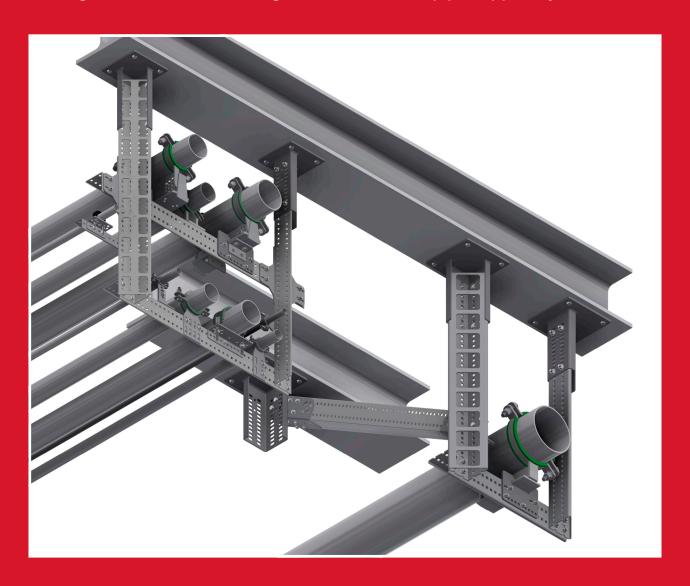


A Group Company of

Maintenance & Modifications

Quick guide for selection, sizing and installation of pipe support systems



Reduce MMO costs with >30%



Flexible cold work solutions



Quick and Easy On-site modifications



Light weight support system



Reduce deferment & installation cost

We Support You!

This is your tool for selection, sizing and installation of pipe support systems used in offshore maintenance and modification work.

By following the step-by-step guide you can reduce your MMO costs with >30%.

Full product overview is found at www.oglaend-system.com/selector



STEP-BY-STEP GUIDE

TO REDUCING PROJECT COSTS WITH >30%

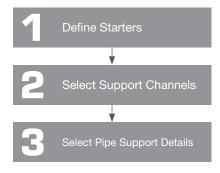


- Identify total load.
- Define starter points.
- Select typicals and channels based on P4D load matrix.
- Select pipe support accessories (pipe clamps, pipe shoes etc).
- Model support if required. Our channels and accessories are available in standard 3D software libraries.
- Mekano® typicals for piping are pre-engineered. Load matrix and documentation report are available on request.
- Call us for support we have done this since 1977.



Call or e-mail us to order:

Phone: (+47) 51 78 81 00 Email: order@oglaend-system.com





- Re-use or install new starters by use of cold work only (bolted or clamped).
- Alternatively, bolt channel directly to existing steel.
- Install the support typicals (few parts).
- Install pipe and accessories.

1-2-3 Pipe Support Guide



Define Starters

Our bolted starters are made for light and heavy piping applications and can be installed while the facilities are in operation. They are specially designed to fit the triangular Mekano® Channels. Clamped solutions are also available.





BOLTED L-BRACKET 50		
Art. no.	1306907	
Fits channel	CH50-2T2.5	
Material thickness (mm)	m) 3	
Weight (kg)	0.7	
For light duty supporting.		



BOLTED C-BRACKET 100		
Art. no.	1303358	
Fits channel	CH100-2T3	
Material thickness (mm)	4	
Weight (kg)	5.0	



BOLTED C-BRACKET 125		
Art. no.	1306896	
Fits channel	CH125-2T5	
Material thickness (mm)	5	
Weight (kg)	8.4	



Select Mekano® Support Channels

Mekano® is a flexible, lightweight and cost saving support system designed for multidiscipline **piping** applications.



MEKANO® CH50-2T2.5		
Art. no.	1372183	
Length (mm)	3000	
Width (mm)	50	
Material thickness (mm)	2.5	
Weight (kg)	7.3	
Weight (kg/m)	2.43	



MEKANO® CH100-2T3		
Art. no.	1372185	
Length (mm)	3000	
Width (mm)	100	
Material thickness (mm)	3	
Weight (kg)	18.0	
Weight (kg/m)	6.0	



MEKANO® CH125-2T5		
Art. no.	1303398	
Length (mm)	3000	
Width (mm)	125	
Material thickness (mm)	5	
Weight (kg)	36.9	
Weight (kg/m)	12.3	



Select Pipe Support Details

U-Straps & U-Bolts



U-BOLTS		
Туре	SS	
1/2" M6	1302403	
1/2" M8	1302404	
3/4" M8	1302405	
3/4" M10	1302396	
1" M8	1302406	
1.1/4" M10	1302407	
1.1/2" M10	1302408	
2" M10	1302409	
2" M12	1302410	
2.1/2" M10	1302411	
2.1/2" M12	1302412	
3" M12	1302413	
3.1/2" M12	1302414	
4" M12	1302415	
Not all dimensions fit DN piping sizes.		
PSU 110	1302391	
PSU 160	1302392	
Bracket for U-Bolts. PSU 110 for 1/2"-2" and PSU 160 for 1"-4".		



	U-BOLT VIBF	RO DAMPING
	Туре	SS
	PC06-015	PS43200
Non-Grip	PC06-020	PS43201
	PC06-025	PS43202
	PC06-032	PS43203
	PC06-040	PS43204
	PC06-050	PS43205
	PC05-015	PS43180
	PC05-020	PS43181
<u>.</u>	PC05-025	PS43182
Grip	PC05-032	PS43183
	PC05-040	PS43184
	PC05-050	PS43185
	For lines DN 15 Type	



	U-STRAP	
	Туре	SS
	PC01-050	PS43000
Von-Grip	PC01-080	PS43001
	PC01-100	PS43002
2	PC01-125	PS43003
	PC01-150	PS43004
	PC01-200	PS43005
	PC02-050	PS43048
	PC02-080	PS43049
Grip	PC02-100	PS43050
	PC02-125	PS43051
	PC02-150	PS43052
	PC02-200	PS43053
	For CS, SS a DN 50-20	



MEKANO® ADAPTERS		
Туре	SS	
1/2"-2"	PS60051	
2"-5"	PS60050*	
6"-8"	PS60046*	
1/2"-2"**	PS60414	
2"-5"**	PS60412*	
6"-8"**	PS60410*	
For fitting on Mekano®.		

*Nonie adjustment. **For Mekano CH125-2T5.

Pipe Clamps



2 BOLTS PIPE CLAMP

FOR LIGHT LOADS		
Туре	ss	
PC08-015	PS43299	
PC08-020	PS43300	
PC08-025	PS43301	
PC08-032	PS43302	
PC08-040	PS43303	
PC08-050	PS43304	
PC08-080	PS43305	
PC08-0100	PS43306	
PC08-0125	PS43307	
PC08-0150	PS43308	
PC08-0200	PS43309	

For CS, SS & Alloy Lines DN 15-200 / 1/2"-8".





	PERFORATED PLATE, PIPES ≤ 2"		
	Туре	SS	
	PC21-015	PS44065	
ate	PC21-020	PS44066	
Long-Plate Short-Plate	PC21-025	PS44067	
	PC21-032	PS44068	
	PC21-040	PS44069	
	PC21-050	PS44070	
	PC21-015	PS44100	
	PC21-020	PS44101	
	PC21-025	PS44102	
	PC21-032	PS44103	
	PC21-040	PS44104	
	PC21-050	PS44110	

Long-Plate have ~6 mm adjustment available by turning the clamp 180°. Not compatible with CH125-2T5.



PERFURATED PLATE, 2"-4" PIPES		
Туре	SS	
PC23-050	PS44150	
PC23-065	PS44151	
PC23-080	PS44152	
PC23-090	PS44153	
PC23-0100	PS44154	

Not compatible with CH125-2T5.



ADJUSTABLE BRACKET		
Туре	SS	
PC13-015	PS43750	
PC13-020	PS43751	
PC13-025	PS43752	
PC13-032	PS43753	
PC13-040	PS43754	
PC13-050	PS43760	
2 M10 Nut(s) included. Not compatible with CH125-2T5.		

Pipe Shoes



SHORT CLAMPED SHOE		
Туре	SS	
PS-01-0050	PS46015	
PS-01-0080	PS46016	
PS-01-0100	PS46017	
PS-01-0125	PS46018	
PS-01-0150	PS46019	
Height: 100 mm.		



CLAMPED SHOE		
Туре	SS	
PS-02-0050	PS46218	
PS-02-0080	PS46219	
PS-02-0100	PS46220	
PS-02-0125	PS46221	
PS-02-0150	PS46222	
PS-02-0200	PS46223	

Height: 100 mm. Length: 300 mm.



ADJUSTABLE (LOW)		
Туре	SS	
PS-05-0050	PS46067	
PS-05-0080	PS46068	
PS-05-0100	PS46069	
PS-05-0125	PS46070	
PS-05-0150	PS46071	
PS-05-0200	PS46072	
Height: 100 mm.		

Length: 316 mm. Adjustable in 2.5 mm steps.



ADJUSTABLE (HIGH)		
Туре	SS	
PS-07-0050	PS46037	
PS-07-0080	PS46038	
PS-07-0100	PS46039	
PS-07-0125	PS46040	
PS-07-0150	PS46041	
PS-07-0200	PS46042	
Height: 150 mm. Length: 316 mm. Adjustable in 2.5 mm steps.		



BOLTED LINE GUIDE & HOLD DOWN			
Туре	SS	Baseplate thickness	
LG05-A	PS41862	10 mm	
LG05-B	PS41872	15 mm	
LG05-A	PS41863*	10 mm	
LG05-B	PS41873*	15 mm	

With Nonie adjustment for Shoes. *For Mekano® CH125-2T5.



BOLTED ANCHOR/LG+HD			
Туре	SS	Baseplate thickness	
LG01-A	PS41678	10 mm	
LG01-B*	PS41679	10 mm	
LG01-C	PS41680	15 mm	
LG01-D*	PS41681	15 mm	
4 M10 Nut(s) included.			

Not compatible with CH125-2T5.



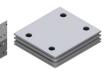
BOLTED LINE STOP		
Туре	SS	
LS01	PS41900	
LS02-A	PS41903*	
Includes 2x Line Stops for Shoes. *For Mekano® CH125-2T5.		

Pipe Support Accessories















Type	SS
ISOLATION PAD	(RECTANGULAR)
LOW FRICTIO	N MULTIGRID

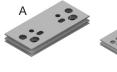
IOOL/IIION I /ID	(11201/114002/111)
Туре	SS
MI01-A	PS42000
MI01-B	PS42001
MI01-C	PS42002
MI01-D	PS42003
MI01-E	PS42004
MI01-F	PS42005

-46°C-150°C (PTFE/SS). Shim plates included (2x2 mm). Not compatible with CH125-2T5.

LOW FRICTION MULTIGR	
ISOLATION PAD (SQUAR	ŀ

ISOLATION PAD (SQUARE)			
Туре	SS		
MI02-A	PS42020		
MI02-B	PS42021		
MI02-C	PS42022		
MI02-D	PS42023		
MI02-E	PS42024		
MI02-F	PS42025		

-46°C-150°C (PTFE/SS). Shim plates included (1x1 mm + 2x2 mm). Not compatible with CH125-2T5.





For more detailed information about our pipe support products visit our website:

www.oglaend-system.com/products/accessories/pipe-support

Pipe Support Accessories

COMPLETE RANGE

A full and comprehensive range of standard and specialist accessories are available that simplify design and procurement, and offer quick, safe and economical installation for all disciplines.

For more details about our Mekano® product range visit our website: www.oglaend-system.com/products/support/mekano

Mekano® Accessories







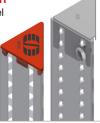
Mekano® CH100-2T3



Mekano® CH125-2T5

END CAP PROTECTOR

Used when the channel is cut and the surface is left untreated.



SPLICE CONNECTOR

Splices for Mekano® Channels are usually not necessary as all Channels comes in 3 m lengths.



GUSSET PLATES

Gusset Plates are available to reinforce the connection between two Triangle Channels. Gusset Plates are recommended to use when installing L and T supports and when adding cantilevers. Always use with CH50 to achieve 2 bolt connection.



Channel Washers are used to reinforce the channel in case of heavy loads.



BRACING BRACKET

To provide additional support. Can be retrospectively added when using MultiGrid® system.













CABLE PROTECTORS

Can be used to safely exit cables through the holes in the Triangle Mekano® Channel.

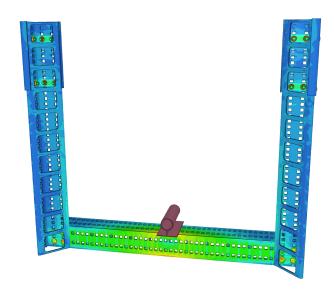


Support System Selection



WE USE P4D TO PRE-ENGINEER OUR SYSTEMS

P4D is an engineering tool developed to design and predict the behavior of Mekano® support systems. Finite Element technology provides extreme accuracy, well suited for piping applications.



U-Frame	L-Frame	T-Frame	Cantilever	Stand/Goal Post
<u>Q</u>		Q Q		

PRE-ENGINEERED

All our typical piping support solutions are pre-engineered. The need for further calculations in PMO projects will in many cases be unnecessary.

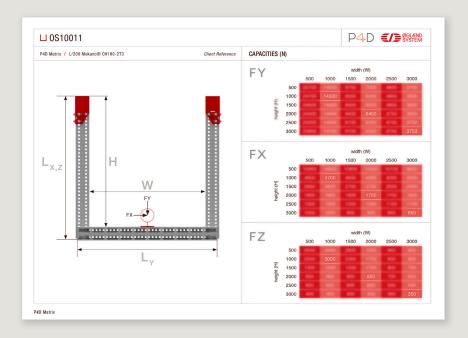
Use our P4D Matrix for quick channel and support selection (available upon request). Bespoke projects are verified with P4D.

DOCUMENTATION AVAILABLE

All typicals are supplied with relevant documentation.

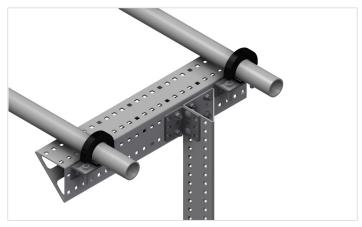
P4D MATRIX TEASER

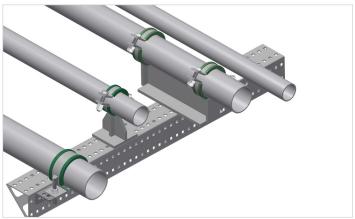
Contact us for full versions of load matrices that cover all support typicals.



Pipe Support Applications













Øglænd System AS P.O. box 133, Engelsvollvegen 264 N-4358 Kleppe, Norway

Phone: (+47) 51 78 81 00 E-mail: oglaend@oglaend-system.com

Order/purchase orders: ordre@oglaend-system.com

Contact us:

Hilti do Brasil Comercial Ltda Alameda Rio Negro,500 | Torre A - 9° Andar CEP 06454-000 | Barueri-SP

Customer service: 11 4134 9050 (Monday to Friday from 8:00 to 18:00 BRT)

Online:www.hilti.com.br/#contact



A Group Company of