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.
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, tifors and hooks
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)
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 68N.m (50ft.lb) of torque applied:

- 40kN (4T)

**APPLICATION RANGE**

- Minimum Bolt Hole Diameter: 25.0mm (1.00”)
- Maximum Wing Reach: 158.0mm (6.22”)

**TOOL WEIGHT**

- 8.6kg (19.0lb)
FLANGE TOOL INNOVATION

FA9TE
HYDRAULIC LINEAR AND ROTATIONAL FLANGE 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: 35.5mm (1.40”)
- Maximum Wing Reach: 240.0mm (9.45”)

**TOOL WEIGHT**

- 14.5kg (32.0lb)
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 assists with the installation of wind turbine tower sections making it simpler, safer and more efficient.

**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”)

TFA15TI

WIND TURBINE TOWER HYDRAULIC FLANGE ALIGNMENT TOOL