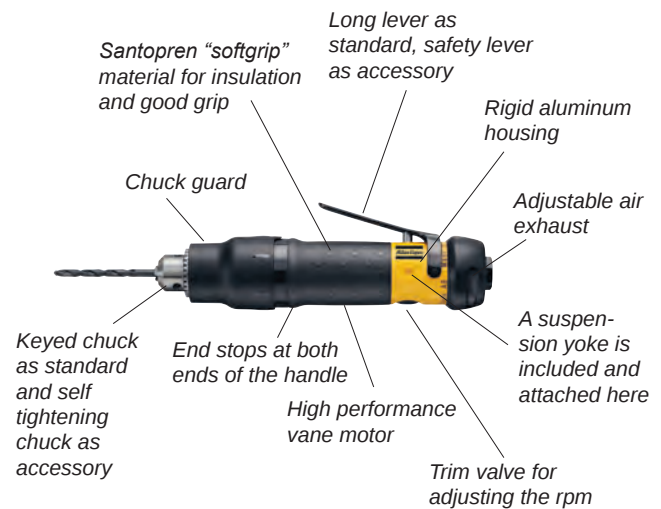


Drills

LBB 16 FEATURES



LBB 16S FEATURES



Selection Guide

The speed for a specific drilling operation should be chosen on the basis of the material in the workpiece and the diameter of the hole.

In the selection guide, you will find proposals for suitable free speeds for selection of the correct tool.

Please use the information below as a guide only. Many variables contribute to the optimal speed choice for a specific application.

Cutting speed ^a m/min	Material		rpm																											
			300	400	500	600	700	800	1000	1200	1300	1500	1700	1900	2200	2400	2600	2900	3000	3300	3700	3800	4500	5500	6000	6400	6500	20000	23000	26000
5	Cast iron	Titanium	5	4	3	3	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10			11	8	6	5	5	4	3	3	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15			12	10	8	7	6	5	4	4	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
20			16	13	11	9	8	6	5	5	4	4	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2
25						13	11	10	8	7	6	5	5	4	4	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2
30	Hard plastics	Mild steel							10	8	7	6	5	4	4	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2
35									9	8	7	6	5	4	4	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2
40										10	8	7	6	5	4	4	3	3	3	3	3	3	2	2	2	2	2	2	2	2
45											10	8	7	6	5	4	4	3	3	3	3	3	2	2	2	2	2	2	2	2
50												9	8	7	6	5	4	4	3	3	3	3	2	2	2	2	2	2	2	2
55	Composite	Aluminum and bronze										10	9	8	7	6	5	4	4	3	3	3	3	3	3	3	3	3	3	3
60												11	10	9	8	7	6	5	4	4	3	3	3	3	3	3	3	3	3	3
65												12	11	10	9	8	7	6	5	4	4	3	3	3	3	3	3	3	3	3
70												13	12	11	10	9	8	7	6	5	4	4	3	3	3	3	3	3	3	3
75												14	13	12	11	10	9	8	7	6	5	4	4	3	3	3	3	3	3	3
80												15	14	13	12	11	10	9	8	7	6	5	4	4	3	3	3	3	3	3
85												16	15	14	13	12	11	10	9	8	7	6	5	4	4	3	3	3	3	3
90																														
95																														
100																														
105	Wood and board	Wood and board																												
110																														
115																														
120																														
125																														
130																														
135																														
140																														
145																														
150																														

^a Remember that, if the speed is too low the cycle time increases.

Regardless of which model you choose, you'll get a product with superior ergonomics and productivity.

- Quiet – Very low noise level.
- Comfortable grip – For high precision.
- Two-hand grip available – Gives even greater flexibility.
- Lubrication-free – For clean working environment and operator comfort.



Model	Free speed r/min	Chuck capacity mm	Weight with chuck		Air consumption at free speed		Hose size		Air inlet thread BSP	Power		Stall torque Nm	With chuck Ordering No.	Without chuck	
			kg	lb	l/s	cfm	mm	in		W	hp			Model	Ordering No.
Non-reversible drills with air supply through handle															
LBB16 EP-003 ^b	300	10	0.7	1.5	8.0	17.0	6.3	1/4	1/4	290	0.4	-	8421 0108 01	003-U	8421 0108 02
LBB16 EP-005 ^b	500	10	0.7	1.5	8.0	17.0	6.3	1/4	1/4	290	0.4	21.6	8421 0108 06	005-U	8421 0108 07
LBB16 EP-005-U-AL ^c	500	10	0.7	1.5	8.0	17.0	6.3	1/4	1/4	290	0.4	21.6	8421 0108 16	-	-
LBB16 EP-010	1000	10	0.7	1.5	8.0	17.0	6.3	1/4	1/4	290	0.4	7.8	8421 0108 10	010-U	8421 0108 11
LBB16 EP-010-U-AL ^c	1000	10	0.7	1.5	8.0	17.0	6.3	1/4	1/4	290	0.4	7.8	8421 0108 15	-	-
LBB16 EP-024 ^a	2400	6.5	0.6	1.2	8.0	17.0	6.3	1/4	1/4	290	0.4	4.2	8421 0108 20	024-U	8421 0108 21
LBB16 EP-024-AL ^c	2400	6.5	0.6	1.2	8.0	17.0	6.3	1/4	1/4	290	0.4	4.2	8421 0108 19	-	-
LBB16 EP-033 ^a	3300	6.5	0.6	1.2	8.0	17.0	6.3	1/4	1/4	290	0.4	3.4	8421 0108 30	033-U	8421 0108 31
LBB16 EP-033-AL ^c	3300	6.5	0.6	1.2	8.0	17.0	6.3	1/4	1/4	290	0.4	3.4	8421 0108 18	-	-
LBB16 EP-045 ^a	4500	6.5	0.6	1.2	8.0	17.0	6.3	1/4	1/4	290	0.4	2.0	8421 0108 40	045-U	8421 0108 41
LBB16 EP-045-AL ^c	4500	6.5	0.6	1.2	8.0	17.0	6.3	1/4	1/4	290	0.4	2.0	8421 0108 04	-	-
LBB16 EP-060 ^a	6000	6.5	0.6	1.2	8.0	17.0	6.3	1/4	1/4	290	0.4	1.7	8421 0108 50	060-U	8421 0108 51
LBB16 EP-060-AL ^c	6000	6.5	0.6	1.2	8.0	17.0	6.3	1/4	1/4	290	0.4	1.7	8421 0108 25	-	-
LBB16 EP-200 ^a	20000	6.5	0.6	1.2	8.0	17.0	6.3	1/4	1/4	290	0.4	0.5	8421 0108 60	200-U	-
LBB16 EPX-005 ^b	500	10	0.7	1.5	9.5	20.0	6.3	1/4	1/4	340	0.45	25.2	8421 0108 08	005-U	8421 0108 09
LBB16 EPX-010 ^b	1000	10	0.7	1.5	9.5	20	6.3	1/4	1/4	340	0.45	12.3	8421 0108 12	010-U	8421 0108 03
LBB16 EPX-024 ^a	2400	6.5	0.6	1.2	9.5	20.0	6.3	1/4	1/4	340	0.45	4.9	8421 0108 22	024-U	8421 0108 23
LBB16 EPX-033 ^a	3300	6.5	0.6	1.2	9.5	20.0	6.3	1/4	1/4	340	0.45	3.7	8421 0108 32	033-U	8421 0108 33
LBB16 EPX-045 ^a	4500	6.5	0.6	1.2	9.5	20.0	6.3	1/4	1/4	340	0.45	3.0	8421 0108 42	045-U	8421 0108 43
LBB16 EPX-060 ^a	6000	6.5	0.6	1.2	9.5	20.0	6.3	1/4	1/4	340	0.45	2.3	8421 0108 52	060-U	8421 0108 53
LBB16 EPX-200 ^a	20000	6.5	0.6	1.2	9.5	20	6.3	1/4	1/4	340	0.45	0.6	8421 0108 82	200-U	8421 0108 63
LBB26 EPX-003 ^b	300	13	0.82	1.8	14.5	31.8	10.0	3/8	1/4	500	0.7	53.5	8421 0500 00	003-U	8421 0500 01
LBB26 EPX-005 ^b	500	13	0.82	1.8	14.5	31.8	10.0	3/8	1/4	500	0.7	31.6	8421 0500 02	005-U	8421 0500 03
LBB26 EPX-007 ^b	700	13	0.82	1.8	14.5	31.8	10.0	3/8	1/4	500	0.7	24.6	8421 0500 04	007-U	8421 0500 05
LBB26 EPX-013 ^{ab}	1300	10	0.79	1.7	14.5	31.8	10.0	3/8	1/4	500	0.7	14.7	8421 0500 06	013-U	8421 0500 07
LBB26 EPX-019 ^a	1900	10	0.79	1.7	14.5	31.8	10.0	3/8	1/4	500	0.7	9.9	8421 0500 24	019-U	8421 0500 25
LBB26 EPX-026 ^a	2600	8	0.79	1.7	14.5	31.8	10.0	3/8	1/4	500	0.7	7.7	8421 0500 08	026-U	8421 0500 09
LBB26 EPX-033 ^a	3300	8	0.69	1.5	14.5	31.8	10.0	3/8	1/4	500	0.7	5.7	8421 0500 10	033-U	8421 0500 11
LBB26 EPX-045 ^a	4500	8	0.69	1.5	14.5	31.8	10.0	3/8	1/4	500	0.7	4.1	8421 0500 12	045-U	8421 0500 13
LBB26 EPX-060 ^a	6000	8	0.69	1.5	14.5	31.8	10.0	3/8	1/4	500	0.7	3.3	8421 0500 14	060-U	8421 0500 15
LBB26 EPX-200 ^a	22000	6.5	0.69	1.5	14.5	31.8	10.0	3/8	1/4	500	0.7	0.8	8421 0500 28	200-U	8421 0500 29
LBB36 H005 ^b	500	-	1.2	3.3	16.5	34.9	10	3/8	3/8	700	0.9	43.8	-	-H005U	8421 0408 03
LBB36 H007 ^b	700	13	1.6	3.5	16.5	34.9	10	3/8	3/8	700	0.9	37.2	8421 0408 07	-H007U	8421 0408 05
LBB36 H013 ^a	1300	10	1.5	3.3	16.5	34.9	10.0	3/8	3/8	700	0.9	19.5	8421 0408 15	-H013U	8421 0408 13
LBB36 H026 ^a	2600	10	1.2	2.5	16.5	34.9	10.0	3/8	3/8	700	0.9	10.3	8421 0408 33	-H026U	8421 0408 31
LBB36 H033 ^a	3300	10	1.2	2.5	16.5	34.9	10.0	3/8	3/8	700	0.9	8.6	8421 0408 41	-H033U	8421 0408 39
LBB36 H060 ^a	6000	6.5	1.2	2.5	16.5	34.9	10.0	3/8	3/8	700	0.9	5.0	8421 0408 49	-H060U	8421 0408 47
LBB36 H200 ^a	22000	6.5	1.0	2.2	16.5	34.9	10.0	3/8	3/8	700	0.9	1.3	8421 0408 55	-H200U	8421 0408 53
LBB37 H006	600	13	1.2	2.5	20.5	44.0	10.0	3/8	3/8	820	1.1	48.0	8421 0608 06	-H006U	8421 0608 14
LBB37 H015	1500	10	1.5	3.3	20.5	44.0	10.0	3/8	3/8	820	1.1	22.5	8421 0608 05	-H015U	8421 0608 15
LBB37 H037	3700	10	1.2	2.5	20.5	44.0	10.0	3/8	3/8	820	1.1	9.2	8421 0608 13	-H037U	8421 0608 16
LBB37 H065	6500	6.5	1.2	2.5	20.5	44.0	10.0	3/8	3/8	820	1.1	5.0	8421 0608 11	-H065U	8421 0608 17
LBB37 H230	23000	6.5	1.0	2.2	20.5	44.0	10.0	3/8	3/8	820	1.1	1.3	8421 0608 03	-H230U	8421 0608 18
LBB45 H004 ^b	400	16	4.3	9.3	10.0	21.0	10.0	3/8	1/4	700	0.9	-	8421 0501 16	-	-
LBB45 H006 ^b	600	16	4.3	9.3	10.0	21.0	10.0	3/8	1/4	700	0.9	-	8421 0501 24	-H006U	8421 0501 40
LBB45 H017 ^b	1700	16	4.2	9.3	10.0	21.0	10.0	3/8	1/4	700	0.9	-	8421 0501 32	-	-
ATEX certified models															
LBB26 EPX005-ATEX	500	13	0.82	1.8	14.5	31.8	10	3/8	1/4	500	0.7	-	8421 0500 22	-	-
LBB26 EPX007-ATEX	700	13	0.82	1.8	14.5	31.8	10	3/8	1/4	500	0.7	-	8421 0500 21	-	-
LBB26 EPX013-ATEX	1300	10	0.79	1.7	14.5	31.8	10	3/8	1/4	500	0.7	-	8421 0500 20	-	-
LBB26 EPX026-ATEX	2600	8	0.79	1.7	14.5	31.8	10	3/8	1/4	500	0.7	-	8421 0500 19	-	-

^a Including chuck guard. ^b Including support handle. ^c -AL = Drill nose is non painted silver Aluminum.

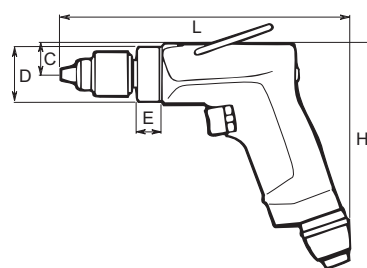
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Model	Torque range soft joint		Free speed r/min	Weight		Length mm	CS distance mm	Air consumption at free speed		Rec. hose size mm	Air inlet thread in	Ordering No.
	Nm	in lb		kg	lb			l/s	cfm			
Reversible drill, taper and screwdriver												
COMBI22 HR2	2.0-2.7	18-24	3600	0.9	2.0	205	20	7	15	8	1/4	8431 0255 89
COMBI22 HR5	2.7-5.7	24-50	1600	0.9	2.0	205	20	7	15	8	1/4	8431 0255 80
COMBI22 HR10	5.0-10.0	44-89	800	1.1	2.4	240	20	7	15	8	1/4	8431 0255 62
COMBI34 HR04	8.0-18.0	71-160	400	1.5	3.3	228	20	9	19	10	1/4	8431 0311 32
COMBI34 HR08	8.0-11.0	71-97	750	1.3	2.9	218	20	9	19	10	1/4	8431 0311 34
COMBI34 HR16	4.0-8.0	35-71	1600	1.0	2.2	179	20	9	19	10	1/4	8431 0311 36

Dimensions

LBB EP/EPX/H

Model	L mm	H mm	C mm	D mm	E mm
LBB16 EP/EPX-200	177	131	16.5	31.4	13.8
LBB16 EP/EPX-060	177	131	16.5	31.4	13.8
LBB16 EP/EPX-045	177	131	16.5	31.4	13.8
LBB16 EP/EPX-033	177	131	16.5	31.4	13.8
LBB16 EP/EPX-024	177	131	16.5	31.4	13.8
LBB16 EP/EPX-010	190	131	16.5	31.4	27.0
LBB16 EP/EPX-005	190	131	16.5	31.4	27.0
LBB16 EP-003	190	131	16.5	31.4	27.0
LBB26 EPX-060	180	147	21	39	-
LBB26 EPX-045	180	147	21	39	-
LBB26 EPX-033	180	147	21	39	-
LBB26 EPX-026	180	147	21	39	-
LBB26 EPX-019	196	147	21	39	-
LBB26 EPX-013	196	147	21	39	-
LBB26 EPX-007	196	147	21	39	-
LBB26 EPX-005	196	147	21	39	-
LBB26 EPX-003	196	147	21	39	-
LBB36 H200	217	157	23	41.5	16.5
LBB36 H060	217	157	23	41.5	16.5
LBB36 H033	217	157	23	41.5	16.5
LBB36 H026	217	157	23	41.5	16.5
LBB36 H013	256	157	23	41.5	64.0
LBB36 H007	256	157	23	41.5	64.0
LBB36 H005	256	157	23	41.5	64.0
LBB37 H230	217	157	23	41.5	16.5
LBB37 H065	217	157	23	41.5	16.5
LBB37 H037	217	157	23	41.5	16.5
LBB37 H015	256	157	23	41.5	64.0
LBB37 H006	256	157	23	41.5	64.0
LBB45 H006	360	185	33	60	113
LBB45 H017	360	185	33	60	113
LBB45 H004	360	185	33	60	113



Accessories Included

Chuck, chuck key, hose nipple.

LBB16 and -36/37 with suspension yoke and with chuck guard where possible.

LBB16 and -36/37 have a 3/8" -24 UNF spindle thread.

LBB36 H005 and LBB37 H006 have a 1/2" -20 UNF thread.

LBB45 has a JT3 taper mount.

Optional Accessories

KEY CHUCKS

Mount	Body diameter mm	Chuck capacity mm	Ordering No.		
			Chuck (key incl)	Key only	Key designation
3/8-24UNF	30	0.0- 6.5	4021 0283 00	4021 0293 00	S1
3/8-24UNF	30	0.5- 8.0	4021 0495 00	4021 0293 00	S1
3/8-24UNF	36	2.0-10.0	4021 0416 01	4021 0449 00	S8
JT3	59	3.0-16.0	4021 0423 00	4021 0301 00	S3



Key chuck

Optional Accessories

QUICK CHUCKS

Mount	Chuck dia mm	Chuck capacity mm	Ordering No.
3/8-24UNF	34	0.0- 6.5	4021 0400 00
3/8-24UNF	34	0.0- 8.0	4021 0401 00
3/8-24UNF	36	0.0-10.0	4021 0402 00
3/8-24UNF	36	2.0-13.0	4021 0403 00



Quick chuck

COLLET CHUCK AND COLLETS

Designation	Capacity		Ordering No.
	mm	in	
Collet	3		4150 0081 00
	6		4150 0075 00
	8	5/16	4150 0074 00
		1/8	4150 0082 00
		5/32	4150 0648 00
		3/16	4150 0649 00
		1/4	4150 0076 00
			4110 0844 90
Collet holder			4150 0760 00
Collet nut			



Collet chuck and collets

CHUCK GUARDS

For model	Max chuck dia mm	Ordering No.
LBB16 ^a	30	4110 1619 04
LBB26	36	4110 1728 02
LBB26	30	4110 1728 03
LBB36 ^b	36	4110 1415 00
LBB37 ^b	36	4110 1415 00

^a The guards do not fit 1000 r/min models, 500 r/min and 300 r/min models.

^b The chuck guards do not fit the 500 r/min, 600 r/min or 700 r/min models.



Chuck guard

FLEX CONNECT

For model	Ordering No.
LBB16	4110 1601 80



Flex connect

SPOT SUCTION ATTACHMENT

For model	Hose size in	Spot suction kit ^a Ordering No.	Hose kit Ordering No.
LBB16	1 1/4	4110 1715 80	4112 1227 00
LBB26	1 1/4	4110 1715 84	4112 1227 00
LBB36/37	1 1/4	4110 1716 80	4112 1227 00

^a Spare part, nose piece kit, Ordering No. 4110 1700 90.

Other standard sizes of front nozzle available.



Spot suction attachment

POWER FEED ARM FOR EXTRA FEED FORCE – LBB36 H005 AND LBB37 H006

	Ordering No.
Adapter piece (SR295), lever arm (SR201), chain (SR202) and No. 2 Morse socket (SR206)	4110 1416 80
Two extension pieces (SR204-1 and SR204-2), 370 and 750 mm long	4110 1417 80
No. 2 Morse socket	4110 1416 01



Power feed arm

Optional Accessories

SUPPORT HANDLES

For model	Ordering No.
LBB16	4110 1355 92
LBB26	4110 1355 95
LBB36/37	4110 1355 82
LBB45	4110 1355 84



Support handle

OPTIONAL ACCESSORIES – LBB45

Designation	Ordering No.
No. 2 Morse socket	4130 1080 00

Productivity Kits

Model	Max air flow	Hose, 5 m	Coupling	Lubrication	Ordering No.
For drills with 1/4" BSP air inlet					
MIDI Optimizer F/RD EQ08-C08	9 l/s	Cablaire 8 mm	ErgoQIC 08	Yes	8202 0850 00
MIDI Optimizer F/R EQ08-C08	9 l/s	Cablaire 8 mm	ErgoQIC 08	No	8202 0850 01
For drills with 3/8" BSP air inlet					
MIDI Optimizer F/RD EQ08-C10	16 l/s	Cablaire 10 mm	ErgoQIC 08	Yes	8202 0850 07
For drills with 3/8" BSP air inlet					
MIDI Optimizer F/RD EQ10-C13	23 l/s	Cablaire 13 mm	ErgoQIC 10	Yes	8202 0850 02
For drills with 1/4" BSP air inlet					
MIDI Optimizer F/RD EQ10-C13-1/4	23 l/s	Cablaire 13 mm	ErgoQIC 10	Yes	8202 0850 11



Service Kits

LBB16	4081 0271 90
LBB26	4081 2028 90
LGB/LBV34	4081 0035 90
LBB36/37	4081 0194 90
LBB45	4081 0139 90