

GLADIATOR[®] SAFETY LIFTING CLAMPS

The Carbon Fiber Composite Clamp



Lightweight

**HIGH PERFORMANCE
LIFTING EQUIPMENT**

MADE IN HOLLAND

PERFECTION THROUGH INNOVATION

High Performance Lifting Equipment is a SpanSet associated company with R&D and production facilities located in the Netherlands. We specialise in manufacturing safety lifting clamps using traditional steel or carbon fibre composites as the base material.

When moving heavy loads, safety and care are top priority. This means ensuring the highest level of protection for both goods and all persons involved. HPLE is one of the pioneers when it comes to using carbon fibre or lightweight carbon fibre composites to produce lifting equipment. With our safety lifting clamps and the expert advice of our application engineers, you can effectively prevent hazards and accidents. What's more, you will also comply with all legal requirements.

HPLE supports you both before and after the purchase: with services, inspections, and a comprehensive training programme, as well as reliable advice specific to your practical requirements.

Please visit our homepage

At www.highperformanceliftingequipment.com or www.spanset.com you will discover interesting information about our company, new products, trade fair dates, services and our distribution network of specialist dealers throughout the world. Simply scan the QR code with your mobile phone QR reader.



SpanSet worldwide:

Switzerland, Germany, England,
Spain, France, Italy, Austria,
Hungary, Netherlands, Poland,
Australia, Brazil, USA, Indonesia,
Taiwan, China



APPROVED

PATENTED

GLADIATOR ALL DIRECTIONS SAFETY LIFTING CLAMPS

HPLE confirms its innovative power with the introduction of a series of carbon fibre composite Gladiator all directions safety lifting clamps. Gladiator safety lifting clamps offer improvements in many respects when compared to traditional steel lifting clamps. When we started developing Gladiator safety lifting clamps, our main objectives were to reduce weight, improve the clamp's ergonomics and improve safety on the shop floor. In designing the carbon fibre Gladiator multi-directional clamps, we have achieved these goals. This effort has been recognised by our customers and through the granting of a patent.

Light weight

The body of the Gladiator clamp is made from carbon fiber composite materials. By using carbon fiber composites we can produce ultra lightweight lifting clamps that are also incredibly strong, are corrosion-resistant and feature superb fatigue characteristics. These factors ensure a lifespan of the body of 2,000,000 cycles (tested in horizontal and vertical position).

Horizontal and vertical lifting – All directions

The Gladiator safety lifting clamps are equipped with a horizontal and vertical hoisting eye. Due to this construction, the clamps are suitable for the lifting, turning (180°), moving and transfer of sheet materials, plates, beams and fabrications in horizontal and vertical position. Plates can also be rotated from horizontal to vertical and back to horizontal (180°).

Improved ergonomics - easier handling

The Gladiator clamps are ultra lightweight and very robust. Thanks to the design and construction of the Gladiator clamp, the user has a better grip on the clamp while attaching it to the plate. A spindle is used to open and close the clamp. By using a spindle we have created a larger jaw aperture than standard clamps. The handle is designed for easier opening and closing. These innovations improve the ergonomics of our Gladiator safety lifting clamps.

Improved safety

We added a maximum WLL indicator, positions so as clearly visible on both hoisting eyes. This indicator makes it easy for the user to recognise for which maximum load the lifting clamp can be used. Thanks to the design of the swivel jaw, the clamping force increases during the lift. We have also improved safety by adding an overload indicator that is clearly visible on the body of the clamps. All steel parts feature a corrosion-resistant layer and traceability code. These innovations improve safety on the shop floor!

Gladiator Safe Lifting Indicator

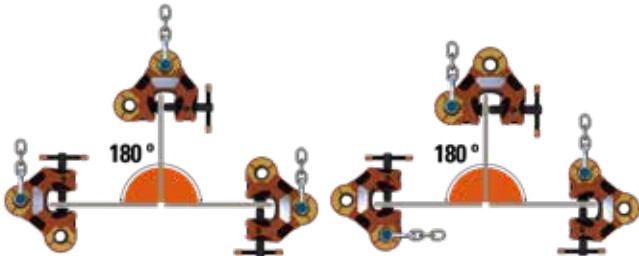
All Gladiator safety lifting clamps are fitted with a safe lifting indicator, which ensures sufficient clamping force. When the clamp screw is tightened, the safe lifting indicator moves from the left (red) to the right (green) area. When the safe lifting indicator is in the green area there is sufficient clamping force to perform a safe lift.

Connecting element included

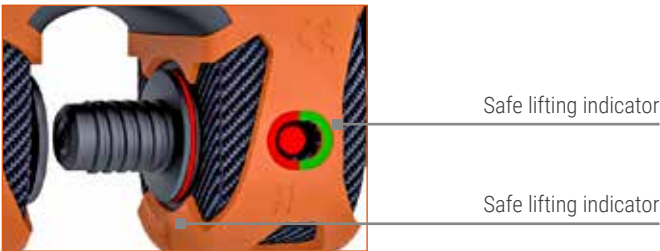
The Gladiator lifting clamps come supplied with a compatible shackle.

Gladiator safety lifting clamps - European Norm EN 13155

- European Norm EN 13155
- USA Norm ASME B30.20, Design category B, Service class 4
- USA Norm ASME BTH – 1
- Australian Norm 4991
- CE European Machine Directive 2006/42/EC.



Nominal load-bearing capacity WLL [kg]	
	1.000 kg
	2.000 kg
	3.000 kg
	6.000 kg



USP

MADE IN
EUROPE



Maximum WLL indicator

Improved corrosion resistance

Hardened alloy steel inserts to ensure
endurance

Ultra light weight body

Carbon fibre composite

Impact resistant layer

Prevents damage of the clamp and load

Spindle to facilitate a
larger gripping range

Equipped with RFID chip

Swivel jaw

To generate additional clamping
force

Alloy steel parts with
anti-corrosion coating and
traceability code

Overload indicator for body

Improved safety

Safe lifting indicator

To ensure clamping force



6-AD
HV < 364



6-AD H
HV < 473



6-AD S
HV < 364



6-AD NM

GLADIATOR ALL DIRECTIONS SAFETY LIFTING CLAMPS – FOR LIFTING IN ANY DIRECTION

	Gladiator model	WLL (t)	Gripping range (mm)	Order number	Dimensions (mm)								Product weight (kg)
					A	B	C	D	E	F	G	H	
	3-AD	3	0-35	2020491	30	203	96	126	62	263	32	80	3.6
	6-AD	6	0-50	2020499	38	275	125	172	65	335	57	126	9.7
For very hard materials													
	3-AD H	3	0-35	2020492	30	203	96	126	62	263	32	80	3.6
	6-AD H	6	0-50	2020500	38	275	125	172	65	335	57	126	9.7
For stainless steel													
	3-AD S	3	0-35	2020493	30	203	96	126	62	263	32	80	3.6
	6-AD S	6	0-50	2020501	38	275	125	172	65	335	57	126	9.7
Non-marring													
	2-AD NM	2	0-30	2020494	30	203	96	126	62	263	32	80	3.7
	3-AD NM	3	0-40	2020502	38	275	125	172	65	335	57	126	9.8

i	AD All directions	H Hard	S Stainless Steel	NM Scratch and impression-free
----------	--------------------------	---------------	--------------------------	---------------------------------------

- Available in capacities 3t and 6t. Higher WLL are available on request.
- The clamps are equipped with a horizontal and vertical hoisting eye. Due to this construction, the clamps are suitable for lifting, turning (180°), moving and transfer of sheet materials, plates, beams and fabrications in horizontal and vertical position.
- All Gladiator AD safety lifting clamps are fitted with a safe lifting indicator, which ensures complete safety.
- Breaking Load Limit of 4x WLL.
- Load cycles until Gladiator safety lifting clamps become unusable (tested in horizontal and vertical position); 2,000,000 load cycles.
- For use with materials with a surface hardness up to 364 HV and material tensile strength up to 1200N/mm².
- There is no minimum WLL required**
- Temperature range -40°C/104°F - +80°C/176°F.
- Each clamp is individually serialised . Serial number and date of proof load test are marked on the body.
- Instruction manual and test certificate included with each clamp.
- Service and repair manual available on request.
- All load-bearing parts are marked with a traceability code and the HPLE logo to guarantee the original, highest-quality HPLE parts.
- Individually proof tested to 2x the Working Load Limit with certification.
- Maintenance and overhaul kits are available for all clamps. All Gladiator safety lifting clamps are RFID-equipped.
- Gladiator AD H are suitable for the lifting, turning (180°), moving, horizontal and vertical transfer of sheet materials, plates, beams and fabrications with a maximum hardness of 473 HV, tensile strength 1550 N/mm² (for example Hardox 400 and 500).
- Gladiator AD S are suitable for the lifting, turning (180°), moving, horizontal and vertical transfer of sheet materials, plates, beams and fabrications with a maximum hardness of 364 HV, tensile strength 1200 N/mm².
- 5 Year Warranty (conditions on request).
- See other HPLE products for connection between clamp and the hoist hook.

Connecting element included

The Gladiator lifting clamps come supplied with a compatible shackle.



Textile couplink



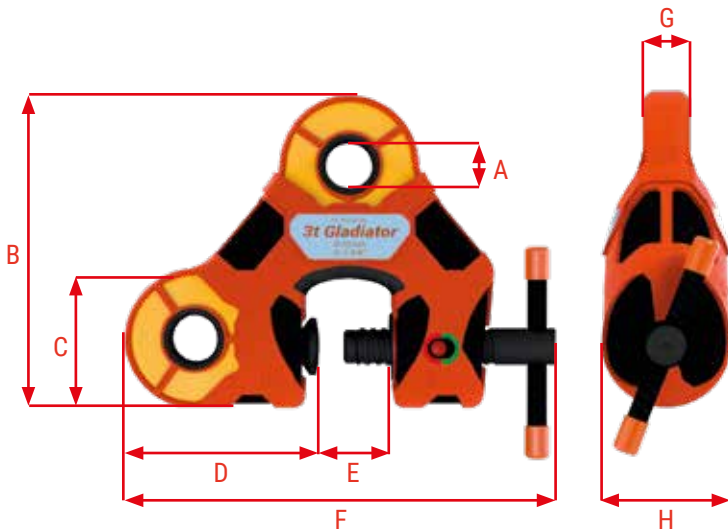
SpanSet sling



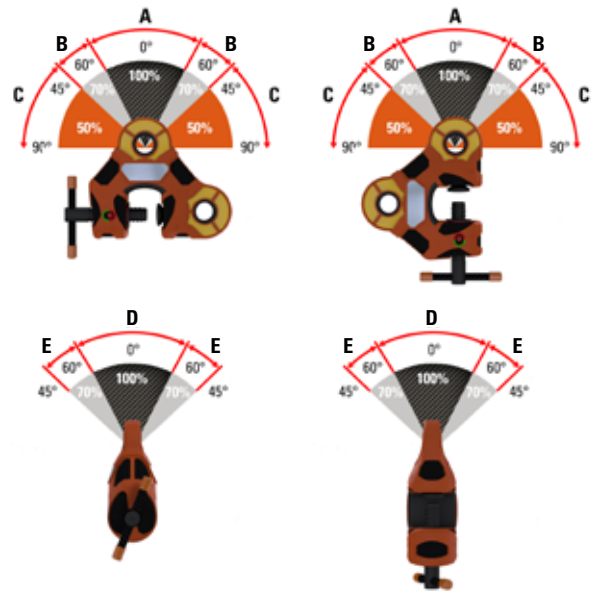
Exoset shackle

TECHNICAL SPECIFICATIONS

Dimensions



Load angles diagram



IDXpert provides you with a robust asset management and tracking system

- Utilises the latest RFID technology to automate the routine inspection process for your equipment.
- Allows online access to your certificates and inspection records wherever you are connected to a secure web portal.
- Uniquely identifies all items of equipment with RFID tags to reduce inspection times.
- Provides a facility audit via a handheld device to check the inspection status of equipment.

Examples of equipment that can benefit from IDXpert management

- Exoset safety lifting clamps.
- Personal protective equipment for working at height.
- Fall arrest blocks.
- Hardware and connectors for working at height.
- Synthetic lifting slings.
- Chain slings and wire ropes.
- Hoists, shackles and lifting accessories.
- Cranes.
- Fork lift trucks.

Most SpanSet products are equipped with IDXpert transponders, for example Gladiator safety clamps and lifting slings. Other products can also be retrofitted with an IDXpert transponder. There are different tag options for different applications. For more information, see www.spanset.com.

Traceability

The body and all load-bearing parts of an Gladiator safety lifting clamp are permanently marked with a serial number, batch code, test date and/or year of manufacture. Identifying features such as clamp type, load capacity, jaw width (in mm and inches) are visible on the body of the Gladiator Safety lifting clamps.



Swivel jaw



Edge pad



Pressure nut

GLADIATOR ALL DIRECTIONS SAFETY LIFTING CLAMPS - FOR LIFTING IN ANY DIRECTION

	Gladiator model	WLL (t)	Clamp order number	Maintenance kit order number	Overhaul kit order number
	3-AD	3	2020491	2020507	2020523
	6-AD	6	2020499	2020515	2020531
For very hard materials					
	3-AD H	3	2020492	2020508	2020524
	6-AD H	6	2020500	2020516	2020532
For stainless steel					
	3-AD S	3	2020493	2020509	2020525
	6-AD S	6	2020501	2020517	2020533
Gentle and scratch-free lifting					
	2-AD NM	2	2020494	2020510	2020526
	3-AD NM	3	2020502	2020518	2020534

i	AD All directions	H Hard	S Stainless Steel	NM Scratch and impression-free
----------	--------------------------	---------------	--------------------------	---------------------------------------

Maintenance kit



Overhaul kit



Optimum availability of spare parts and kits

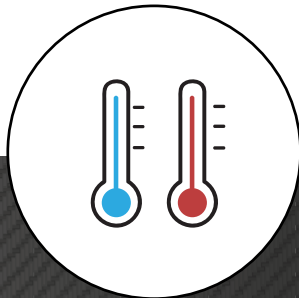
The modular design of a Gladiator all directions safety lifting clamp enables the quick and accurate inspection of the Gladiator clamp as well as cost-effective parts replacement. Maintenance- and overhaul kits are available for all Gladiator clamps.



Ultra light weight



RFID



-40°C/104°F - +80°C/176°F

GLADIATOR ALL DIRECTIONS SAFETY LIFTING CLAMPS - FOR LIFTING IN ANY DIRECTION



Descr	Body complete	Swivel jaw complete	Bearing	Pressure nut complete	Clamp handle	Edge pad	Clamp screw	Safe Lifting Indicator	Jaw insert
Part no.	1000	4000	4400	5000	6000	7100	7200	8100	9500

Service and repair
There is a service and repair manual available for all Gladiator safety lifting clamps. This manual provides clear instructions regarding how to inspect, maintain and test Gladiator clamps. With the help of illustrations, we explain how to assemble and disassemble Gladiator clamps. A table is provided with the permitted tolerances for all parts and instructions regarding when to replace a part.



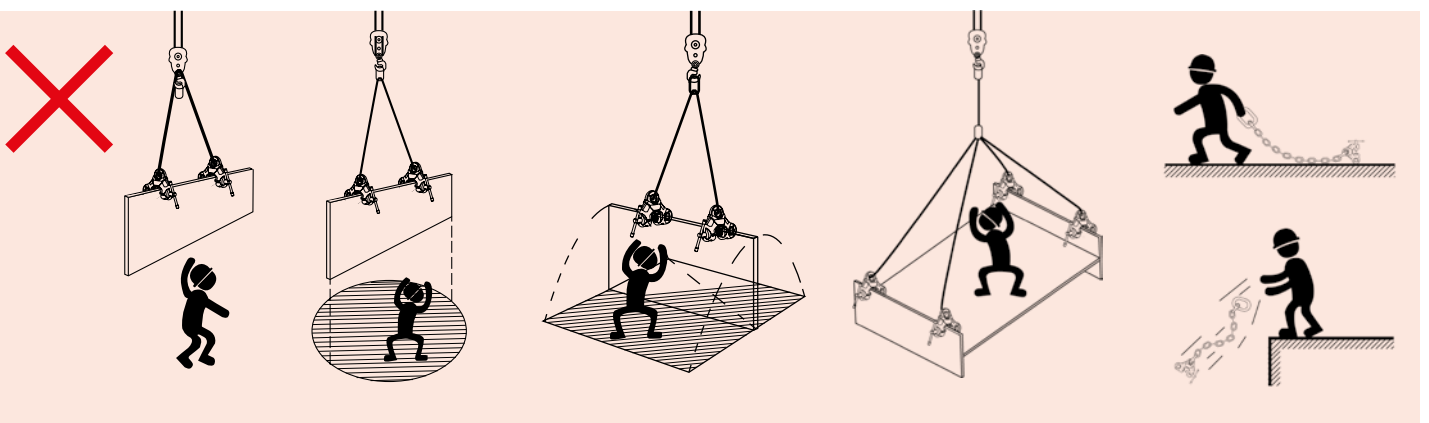
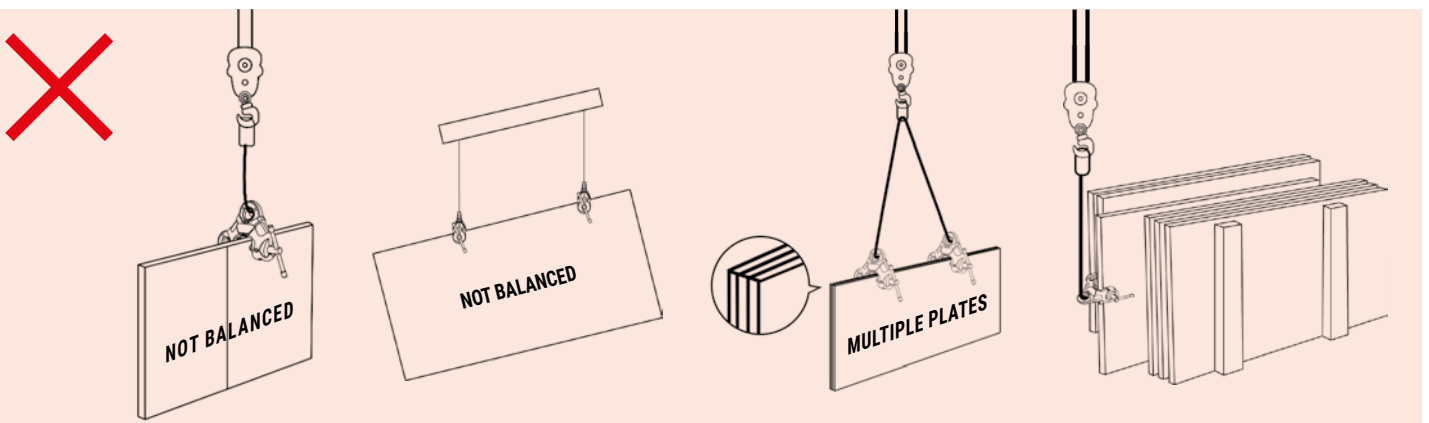
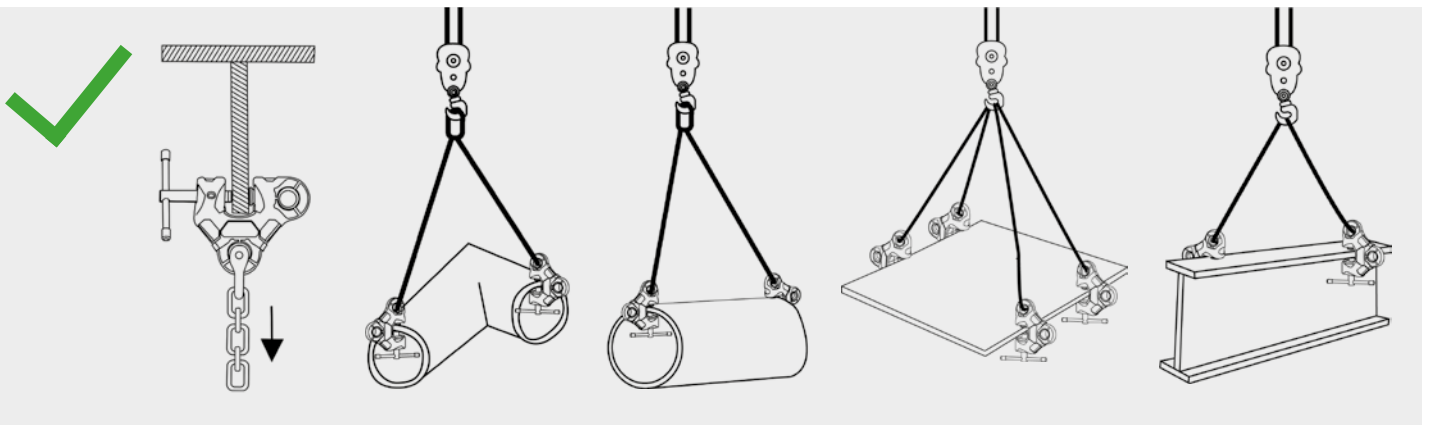
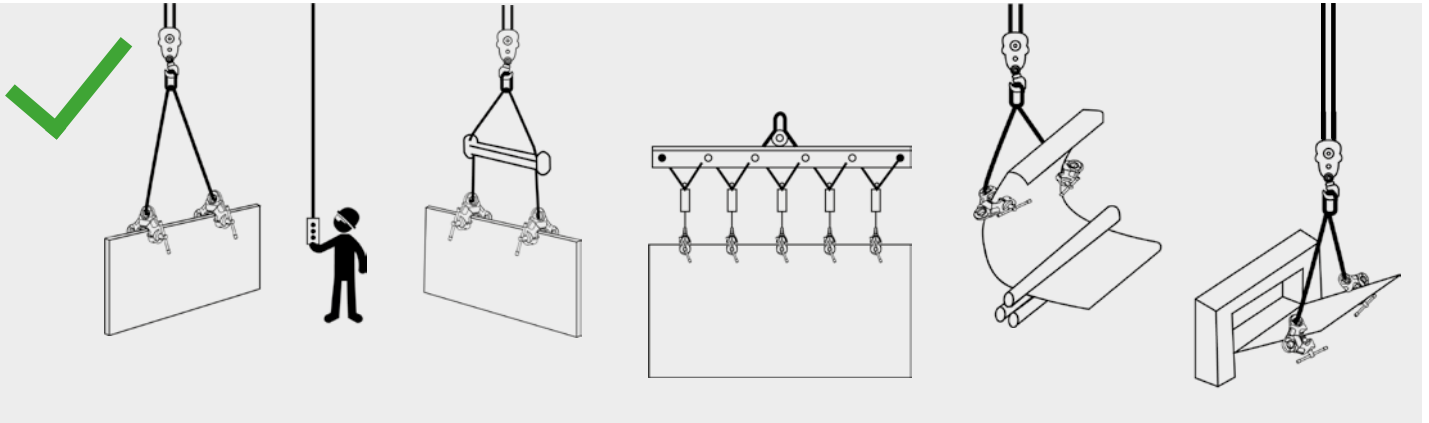
Certificate



Instruction manual



Service and repair



TRAINING PROGRAMS

Sales Training:

Target group:	Sales & service engineers, distributors.
Objective:	General introduction followed by an extensive product training on how to use the clamps and areas of application.
Training:	Presentation explaining the Gladiator clamps, using practical examples and questions.
Duration:	90-120 minutes, maximum of 10 people per session.
Trainer:	Certified trainer.
Location:	Onsite or at distributor's office.

User Training:

Target group:	Shop floor workers and safety employees.
Objective:	Working safely with lifting clamps. Using the right clamp, in the right way, at the right place.
Training:	Presentation explaining the Gladiator clamps, using practical examples and questions.
Duration:	90-120 minutes, maximum of 15 people per session.
Trainer:	Certified trainer.
Location:	Onsite or at distributor's office.

Repair Training:

Target group:	Service engineers or HPLE/SpanSet authorised dealers.
Objective:	Obtain qualification as SpanSet certified repair station.
Training:	Inspection, disassembly and assembly of clamps. Inspection of tolerances using the manual SpanSet complete repair procedure test: inspection, disassembly, assembly and testing. General applications of Gladiator safety lifting clamps.
Duration:	2-3 hours, maximum of 3 people per training.
Trainer:	Certified trainer.
Location:	Onsite or at distributor's office.

CERTIFICATES

SALES TRAINING GLADIATOR SAFETY LIFTING CLAMPS

USER TRAINING GLADIATOR SAFETY LIFTING CLAMPS

REPAIR TRAINING GLADIATOR SAFETY LIFTING CLAMPS

AUTHORISED DEALER GLADIATOR SAFETY LIFTING CLAMPS

High Performance Lifting Equipment BV
A SpanSet associated company
Swammerdamlaan 10
6721 BK Bennekom
The Netherlands
Mb. (+31) (0) 6 537 289 55
info@highperformanceliftingequipment.com

SpanSet International Services AG
Samstagenstrasse 45
CH-8832 Wollerau - Switzerland
Phone +41 (0)44 929 70 70
Fax +41 (0)44 929 70 71
info@spanset.com
www.spanset.com

More from SpanSet



Watch the clamp testing videos at www.spanset.com



Watch clamp repair and practical situation videos at www.spanset.com



www.spanset.com



SpanSet zertifizierte Sicherheit

Subject to technical changes without notice. All rights reserved. No part of this catalogue may be reproduced in any form (by printing, photocopying, microfilm or any other method) or processed, copied or distributed by electronic methods without the written permission of High Performance Lifting Equipment BV®. This catalogue has been created with all due attention to detail; High Performance Lifting Equipment BV® accepts no liability for any errors or omissions. Misprints, errors and modifications excepted!

All prices excl. VAT, ex works.