



FG60GUN/FG60GUNEL



FG-ABRA



FG-BASE



FG-CAEL



FG-ARAM



AB-GU



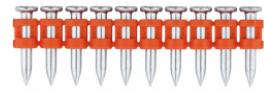
FG-PLET



AB-MUG



FG-CL



FG-CLH



FG60GAS



FG-IMAN



FG-BAT



AB-PID



FG-CLCAR40



FG-CAR



OME

CHARACTERISTICS

- Direct fixing consisting of nail pressing by means of the energy liberated in a gas combustion
- Instant, autonomous and fast fixings with automatic system.
- Average power and high performance of the battery.
- Belt hook and ladder hook, for comfortable carrying and stand-bys at installations
- 2 years warranty.

BASE MATERIAL



1. RANGE

1.1 GUN

ITEM	CODE	PHOTO	DESCRIPTION
1	FG-GUN		Semiautomatic gas gun for drywall applications and different base materials
2	FG-GUNEL		Semiautomatic gas gun +special nose for electrical accessories

1.2 GUN ACCESORIES

ITEM	CODE	PHOTO	DESCRIPTION
1	FG-IMAN		Magnet
2	FG-BAT		Battery
3	FG-CAR		Charger
4	FG-GAS		Gas cartridge
5	FG-CAEL		Special nose for electrical accessories
6	FGCLCAR40		Gun charger for 40 nails

1.3 NAILS

ITEM	CODE	PHOTO	SIZES	COVERING	DESCRIPTION
1	FG-CL		From 2,6 x 15 mm to 2,6 x 40 mm		Standard nail
2	FG-CLH		From 3,1 x 15 mm to 3,1 x 32 mm		Hard materials nails

1.4 ACCESORIES

ITEM	CODE	PHOTO	SIZES	MATERIAL	DESCRIPTION
1	FG-PLET		M6 and M8		Threaded rod hanger
2	FG-BASENE		--		Base flange
3	FG-BASEGR		--		Base flange
4	FG-ARAM		Ø25		Metallic rim
5	FG-ABRA15		Ø 15-18		Universal conduit and pipe clip
	FG-ABRA20		Ø 20-25		
	FG-ABRA25		Ø 25-32		
6	AB-GU		De Ø 12 a Ø 50 mm		Guide clamp with M6 thread
7	AB-MUG		De Ø 12 a Ø 50 mm		Guide clamp and lock
8	AB-PID		De 16 x 1mm hasta 32 x 1,2 mm		Clip clamp
9	OME		--		Universal anchor

* 2 years warranty

2. CONCRETE GAS-NAILER


Gas gun
FG60GUN

- Sturdy case
- 2 Li-Ion batteries
- Charger
- Service instructions
- Allen wrench
- Ear plugs

Gas gun + Special nose
FG60GUNEL

- Sturdy case
- Cannon for electrical sector
- Magnet accessory
- 2 Li-Ion batteries
- Charger
- Service instructions
- Allen wrench
- Ear plugs

Properties:

- High-capacity Li-Ion battery with LED charge indicator
- Light and well balanced
- Adjustable penetration depth
- Levelling foot for 90° nailing

Applications: Laminated plasterboard installers and electrical installations.

TECHNICAL DATA

Dimensions	327mm / 130mm / 385mm
Weight	3.8 kg
Operation mode	Gas cartridge
Security system	Single sequence drive
Battery characteristics	7,2 voltios / 2.500 mAh
Battery charging time	90 minutes
Type of nail	Steel nail
Ø Nails	2,6 – 3,0 mm
Length	15 – 40 mm
Standard nail charger capacity	20 nails
Large nail charger capacity	40 nails
Average number of shots with a fully charged battery	8.000 shots
Average number of shots per gas cartridge	1.200 shots
Emission sound pressure level at work station	L pA, 1s = 101.5 dB
Single shot emission sound pressure level	L pA, 1s = 104.1 dB
Vibration level according to ISO 8662-11	2.83 m/s ²

REGULATIONS

CE conformity	
EN 12100:2010	
EN 792-13-2000 + A1:2008 for 2006/42/EC directives	

3. INSTALLATION DATA

3.1 FG-CL

Standard nail

		Covering	Base material	
				
			Reinforced concrete	Concrete
Installation data				
Code	Ø d (mm)	Ø D (mm)	L (mm)	DRAWING
FGCL15	2,6	6,3	15	
FGCL20	2,6	6,3	20	
FGCL25	2,6	6,3	25	
FGCL30	2,6	6,3	30	
FGCL35	2,6	6,3	35	
FGCL40	2,6	6,3	40	

3.2 FG-CLH

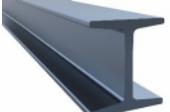
Hard materials nails

		Covering	Base material		
					
		Zinc plated	IPN beam	Reinforced concrete	Concrete
Installation data					
Code	Ø d (mm)	Ø D (mm)	L (mm)	DRAWING	
FGCLH15	3,0	6,3	15		
FGCLH17	3,0	6,3	17		
FGCLH19	3,0	6,3	19		
FGCLH22	3,0	6,3	22		
FGCLH27	3,0	6,3	27		
FGCLH32	3,0	6,3	32		

Compatible with nailers: Index (models FG60GUN and FG60GUNEL); FOX nailer from Celo, BOSS G42 from Bossong, CGB3-1 from Berner and CN40-G643E from KMR.

3.3 FG-PLET

Threaded rod hanger

	Covering	Base material		
				
	Zinc plated	IPN beam	Reinforced concrete	Concrete

Installation data

Code	Width (mm)	Thickness (mm)	Maximum recommended load (kg)	Characteristics
FGPLET	20	1,5	5	<ul style="list-style-type: none"> Threaded rod hanger for M6 and M8

Compatible with nailers: Index (models FG60GUN and FG60GUNEL); Spit (models: 800E, 27E, 40E), Fischer FGC100, Celo FOX, Rawlplug R-RAWL-SC40II, Bossong BOSS G42, Berner CGB3-1 and KMR CN40-G643E. It is necessary to have the accessory of the magnet of the nailer.

3.4 FG-BASE

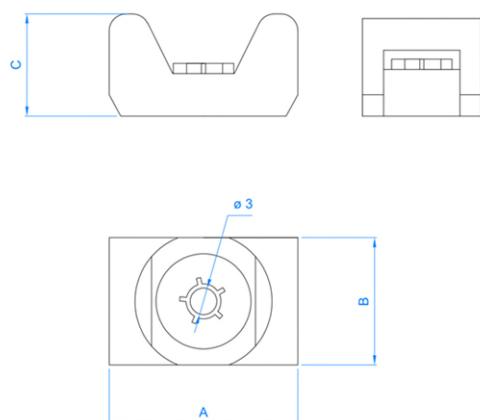
Base flange

		Material	Base material			
						
		Nylon	Steel pipes	Wires	Copper pipes	PVC pipes

Installation data

Code	ØD [mm]	Dimensions (mm)	Colour	Characteristics
FGBASENE	3	22,3 x 15 x 12	BLACK	<ul style="list-style-type: none"> To hold light steel, copper, plastic and cable pipes. Resistant to ultraviolet rays, UV. Material: polyamide.
FGBASEGR	3	22,3 x 15 x 12	RAL 7035	

DRAWING



Compatible with nails: Index (models FG60GUN and FG60GUNEL); Spit (models: 800E, 27E, 40E), Fischer FGC100, FOX Heat from Celo, R-RAWL-SC40II, Rawlplug, BOSS G42 Bossong, CGB3-1 Berner and CN40-G643E KMR.

3.5 FG-ARAM

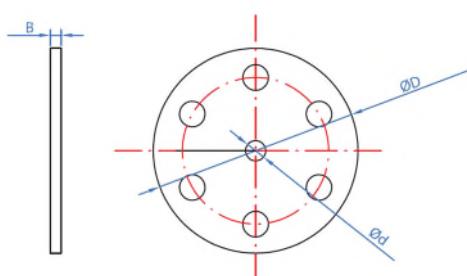
Metal rim for gas gun

	Covering	Formats		
	ZINC	Zinc plated	Professional box	Pot of 1000 units

Installation data

Code	ØD [mm]	Ød (mm)	B (mm)	Characteristics
FGARAM25	25	2,6	1,25	<ul style="list-style-type: none"> For fixing metal mesh and waterproofing membranes Increases the support surface to ensure a good grip of the piece to be fixed

DRAWING



Compatible with nails: **Index** (models FG60GUN and FG60GUNEL with FGIMAN accessory); **Spit** (models: 800E, 27E, 40E), **Fischer** FGC100, FOX Heat from **Celo**, R-RAWL-SC40II **Rawlplug**, BOSS G42 **Bossona**, CGB3-1 **Berner** and CN40-G643E **KMR**. It is necessary to have the nail magnet accessory.

3.6 FG-ABRA

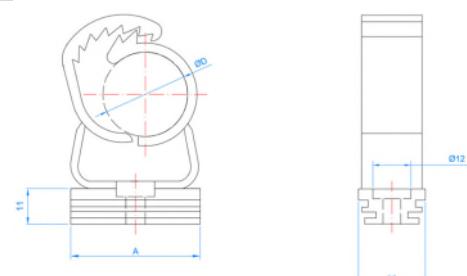
Universal conduit and pipe clip

	Material	Base material				
		Nylon	Steel pipes	Wires	Copper pipes	PVC pipes

Installation data

Code	ØD [mm]	Application	Characteristics
FGABRA15	15		
FGABRA20	20 ÷ 25	<ul style="list-style-type: none"> For fixing the installation of pipes for water, gas, heating, pneumatics, electricity, air conditioning, etc. 	<ul style="list-style-type: none"> High thermal resistance (from -40 to +80 °C). Very safe installations due to its great resistance. Quick and easy installation (gently press the tube and the clamp closes automatically). Wide range of installation, from M6 screws, traditional screws, as well as nailable plugs, guides and gas guns.
FGABRA25	25 ÷ 32		

DRAWING



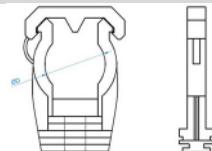
Compatible with nailers: **Index** (model FG60GUNEL); **Spit** (models: 800E, 27E, 40E) and **Fischer** (FGC100 nailer with FGC 100-N EWI barrel).

3.7 AB-GU

Guide clamp with M6 thread

		Material		Base material		
		 Polypropylene		 Steel pipes	 Wires	 Copper pipes
Code	ØD [mm]	Ø D (")	Maximum recommended load (kg)	Characteristics		
ABGUG12	12	1/4	40			
ABGUG15	15	3/8	40			
ABGUG18	18	--	40			
ABGUG 20	20	--	40			
ABGUG22	22	1/2	40			
ABGUG25	25	--	40			
ABGUG28	28	--	40			
ABGUG32	32	1	40			
ABGUG40	40	--	40			
ABGUG50	50	--	40			

DRAWING



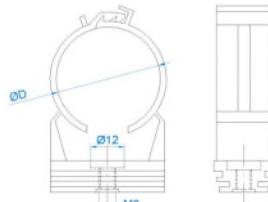
Compatible with nailers: [Index](#) (model FG60GUNEL); [Spit](#) (models: 800E, 27E, 40E) and [Fischer](#) (FGC100 nailer with FGC 100-N EWI barrel)

3.8 AB-MUG

Guide clamp and lock

		Material		Base material		
		 Polypropylene		 Steel pipes	 Wires	 Copper pipes
Code	ØD [mm]	Ø D (")	Maximum recommended load (kg)	Characteristics		
ABMUG12	12	1/4	40			
ABMUG15	15 ÷ 16	3/8	40			
ABMUG18	18 ÷ 20	--	40			
ABMUG22	22 ÷ 25	--	40			
ABMUG26	26 ÷ 28	1/2	40			
ABMUG32	32 ÷ 35	--	40			
ABMUG40	40 ÷ 42	--	40			
ABMUG48	48 ÷ 50	3/4	40			

DRAWING



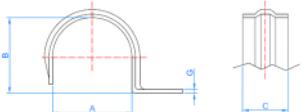
Compatible with nailers: [Index](#) (model FG60GUNEL); [Spit](#) (models: 800E, 27E, 40E) and [Fischer](#) (FGC100 nailer with FGC 100-N EWI barrel)

3.9 AB-PID

Clip clamp

		Covering	Base material	
			Viga IPN	Chapa
Installation data				
Code	A (mm)	B (mm)	C (mm)	G (mm)
ABPID16	16	15	12	1
ABPID20	20	19	12	1,2
ABPID25	25	23,8	15	1,2
ABPID32	32	30,8	15	1,2

DRAWING



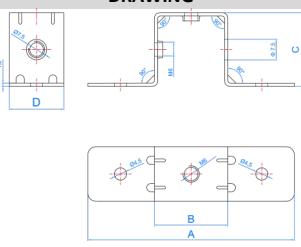
Compatible with nails: Index (models FG60GUN and FG60GUNEL with FGIMAN accessory); Spit (models: 800E, 27E, 40E), Fischer FGC100, FOX Heat from Celo, R-RAWL-SC40II Rawlplug, BOSS G42 Bossong, CGB3-1 Berner and CN40-G643E KMR. It is necessary to have the nail magnet accessory.

3.10 OME

Universal anchor

		Covering	Base material			
			Tubo Acero	Cables	Tubo Cobre	Tubo PVC
Installation data						
Code	A	B	C	D	Characteristics	
OMEM06	76	27	27	20	<ul style="list-style-type: none"> • Omega for ceiling mounting. • For hanging threaded rods. • Two M6 threads. • Through-hole on the side. • Complies with EN 13964:2006. 	

DRAWING



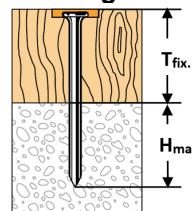
Compatible with nails: Index (models FG60GUN and FG60GUNEL with FGIMAN accessory); Spit (models: 800E, 27E, 40E), Fischer FGC100, FOX Heat from Celo, R-RAWL-SC40II Rawlplug, BOSS G42 Bossong, CGB3-1 Berner and CN40-G643E KMR. It is necessary to have the nail magnet accessory.

4. INSTRUCTIONS

4.1 NAIL LENGTH SELECTION

The choice of the length of the nails depends on two aspects: the thickness of the material to be fixed (T_{fix}) and the insertion depth of the nail on the base material (H_{mat}).

$$\text{Total nail's length} = T_{fix} + H_{mat}$$



- If the base material is concrete, we must take into account that a concrete with a greater resistance will oppose a greater resistance to the installation of the nail, so we must choose shorter nail lengths and guarantee a minimum installation depth of the nail over concrete (H_{min}).
- If, on the other hand, the base material is steel, we must be clear that steel will offer greater resistance to the insertion of the nail, and therefore we will not achieve installation depths greater than 6-8 mm.

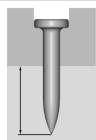
	H_{mat}		
	Concrete	FGCLH [mm]	FGCL [mm]
C12/15		25-28	25-28
C20/25		20-22	20-22
C25/30		15-20	15-20
C30/37		15-18	15-18
C40/50		13-16	---
C50/60		12-15	---

L mm	FG-CLH					FG-CL					
	15	17	22	27	32	15	20	25	30	35	40
	●	●	●	●	○						
	●	●	●	●	●						
<C50/60	○	●	●	●	●	○	○	○	○	○	○
C20/25		○	○	○	○	○	●	●	●	●	●
			○	○	○	●	●	●	●	●	●
				○	○	●	●	●	●	●	●

● / ● Valid for

○ / ○ Reduced benefits

4.2 LOADS

H_{min} Installation depth (H_{min}) in Concrete/ Steel

Concrete		Steel	
Hardness	H_{min} [mm]	Hardness	H_{min} [mm]
--		f_{uk} [N/mm ²]	
C16/20	25-28	350	6,5
C20/25	20-22		
C25/30	15-20		
C30/37	15-16	410-450	6,5
C40/50	13-16		

4.3 RECOMMENDED LOADS

Concrete			Steel		
Recommended resistance			Recommended resistance		
H_{min}	Tension N_{RK}	Shear V_{RK}	H_{min}	Tension N_{Rec}	Shear V_{Rec}
[mm]	[KN]	[KN]	[mm]	[KN]	[KN]
>20	0,47	0,25	>6,5	1,5	1,2

4.4 INSTALLATION RESTRICTIONS

Steel	Concrete
 $b \geq 100 \text{ mm}$ $e \geq 40 \text{ mm}$	 $b \geq 10 \text{ mm}$ $e \geq 20 \text{ mm}$

b = minimum edge distance

e = minimum distances between nails

* All load values are indicative and depend on marginal conditions, so it is recommended to carry out feasibility tests in the workplace.

** All the elements must be fixed by means of a group of nails, a group of nails is considered when 5 or more nails are used.