


# "BILINEAR" PULLER-TYPE HOLE PUNCHING TOOL B-FL750ND

## *Series ND, 18V Cordless Hydraulic tool*

 B-FL750ND is the new generation of hand-held cordless tools, characterized by the "Bilinear" structure of the tool's mechanics. Operator comfort and convenience are key factors in producing repeatedly consistent high integrity crimped joints. Cembre 'nd' bilinear tools have their mechanical centre of gravity nearest to the operator's wrist to optimise the overall ergonomics of the tool and provide a wider support for the hand. Thus the innovative misalignment between the pump drive mechanism and the hydraulic system both reduce the torque generated on the operator's wrist and best distribute the stresses acting on the hand.



A greater punch speed and punching force result from a revitalised hydraulic system with double speed action. The balanced punching head pivots 180deg through a full 360deg rotation for ease of use in confined spaces.



Equipped with intelligent automatic return at the end of the pressing cycle (Smart Release).

Equipped with Li-Ion 18 V-2Ah rechargeable high capacity batteries.

Fitted with a maximum pressure sensor for enhanced precision and repeatability of the maximum pressure cycle, and a pressure relief valve providing additional safety for the operator.



The Electronic Pressure Sensor (EPS) guarantees the precision of the crimping operation, checking the actual value of pressure and informing the operator about possible errors.

The OLED display provides essential real time operating data, including:

- > generated crimping force thus verifying accordance with best practice
- > battery charge status
- > general operating information
- > the number of work cycles completed and remaining before recommended maintenance.

Weight and balance have been reconfigured to yield improvements in handling and convenience.

The more rigid structure of the bi-component plastic body provides greater mechanical protection while its rubber inserts boost operator safety and comfort.

Quieter operation, illumination of the working area via LED lights and a minimum of vibration enhance the tool's practicality.



The integrated memory card enables the user to store data from up to 200,000 compression cycles for transfer to a computer via a USB cable. (SMARTOOL technology).

*Operating features:*

- > *Bilinear mechanical design*

- > Smart Release system to automatically retract the ram at the end of the crimping cycle
- > OLED multifunctional display with touch button
- > Electronic Pressure Sensor (EPS)
- > SMARTOOL technology for viewing and downloading operational data
- > 180° rotating head
- > Start button protected against accidental operation
- > Manual pressure release button
- > Illumination of working area via 4 x LED lights
- > Bi-component plastic body
- > Ergonomic design for operator comfort
- > Li-Ion 18.0 V-2Ah rechargeable high capacity battery
- > Battery connection system with release button.

## PUNCHING ACCESSORIES AVAILABLE

ROUND PUNCH									
Hole Diameter					Material max thickness (mm)		Pilot hole Ø	Type	
Nominal		Pg	ISO	GAS	Stainless Steel	Mild Steel		KIT (Punch + Die)	Puller
Ø (mm)	Ø (inch)						(mm)		
15,5	.610	Pg9	-	-			11,5	RD15.5SS	TD-11
16,2	.638	-	ISO-16	-				RD16.2SS	
17	.669	-	-	G3/8"				RD17SS	
17,5	.689	-	-	-				RD17.5SS	
18,8	.740	Pg11	-	-				RD18.8SS	
19,1	.752	-	-	-				RD19.1SS	
20,5	.807	Pg 13,5	ISO-20	-				RD20.5SS	
21,5	.846	-	-	G1/2"				RD21.5SS	

22,6	.890	Pg16	-	-	2,5 mm (0.1 in.) Rm= 700 N/mm <sup>2</sup>	3,5 mm (0.14 in.) Rm= 510 N/mm <sup>2</sup>		RD22.6SS	TD-19
23,8	.937	-	-	G5/8"				RD23.8SS	
25,4	1.000	-	ISO-25	-				RD25.4SS	
27	1.063	-	-	G3/4"				RD27SS	
28,5	1.122	Pg21	-	-				RD28.5SS	
30,5	1.201	-	-	G7/8"				RD30.5SS	
28,5	1.122	Pg21	-	-			20	RD28.5SS-19	
30,5	1.201	-	-	G7/8"				RD30.5SS-19	
31,8	1.252	-	-	-				RD31.8SS	
32,5	1.279	-	ISO-32	-				RD32.5SS	
34	1.338	-	-	G1"				RD34SS	
34,6	1.362	-	-	-				RD34.6SS	
37,2	1.464	Pg29	-	-				RD37.2SS	
38,1	1.500	-	-	-				RD38.1SS	
38,5	1.515	-	-	G1"1/8"				RD38.5SS	
40,5	1.594	-	ISO-40	-				RD40.5SS	
41,3	1.626	-	-	-				RD41.3SS	
42,5	1.673	-	-	G1"1/4"				RD42.5SS	
43,2	1.701	-	-	-				RD43.2SS	
44,5	1.752	-	-	-				RD44.5SS	
47,2	1.858	Pg36	-	-		RD47.2SS			
48,5	1.909	-	-	G1"1/2"		RD48.5SS			
50,5	1.988	-	ISO-50	-		RD50.5SS			
51,4	2.023	-	-	-		RD51.4SS			

52,4	2.063	-	-	-				RD52.4SS	
54,2	2.134	Pg42	-	G1"3/4"				RD54.2SS	
60	2.362	Pg48	-	G2"				RD60SS	
60,5	2.381	-	-	-				RD60.5SS	
64	2.520	-	ISO-63	-				RD64SS	
65	2.559	-	-	-				RD65SS	
76	2.992	-	-	G2"1/2"		3		RD76SS	
76,5	3.011	-	-	-		3,5		RD76.5SS	
80,5	3.169	-	-	-		3		RD80.5SS	
89	3.503	-	-	G3"		3,5		RD89SS	
90	3.543	-	-	-	2	3		RD90SS	
100	3.937	-	-	-	2	3	29	RD100SS	
102	4.015	-	-	-	2	3		RD102SS	
114	4.488	-	-	-	2	2,5		RD114SS	TD-28.5*
120	4.724	-	-	-	1,5	2		RD120SS	
140	5.512	-	-	-	1,5	2		RD140SS	

\* Puller included in the kit

SQUARE PUNCH					
Hole Diameter		Material max thickness (mm)		Pilot hole Ø (mm)	Type
Nominal		Stainless Steel	Mild Steel		KIT (Punch + Die + Puller)
Ø (mm)	Ø (inch)				
21,0 x 21,0	.827 x .827	2,5	3,5	12	RD21X21
46,0	1.811				

x 46,0	x 1.811	1,5	2	26,5	RD46X46
68,0 x 68,0	2.677 x 2.677			22,5	RD68X68
92,0 x 92,0	3.622 x 3.622				RD92X92
126,0 x 126,0	4.960 x 4.960			RD126X126	
138,0 x 138,0	5.433 x 5.433	1	1,5	28,5	RD138X138
220,0 x 220,0	8.661 x 8.661			RD220X220	

		RECTANGULAR PUNCH			
Hole Diameter		Material max thickness (mm)		Pilot hole Ø	Type
Nominal		Stainless Steel	Mild Steel		(mm)
Ø (mm)	Ø (inch)				
18,0 x 46,0	.709 x 1.811	2		16,5	RD18X46
22,0 x 30,0	.866 x 1.181				RD22X30
22,0 x 46,0	.866 x 1.811				RD22X46
35,0 x 86,0	1.377 x 3.385				RD35X86
35,0 x 112,0	1.377 x 4.409				RD35X112
36,0	1.417				

x 46,0	x 1.811	1,5	2	23,8	RD36X46	
37,0 x 54,0	1.456 x 2.125			16,5	RD37X54	
37,0 x 67,0	1.456 x 2.637				RD37X67	
37,0 x 88,0	1.456 x 3.464				RD37X88	
37,0 x 104,0	1.456 x 4.094				RD37X104	
37,0 x 115,0	1.456 x 4.527				RD37X115	
46,0 x 54,0	1.811 x 2.126				26,5	RD46X54
46,0 x 72,0	1.811 x 2.835			RD46X72		
46,0 x 107,0	1.811 x 4.212			RD46X107		
50,0 x 98,0	1.968 x 3.858			RD50X98		
67,0 x 126,0	2.637 x 4.960			28,5		RD67X126

"D" PUNCH					
Hole Diameter		Material max thickness (mm)		Pilot hole Ø (mm)	Type
Nominal		Stainless Steel	Mild Steel		KIT (Punch + Die + Puller)
Ø (mm)	Ø (inch)				
(a)38,3 x	(a)1.507 x				RD18D

(b)36,6	(b)1.442	2,5	3,5	18,5	RD24D
(a)43,1 x (b)41,5	(a)1.696 x (b)1.632				

Acciaio inox = Rm= 700 N/mm<sup>2</sup> - Acciaio dolce = Rm= 500 N/mm<sup>2</sup>

USE OF NON-CEMBRE PUNCHING ACCESSORIES		
Type	Punch & Die	Pilot Hole Ø mm
TRD-9,4C (*)	KLAUKE, GREENLEE 3/8" - 24 UNF	Ø 9.7
TRD-M11C (*)	IMB, BM, COSMEC (M11x1.5)	Ø 11.5
TD-M16C	IMB, BM, COSMEC (M16x1.5)	Ø 16.5 RD17.5SS
TD27	COSMEC (Ø105÷Ø140)	Ø 27.5
TD14X14-M14	COSMEC 46x46	Ø 18.8
TD120X20- M20	COSMEC 92x92	Ø 27.5
TD20X20-M20	B M , C O S M E C 42x95	Ø 27.5
TGD- 13.5X13.5-M13	COSMEC 40x40; 45x45; 46x46	Ø 18.8
TGD-10X10- M9	COSMEC 006505	Ø 13.8

(\*) the washer supplied with the KIT must be threaded onto the draw stud and positioned between the head and the die to allow the die to rest correctly

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## *List of products*

<b>B-FL750ND</b>									
Type	Maximum diameter pierceable	Battery material	Battery voltage	Battery current	Length	Height	Width	Weight	Type of action
B-FL750NDA	5.51 in.	Li-Ion	18 V	2 Ah	5.35 in.	18.66 in.	3.19 in.	9.02 lbs.	Hole punching