

▼ SWi5TI-S



SWi Series

FLANGE SPREADING WEDGES

Spreading Force:

8.7 - 27 tons

Spreading Distance:

0.16 - 4.10 inches

Maximum Operating Pressure:

10,000 psi *

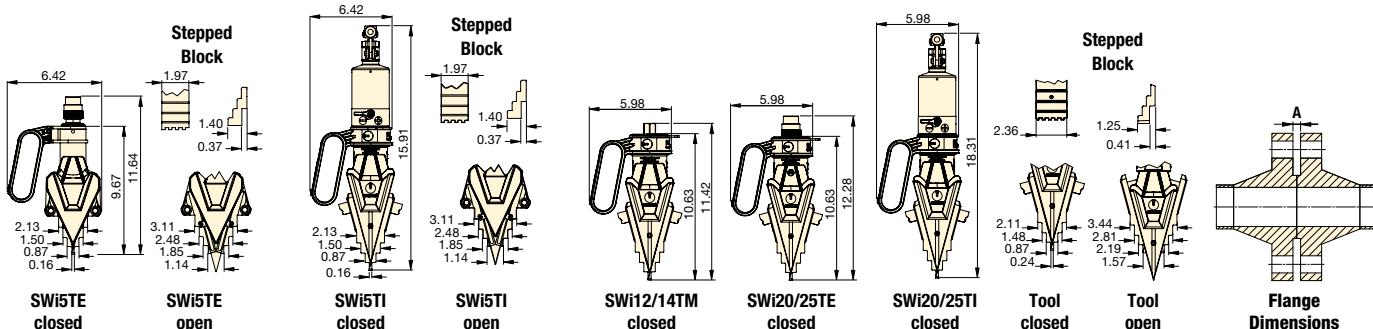
* Only relevant for hydraulic tools.

- Practical, portable and lightweight
- Revolving handle to aid horizontal or vertical spreading
- Removable handle for improved access
- No finger pinch-point
- Increased step-depth on upper steps
- Safety lanyard – 39 inches length
- Forged key components for strength and reliability
- Rapid disassembly and assembly
- Narrow jaw teeth – improved tool wear.



Caution

A minimum of two Flange Spreading Tools must be used when opening flange joints. This will enable the operator to maintain an equal spreading distance across the flange faces.



Model Number Tool Kit	Type	Maximum Spreading Force Per Tool (tons)	Maximum Spreading Distance * (in)	Flange Dimensions Minimum Access Gap A (in)	Jaw Width (in)	Tool Weight (lbs)	Kit Weight (lbs)	Case Dimensions (in)	Tool Number
SWi5TE-S	External Hydraulic	8.7	4.0	0.16	1.97	11.4	19.1	22.8 x 13.4 x 7.1	SWi5TE
SWi5TE-T	External Hydraulic	8.7	4.0	0.16	1.97	11.4	31.7	22.8 x 13.4 x 7.1	SWi5TE
SWi5TI-S	Integral Hydraulic	8.7	4.0	0.16	1.97	15.4	23.1	22.8 x 13.4 x 7.1	SWi5TI
SWi1214TMSTDSPB	Mechanical	15.7	4.1	0.24	2.40	13.7	28.7	22.8 x 13.0 x 6.5	SWi12/14TM
SWi2025TEMINSPB	External Hydraulic	27.0	4.1	0.24	2.40	14.1	25.6	22.8 x 13.0 x 6.5	SWi20/25TE
SWi2025TESTDSPB	External Hydraulic	27.0	4.1	0.24	2.40	14.1	45.6	36.2 x 19.7 x 8.1	SWi20/25TE
SWi2025TEMAXSPB	External Hydraulic	27.0	4.1	0.24	2.40	14.1	72.8	36.2 x 19.7 x 8.1	SWi20/25TE
SWi2025TISTDSPB	Integral Hydraulic	27.0	4.1	0.24	2.40	18.7	20.4	22.8 x 13.0 x 6.5	SWi20/25TI

* Using stepped blocks.

Flange Spreading Tools

SWi5TE - Hydraulic Flange Spreading Wedge

SWi5TE-S - SWi5TE S Kit



- 1 x SWi5TE Flange Spreading Tool
- 1 x Standard Safety Block
- 1 x Lanyard
- 1 x Moulded Plastic Carry Case with Protective Foam Inserts

SWi5TE-T - SWi5TE T Kit



- 2 x SWi5TE Flange Spreading Tools
- 2 x Standard Safety Blocks
- 2 x Lanyards
- 1 x Moulded Plastic Carry Case with Protective Foam Inserts

1640016-01 - SWi5TE Stepped Block Kit



- 1 x Pair of SWi5TE Stepped Blocks
- 2 x M6 CSK Hex Screw
- 2 x Retaining Washer
- 1 x SWi5TE Large Safety Block
- 2 x Hex Key

SWi12/14TM - Mechanical Flange Spreading Wedge

SWi1214TMSTDSPB - SWi12/14TM STD Kit



- 1 x SWi12/14TM Flange Spreading Tool
- 1 x Torque Wrench with 22 mm Socket
- 1 x Set of Safety Blocks
- 1 x Pair of Stepped Blocks
- 1 x Lanyard
- 1 x Hex Key
- 1 x Moulded Plastic Carry Case

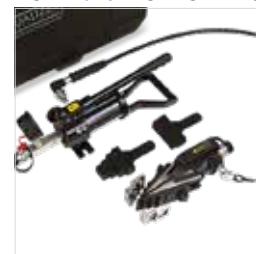
SWi20/25TE - Hydraulic Flange Spreading Wedge

SWi2025TEMINSPB - SWi20/25TE MIN Kit



- 1 x SWi20/25TE Flange Spreading Tool
- 1 x Set Safety Blocks
- 1 x Pair of Stepped Blocks
- 1 x Lanyard
- 1 x Hex Key
- 1 x Moulded Plastic Carry Case

SWi2025TESTDSPB - SWi20/25TE STD Kit



- 1 x SWi20/25TE Flange Spreading Tool
- 1 x 10,000 psi Hydraulic Hose, 6.5 ft with 90° Elbow
- 1 x 10,000 psi HP350S Single-Port Sealed Hand Pump with Gauge
- 1 x Set Safety Blocks
- 1 x Pair of Stepped Blocks
- 1 x Lanyard
- 1 x Hex Key
- 1 x Moulded Plastic Carry Case

SWi2025TEMAXSPB - SWi20/25TE MAX Kit



- 2 x SWi20/25TE Flange Spreading Tools
- 2 x 10,000 psi Hydraulic Hoses, 6.5 ft with 90° Elbow
- 1 x 10,000 psi HP550D Twin-Port Sealed Hand Pump with Gauge
- 2 x Set Safety Blocks
- 2 x Pair of Stepped Blocks
- 2 x Lanyards
- 2 x Hex Keys
- 1 x Moulded Plastic Carry Case

SWi5TI - Integral Hydraulic Flange Spreading Wedge

SWi5TI-S - SWi5TI-S Kit



- 1 x SWi5TI Flange Spreading Tool
- 1 x Standard Safety Block
- 1 x Lanyard
- 1 x Moulded Plastic Carry Case with Protective Foam Inserts

1640016-01 - SWi5TE Stepped Block Kit



- 1 x Pair of SWi5TE Stepped Blocks
- 2 x M6 CSK Hex Screw
- 2 x Retaining Washer
- 1 x SWi5TE Large Safety Block
- 2 x Hex Key

SWi20/25TI - Integral Hydraulic Flange Spreading Wedge

SWi2025TISTDSPB - SWi20/25TI STD Kit

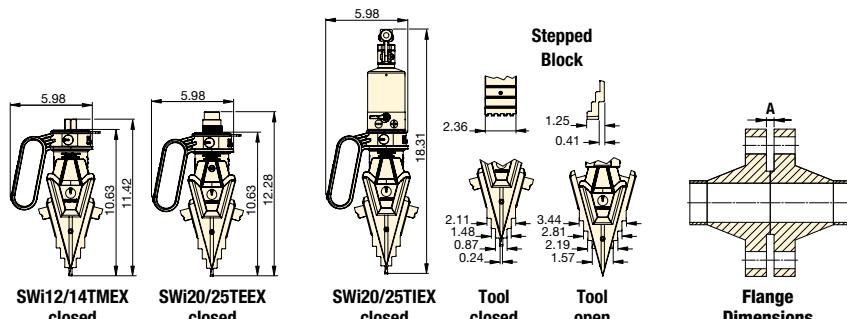


- 1 x SWi20/25TI Flange Spreading Tool
- 1 x Set of Safety Blocks
- 1 x Pair of Stepped Blocks
- 1 x Lanyard
- 1 x Hex Key
- 1 x Carry-Strap
- 1 x Moulded Plastic Carry Case

▼ SWi20/25TEEX



- ATEX certified
- Practical, portable and lightweight
- Revolving handle to aid horizontal or vertical spreading
- Removable handle for improved access
- No finger pinch-point
- Increased step-depth on upper steps
- Safety lanyard – 39 inches length
- Forged key components for strength and reliability
- Rapid disassembly and assembly
- Narrow jaw teeth – improved tool wear.



SWi Series



ATEX CERTIFIED FLANGE
SPREADING WEDGES

Spreading Force:

15.7 - 27.0 tons

Spreading Distance:

0.24 - 4.10 inches

Maximum Operating Pressure:

10,000 psi *

* Only relevant for hydraulic tools.



Caution

A minimum of two Flange Spreading Tools must be used when opening flange joints. This will enable the operator to maintain an equal spreading distance across the flange faces.

Model Number Tool Kit	Type	Maximum Spreading Force Per Tool (tons)	Spreading Distance Maximum * (in)	Flange Dimensions Minimum Access Gap A (in)	Jaw Width (in)	Tool Weight (lbs)	Kit Weight (lbs)	Case Dimensions (in)	Tool Number
SWi1214TMSTDEX	Mechanical	15.7	4.10	0.24	2.40	13.7	37.5	22.8 x 15.7 x 7.1	SWi12/14TMEX
SWi2025TEMINEX	External Hydraulic	27.0	4.10	0.24	2.40	14.1	33.1	22.8 x 15.7 x 7.1	SWi20/25TEEX
SWi2025TESTDEX	External Hydraulic	27.0	4.10	0.24	2.40	14.1	60.6	26.8 x 22.0 x 7.1	SWi20/25TEEX
SWi2025TEMAXEX	External Hydraulic	27.0	4.10	0.24	2.40	14.1	85.5	36.6 x 23.6 x 7.1	SWi20/25TEEX
SWi2025TISTDEX	Integral Hydraulic	27.0	4.10	0.24	2.40	18.7	38.6	22.8 x 15.7 x 7.1	SWi20/25TIEX

* Using stepped blocks.

SWi12/14TMEX -
ATEX Certified Mechanical
Flange Spreading Wedge



II 2G Ex h IIB T5 Gb
II 2D Ex h IIIC T185°F Db

SWi1214TMSTDEX - SWi12/14TMEX STD Kit



- 1 x SWi12/14TMEX Flange Spreading Tool
- 1 x ATEX Torque Wrench with 22 mm Socket
- 1 x Set of Safety Blocks
- 1 x Pair of Stepped Blocks
- 1 x Lanyard
- 1 x Hex Key
- 1 x Aluminum Carry Case with Protective Foam Inserts

SWi20/25TIEX -
ATEX Certified Integral Hydraulic
Flange Spreading Wedge



II 2G Ex h IIB T5 Gb
II 2D Ex h IIIC T212°F Db

SWi2025TISTDEX - SWi20/25TIEX STD Kit



- 1 x SWi20/25TIEX Flange Spreading Tool
- 1 x Set of Safety Blocks
- 1 x Pair of Stepped Blocks
- 1 x Lanyard
- 1 x Hex Key
- 1 x Carry-Strap
- 1 x Aluminum Carry Case with Protective Foam Inserts

SWi20/25TEEX -
ATEX Certified Hydraulic
Flange Spreading Wedge



II 2G Ex h IIB T5 Gb
II 2D Ex h IIIC T212°F Db

SWi2025TEMINEX - SWi20/25TEEX MIN Kit



- 1 x SWi20/25TEEX Flange Spreading Tool
- 1 x Set Safety Blocks
- 1 x Pair of Stepped Blocks
- 1 x Lanyard
- 1 x Hex Key
- 1 x Aluminum Carry Case with Protective Foam Inserts

SWi2025TESTDEX - SWi20/25TEEX STD Kit



- 1 x SWi20/25TEEX Flange Spreading Tool
- 1 x 10,000 psi ATEX Hydraulic Hose, 6.5 ft with 90° Elbow
- 1 x 10,000 psi HP350S ATEX Single-Port Sealed Hand Pump with Gauge
- 1 x Set Safety Blocks
- 1 x Pair of Stepped Blocks
- 1 x Lanyard
- 1 x Hex Key
- 1 x Aluminum Carry Case with Protective Foam Inserts

SWi2025TEMAXEX - SWi20/25TEEX MAX Kit



- 2 x SWi20/25TEEX Flange Spreading Tools
- 2 x 10,000 psi ATEX Hydraulic Hose, 6.5 ft with 90° Elbow
- 1 x 10,000 psi HP550D ATEX Twin-Port Sealed Hand Pump with Gauge
- 2 x Set Safety Blocks
- 2 x Pair of Stepped Blocks
- 2 x Lanyards
- 2 x Hex Keys
- 1 x Aluminum Carry Case with Protective Foam Inserts



These tools have been designed for use in potentially explosive atmospheres which is:

- Group II (Non-mining equipment)
- Equipment **category 2** where explosive atmosphere is likely to occur in normal operation
- Can be applied in **zones 1 and 2** of gaseous explosive atmospheres and in **zones 21 and 22** of dust explosive atmosphere
- **Gas G or Dust D** with type of protection **Ex h** for non-electrical equipment
- Suitable for use with **Group IIB** of a gases and vapors (Ethylene group) and **Group IIIC** of dust (conductive dust)

- For hydraulic tools **T5** means that minimum ignition temperature of gas or vapor $> 212^{\circ}\text{F}$ ($> 100^{\circ}\text{C}$); **T212°F (T100°C)** means that minimum ignition temperature of a dust cloud $\geq 302^{\circ}\text{F}$ ($\geq 150^{\circ}\text{C}$) and minimum ignition temperature of a 0.20 inch (5 mm) dust layer $\geq 347^{\circ}\text{F}$ ($\geq 175^{\circ}\text{C}$).
- For mechanical tools **T6** means that minimum ignition temperature of gas or vapor $> 185^{\circ}\text{F}$ ($> 85^{\circ}\text{C}$); **185°F (T85°C)** means that minimum ignition temperature of a dust cloud $\geq 261.5^{\circ}\text{F}$ ($\geq 127.5^{\circ}\text{C}$) and minimum ignition temperature of a 0.20 inch (5 mm) dust layer $\geq 320^{\circ}\text{F}$ ($\geq 160^{\circ}\text{C}$).

These tools have been designed and manufactured in accordance with the following transposed harmonized European standards:

- **EN ISO 80079-36:2016** Explosive atmospheres - Part 36: Non-electrical equipment for explosive atmospheres - Basic method and requirements;
- **EN ISO 80079-37:2016** Explosive atmospheres - Part 37: Non-electrical equipment for explosive atmospheres - Non-electrical type of protection constructional safety "c", control of ignition sources "b", liquid immersion "k":