

▼ TFA15TI



TFA Series

**WIND TURBINE TOWER
FLANGE ALIGNMENT TOOLS**

Hook Force:

4.5 - 30.3 tons

Aligning Distance:

1.7 - 2.6 inches

TFA4TM Mechanical Tool Kit



1 x TFA4TM Tool
1 x Torque Wrench
1 x Moulded Plastic Carry Case

TFA12TE / TFA15TE External Hydraulic Tool Kit ¹⁾



1 x TFA12TE or TFA15TE Tool
1 x Safety Lanyard
1 x Aluminum Carry Case with
Protective Foam Inserts

TFA12TI / TFA15TI Integral Hydraulic Tool Kit

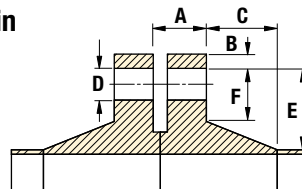


1 x TFA12TI or TFA15TI Tool
1 x Aluminum Carry Case with
Protective Foam Inserts

¹⁾ External Hand Pump not included. To be ordered separately, see page 339.

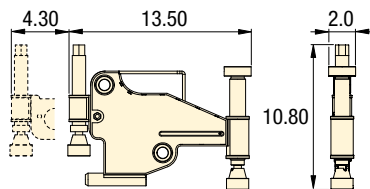
The TFA Wind Turbine Tower Flange Alignment Tools have been developed to aid the alignment of large flanges on the inside of wind turbine towers during their assembly or installation.

- Assists in aligning / de-ovalizing large internal pipe flanges
- Helps resolve bolt-hole misalignment within tower sections of wind turbine towers
- Can be used both on and offshore.

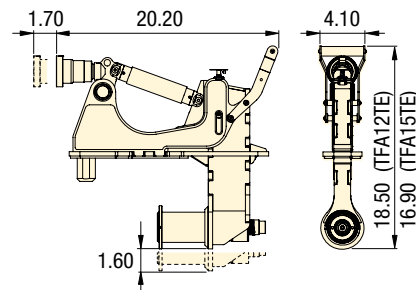


Flange Dimensions

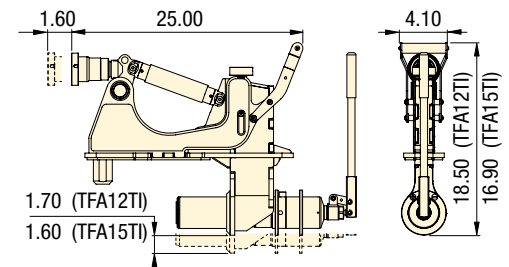
TFA4TM



**TFA12TE
TFA15TE**



**TFA12TI
TFA15TI**



Model Number Tool Kit	Type *	Maximum Hook Force Per Tool (tons)	Maximum Aligning Distance (in)	Maximum Operating Pressure (psi)	Flange Dimensions (in)						Tool Weight (lbs)	Kit Weight (lbs)	Box/Case Dimensions (in)	Tool Number
					A	B	C	D min	E	F min				
TFA4TMSTD	M	4.5	1.7	-	1.4-5.3	0-2.2	0-9.1	0.98	0-4.1	0.94	17.9	39.7	23.6 x 14.6 x 7.9	TFA4TM
TFA12TEMIN	H ¹⁾	27.0	2.6	7,400	5.1-7.0	4.3-9.5	0-16.6	1.80	3.4-4.9	2.40	42.5	62.6	25.2 x 21.3 x 6.5	TFA12TE
TFA15TEMIN	H ¹⁾	30.3	2.6	10,000	3.5-5.4	4.3-9.5	0-16.6	1.80	3.4-4.9	2.40	41.7	61.7	25.2 x 21.3 x 6.5	TFA15TE
TFA12TISTD	H	27.0	2.6	**	5.1-7.0	4.4-9.5	0-16.6	1.80	3.4-4.9	2.40	48.3	68.3	23.0 x 35.4 x 6.3	TFA12TI
TFA15TISTD	H	30.3	2.6	**	3.5-5.4	4.4-9.5	0-16.6	1.80	3.4-4.9	2.40	47.4	67.5	23.0 x 35.4 x 6.3	TFA15TI

* M = Mechanical; H = Hydraulic. ** Integral Hydraulic.

¹⁾ External Hand Pump not included. To be ordered separately, see page 339.