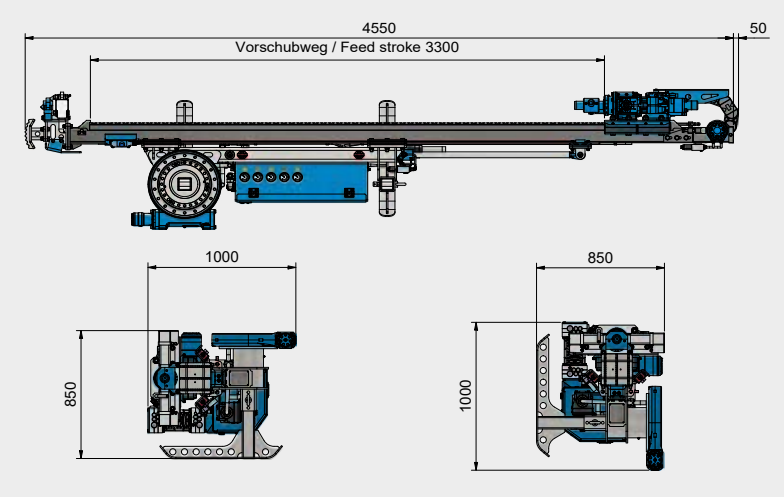
1. Without safety device according to standard EN16228

Rotary percussion drilling ***KSB®***

Rotating unpiped

Rotating piped

System drawing

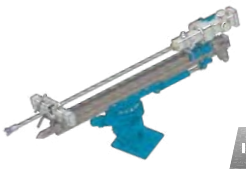






LDA Excavator mounted drill feeds

Overview







Specifications		LDA 91 Mounty®	Mounty® Connect	LDA 91
Operating weight excavator	t	> 6	> 4	> 8
Weight [1]	kg	550	340 – 400	770 / 1'150
Oil requirement	l/min / bar	60 / 200		120 / 230
Feed/Pullback force	kN	20 / 40	20 – 40	20
Torque max.	daNm	500		212
Feed stroke	mm	on request	1'300 – 3'000	3'300
Dimensions (LxBxH)	mm	on request	1'700 / 1'350 / 750	4'550 / 1'000 / 850
Drill feed profile	BL	91 / 92	92 / 92	91
Slew	Degree	360	360	360
Tilt	Degree	±90	±90	0 – 90
Clamping device		25 – 146		25 – 146
Top hammer	daNm	150		106 / 212
Rotary head	daNm	on request		on request
Double head	daNm			

Deliverable with

	LDA 91 Mounty®	Mounty® Connect	LDA 91
Hydraulic control panel	inclusive		
Radio remote control	optional	inclusive	inclusive
Radio remote control with display	optional		optional
Anti-jamming automatic	optional	inclusive	inclusive
Adjustable percussion mechanism	inclusive	inclusive	inclusive
Thread synchronization	optional	on request	on request
Tilt 0 – 90°		optional	optional
Breaking device		optional	on request
Drill guide	optional	optional	optional
Powerbox (control voltage)	optional	optional	optional
Lubrication pump drill drive	optional	optional	optional
Rotary union			on request
Walking foot with swamp plate	optional		optional
Dust collector	optional		on request
Rod handler			on request
Cable winch		on request	on request

		LDA 91 Mounty®					Mounty® Connect					LDA 91				
Blast hole / Rock drilling	ø mm	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
Rotary-/Down-the-hole (DTH) drilling	ø mm	70	90	140	178	250	70	90	140	178	250	70	90	140	178	250
Cased drilling	ø mm	114	139	168	178	219	114	139	168	178	219	114	139	168	178	219
Core drilling	ø mm	100	131	146	200	254										
Injection port	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







Specifications

		LDA 92	LDA 92P	LDA 92P DH
Operating weight excavator	t	> 12	> 16	> 18
Weight [1]	kg	1'375 / 1'500	1'550 / 1'750	1'850 / 2'050
Oil requirement	l/min/bar	120 / 230	165 / 230	170 / 230
Feed/Pullback force	kN	40	40	40
Torque max.	daNm	212	500	500
Feed stroke	mm	3'540	3'540	2'700
Dimensions (LxBxH)	mm	4'750 / 1'100 / 1'700	4'950 / 1'100 / 1'700	4'950 / 1'100 / 1'700
Drill feed profile	BL	92	92	92
Slew	Degree	360	360	360
Tilt	Degree	0 – 90	0 – 90	0 – 90
Clamping device		30 – 180	30 – 180	30 – 180
Top hammer	daNm	106 / 212	250 / 500	
Rotary head	daNm	on request	on request	
Double head	daNm			500 / 250

Deliverable with

	LDA 92	LDA 92P	LDA 92P DH
Hydraulic control panel			
Radio remote control			
Radio remote control with display	inclusive	inclusive	inclusive
Anti-jamming automatic	inclusive	inclusive	inclusive
Adjustable percussion mechanism	inclusive	inclusive	
Thread synchronization	on request	on request	on request
Tilt 0 – 90°	inclusive	inclusive	inclusive
Breaking device	optional	optional	inclusive
Drill guide	optional	optional	optional
Powerbox (control voltage)	optional	optional	optional
Lubrication pump drill drive	optional	optional	optional
Rotary union	on request	on request	on request
Walking foot with swamp plate	optional	optional	optional
Dust collector	on request	on request	
Rod handler	on request	on request	
Cable winch	optional	optional	optional

		LDA 92					LDA 92P					LDA 92P DH				
Blast hole / Rock drilling	ø mm	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					
Rotary-/Down-the-hole (DTH) drilling	ø mm	70	90	140	178	250	70	90	140	178	250					
Cased drilling	ø mm	114	133	152	178	219	114	133	152	178	219	114	133	152	178	219
Core drilling	ø mm															
Injection port	inch	1"					1"					1"				

1. Without safety device according to standard EN16228

Rotary percussion drilling ***KSB®***

Rotating unpiped

Rotating piped

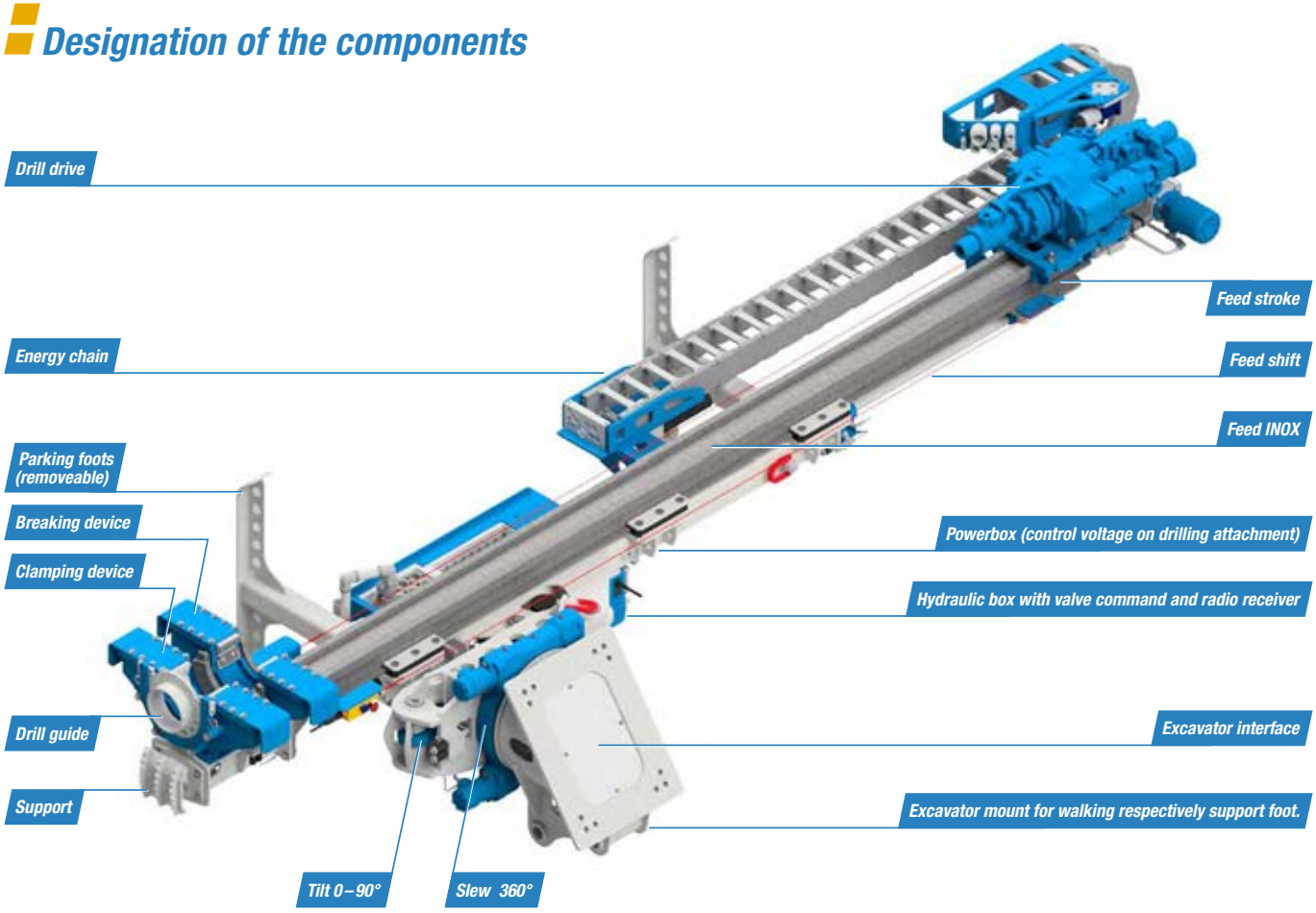
Rotary impact with damping system

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



Slope stabilization



Head hole drilling



Trench drilling



Advance drilling

Accessories

Powerbox (control voltage)



Winch for lifting the drill pipes



Dust collector



Walking foot easy to remove

