



FLANGE TOOL INNOVATION



TWENTY
YEARS OF
EQUALIZER
1994 - 2014



TWENTY YEARS OF EQUALIZER



1994 - 2014

Equalizer International's focus is on delivering highly engineered yet practical solutions to industry problems. The birth of the company was 20 years ago and came from a simple idea to address the issue of misaligned flanges. From that one idea has developed a company and a range of flange maintenance tools, which are delivering significant safety and efficiency benefits, on a global basis.

As a truly customer-focused company Equalizer International listens to customers, understands operational challenges and designs while delivering innovative solutions. As the company has grown, it has continued to invest in Research & Development and has expanded the tool range to now offer flange aligning, spreading and pulling tools, together with a series of hand pumps and lifting tools. All of these adhere to the same company ethos of designing simple, yet highly effective, problem solving solutions.

Although the tools were originally developed for the oil and gas market, they have universal application in any market sector with significant numbers of flange joints, whether it's petrochemicals, chemicals, power generation, water, mining or renewable energy.

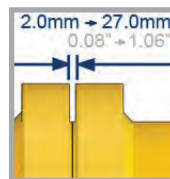
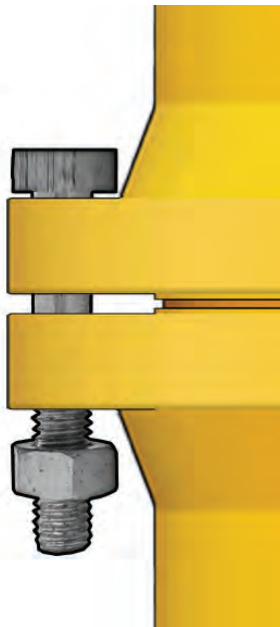
Equalizer International has grown from strength to strength over the last two decades and is already working on the next phase of tool development and company growth.

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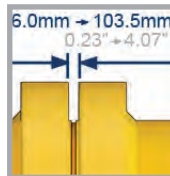
1. FLANGE SPREADING SOLUTIONS

The Equalizer™ range of patented flange spreading tools has been developed to aid and simplify the maintenance of flange joints. No longer will those tasked with separating flanges have to rely on using ropes and pulleys, podgers, tirsors or hammers – there is a safe, quick and effective alternative, the Equalizer™ range of spreaders. These spreaders use mechanical and hydraulic principles for separating flanges and can spread small, medium or large flange joints. Tool selection is made on the basis of the access gap between the flange faces:



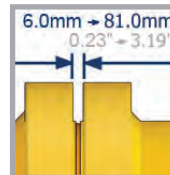
MG Tool:

The safest tool for small diameter, low pressure flanges with an access gap of at least 2.0mm.



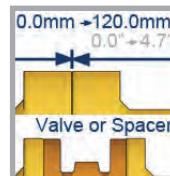
SWi Range:

The world's safest and most powerful flange spreading wedge for use on small, medium or large flange joints with an access gap of at least 6.0mm.



SW Range:

A general purpose spreading wedge for use on small, medium or large flange joints with an access gap of at least 6.0mm.



SG Range:

A globally unique spreader for use on flange joints with no access gap, or where there is a spacer, wafer or butterfly valve positioned between the flanges.

SWi RANGE

INNOVATIVE FLANGE SPREADING WEDGES

The SWi range has set the new standard for spreading flange joints powerfully, efficiently, effectively and safely. The tools offer the following features and benefits:

Wider spreading - using the supplied Stepped Block accessories means the SWi range offers up to 30% more flange spreading distance than a traditional SW tool.

Unrivalled power - the tools now offer up to 25T of spreading force, which provides additional confidence when spreading.

Narrower jaws - the SWi tools are 8% narrower than the traditional SW range to help them fit more easily between flange bolts.

Safer working – the 360-degree swivel lanyard on all SWi tools enables users to attach the spreader to some adjacent pipework, mitigating potential dropped object injury.

Fully rotational handle – the handle swivels 360-degrees around the wedge

head, so that the SWi tools can be used comfortably in all orientations.

Lighter tools – the SWi tools are on average lighter than the traditional SW spreaders and are therefore easier to carry on-site and to use.

Better handle grips – the SWi comes with a reinforced composite handle making it easier to grip, hold and use.

Safety blocks - designed to suit the step sizes of the SWi tools, the supplied safety blocks accommodate the wider spread offered when the stepped blocks are fitted.

Easier maintenance – end-users will appreciate the ease with which the tools can be maintained. The supplied hex-key and a two step-process is all that's required to disassemble and reassemble the tools.

No pinch points – the SWi range of tools has been engineered to overcome finger pinch-points.





SWi12/14TM

INNOVATIVE MECHANICAL FLANGE SPREADING WEDGE

This innovative spreading wedge is applicable for use on small to medium sized flanges and is mechanically operated using the supplied torque-wrench.



TOOL CAPABILITIES

SPREADING FORCE

with 175N.m (130ft.lb) torque applied:

- 120kN (12T) 1st step
- 140kN (14T) 4th step

SPREADING DISTANCE

- 6.0mm – 40.0mm (0.24" - 1.6") using only 1st step
- 6.0mm – 87.5mm (0.24" - 3.4") using 4 steps (without stepped blocks)
- 48.5mm – 103.5mm (1.9" - 4.1") using 2 steps (with stepped blocks)

TOOL WEIGHT

- 6.2kg (13.7lb)



STANDARD KIT



FLANGE TOOL INNOVATION

SWi20/25TE

INNOVATIVE EXTERNAL HYDRAULIC FLANGE SPREADING WEDGE

This innovative spreading wedge is applicable for use on medium to large sized flanges and is actuated by an external hydraulic hand-pump.



TOOL CAPABILITIES

SPREADING FORCE

with 700bar (10,000psi) hydraulic pressure applied:

- 200kN (20T) 1st step
- 240kN (24T) 4th step

SPREADING DISTANCE

- 6.0mm – 40.0mm (0.24" - 1.6") using only 1st step
- 6.0mm – 87.5mm (0.24" - 3.4") using 4 steps (without stepped blocks)
- 48.5mm – 103.5mm (1.9" - 4.1") using 2 steps (with stepped blocks)

TOOL WEIGHT: 6.4kg (14.02lb)

Available in three kit formats:



MINI KIT
(SWi2025TEMIN)



STANDARD KIT
(SWi2025TESTDSPB)



MAXI KIT
(SWi2025TEMAXSPB)



SWi20/25TI

INNOVATIVE INTEGRAL HYDRAULIC FLANGE SPREADING WEDGE

This self-contained, compact and portable innovative spreading wedge is applicable for use on medium to large sized flanges and is actuated by an integral hydraulic hand-pump, so no hoses or external pumps are required.



TOOL CAPABILITIES

SPREADING FORCE

with 700bar (10,000psi) hydraulic pressure applied:

- 200kN (20T) 1st step
- 240kN (24T) 4th step

SPREADING DISTANCE

- 6.0mm – 40.0mm (0.24" - 1.6") using only 1st step
- 6.0mm – 87.5mm (0.24" - 3.4") using 4 steps (without stepped blocks)
- 48.5mm – 103.5mm (1.9" - 4.1") using 2 steps (with stepped blocks)

TOOL WEIGHT

- 8.5kg (18.8lb)



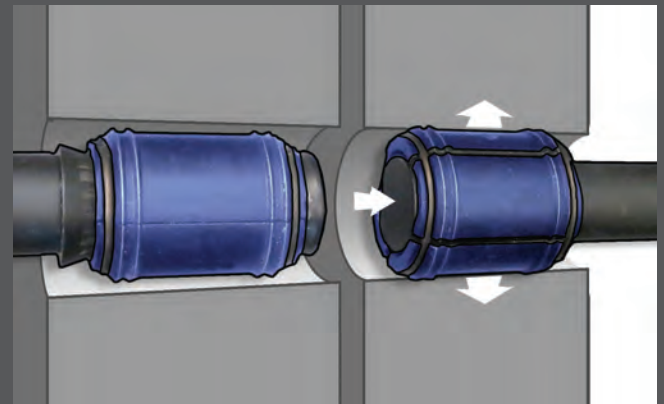
STANDARD KIT

SG RANGE

SECURE-GRIP FLANGE SPREADING TOOLS

Equalizer's globally unique Secure-Grip tools spread via the flange bolt holes and offer, arguably the world's safest flange spreading tools.

These tools use our patented expanding collet technology for application on flanges with a zero gap or where spacers, spectacles or butterfly valves reside between the flange joints.



EXPANDING COLLET TECHNOLOGY



SG4TM SG6TM SG11TM



SECURE-GRIP MECHANICAL FLANGE SPREADERS

The smaller lightweight mechanical SG tools are applicable for small to medium sized flanges, are actuated by the supplied torque wrench, and are suitable for bolt holes from 17.5mm (0.69") to 39.0mm (1.54"). Different collets are used to match the tool to the respective bolt hole diameter.



TOOL CAPABILITIES

- **SG4TM:**
spreading force of 37kN (3.7T);
spreading distance of 75.0mm (2.95")
tool weight: 4.5kg (10.0lb)
- **SG6TM:**
spreading force of 60kN (6T);
spreading distance of 80.0mm (3.15")
tool weight: 7.5kg (16.5lb)
- **SG11TM:**
spreading force of 110kN (11T)
spreading distance of 90.0mm (3.55")
tool weight: 10.5kg (23.2lb)



SG4TM KIT

Includes Collets:
M16 (5/8")
M20 (3/4")



SG6TM KIT

Includes Collets:
M24 (7/8")
M27 (1")



SG11TM KIT

Includes Collets:
M30 (1-1/8")
M33 (1-1/4")
M36 (1-3/8")



SG13TE SG15TE



SECURE-GRIP HYDRAULIC FLANGE SPREADERS

The hydraulic SG tools are applicable for medium to large sized flanges, are actuated by an external hand-pump and are suitable for bolt holes from 38.0mm (1.49") to 62.0mm (2.44"). Different collets are used to match the tool to the respective bolt hole diameter.



TOOL CAPABILITIES

- SG13TE:
spreading force of 130kN (13T);
spreading distance of 115.0mm (4.53")
tool weight: 21.5kg (47.3lb)
- SG15TE:
spreading force of 150kN (15T);
spreading distance of 100.0mm (3.94")
tool weight: 26.0kg (57.3lb)



SG13TE KIT

Includes Collets:
M39 (1-1/2")
M42 (1-5/8")
M45 (1-3/4")



SG15TE KIT

Includes Collets:
M48 (1-7/8")
M52 (2")
M56 (2-1/4")



SG18TE SG25TE



SECURE-GRIP IN-LINE HYDRAULIC FLANGE SPREADERS

The large in-line hydraulic SG tools are applicable for larger sized flanges. These are actuated by an external hand-pump and are suitable for bolt holes from 59.5mm (2.34") to 108.0mm (4.25"). Different collets are used to match the tool to the respective bolt hole diameter.



TOOL CAPABILITIES

- SG18TE:
spreading force of 180kN (18T);
spreading distance of 100.0mm (3.94")
tool weight: 14.0kg (30.8lb)
- SG25TE:
spreading force of 250kN (25T);
spreading distance of 120.0mm (4.72")
tool weight: 24.0kg (52.9lb)



SG18TE KIT

Includes Collets:
M60
M64 (2-1/2")
M70 (2-3/4")



SG25TE KIT
(collets supplied separately)

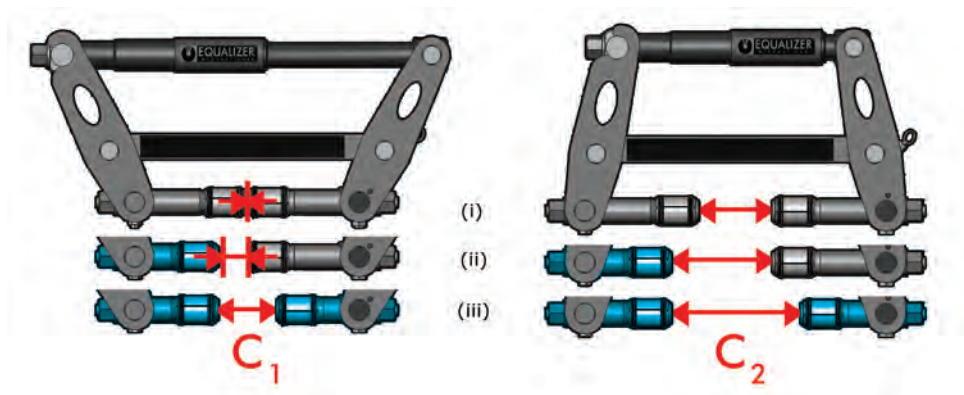
Collets :
M76 (3") M90 (3-1/2")
M80 (3-1/4") M95 (3-3/4")
M84 M100 (4")



SHORT COLLET HOLDER KITS

TOOL	Configuration	C ₁ (Closed)	C ₂ (Open)
SG4TM	standard tool (i)	0mm (0")	75mm (2.95")
	single SCH kit (ii)	42mm (1.65")	117mm (4.61")
	double SCH kit (iii)	84mm (3.31")	159mm (6.26")
SG6TM	standard tool (i)	0mm (0")	80mm (3.15")
	single SCH kit (ii)	60mm (1.42")	140mm (4.57")
	double SCH kit (iii)	120mm (4.72")	200mm (7.87")
SG11TM	standard tool (i)	0 mm (0")	90mm (3.50")
	single SCH kit (ii)	13mm (0.51")	103mm (4.06")
	double SCH kit (iii)	26mm (1.02")	116mm (4.57")

A Short Collet Holder Kit is available for each mechanical Secure-Grip tool. The kit fits on in place of the standard Collet Holder, and uses the standard Collets.

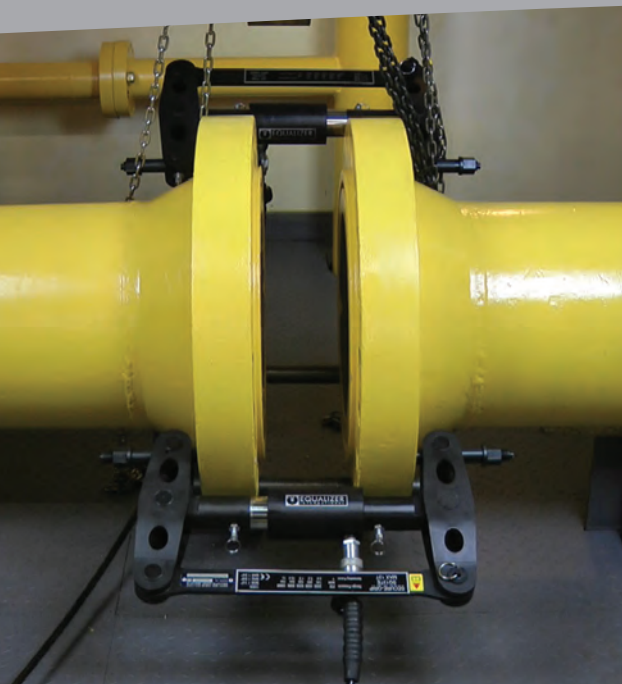


SECURE-GRIP ENHANCEMENTS

SHORT COLLET HOLDER KITS: SPREADING FLANGE JOINTS WITH SPACERS, BLINDS AND LOW PROFILE VALVES

In response to customer feedback Equalizer International has developed a range of Short Collet Holder (SCH) Kits for each of the Secure-Grip tools. These move the starting position of the collets further apart, effectively enabling the tools to use their full

spreading stroke, despite the extra width of the flange joint. This enables the spreading of flange joints with spacers, blinds, spectacles or even some valves, to be spread.





OTHER SPREADING TOOLS

COMPLETING THE
SPREADER RANGE



SW15TE

HYDRAULIC FLANGE
SPREADING WEDGE

This general purpose spreading wedge is actuated by an external hydraulic hand-pump.



SW15TE



SW14.5TI



SW9TM



MG7TM

TOOL CAPABILITIES

SPREADING FORCE

with 700bar (10,000psi) hydraulic pressure applied:

- 155kN (15.5T)

SPREADING DISTANCE

- 6.0mm – 31.0mm (0.24" - 1.22")
using only 1st step
- 6.0mm – 62.0mm (0.24" - 2.44")
using 4 steps
(without stepped blocks)
- 31.0mm – 81.0mm (1.22" - 3.19")
using optional stepped blocks kit

TOOL WEIGHT: 7.0kg (15.4lb)



SW14.5TI

INTEGRAL HYDRAULIC FLANGE SPREADING WEDGE

This general purpose self-contained spreading wedge is actuated by an integral hydraulic hand-pump, so no hoses or external pumps are required.



SW9TM

MECHANICAL FLANGE SPREADING WEDGE

This general purpose, entry level spreading wedge is mechanically operated using the supplied torque-wrench.



MG7TM

MINI-GAP FLANGE SPREADER

For use on smaller, lower pressure flange joints, this portable and flexible tool can be assembled in two alternative configurations to suit a range of flanges.

TOOL CAPABILITIES

SPREADING FORCE

with 700bar (10,000psi) hydraulic pressure applied:

- 145kN (14.5T)

SPREADING DISTANCE

- 6.0mm – 31.0mm (0.24" - 1.22") using only 1st step
- 6.0mm – 62.0mm (0.24" - 2.44") using 4 steps (without stepped blocks)
- 31.0mm – 81.0mm (1.22" - 3.19") using optional stepped blocks kit

TOOL WEIGHT: 9.0kg (19.8lb)

TOOL CAPABILITIES

SPREADING FORCE

with 203N.m (150ft.lb) torque applied:

- 90kN (9T)

SPREADING DISTANCE

- 6.0mm – 31.0mm (0.24" - 1.22") using only 1st step
- 6.0mm – 62.0mm (0.24" - 2.44") using 4 steps (without stepped blocks)
- 31.0mm – 81.0mm (1.22" - 3.19") using optional stepped blocks kit

TOOL WEIGHT: 5.5kg (12.13lb)

TOOL CAPABILITIES

SPREADING FORCE

single tool:

- 68kN (6.8T)

used in pairs (as recommended):

- 136kN (13.6T)

SPREADING DISTANCE

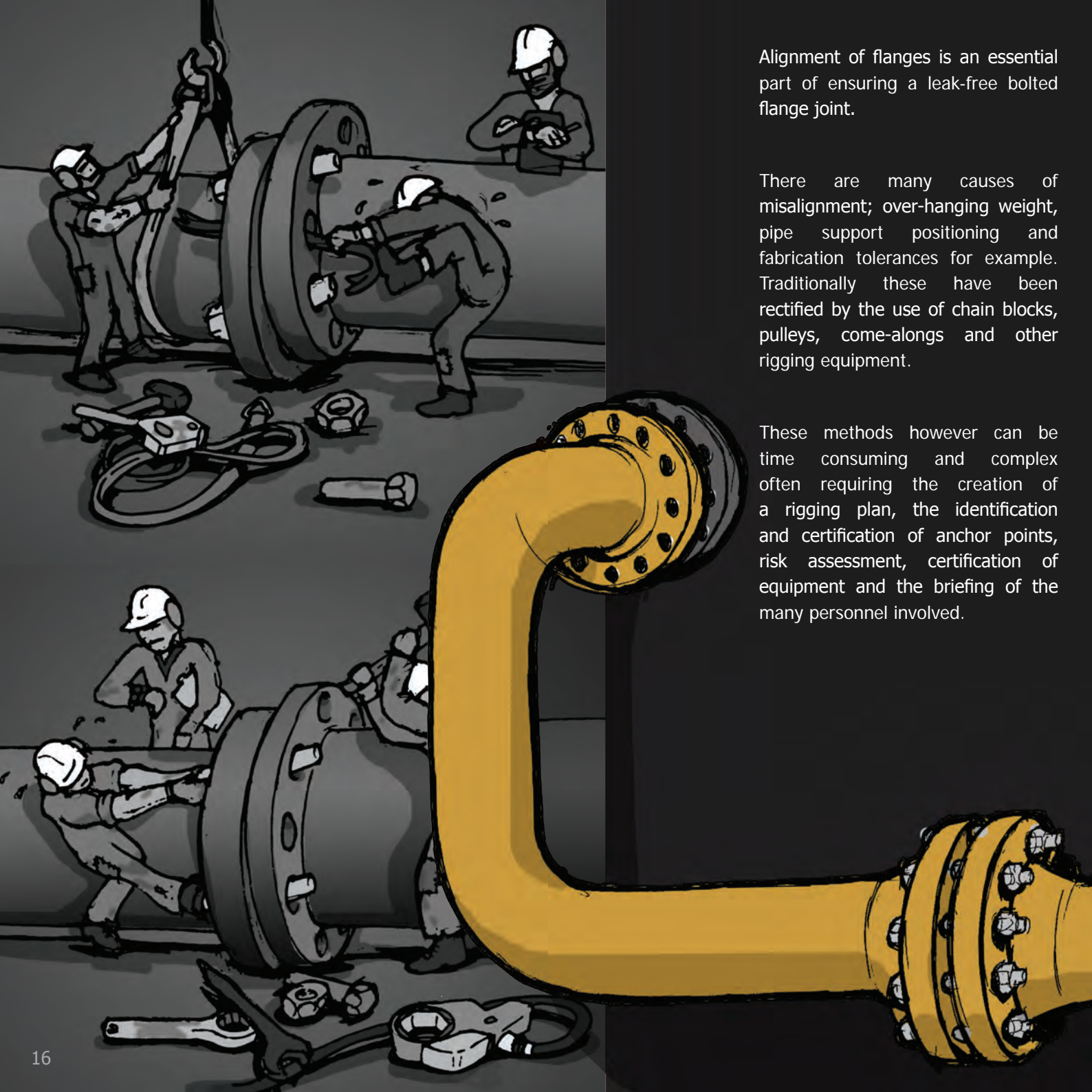
- 2.0mm - 27.0mm (0.08" - 1.06")

TOOL WEIGHT: 5.0kg (11.0lb)

Alignment of flanges is an essential part of ensuring a leak-free bolted flange joint.

There are many causes of misalignment; over-hanging weight, pipe support positioning and fabrication tolerances for example. Traditionally these have been rectified by the use of chain blocks, pulleys, come-alongs and other rigging equipment.

These methods however can be time consuming and complex often requiring the creation of a rigging plan, the identification and certification of anchor points, risk assessment, certification of equipment and the briefing of the many personnel involved.



2. FLANGE ALIGNMENT SOLUTIONS

The Equalizer™ patented range of alignment tools addresses the rotational or lateral misalignment that can occur within flange joints. Compared with traditional, manual approaches, the Equalizer™ tools offer a much safer, quicker and effective means of realigning flanges.



APPLICATIONS

Our Flange Alignment tools can be used to resolve lateral or rotational misalignment during:

- commissioning
- construction
- routine maintenance
- shut-downs or outages
- testing
- valve change-outs

SPECIAL FEATURES

- operate on most pipe configurations
- use on horizontal or vertical flanges including ANSI/ASME, API, BS, DIN and SPO

- suitable for offshore and onshore applications

OPERATING BENEFITS

Using our Flange Alignment tools:

- saves time
- saves cost
- optimises staffing
- promotes work continuity
- encourages safer working practice
- enables efficient operation
- lightweight and portable - ideal for remote locations or confined environments
- dispenses with need for cranes, tirlors and hooks



FA1TM

MECHANICAL FLANGE ALIGNMENT TOOL

This portable, robust lightweight tool is a simple solution for small low-pressure flange misalignment requirements. It is hand-actuated using the crank handle.



TOOL CAPABILITIES

ALIGNING FORCE

- 10kN (1T)

APPLICATION RANGE

- Minimum Bolt Hole Diameter: 16.0mm (0.63")
- Maximum Aligning Distance: 26.0mm (1.02")

TOOL WEIGHT

- 1.6kg (3.5lb)



STANDARD KIT

FA4™

MECHANICAL LINEAR AND ROTATIONAL FLANGE ALIGNMENT TOOL

This mid-range mechanical tool is for use on medium diameter, medium pressure flanges, and can address both rotational and radial misalignment. It is actuated by the supplied torque-wrench.



TOOL CAPABILITIES

ALIGNING FORCE

with 33N.m (50ft.lb) of torque applied:

- 40kN (4T)

APPLICATION RANGE

- Minimum Bolt Hole Diameter: 25.0mm (1.00")
- Maximum Wing Reach: 113.0mm (4.45")

TOOL WEIGHT

- 8.6kg (19.0lb)



STANDARD KIT



FA9TE

HYDRAULIC LINEAR AND ROTATIONAL ALIGNMENT TOOL

This hydraulic tool is for use on larger diameter, higher pressure flanges, and can address both rotational and radial misalignment. It is actuated by an external hydraulic pump.



TOOL CAPABILITIES

ALIGNING FORCE

with 700bar (10,000psi) hydraulic pressure applied:

- 90kN (9T)

APPLICATION RANGE

- Minimum Bolt Hole Diameter: 31.5mm (1.25")
- Maximum Wing Reach: 135.0mm (5.31")

TOOL WEIGHT

- 14.5kg (32.0lb)



STANDARD KIT



TFA15TI

WIND TURBINE TOWER HYDRAULIC FLANGE ALIGNMENT TOOL

The Equalizer™ TFA15TI hydraulic flange alignment tool has been developed to aid the alignment of large flanges on the inside of wind turbine towers. This tool will make the installation of wind turbine tower sections simpler, safer and more efficient.



**NEW
PRODUCT**



TOOL CAPABILITIES

ALIGNING FORCE

with 700bar (10,000psi) hydraulic pressure applied:

- 150kN (15T)

APPLICATION RANGE

- Minimum Bolt Hole Diameter: 45.0mm (1.78")
- Misalignment: 0.0mm - 65.0mm (0.00" - 2.56")

3. FLANGE PULLING SOLUTIONS

The Equalizer™ FC10TE Flange Pulling Tool is a simple, lightweight hydraulic tool used to pull together flanges prior to the application of bolts.

The Equalizer™ FC10TE can pull flanges from a distance of 600.0mm (23.62") down to 0.0mm (0.00")

with a force of 200kN (20T) when used as recommended in pairs.

Any number of FC10TE tools can be used simultaneously to provide greater pulling loads.



APPLICATIONS

The FC10TE can be used during:

- commissioning
- construction
- routine maintenance
- shut-downs or outages
- valve change-outs

OPERATING BENEFITS

- reduction in operator fatigue
- reduction in pinch-points
- quick and easy to use
- controllable pulling for flanges or any other heavy equipment

SPECIAL FEATURES

- ratchet nut system
- small footprint
- can be used on all vertical and horizontal flanges including ANSI/ASME, API, BS, DIN & SPO
- pulling force of 100kN (10T)
- pulling force of 200kN (20T) when used in pairs
- robust yet lightweight
- reciprocating hydraulic action



FC10TE

HYDRAULIC FLANGE PULLING TOOL

This low profile tool utilises tandem hydraulic cylinders to offer 10T of closing force and is ideal for use on flanges where access is limited.



TOOL CAPABILITIES

CLOSING FORCE

with 700bar (10,000psi) hydraulic pressure applied:

- 100kN (10T) per tool

APPLICATION RANGE

- Minimum Bolt Hole Diameter: 22.0mm (7/8")
- Closing Distance: 600.0mm (23.6") down to 0.0mm (0.0")

TOOL WEIGHT

- 11.0kg (24.25lb)

Available in two kit formats:
(MAXI KIT shown far left)



STANDARD KIT

4. PRECISION LIFTING SOLUTIONS



Designed to lift or lower objects in a controlled manner, the VLW range will give a safe, smooth, secure hold when lifting or lowering heavy equipment.

Using the Equalizer™ interlocking first-step technology, this tool will lift an object in a stable movement from an access gap of only 9.5mm (0.37").



VLW18TE
Actuated by an external hydraulic hand-pump



VLW18TI
Actuated by an integral hydraulic hand-pump, so no hoses or external pumps are required

SPECIAL FEATURES

- smooth, straight, vertical lift
- operates with an access gap of only 9.5mm (0.37")
- each step offers 19.0mm (0.75") of vertical lift
- maximum lift using stepped block 67.5mm (2.66")
- single acting ram
- lifting force of 180kN (18T)
- automatic manual retraction
- interlocking first step



VLW18TI
STANDARD KIT



VLW18TE
STANDARD KIT

5. HYDRAULIC HAND-PUMPS



The Equalizer™ range of hydraulic hand-pumps have been designed with a sealed oil reservoir, which allows the pumps to be used in any orientation without the risk of oil spills or air contamination.

The pumps can be used to operate any 700bar (10,000psi) rated hydraulic equipment in most environments including onshore, topside or sub-sea.

Single-port hand-pumps are used for actuating one single acting cylinder.

Twin-port hand-pumps are used for actuating two single acting cylinders simultaneously.

Double-acting hand-pumps are used for actuating one double-acting cylinder.



OPERATING BENEFITS

- universal orientation
- no oil spillage
- no air contamination
- each pump is available in 350cc, 550cc and 1000cc capacity versions

SPECIAL FEATURES

- two speed
- lightweight
- sealed unit
- hand-held
- retractable/expandable oil reservoir
- pressure rating of 700bar (10,000psi)
- environmentally friendly



'S' TYPE SINGLE ACTING HAND-PUMP

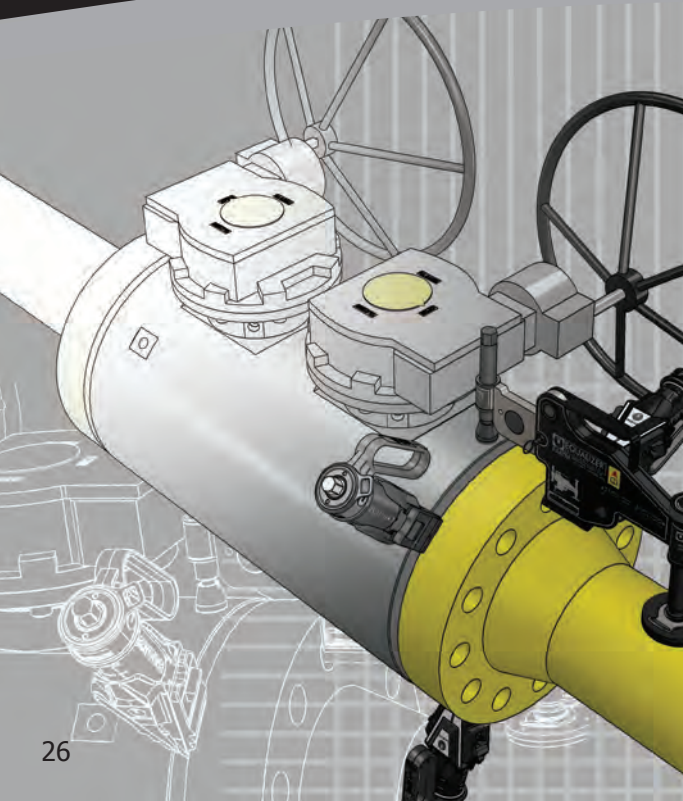


'D' TYPE TWIN-PORT HAND-PUMP



'SD' TYPE DOUBLE-ACTING HAND-PUMP

6. CUSTOMER DRIVEN SOLUTIONS



Each and every flange maintenance operation will differ, so selecting the correct tools and following the correct procedure for a given project can be challenging.

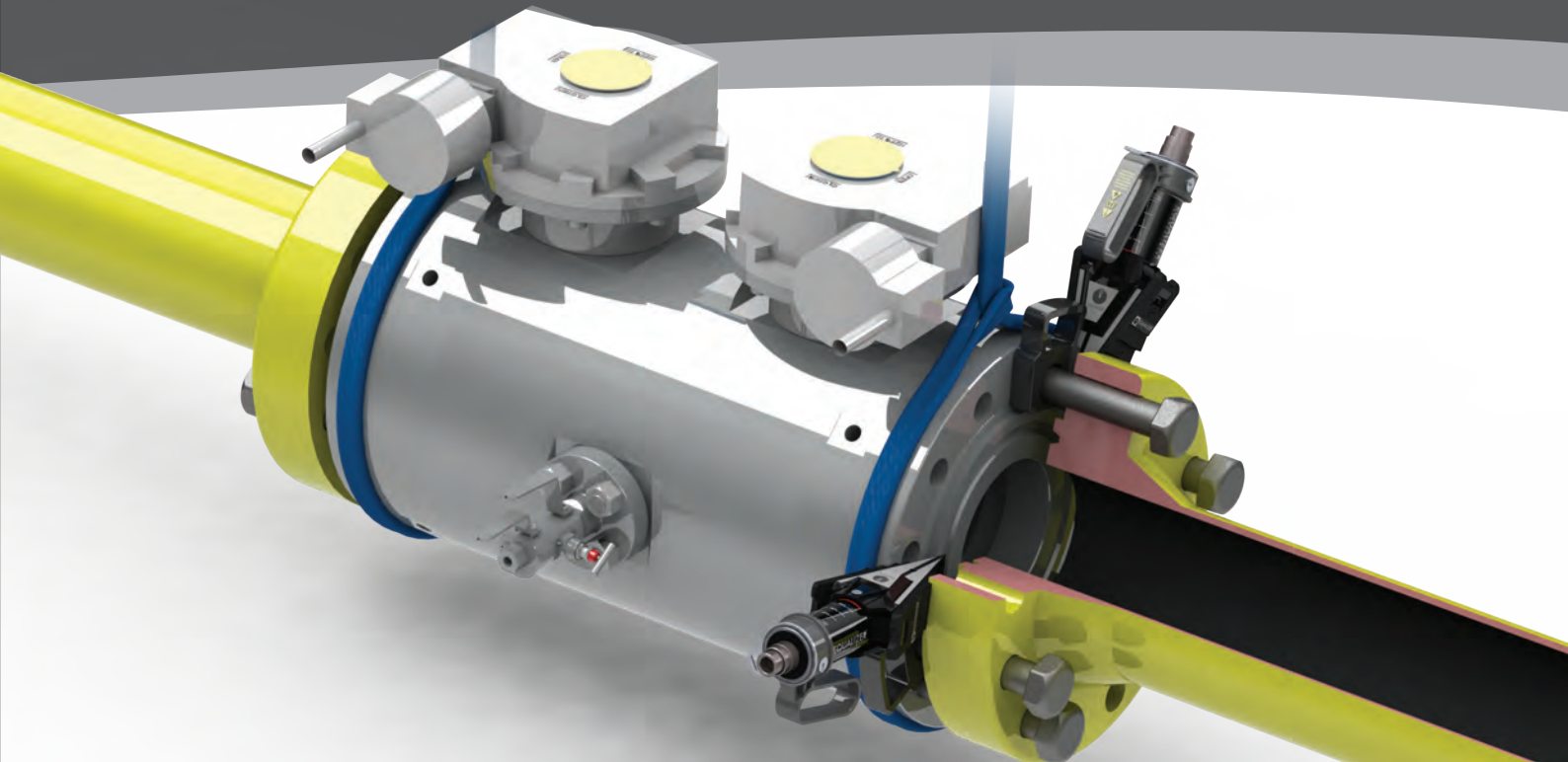
Equalizer™ International offers a range of technical support services, including:

- advice on the capabilities & limitations of each tool in the range
- advice on selecting the most effective tool or set of tools for a given job
- tool modification
- one-off tool design
- development and testing

CASE STUDY: VALVE CHANGE-OUT

Equalizer was approached by a valve manufacturer who saw the potential benefit for their customers of using the Equalizer™ tools with their valves. They wanted Equalizer to help create a process for jointly managing the removal and installation of their valves. As a result a step-by-step procedure was created

which walks through the process required in changing-out a large valve. An otherwise complicated and difficult task was simplified by using Equalizer™ tools.



7. PRODUCT TRAINING



Equalizer International designs and builds products of the highest quality, using the best components. This quality ethos extends to training and a range of training components are offered to ensure the optimal use of the tools. In addition to online training materials, Equalizer

International has built a demo suite at their HQ and has created a mobile demo trailer which travels around providing on-site introductions and training. Through this, users can experience first-hand how quick, simple and easy the tools are to apply and use on a series of custom-built flanges.



ONSITE TRAINING SYSTEM

- custom built trailer, containing the full range of Equalizer™ tools
- Portable training rig with flange joints
- Flange aligning, spreading and pulling tool demonstrations





CLASS-ROOM BASED TRAINING

Commercial and technical presentations provide distributors with the necessary information to respond to a wide range of customer enquiries and challenges.



HANDS-ON TRAINING FACILITY

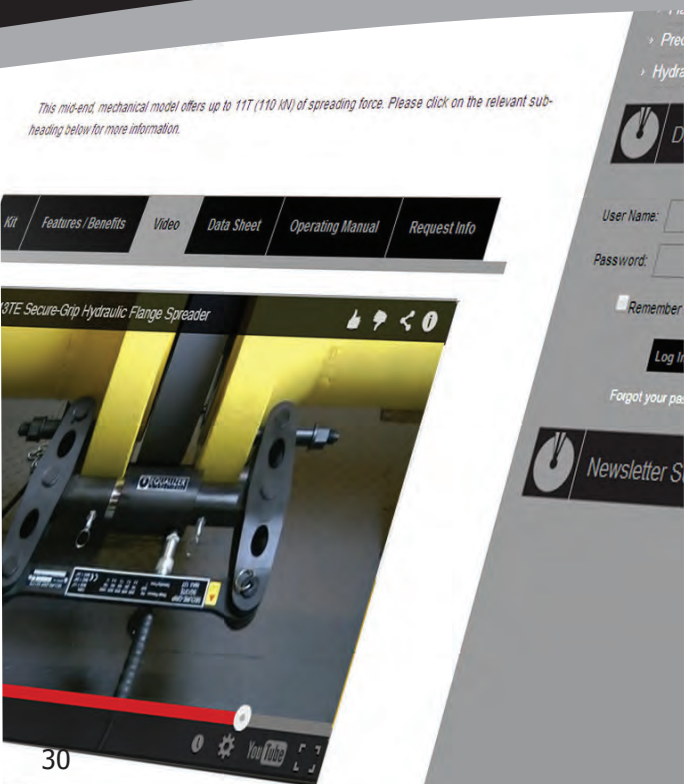
Practical demonstrations and hands-on training provide distributors and customers with valuable knowledge, information and experience to safely use the full range of Equalizer™ products.

This in turn strengthens Equalizer International's reputation as the expert in tools for flange maintenance within the oil and gas, chemical, power generation, nuclear, water, mining and renewable energy sectors world-wide.

8. ONLINE SUPPORT



Equalizer offers a range of online support for customers and distributors.

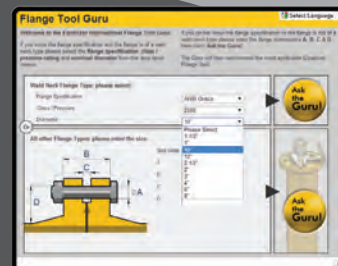


MANUALS & DATA SHEETS

- up-to-date product documentation
- download, save or print

YOUTUBE PRODUCT VIDEOS

- watch each Equalizer™ tool being used in real-time
- watch videos directly from within product pages for easy cross-referencing



FLANGE TOOL GURU

Online tool to help select the most appropriate Equalizer™ tool. Using a series of drop-down menus or manual entry, users can quickly and easily identify the most appropriate tool(s) for their flange maintenance requirements.

Why not try it out at:

www.equalizerinternational.com/flange-tool-guru.aspx

9. GLOBAL DISTRIBUTION



FLANGE TOOL INNOVATION

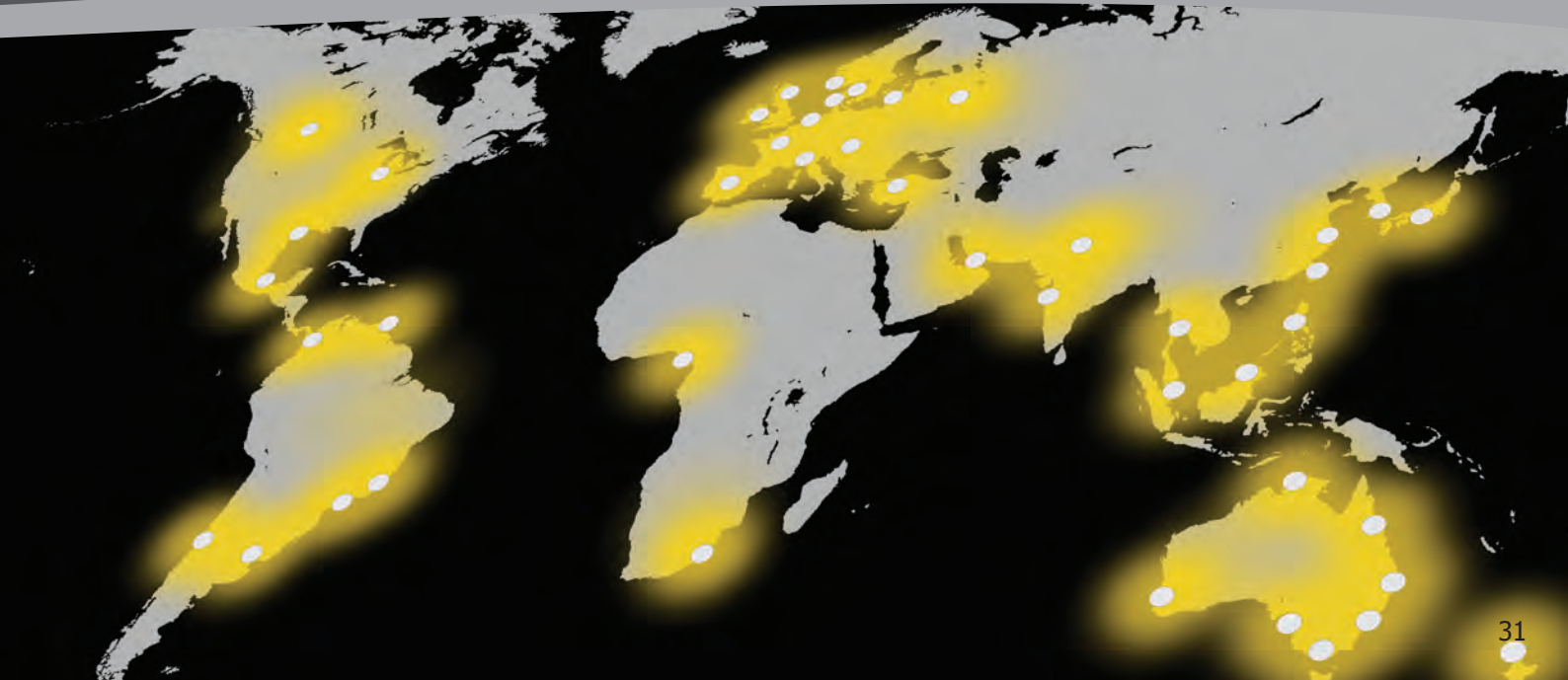


Global interest in Equalizer's flange maintenance tools has led the company to invest heavily in building a network of international distributors; local experts who help advise and select the most relevant flange maintenance tool.

These companies undertake specialist training on the use of Equalizer™ tools and are well equipped to show users how to

get the best out of them. In addition to selling, the distributors provide an after-sale parts service and work with Equalizer's Scottish Head Office to fulfil any spare parts requests. The map below indicates the countries and locations of our distributors – please refer to the Equalizer website for specific contact details.

www.equalizerinternational.com





FLANGE TOOL INNOVATION

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DISTRIBUTOR STAMP:

