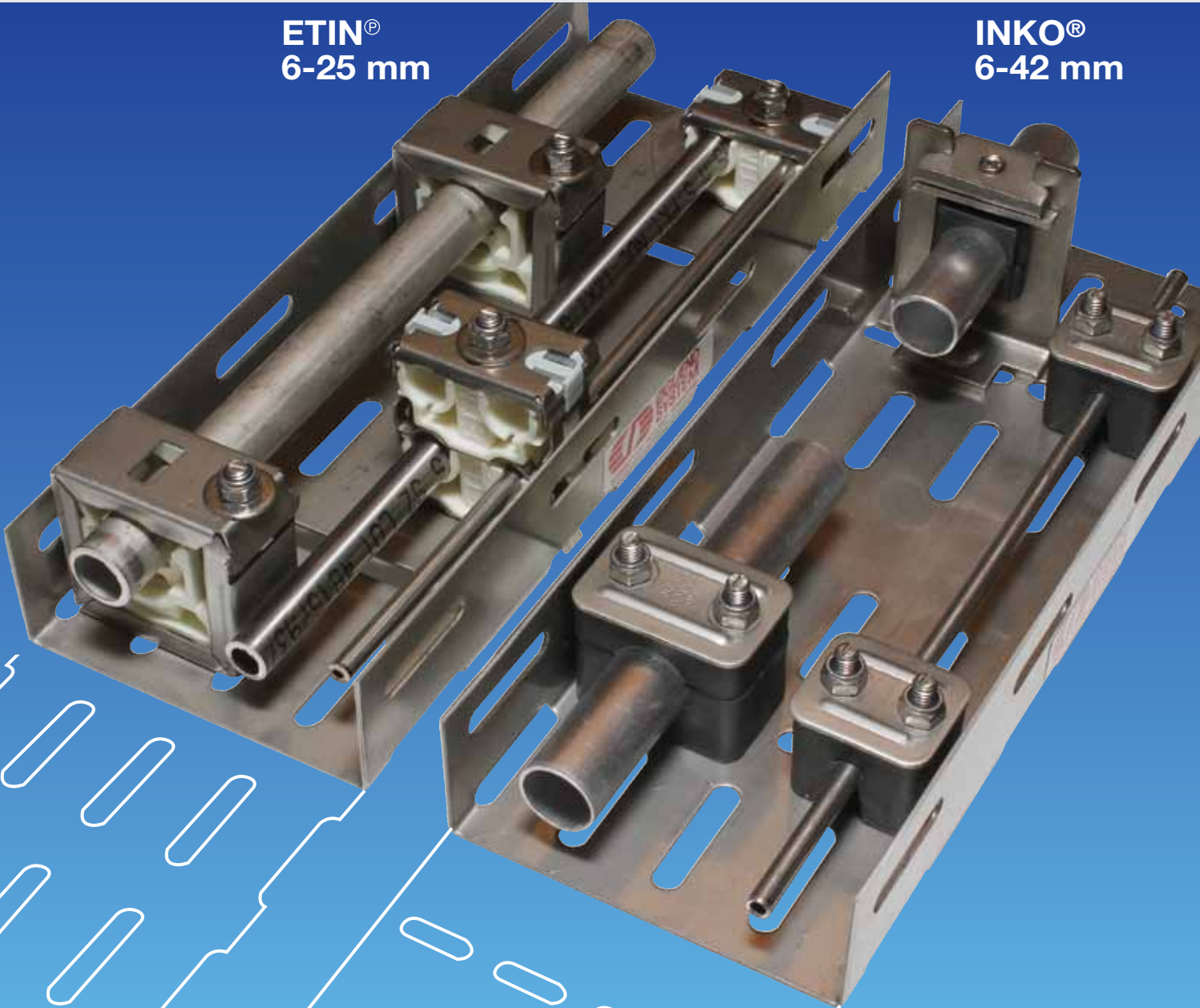




# TUBING CLAMPS ETIN® AND INKO®

**ETIN®**  
6-25 mm

**INKO®**  
6-42 mm



Being first is good, being smart is better, being both is Simply the Best!



# PRODUCT PORTFOLIO

Oglaend System offer a broad range of cable support systems for all applications, e.g. cable ladders, cable trays, junction box racks, tubing clamps, cable cleats, heating cables, control systems etc.

**If you need further information,  
please do not hesitate to contact us!**

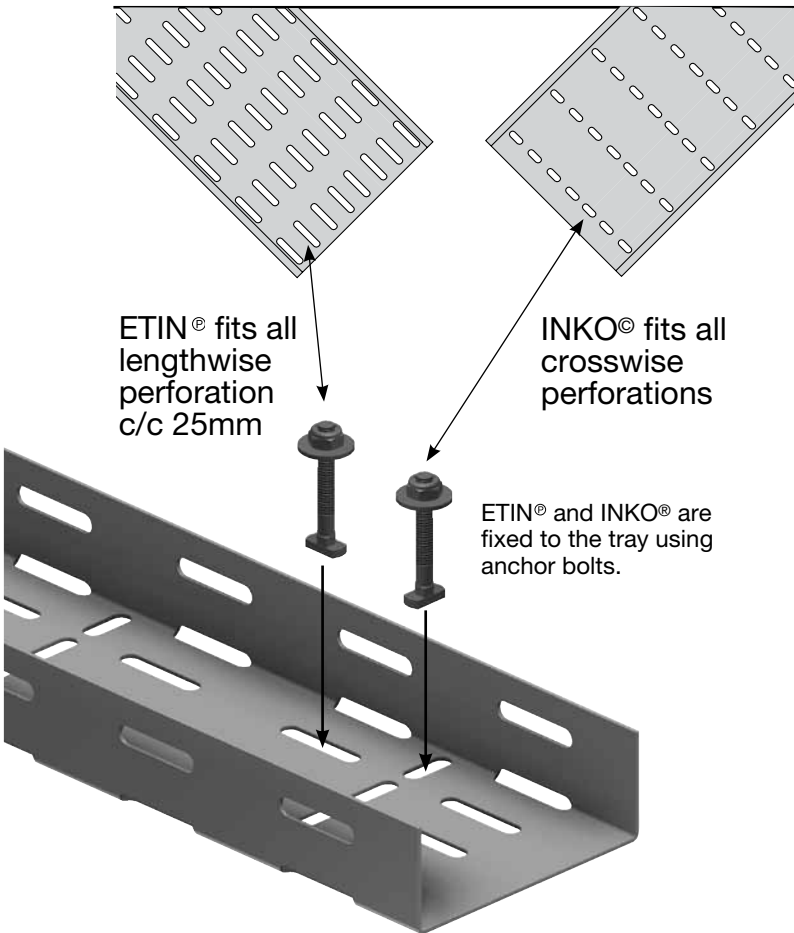
Company presentation

Download our latest version of product catalogues from: [www.oglaend-system.com](http://www.oglaend-system.com)





# The most complete (up to 42mm) and cost effective range of Tubing Clamps

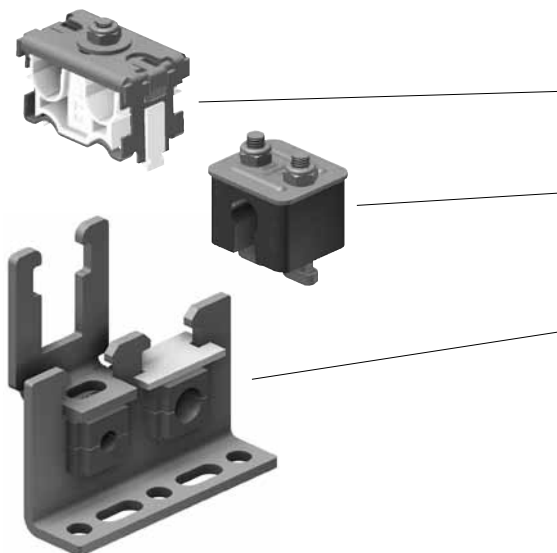


**Both metric and imperial for all types of ladders and trays in the market**

## ETIN® and INKO®

- Quick installation
- Reduced man-hours
- Space reduction
- All mounting from one side
- Easy to stack
- Installation brackets for all situations

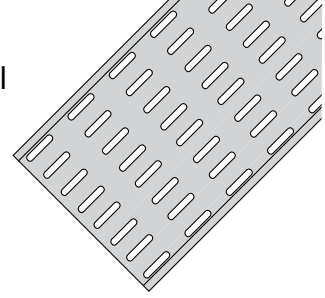
**The tubing program offer cost saving up to 65%**



## Contents:

Subject to minor changes without notice. Check our website for latest issues.

Quick and easy mounting	4
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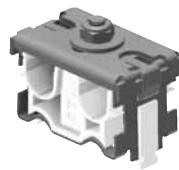


**ETIN®:** ETIN® is the fastest tubing clamp in the market to assemble!  
Designed for Oglænd System lengthwise preslots and with brackets/channels to fit all installations.

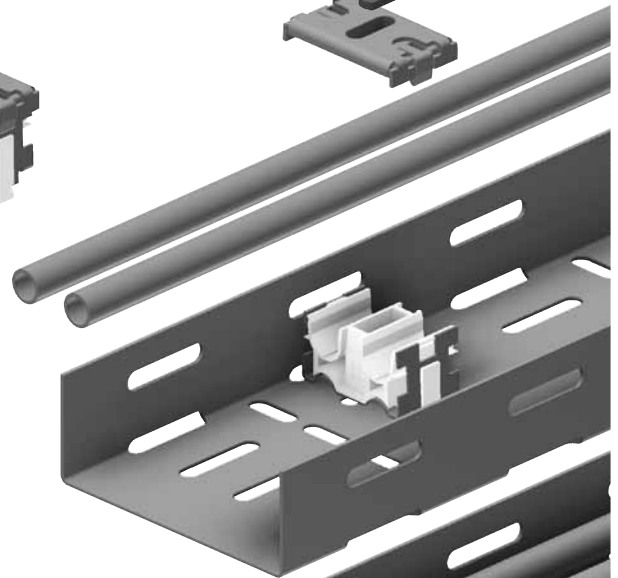
**From 6-25 mm (1/4"-1" tubes).**

Complete program page 6-9.

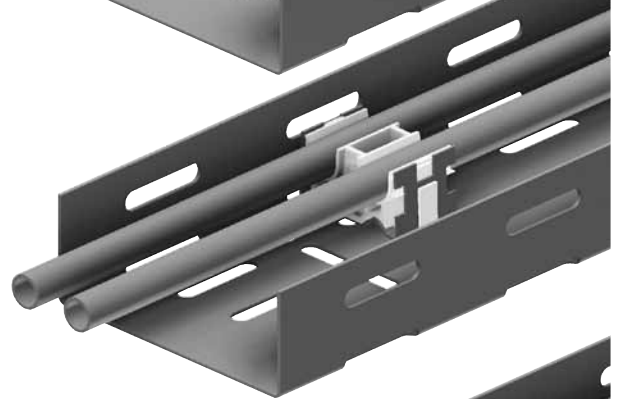
**ETIN® concept:**  
Up to 6 pipes in height  
fixed with one bolt.  
All based on clip  
on technique.



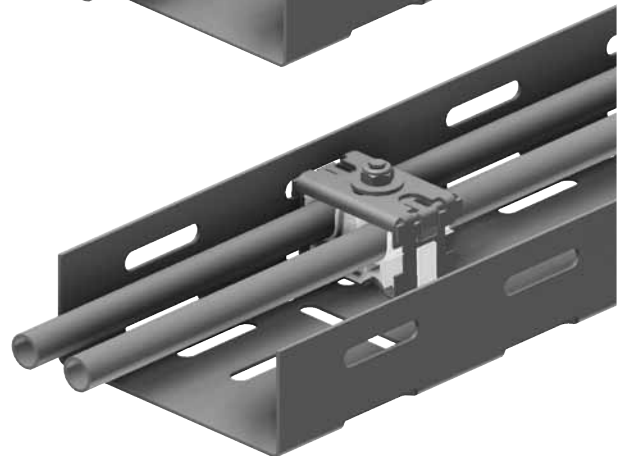
**1. Clip on clamp**



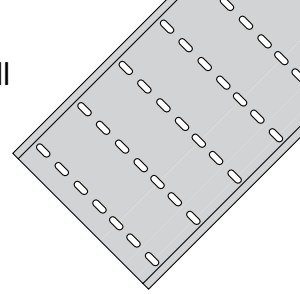
**2. Clip on tubes**



**3. Secure and fix with top plate and bolt**



**Up to 65% cost saving compared**



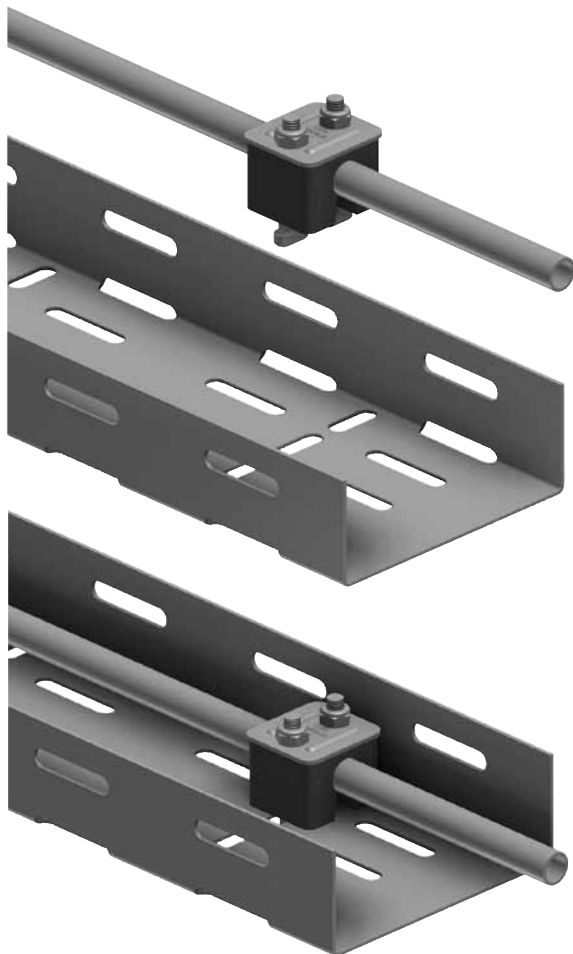
**INKO®:** INKO® is designed for fast assembly to fit all crosswise preslots and with brackets/channels to fit all installations.

**From 6-42 mm (1/4"-1 1/2" pipes/tubes).**

Complete program page 10-17.



**INKO Omega® concept:**  
One preassembled unit.  
No loose parts, no parts to lose.

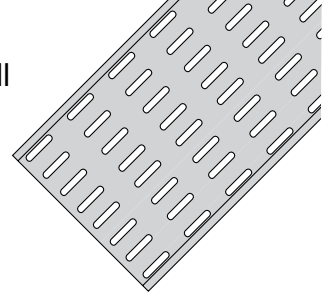


**1. Snap clamp to tube**

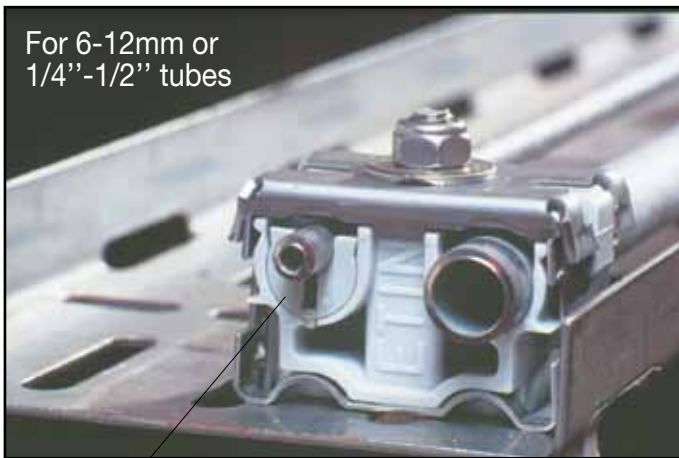
**2. Snap on to tray**

**3. Secure and fix by  
turning the bolts**

**to traditional tubing clamps!**

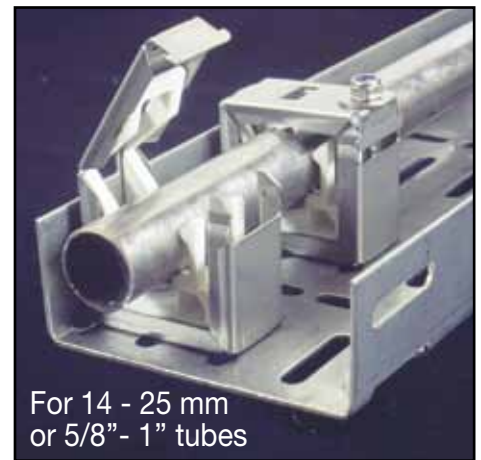


**ETIN®: From 6-25 mm (1/4"-1" tubes).** Page 8-9.



For 6-12mm or  
1/4"-1/2" tubes

Adapters for tubes with smaller diameters  
can be clipped into the jaw.



For 14 - 25 mm  
or 5/8" - 1" tubes

## Oglaend System ETIN® tubing clamps

- Patented clamps for instrument tubing (process/hydraulic/pneumatic).
- Designed for easy and time-saving assembly based on the "press-lock" principle.
- Only 3 parts to install per tubing pair
- Two types: 6-12mm or 1/4"-1/2" tubes or 14 - 25 mm / 5/8" - 1" tubes
- The stainless steel jacket assures that the tubing stays in place in case of a fire.
- Fits all Oglaend System cable trays and ladders along with a range of other accessories.
- The clamp is to be clipped in place on the ladder or tray, the jacket closed and secured using a self-lock bolt.
- Using the ETIN clamp when mounting a large number of tubes is especially cost efficient since they can be mounted on top of each other and the entire width of the tray can be used.

## Product details

The patented ETIN Tubing Clamps are manufactured by Oglaend System in Norway.  
DNV Type Examination Certificate no. E-11853.

The clamp is made of a stainless steel spring jacket enclosing a flexible plastic jaw.  
Adapters for smaller diameters can be fitted into the jaw.

ETIN clamps are manufactured in a Polyamide (PA=Nylon) called AQUAMID 66/6 V0M and acid resistant steel.  
The nylon material absorbs noise and vibration.

AQUAMID 66/6 V0M is chemically resistant and hardly influenced by normal temperatures or atmospheric conditions. It does not contain elemental phosphorus, halogens or heavy metals.  
It has a high melting point and is flame-retardant (meets UL94V0). No toxic gasses are emitted during fire.

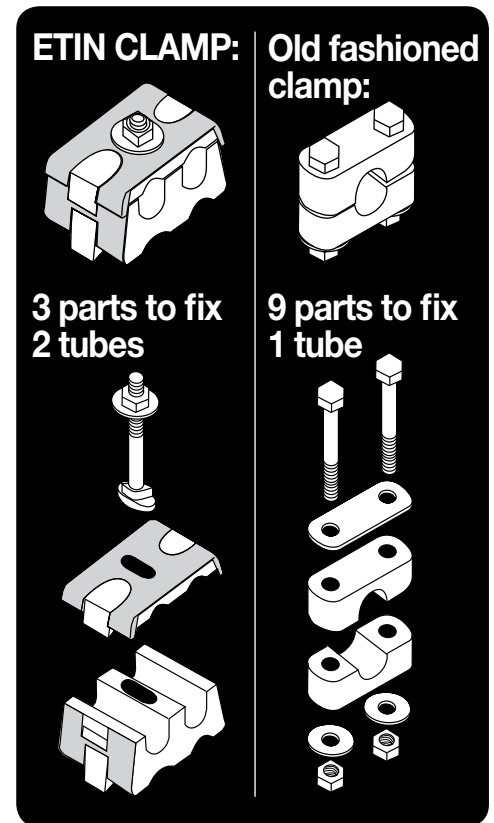
**65% cost savings compared to traditional tubing clamps.**

## Compare the ETIN® clamp with traditional competing clamps

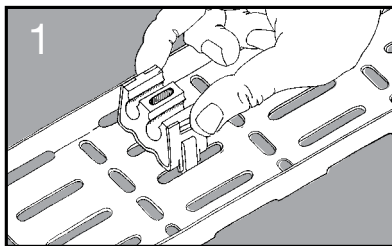
Numerous parts complicates the assembly  
One of the commonalities among ETIN's competitors is numerous parts to assembly and/or lack of flexibility. Bolts with loose washers and nuts require support on the back side during mounting. All these are man-hours consuming.

Fewer parts are more efficient to install  
The greatest benefit from using the Oglænd System ETIN clamp is that it is easier to mount with big man-hours saving. Few parts also simplify ordering, storage, delivery and handling. The ETIN clamps combine all these advantages along with a reasonable price.

The ETIN clamp is safe during fire  
In the event of excessive heating or fire the plastic core will melt but the tubing will be retained in the clamp's steel jacket.  
The steel jacket encloses the tube so that no tube can fall down and block escape routes, an important safety detail.

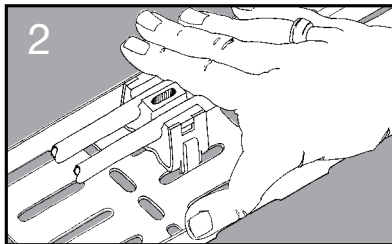


## Front-mounted (by one hand)!



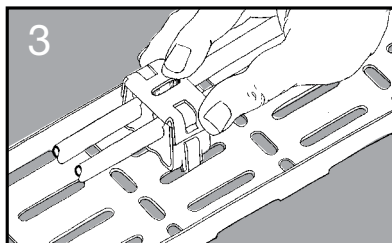
### 1. CLIP THE CLAMP

The clamp is clipped in place onto the tray, a great advantage when mounting above your head.



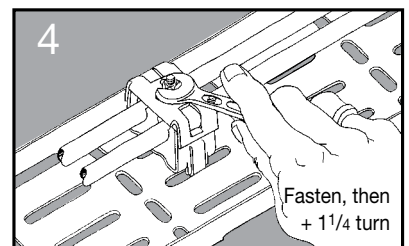
### 2. PRESS-LOCK TUBING

Press the tubing into place. The plastic clamp jaw closes around the tubing and keeps it isolated from the steel jacket.



### 3. CLIP ON COVER

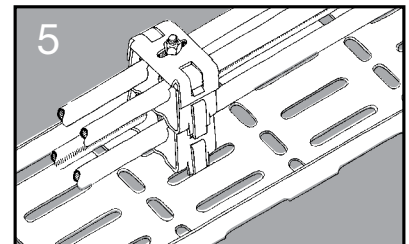
Clip the stainless steel cover on.



### 4. SELF-LOCKING BOLT

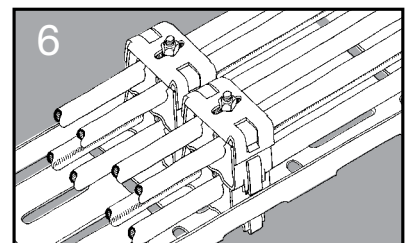
Place the specially pre-mounted ETIN bolt in the centre hole. Turn the bolt so that the clamp is anchored to the tray. With the bolt in place, turn the Nyloc nut until the ETIN clamp is closely fitted to the tray, and then tighten by further 1 1/4 turn. (Required torque is typically 2 Nm)

Disassembly is done just as easily.



### 5. DOUBLE UP (or tripple up)

ETIN clamps can be clipped on top of each other. One bolt is used to fix both clamps to the tray or ladder.



### 6. SPACE EFFICIENCY

The illustrations show the efficiency of the clamp when mounting large numbers of tubes. The ETIN clamp mounted on SPBE trays provides maximum utilization of the tray width. You can also install the clamps on all our ladder systems.

**E.g.: 8 tubes =  
only 8 parts needed!**

**THE ONLY TOOL YOU NEED  
IS A 10 MM SPANNER**



## Ordering of ETIN® tubing clamps

### For 6-12mm / 1/4"-1/2" tubes

#### Metric tube (colour blue)

FOR TUBE DIM. 10 mm	Pack	Type mm	Art. no.
ETIN TUBE CLAMP	50	ETIN BU-ME-10	1371829

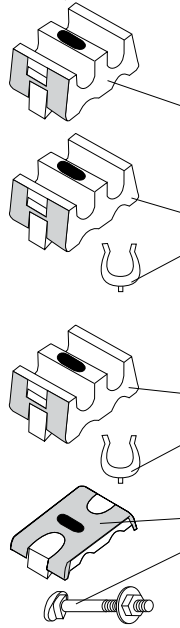
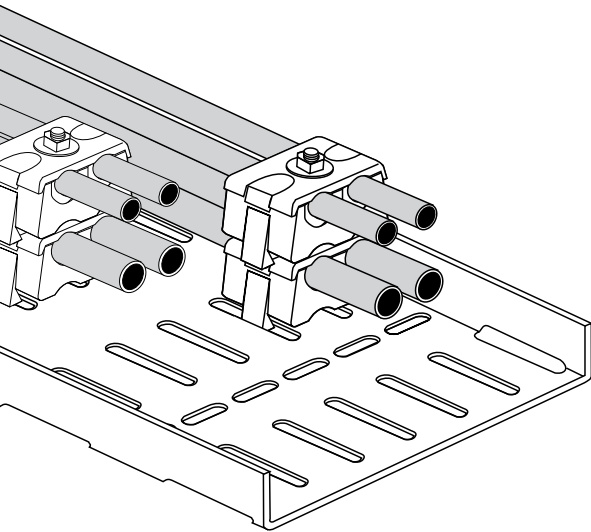
#### Metric tube (colour white)

FOR MAX. TUBE DIM. 12mm	Pack	Type mm	Art. no.
ETIN TUBE CLAMP	50	ETIN BU-ME-12	1371825
ADAPTER 12/10mm	50	ETIN AD-10	1371826
ADAPTER 12/8mm	50	ETIN AD-8	1371827
ADAPTER 12/6mm	50	ETIN AD-6	1371828

#### Imperial tube (colour grey)

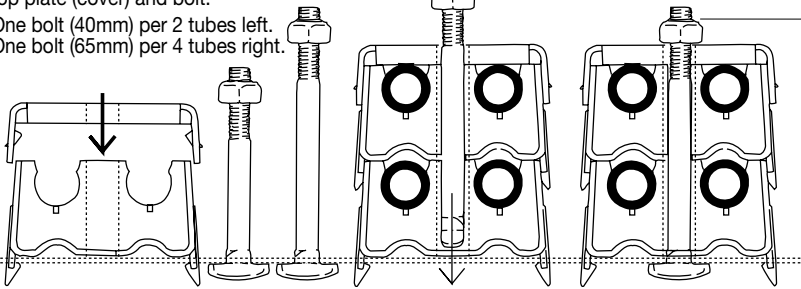
FOR MAX. TUBE DIM. 1/2"	Type inch	Art. no.	
ETIN TUBE CLAMP	50	ETIN BU-IN-1/2	1371820
ADAPTER 1/2-3/8"	50	ETIN AD-3/8	1371821
ADAPTER 1/2-5/16"	50	ETIN AD-5/16	1371822
ADAPTER 1/2-1/4"	50	ETIN AD-1/4	1371823

ETIN TOP PLATE		Pack	Type	Art. no.
ETIN BOLTS IN SS				
COMPL.	M6 x 40 (1 level)	100	ETIN TS-M6x40	1371831
WITH NUTS	M6 x 65 (2 levels)	100	ETIN TS-M6x65	1371832
	M6 x 90 (3 levels)	50	ETIN TS-M6x90	1371833



Single, standard ETIN clamp for 12mm tubes with top plate (cover) and bolt.

One bolt (40mm) per 2 tubes left.  
One bolt (65mm) per 4 tubes right.



Adapters for tubes with smaller diameters can be clipped into the jaw.

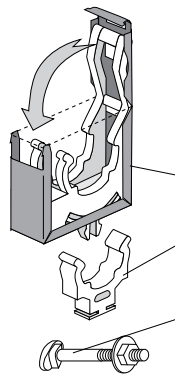
## Ordering of ETIN® tubing clamps

### For 14-25mm / 5/8"-1" tubes

#### Metric / Imperial tube

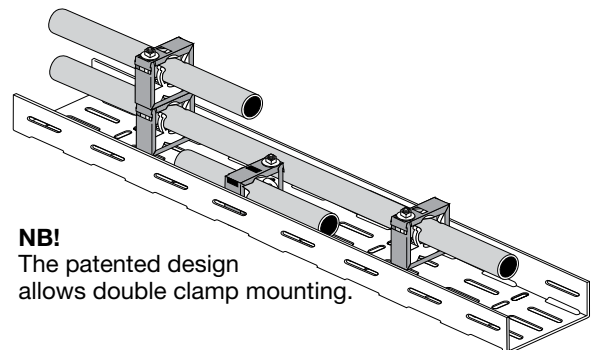
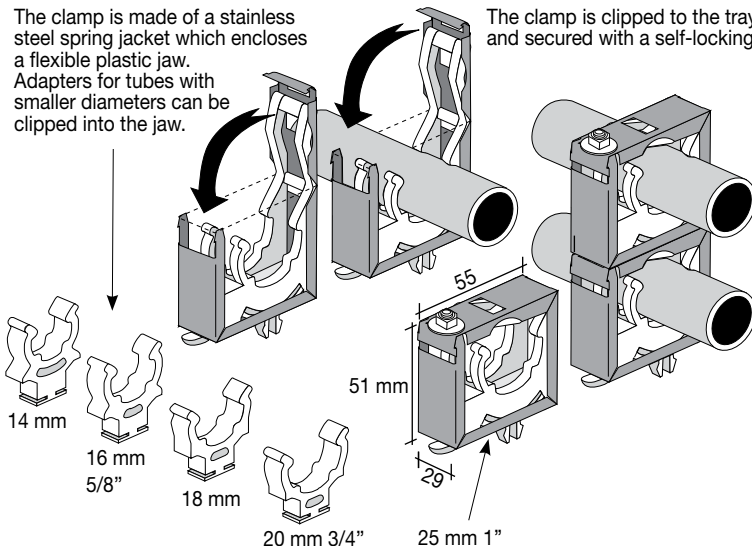
FOR MAX. TUBE DIM. 25mm/1"	Type	Art. no.	
ETIN TUBE CLAMP	30	ETIN BU-ME-25	1302634
ADAPTER 14mm	30	ETIN AD-14	1302635
ADAPTER 16mm / 5/8"	30	ETIN AD-16	1302636
ADAPTER 18mm	30	ETIN AD-18	1302637
ADAPTER 20mm / 3/4"	30	ETIN AD-20	1302638

ETIN BOLTS IN SS		Pack	Type	Art. no.
COMPL.	M6 x 61 (1 level)	30	ETIN TS-M6x61	1302639
WITH NUTS	M6 x 110 (2 levels)	30	ETIN TS-M6x110	1302640



The clamp is made of a stainless steel spring jacket which encloses a flexible plastic jaw. Adapters for tubes with smaller diameters can be clipped into the jaw.

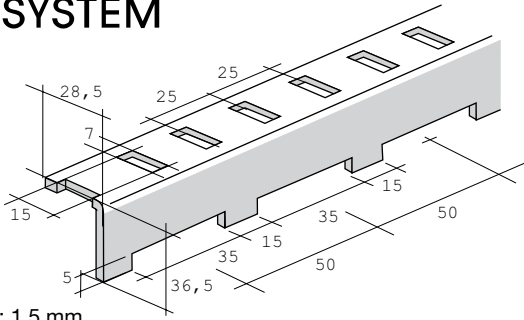
The clamp is clipped to the tray then closed and secured with a self-locking bolt.



**NB!**  
The patented design allows double clamp mounting.

**THE ONLY TOOL YOU NEED IS A 10 MM SPANNER**



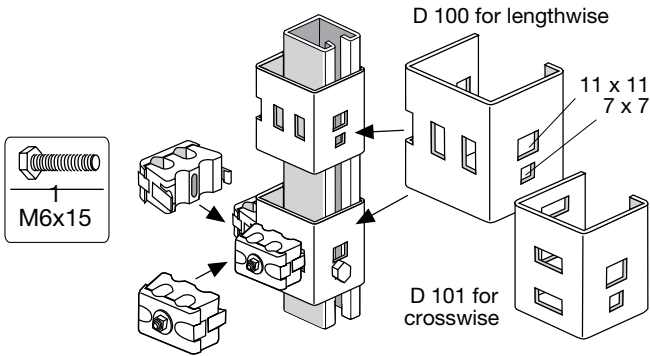


Material thickness: 1,5 mm.

### Welding Profile for ETIN Tubing Clamp

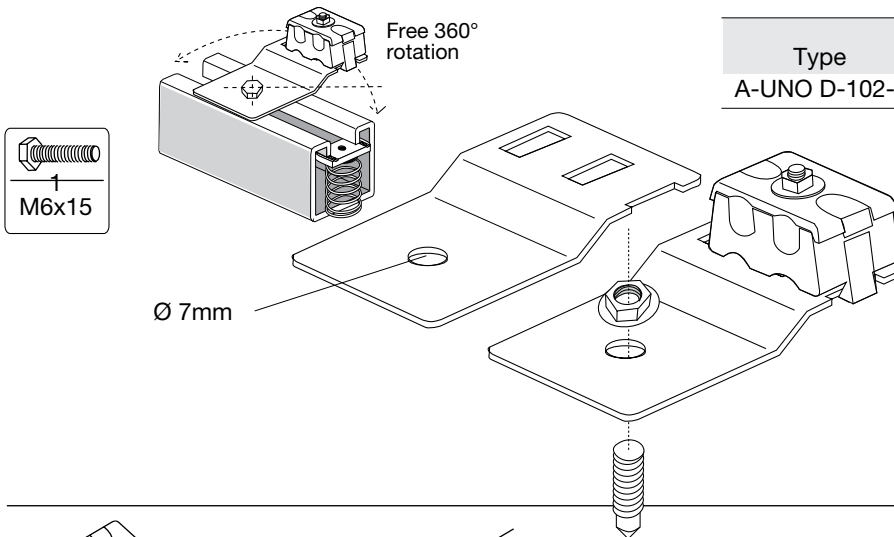
For quick and easy tubing installation with ETIN tubing clamp. Available in lengths of 3m.

Type	SS Art. no.	Vekt (kg/m) Weight
RZ- WB	78497	0,7

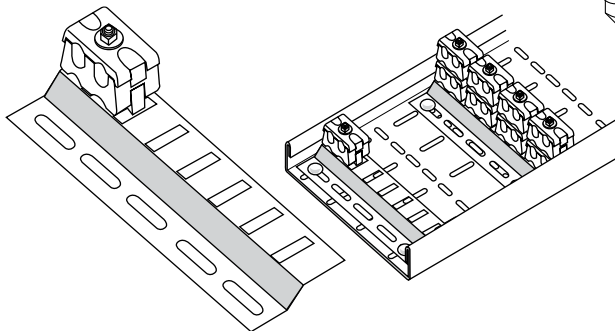


### ETIN Tubing Brackets for UNO Channels

Type	HDG Art. no.	SS Art. no.	AL Art. no.	Weight SS (kg)
A-UNO D-100	1302190	1371849		0,13
A-UNO D-101	1302191	1302193		0,13



Type	HDG Art. no.	SS Art. no.	AL Art. no.	Weight SS (kg)
A-UNO D-102-B	1302192	1302194		0,1

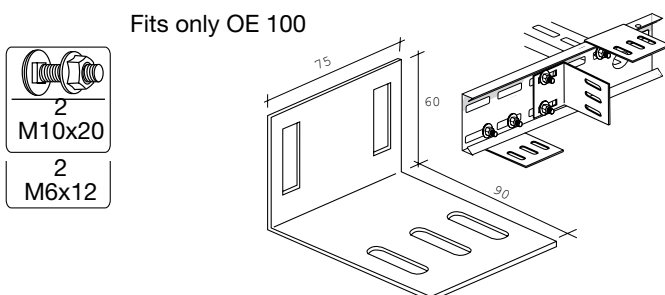


### ETIN Tubing Adaptor

This profile makes all types of trays suitable for installation of ETIN clamps.

Type - mm	HDG Art. no.	SS Art. no.
A-SPB/ETIN-190	78590	1371850
A-SPB/ETIN-3000	78890	1371438

Fits only OE 100



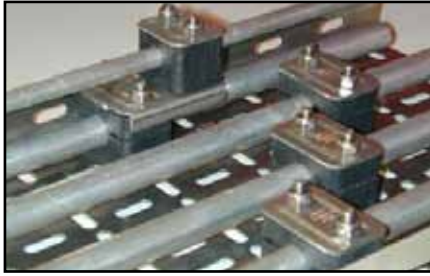
### Interface Bracket

Bracket to fix SPBE trays to OE-100 ladders.

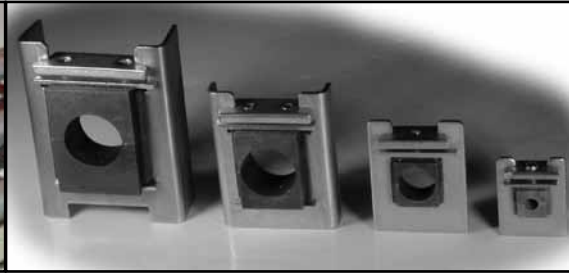
Type	HDG Art. no.	SS Art. no.	AL Art. no.	Weight SS (kg)
A-OE/SPB IF-VE	1302186	1371847	-	0,1

## Oglaend System INKO® clamps for tubing

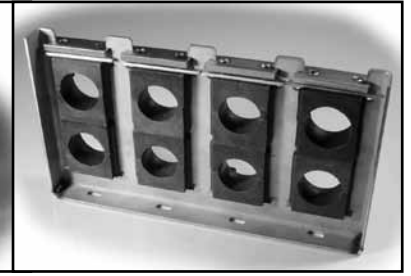
**INKO Omega**



**INKO Module**



**INKO Module**



The INKO® clamps is a system for clamping tubes/pipes and electrical cables in most fields. The system is thoroughly tested on ships and offshore industry. Due to the well considered design, the INKO® clamps provide a variety of solutions and ways of installation.

The system is simple to use and reduces the clamping costs significantly. Also, the INKO® clamps can be rapidly opened to allow dismantling for repairs and service. The INKO® clamps are patented in a number of countries.

### What is the INKO® clamp:

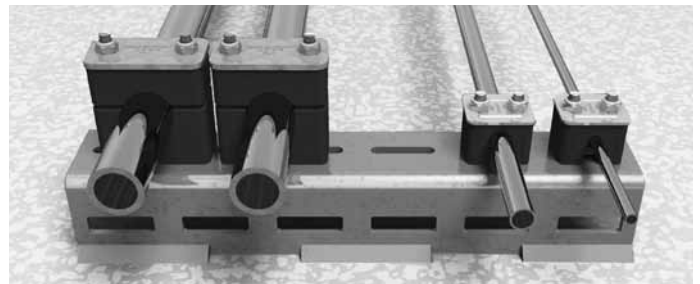
- for clamping of pipes and for electric cables.
- supplied as single or multiple clamps with one or more levels.
- supplied in stainless steel in all steel parts.
- more compact than traditional clamps.
- offers less maintenance
- has clamp-halves of sound-absorbing and self extinguishing material
- clamp-halves with a smooth surface contacting the pipes to prevent corrosion
- type approved by most of the leading classification societies
- offers low weight and low total installation cost

### Where to use the INKO® clamp:

- has a wide use within the ship-, offshore-, oil-, chemical and electro-technical industries
- is used for most types of pipe systems such as hydraulic, pneumatic, instrumentation, oil, gas, water etc.

### How to use the INKO® clamp:

- a complete preassembled unit ready for installation
- can be either bolted or welded to the structure
- holds pipes safely and securely even under intense vibrations
- prevents pipes from falling down in case of fire
- is mounted/dismounted in less time than traditional clamps; big time saving has been recorded by the NSFI and others
- has exchangeable clamp halves to fit different pipe diameters (mm and inches)
- may be attached to the pipe prior to fastening of support to the base
- simple to build in more levels
- only one installation tool is required for all dimensions



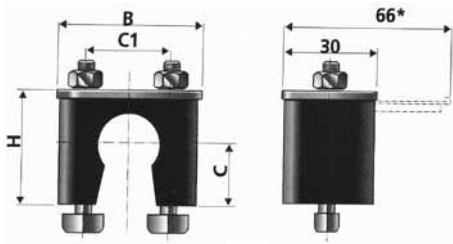
- mounted on perforated angle iron



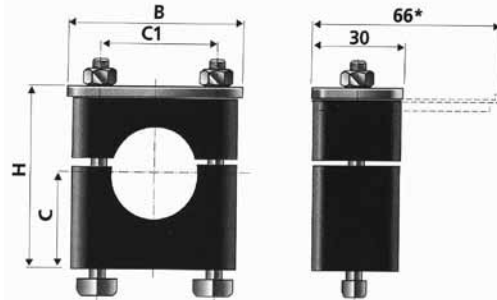
Installations on oil fields offshore:  
From left Elf, Statoil and Ship.

## The INKO Omega® Concept

**Measurements:**  
**INKO Omega® for tubes 6-13 mm**



**INKO® Omega for tubes 14-42 mm**



Dia. ranges mm	B	C	C1	H	Metric tube	Imperial tube	Imperial pipe mm (inches)
06-13	34	15	20	26	6-8-10-12		6,35 (1/4") - 9,53 (3/8") - 12,7 (1/2").
14-20	45	20	28	36	14-15-16-18-20	14,3 (9/16") - 19,05 (3/4")	
21-30	57	30	40	58	22-25-28-30	25,4 (1")	21,3 (1/2") - 26,9 (3/4")
32- 42	70	40	52	71	32-35-38-42	32 (1 1/4") - 38 (1 1/2")	33,7 (1") - 42 (1 1/4")

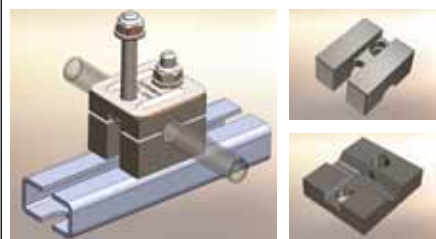
For clamps larger than 42 mm, please contact Oglænd System.

## Simple, fast and easy!

The concept behind the INKO Omega® clamp is to deliver one complete, preassembled unit without any loose parts. The clamp can be mounted in half the time of a traditional clamp. This offers great savings on for example: repairs and maintenance.

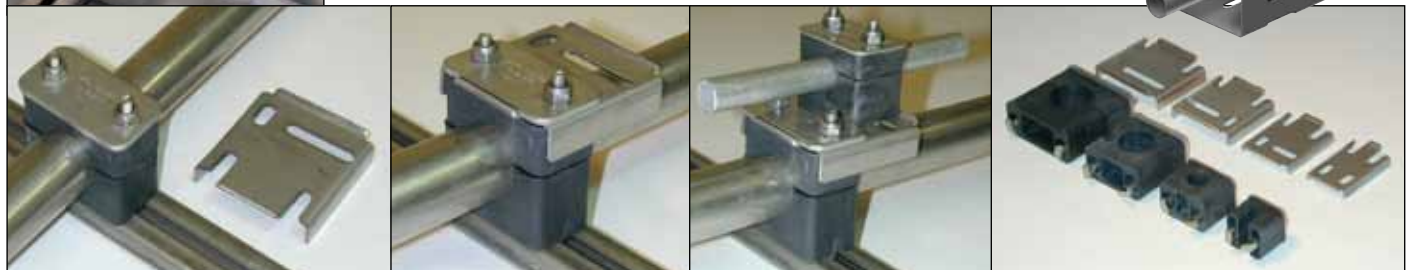
INKO Omega® clamps are very flexible, and simple to mount on cable trays and ladders, on profiles and brackets. The T-head bolt is especially designed to self-lock in the correct position when being mounted. Any access to the underside of the clamp's tray is unnecessary. This enables efficient installation and dismantling.

INKO Omega® clamps can be easily stacked, also when they are of different sizes, using the special INKO Omega Extension Top Plate mounted under the original top-plate.



Both INKO Omega and INKO Module Clamps, see following pages, are available with clamp halves in SS 316L.

Recommended tools for mounting INKO Omega® clamps: 10 mm socket wrench. Most efficient is an electric or pneumatic drill.



## One, two, three... (even with gloves on!)

**One preassembled unit,  
no loose parts,  
no parts to lose....**

For tubes 6-13 mm

**1. Snap clamp to tube**

**2. Snap on to tray**

**3. Secure and fix by  
turning the bolts**

For tubes 14-42 mm

**1. Put tube in clamp**

**2. Twist and snap  
on to tray**

**3. Secure and fix by  
turning the bolts**



**Ordering details  
INKO Omega® tube clamp**

## The INKO Omega® Parts

**INKO Omega® clamps have unique features:**

They can be snapped onto a tube, which then can be installed with premounted clamps.

This makes installation in difficult locations practical and simple.

Clamps can also be slid along the tube to adjust positioning before being finally screwed into place.

This feature makes it especially easy to install tubes above your head.

**Clamp Material:**

The main components are made of black, halogene-free and self-extinguishing (grade V0, UL 94) polypropylene.

In case of fire, toxic gases are not emitted. Oxygen index (ASTM D 2863) : 307%.

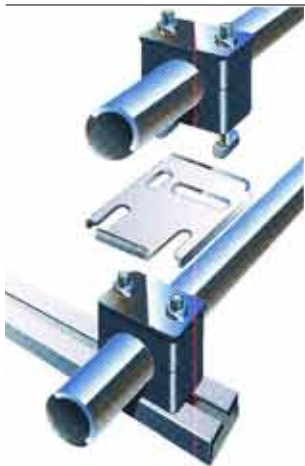
The material shows good resistance to chemicals.

Working temperature range: -20 to +110' C.

**Clamp halves also available in SS on request.**

### INKO Omega SS 316L

Tube dim mm	Tube dim inch	B mm	Type	Polypr. Art. no.
6		34	INKO-O BU 6	1320306
6.35	1/4	34	INKO-O BU 1/4	1320307
8		34	INKO-O BU 8	1320308
10	3/8"	34	INKO-O BU 10	1320310
12		34	INKO-O BU 12	1320312
(12.7)	1/2"	34	INKO-O BU 13	1320313
14	9/16"	45	INKO-O BU 14	1320314
15		45	INKO-O BU 15	1320315
16	5/8"	45	INKO-O BU 16	1320316
18		45	INKO-O BU 18	1320318
(19.05)	3/4"	45	INKO-O BU 19	1320319
20		45	INKO-O BU 20	1320320
(21.3)	1/2" pipe	57	INKO-O BU 21	1320321
22	7/8"	57	INKO-O BU 22	1320322
25		57	INKO-O BU 25	1320325
(25.4)	1"	57	INKO-O BU 26	1320326
(26.9)	3/4" pipe	57	INKO-O BU 27	1320327
28		57	INKO-O BU 28	1320328
30		57	INKO-O BU 30	1320330
32	1 1/4"	70	INKO-O BU 32	1320332
(33.7)	1" pipe	70	INKO-O BU 34	1320334
35		70	INKO-O BU 35	1320335
38	1 1/2"	70	INKO-O BU 38	1320338
42	1 1/4" pipe	70	INKO-O BU 42	1320342



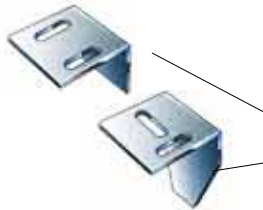
### INKO Omega Extension Top Plate SS 316L

For Tube mm	Bracket width mm	Type	Art. no.
6 - 12.7	34	INKO-O AD 6-13	1320350
14 - 20	45	INKO-O AD 14-20	1320351
21 - 30	57	INKO-O AD 21-30	1320352
32 - 42	70	INKO-O AD 32-42	1320353



### INKO Omega Bolted Bracket SS 316L

For Tube mm	Bracket width mm	Type	Art. no.
6 - 12.7	34	INKO-O BO 6-13	1320358
14 - 20	45	INKO-O BO 14-20	1320359
21 - 30	57	INKO-O BO 21-30	1320360
32 - 42	70	INKO-O BO 32-42	1320361



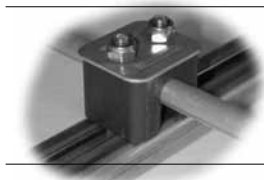
### INKO Omega Welded Bracket SS 316L

For Tube mm	Bracket width mm	Type	Art. no.
6 - 12.7	34	INKO-O WB 6-13	1320354
14 - 20	45	INKO-O WB 14-20	1320355
21 - 30	57	INKO-O WB 21-30	1320356
32 - 42	70	INKO-O WB 32-42	1320357

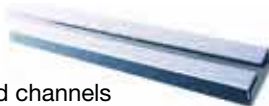


### INKO Omega Cover

For Clamp mm	Bracket width mm	Type	Art. no.
6 - 12.7	34	INKO-O CO 6-13	1320377
14 - 20	45	INKO-O CO 14-20	1320378
21 - 30	57	INKO-O CO 21-30	1320379
32 - 42	70	INKO-O CO 32-42	1320380



Perforated channels on request



### INKO Omega Channel SS 316L

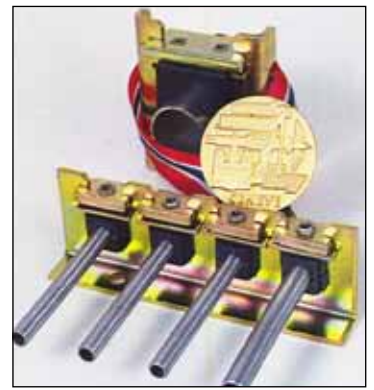
For Clamp mm	Channel dim. mm	Type	Art. no.
6 - 42	30x15x4000	INKO-O CH30-1-4000	1320394



### INKO Omega Channel Bolt SS 316L

Dim. mm	Type	Locking T	Art. no.
M6x14	S-M TS-M6x14		1320398

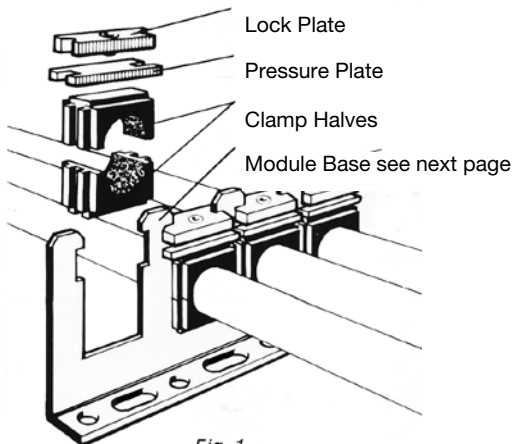




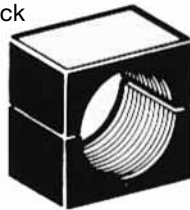
# The INKO® Module Clamp Concept

## Clamp Material:

See opposite specifications for Inko Omega Base Unit (BU). All steel parts in SS 316L.

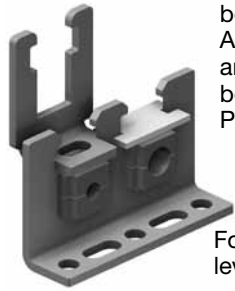


Each art. no.  
include  
both  
halves.



*Fig. 1*  
For Module base units from 6 to 20 mm tubing:  
Position the first half part of the tube clamp  
into the module base before placing the tube.  
Add the second half part and a Pressure Plate  
before fixing with the Lock Plate.

For Module base units from 21 to 42 mm  
tubing: Place a Base Plate and then the first half  
part of the tube clamp into the module base  
before placing the tube.  
Add the second half part  
and a Top Pressure Plate  
before fixing with the Lock  
Plate.



For adding additional  
levels see next page.

## Ordering details INKO Module Base Unit

Tube dim mm	Tube dim inch	B mm	Type	Polypr. Art. no.
6		19,4	INKO-M BU 6	1384900
6.35	1/4"	19,4	INKO-M BU 7	1384901
8		19,4	INKO-M BU 8	1384902
9.53	3/8"	19,4	INKO-M BU 9	1384903
10		19,4	INKO-M BU 10	1384904
12		19,4	INKO-M BU 12	1384905
(12.7)	1/2"	19,4	INKO-M BU 13	1384906
14	9/16"	27	INKO-M BU 14	1384907
15		27	INKO-M BU 15	1384908
16		27	INKO-M BU 16	1384909
18		27	INKO-M BU 18	1384910
(19.05)	3/4"	27	INKO-M BU 19	1384911
20		27	INKO-M BU 20	1384912
(21.3)	1/2" pipe	40	INKO-M BU 21	1384913
22		40	INKO-M BU 22	1384914
25		40	INKO-M BU 25	1384915
(25.4)	1"	40	INKO-M BU 26	1384932
(26.9)	3/4" pipe	40	INKO-M BU 27	1384916
28		40	INKO-M BU 28	1384917
30		40	INKO-M BU 30	1384918
32	1 1/4"	52	INKO-M BU 32	1384919
(33.7)	1" pipe	52	INKO-M BU 34	1384920
35		52	INKO-M BU 35	1384921
38	1 1/2"	52	INKO-M BU 38	1384922
40		52	INKO-M BU 40	1384933
42	1 1/4" pipe	52	INKO-M BU 42	1384923

## INKO Module Lock Plate SS 316L

For Tube mm	T mm	Plate width	Type	Art. no.
6 - 12.7	4	28	INKO-M FC 6-13	1384924
14 - 20	6	37	INKO-M FC 14-20	1384925
21 - 30	6	50	INKO-M FC 21-30	1384926
32 - 42	6	63	INKO-M FC 32-42	1384927

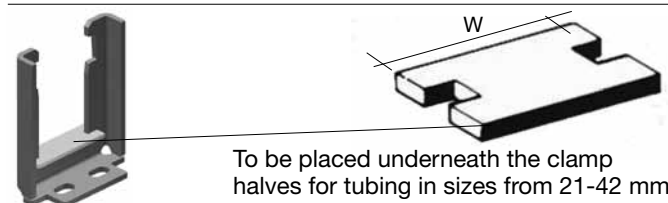
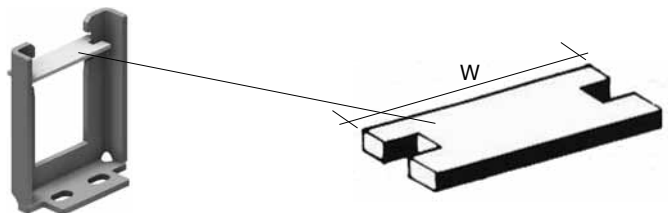
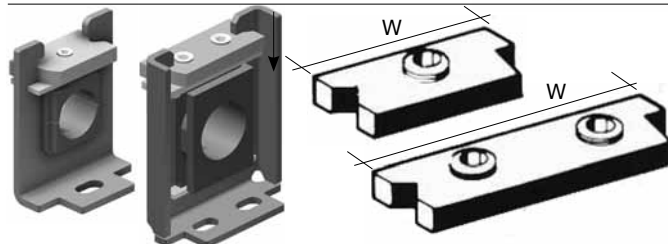
## INKO Module Pressure Plate SS 316L

For Tube mm	T mm	Plate width	Type	Art. no.
6 - 12.7	2	29	INKO-M PP 6-13	1384928
14 - 20	2	39	INKO-M PP 14-20	1384929
21 - 30	3	53	INKO-M PP 21-30	1384930
32 - 42	3	66	INKO-M PP 32-42	1384931

## INKO Module Base Plate SS 316L

For Tube mm	T mm	Plate width	Type	Art. no.
21 - 30	2	46	INKO-M BP 21-30	1384934
32 - 42	2	57	INKO-M BP 32-42	1384935

\*) Only for Tube Clamps for above 20mm.



To be placed underneath the clamp  
halves for tubing in sizes from 21-42 mm.



## INKO Screwdriver

Type	Dim. mm	Art. no.
INKO Screwdriver	4	1320381

Installation tool, 4 mm screwdriver for all clamp sizes.  
Used when attaching clamps type BU to the base.

**Ordering details  
Single INKO Module Base SS 316L**

For Tube mm	H mm	Base width	Type	Weight g/pcs.	Art. no.
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**1 single clamp = 1.1. Bolted Base = BO.**

6 - 12.7	45	35	INKO-M BO 6-13 1.1	31	1384936
14 - 20	65	50	INKO-M BO 14-20 1.1	67	1384937
21 - 30	80	65	INKO-M BO 21-30 1.1*	122	1384938
32 - 42	105	90	INKO-M BO 32-42 1.1*	400	1384939

**1 single clamp = 1.1. Welded Base = WB.**

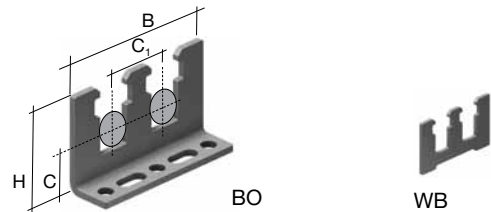
6 - 12.7	45	35	INKO-M WB 6-13 1.1	23	1384940
14 - 20	65	50	INKO-M WB 14-20 1.1	82	1384941
21 - 30	80	65	INKO-M WB 21-30 1.1*	185	1384942
32 - 42	105	90	INKO-M WB 32-42 1.1*	340	1384943


**2 single clamps = 2.1. Bolted Base = BO.**

6 - 12.7	45	75	INKO-M BO 6-13 2.1	77	1384944
14 - 20	65	97	INKO-M BO 14-20 2.1	220	1384945
21 - 30	80	130	INKO-M BO 21-30 2.1	350	1384946
32 - 42	105	165	INKO-M BO 32-42 2.1*	550	1384947

**2 single clamps = 2.1. Welded Base = WB.**

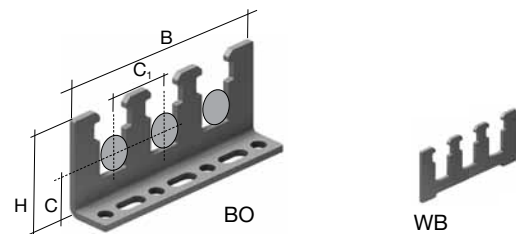
6 - 12.7	45	75	INKO-M WB 6-13 2.1	51	1384948
14 - 20	65	97	INKO-M WB 14-20 2.1	180	1384950
21 - 30	80	130	INKO-M WB 21-30 2.1	300	1384951
32 - 42	105	165	INKO-M WB 32-42 2.1*	500	1384952


**3 single clamps = 3.1. Bolted Base = BO.**

6 - 12.7	45	105	INKO-M BO 6-13 3.1	105	1384953
14 - 20	65	137	INKO-M BO 14-20 3.1		1384954
21 - 30	80	185	INKO-M BO 21-30 3.1		1384955
32 - 42	105	240	INKO-M BO 32-42 3.1*		1384956

**3 single clamps = 3.1. Welded Base = WB.**

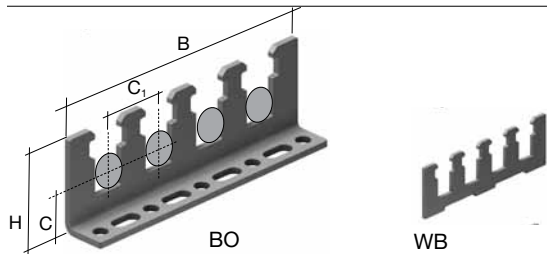
6 - 12.7	45	105	INKO-M WB 6-13 3.1	69	1384957
14 - 20	65	137	INKO-M WB 14-20 3.1		1384958
21 - 30	80	185	INKO-M WB 21-30 3.1		1384959
32 - 42	105	240	INKO-M WB 32-42 3.1*		1384960


**4 single clamps = 4.1. Bolted Base = BO.**

6 - 12.7	45	135	INKO-M BO 6-13 4.1	132	1384961
14 - 20	65	177	INKO-M BO 14-20 4.1	485	1384962
21 - 30	80	240	INKO-M BO 21-30 4.1		1384963
32 - 42	105	315	INKO-M BO 32-42 4.1*		1384964

**4 single clamps = 4.1. Welded Base = WB.**

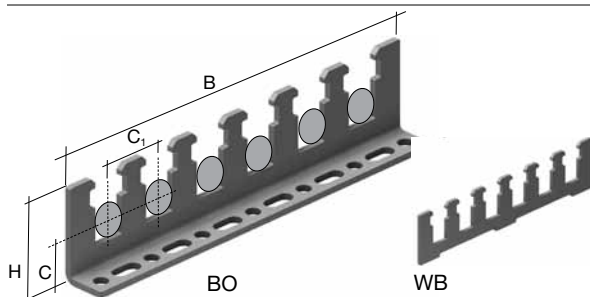
6 - 12.7	45	135	INKO-M WB 6-13 4.1	88	1384965
14 - 20	65	177	INKO-M WB 14-20 4.1	360	1384966
21 - 30	80	240	INKO-M WB 21-30 4.1		1384967
32 - 42	105	315	INKO-M WB 32-42 4.1*		1384968


**6 single clamps = 6.1. Bolted Base = BO.**

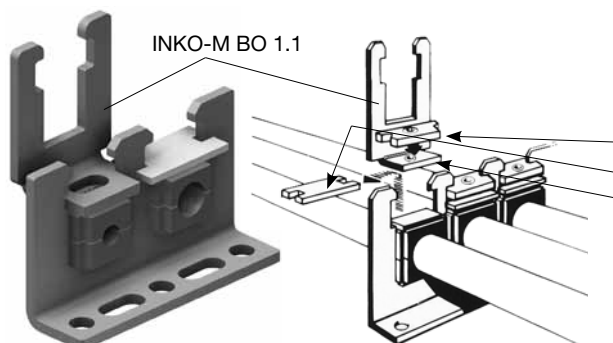
6 - 12.7	45	195	INKO-M BO 6-13 6.1	188	1384969
14 - 20	65	257	INKO-M BO 14-20 6.1	685	1384970
21 - 30	80	350	INKO-M BO 21-30 6.1		1384971
32 - 42	105	465	INKO-M BO 32-42 6.1*		1384972

**6 single clamps = 6.1. Welded Base = WB.**

6 - 12.7	45	195	INKO-M WB 6-13 6.1	121	1384973
14 - 20	65	257	INKO-M WB 14-20 6.1	520	1384974
21 - 30	80	350	INKO-M WB 21-30 6.1		1384975
32 - 42	105	465	INKO-M WB 32-42 6.1*		1384976



\*) See next table bottom



**When placing a new clamp on top of an existing clamp (single or multiple), the INKO-M BO 1.1 must be used.**

Release the Lock Plate and remove the Pressure Plate on top of the clamp halves surrounding the tubing. Place a single bolted module base where the Pressure Plate was and retighten using the Lock Plate.

**Ordering details  
Double INKO Module Base SS 316L**

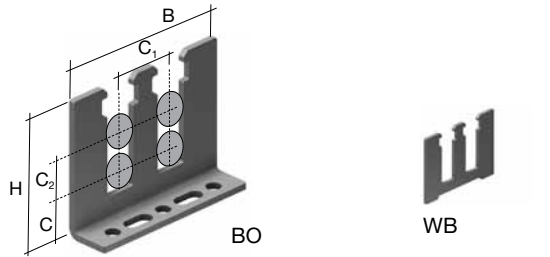
For Tube mm	H mm	Base width	Type	Weight g/pcs.	Art. no.
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**1 double clamp = 1.2. Bolted Base = BO.**

6 - 12.7	65	45	INKO-M BO 6-13 1.2	55	1384977
14 - 20	100	60	INKO-M BO 14-20 1.2	225	1384978
21 - 30	125	65	INKO-M BO 21-30 1.2*	470	1384979
32 - 42	165	90	INKO-M BO 32-42 1.2*	675	1384980

**1 double clamp = 1.2. Welded Base = WB.**

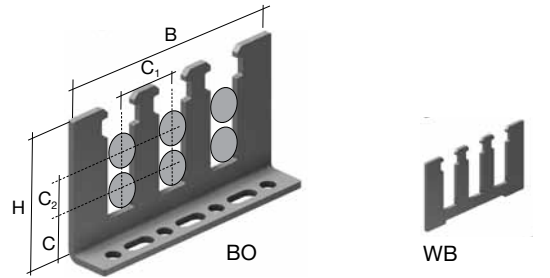
6 - 12.7	65	45	INKO-M WB 6-13 1.2	48	1384981
14 - 20	100	60	INKO-M WB 14-20 1.2	215	1384982
21 - 30	125	65	INKO-M WB 21-30 1.2*	365	1384983
32 - 42	165	90	INKO-M WB 32-42 1.2*	530	1384984


**2 double clamps = 2.2. Bolted Base = BO.**

6 - 12.7	65	85	INKO-M BO 6-13 2.2	118	1384985
14 - 20	100	107	INKO-M BO 14-20 2.2	365	1384986
21 - 30	125	140	INKO-M BO 21-30 2.2		1384987
32 - 42	165	165	INKO-M BO 32-42 2.2*		1384988

**2 double clamps = 2.2. Welded Base = WB.**

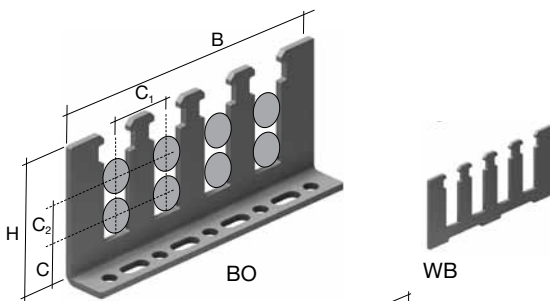
6 - 12.7	65	85	INKO-M WB 6-13 2.2	87	1384989
14 - 20	100	107	INKO-M WB 14-20 2.2	310	1384990
21 - 30	125	140	INKO-M WB 21-30 2.2		1384991
32 - 42	165	165	INKO-M WB 32-42 2.2*		1384992


**3 double clamps = 3.2. Bolted Base = BO.**

6 - 12.7	65	115	INKO-M BO 6-13 3.2	152	1384993
14 - 20	100	147	INKO-M BO 14-20 3.2		1384994
21 - 30	125	195	INKO-M BO 21-30 3.2		1384995
32 - 42	165	240	INKO-M BO 32-42 3.2*		1384996

**3 double clamps = 3.2. Welded Base = WB.**

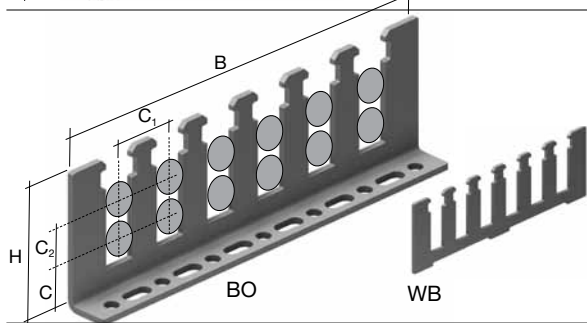
6 - 12.7	65	115	INKO-M WB 6-13 3.2	112	1384997
14 - 20	100	147	INKO-M WB 14-20 3.2		1384998
21 - 30	125	195	INKO-M WB 21-30 3.2		1384999
32 - 42	165	240	INKO-M WB 32-42 3.2*		1384880


**4 double clamps = 4.2. Bolted Base = BO.**

6 - 12.7	65	145	INKO-M BO 6-13 4.2	187	1384881
14 - 20	100	187	INKO-M BO 14-20 4.2		1384882
21 - 30	125	250	INKO-M BO 21-30 4.2		1384883
32 - 42	165	315	INKO-M BO 32-42 4.2*		1384884

**4 double clamps = 4.2. Welded Base = WB.**

6 - 12.7	65	145	INKO-M WB 6-13 4.2	138	1384885
14 - 20	100	187	INKO-M WB 14-20 4.2		1384886
21 - 30	125	250	INKO-M WB 21-30 4.2		1384887
32 - 42	165	315	INKO-M WB 32-42 4.2*		1384888


**6 double clamps = 6.2. Bolted Base = BO.**

6 - 12.7	65	205	INKO-M BO 6-13 6.2	257	1384889
14 - 20	100	267	INKO-M BO 14-20 6.2		1384890
21 - 30	125	360	INKO-M BO 21-30 6.2		1384891
32 - 42	165	465	INKO-M BO 32-42 6.2*		1384892

**6 double clamps = 6.2. Welded Base = WB.**

6 - 12.7	65	205	INKO-M WB 6-13 6.2	185	1384893
14 - 20	100	267	INKO-M WB 14-20 6.2		1384894
21 - 30	125	360	INKO-M WB 21-30 6.2		1384895
32 - 42	165	465	INKO-M WB 32-42 6.2*		1384896

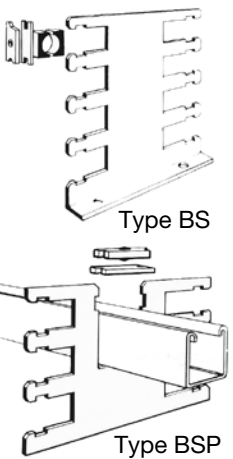
**Dimension Codes:**

For Tube dia. mm	C	C <sub>1</sub>	C <sub>2</sub>
6 - 13	22.5	30	20
14 - 20	32.5	40	32
21 - 30	40	55	45
32 - 42	55	75	69



\*) Flanged bracket sides are standard. Also see ill. page 13 and photo page 10.



**ADDITIONAL INFORMATION:**
**Special INKO® clamps assembly as stacks or/and multiple side mounting.**


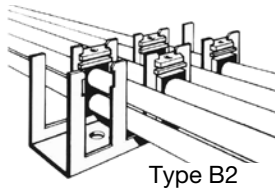
For ordering, please contact Oglænd System.

**INKO Clamp Type BS for side mounting**

should be used where there is little space sideways, and the pipes may be arranged above each other. The side mounting INKO clamp may be used to avoid upsidedown work.

**INKO Clamp Type BSP for side mounting for attachment to section bar.**

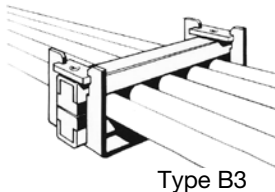
Protective cover also available.



Type B2

**INKO Clamp Type B2**

can be used when less spacing between the pipes is desired. Type B2 is available in diameter range 6-20 mm, in diameter range 6-13 the B2 type is also available as a two level clamp.



Type B3

**INKO Clamp type B3**

should be used when minimum spacing between the pipes is required. This type is available in diameter range 6-20 mm, one level only.

**Design your own solution together with Oglænd System.**
**Steel to steel INKO® Flexi clamps for high temperature tubes**


Locking bolts

Lock plate

Pressure plate

Base clamp

Fixing bolt M6x14

Use 0.6 Nm torque when mounting the plates

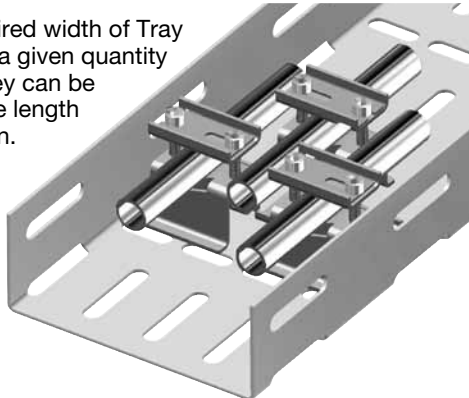
**INKO Flexi Clamp complete SS 316L**

For Tube mm	Type	Art. no.
3 - 20	INKO Flexi Clamp without fixing bolt	1320302


**INKO Module Channel Bolt SS 316L**

Dim. mm	Type Locking T	Art. no.
M6x14	S-M TS-M6x14	1320398

To reduce the required width of Tray or Ladder used for a given quantity of Tube Clamps they can be staggered along the length of the tray as shown.



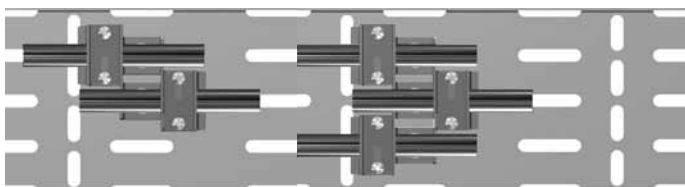
Installation tool, 3 mm screwdriver. Preset torque for the tool is 0.6 Nm.

Supplied by Oglænd System

INKO screwdriver 3 mm/0.6 Nm torque

**Art. no.**

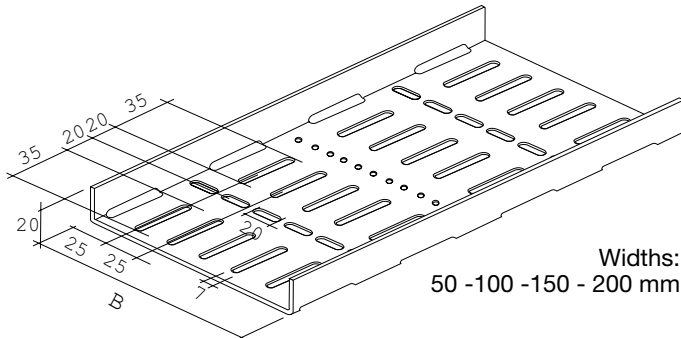
1320300





## Oglaend System's SPBE cable trays for tube installation offer the most optimal solution

### Tray SPBE-20 Light Duty for tube installation



Widths:

50 -100 -150 - 200 mm

Length: 3m  
 Material thickness: HDG and AL: 2,0 mm  
 PG: 1,5 mm(50-200) 2 mm(300-600)  
 SS: 1,5 mm  
 On request: Epoxy coated and special treatment.

Widths 300 - 400 - 500 and 600mm are also supplied as standard.  
 Please see our catalogue: Cable Tray System Type SPB.

#### LOADING TABLE SPBE-20: SWL (kg/m)

All tests are according to IEC 61537.

SWL: Safe Working Load

Material quality	Material mm	Opphengsavstand Support spacing	
		1,5 m	2,0 m
HDG	2,0	60	25
SS	1,5	40	12

**Capacity per m:** The table shows maximum allowed safe working load with 1,5 and 2 mm material thickness, including a safety factor of 1,7. According to the test procedure the length of the end span must be reduced to 3/4 of the support spacing.

#### SPBE-20 order list:

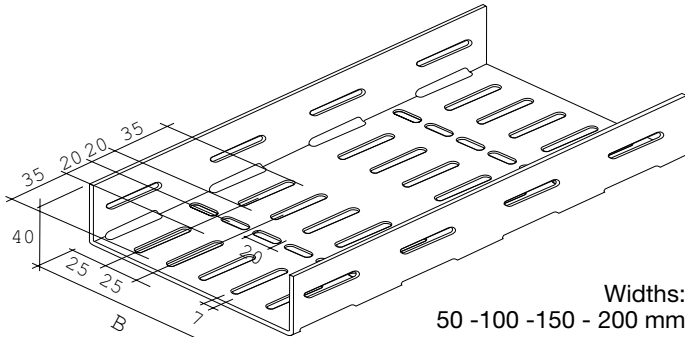
Type states height of side piece + tray width.

Type	PG* Art. no.	HDG Art. no.	SS Art. no.	AL* Art. no.	Weight SS (kg/m)
SPBE-20-50	1372201	1371400	1371408	1372217	0,9
SPBE-20-100	1372203	1371401	1371409	1372219	1,4
SPBE-20-150	1372205	1371402	1371410	1372221	1,9
SPBE-20-200	1372207	1371403	1371411	1372223	2,4

#### In PG\* and AL\* preslots for self tapping screws.

Preslotted holes for self tapping screws (study the slot designs) only in the material qualities PG\* and AL\*.

### Tray SPBE-40 Medium Duty for tube installation



Widths:

50 -100 -150 - 200 mm

Length: 3m  
 Material thickness: HDG and AL:  
 1,5 mm(50-100) 2 mm(150-200)  
 PG: 1,5 mm(50-200) 2 mm(300-600)  
 SS: 1,5 mm  
 On request: Epoxy coated and special treatment.

Widths 300 and 400mm are also supplied as standard.  
 Please see our catalogue: Cable Tray System Type SPB.

#### LOADING TABLE SPBE-40: SWL (kg/m)

All tests are according to IEC 61537.

SWL: Safe Working Load

Material quality	Material mm	Opphengsavstand Support spacing		
		2,0 m	2,5 m	3,0 m
SS	1,5	34	32	22

**Capacity per m:** The table shows maximum allowed safe working load with 1,5 mm material thickness, including a safety factor of 1,7. According to the test procedure the length of the end span must be reduced to 3/4 of the support spacing.

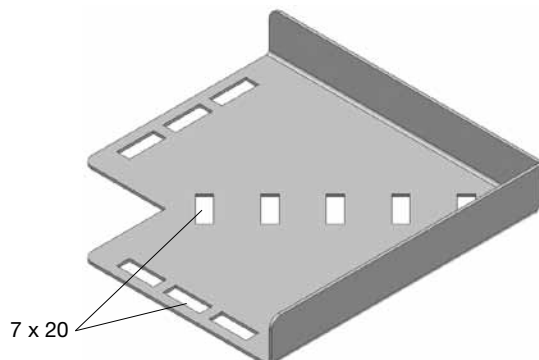
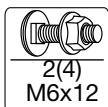
#### SPBE-40 order list:

Type states height of side piece + tray width.

Type	PG* Art. no.	HDG Art. no.	SS Art. no.	AL* Art. no.	Weight SS (kg/m)
SPBE-40-50	-	1371740	1371745	1372233	0,9
SPBE-40-100	-	1371741	1371746	1372235	1,4
SPBE-40-150	-	1371742	1371747	1372237	1,9
SPBE-40-200	-	1371743	1371748	1372239	2,4

#### In PG\* and AL\* preslots for self tapping screws.

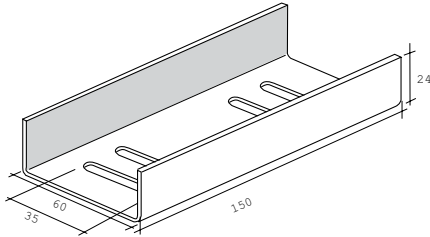
Preslotted holes for self tapping screws (study the slot designs) only in the material qualities PG\* and AL\*.



### 90° Bend for tubing installation

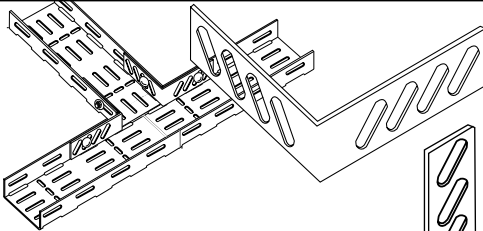
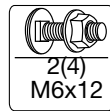
Type	HDG Art. no.	SS Art. no.	AL Art. no.	Weight SS (kg)
SPBE20 BE-TI-50	1302175	1371835		0,12
SPBE20 BE-TI-100	1302176	1371836		0,28
SPBE20 BE-TI-150	1302177	1371837		0,52
SPBE20 BE-TI-200	1302178	1371838		0,82
SPBE40 BE-TI-50	1302180	1371840		0,18
SPBE40 BE-TI-100	1302181	1371841		0,36
SPBE40 BE-TI-150	1302182	1371842		0,61
SPBE40 BE-TI-200	1302183	1371843		0,89

## Equipment for tubing installations on tray



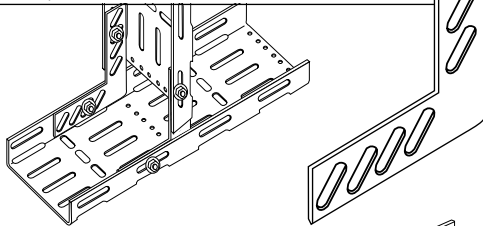
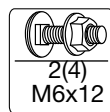
### Splice Connector 50 mm widthts

Type	HDG Art. no.	SS Art. no.	AL Art. no.	Weight SS (kg)
SPB SC-50	1302166	1371812	77384	0,15



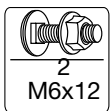
### Tubing Angle for SPBE-40

Type	HDG Art. no.	SS Art. no.	AL Art. no.	Weight SS (kg)
SPBE40 AS-HO	1302168	1371815		0,13

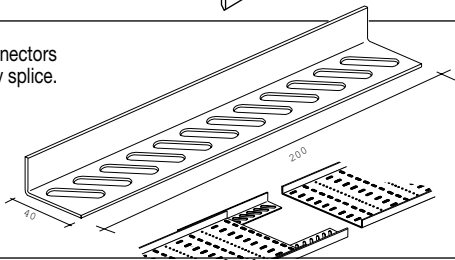


### Vertical Tubing Angle for SPBE-40

Type	HDG Art. no.	SS Art. no.	AL Art. no.	Weight SS (kg)
SPBE40 AS-VE	1302185	1371845		0,1

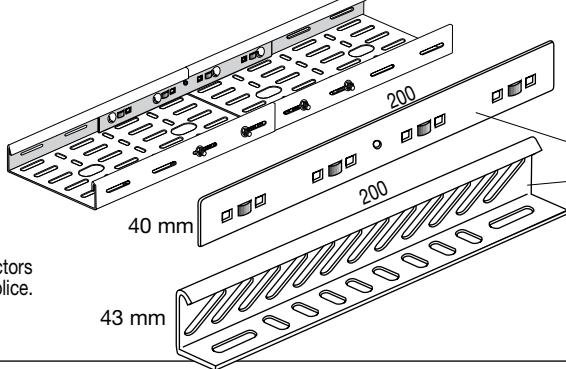
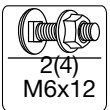


2 splice connectors  
for each tray splice.



### Splice Connector for SPBE-20

Type	HDG Art. no.	SS Art. no.	AL Art. no.	Weight SS (kg)
SPBE-20 SC	1371805	1371807	1372232	0,1

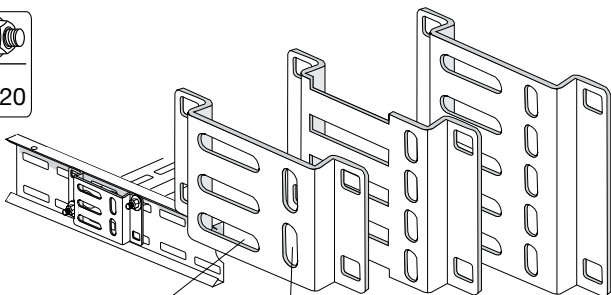
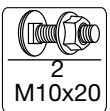


### Splice Connector for SPBE-40 + SPB-RF

Type	HDG Art. no.	SS Art. no.	AL Art. no.	Weight SS (kg)
SPB SC-40		1371808		0,14
SPBE SC-40	1371806	77516	1372244	0,14

2 splice connectors  
for each tray splice.

## Tubing brackets for cable ladder installation:



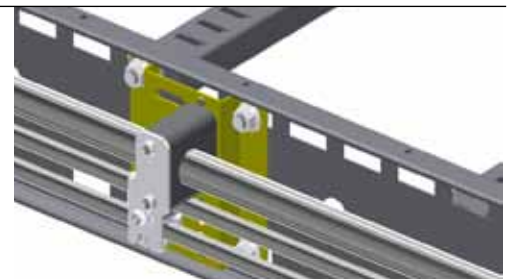
### Tubing Bracket for OE 100

For both ETIN and INKO clamp mounting on the outside side piece on an OE ladder.

Type	HDG Art. no.	SS Art. no.	AL Art. no.	Weight SS (kg)
A-OE100-ETIN IF	1302187	1371848	-	0,13
A-OE125-ETIN IF		89380	-	0,16
A-OE150-ETIN IF		83479	-	0,21

**ETIN®** fits all  
lengthwise  
perforation  
c/c 25mm

**INKO®** fits all  
crosswise  
perforations



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# SIMPLY THE BEST!

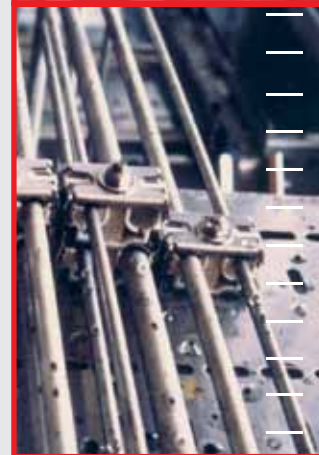
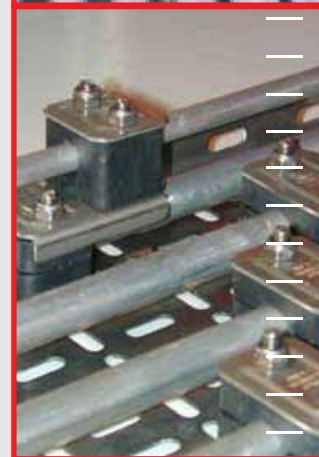
Dette har vært vårt motto helt siden firmaet ble grunnlagt i 1977.

Ved å følge dette mottoet har vi blitt markedslederen innen våre felt – globalt.

Øglænd Systems mål er å utvikle systemer som er de beste, enkleste og mest økonomiske på markedet.

This has been our motto since the company was founded in 1977. By living up to the motto we have become the market leader in our field – worldwide.

Oglaend System's goal is to develop systems that are better, simpler and more economic overall.



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Datterselskap/Subsidiary:  
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