

# SAFETY FLANGE TOOLS ARE BEST TOOLS



## FLANGE SPREADING TOOLS & KIT ATEX

- 9.0T MECHANICAL FLANGE SPREADER
- 15.5T HYDRAULIC FLANGE SPREADER
- 14.5T HYDRAULIC FLANGE SPREADER

## FLANGE ALIGNMENT TOOLS & KITS

- 1.0T MECHANICAL FLANGE ALIGNMENT TOOL
- 4.0T MECHANICAL FLANGE ALIGNMENT TOOL
- 9.0T HYDRAULIC FLANGE ALIGNMENT TOOL

## MECHANICAL VALVE-OUT SPREADER

## PRECISION LIFTING & LOWERING TOOLS

- 18.0T HYDRAULIC LIFTING WEDGES

## SEALED HAND-PUMP ATEX & KITS

- HAND PUMP SINGLE PORT
  - HAND PUMP TWIN PORT
- HAND PUMP KIT WITH HOSE
- HAND PUMP KIT WITH HOSE ATEX

## MAINTANANCE & RENTING

# HSW15TEX Single & Twin Kit

## HYDRAULIC FLANGE SPREADER WEDGE ATEX SINGLE & TWIN KIT

This is a general-purpose spreading wedge for a flange joint with a minimum access gap of 6mm. It is actuated by an external hand pump (P350AEX or P350BEX) and is ATEX certified for use in the hazardous areas in zones 1 and 2.



### TOOL CAPABILITIES

#### SPREADING FORCE

with 700bar hydraulic pressure applied:

- 15.5T (155kN)

#### SPREADING DISTANCE

- 6.0mm - 31.0mm using only 1<sup>st</sup> step
- 6.0mm - 62.0mm using 4 steps (without stepped blocks)
- 31.0mm - 81.0mm using optional stepped blocks kit

**TOOL WEIGHT:** 7.0kg



Product Code	Tool	Pump kit	incl. hose	In Case
HSW15TEX single kit	1 x HSW15TEX	-	-	Yes
HSW15TEX twin kit	2 x HSW15TEX	-	-	Yes
HSW15TEXHPA single kit	1 x HSW15TEX	HP350A	1 x HH180	Yes
HSW15TEXHPB twin kit	2 x HSW15TEX	HP350B	2 x HH180	Yes
HSW15TEXHPAEX single kit	1 x HSW15TEX	HP350AEX	1 x HHEX180	Yes
HSW15TEXHPBEX twin kit	2 x HSW15TEX	HP350BEX	2 x HHEX180	Yes

# HSW15TSCEX

## INTEGRAL HYDRAULIC FLANGE SPREADER WEDGE ATEX

This general-purpose, self-contained spreading wedge for a flange joint with a minimum access gap of 6mm is actuated by an integral hydraulic hand-pump; therefore, no hoses or external pumps are required. It is ATEX certified for use in the hazardous areas in zones 1 and 2.



### TOOL CAPABILITIES

#### SPREADING FORCE

with 700bar hydraulic pressure applied:

- 14.5T (145kN)

#### SPREADING DISTANCE

- 6.0mm - 31.0mm using only 1<sup>st</sup> step
- 6.0mm - 62.0mm using 4 steps (without stepped blocks)
- 31.0mm - 81.0mm using optional stepped blocks kit

**TOOL WEIGHT:** 9.0kg



Product Code	Tool with Integral Pump	In Case
HSW15TSCEX	HSW15TSCEX	Yes

# MSW9TEX Single & Twin Kit

## MECHANICAL FLANGE SPREADER WEDGE ATEX

The general-purpose, entry level spreading wedge for a flange joint with a minimum access gap of 6mm is mechanically operated using the supplied torque wrench. It is ATEX certified for use in the hazardous areas in zones 1 and 2.



### TOOL CAPABILITIES

#### SPREADING FORCE

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

- 9.0T (90kN)

#### SPREADING DISTANCE

- 6.0mm - 31.0mm using only 1<sup>st</sup> step
- 6.0mm - 62.0mm using 4 steps (without stepped blocks)
- 31.0mm - 81.0mm using optional stepped blocks kit

**TOOL WEIGHT:** 5.5kg



Product Code	Tool	In Case
MSW9TEX single kit	1 x MSW9TEX	Yes
MSW9TEX twin kit	2 x MSW9TEX	Yes

# MFA1T

## MECHANICAL FLANGE ALIGNMENT TOOL

The tool is designed to lift, lower and re-alignment of misaligned flanges. It is mechanically operated using crank handle.

### TOOL CAPABILITIES

#### ALIGNING (LIFTING) FORCE

- 1.0T (10kN)

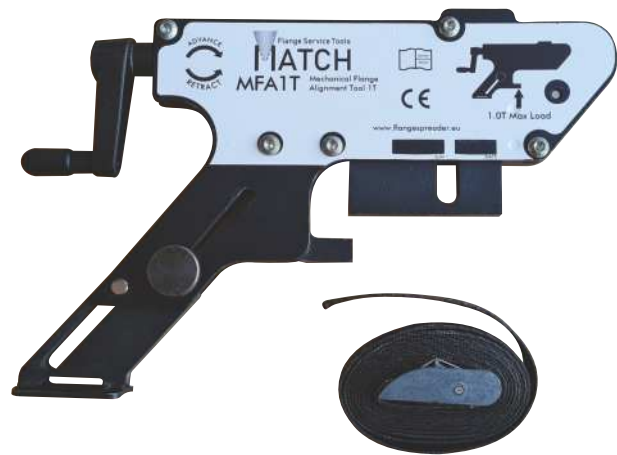
#### FLANGE FACE DISTANCES

- 14mm - 82mm

#### MINIMUM APPLICABLE BOLT HOLE DIAMETER

- 16mm (0,62")

**TOOL WEIGHT:** 2.1kg



Product Code	Tool	In Case
MFA1T	MFA1T	No

# MFA4T

## MECHANICAL FLANGE ALIGNMENT TOOL

The tool is designed to lift, lower and re-alignment of misaligned flanges. It is mechanically operated using the supplied torque wrench.

### TOOL CAPABILITIES

#### ALIGNING (LIFTING) FORCE

from 67,8 Nm of torque  
 • 4.0T (40 kN)

#### WING EXTENSION

• 45mm - 158mm

#### MINIMUM APPLICABLE BOLT HOLE DIAMETER

• 25mm (1.0")

**TOOL WEIGHT:** 8.6kg



Product Code	Tool	In Case
MFA4T	MFA4T	Yes

# HFA9T

## HYDRAULIC FLANGE ALIGNMENT TOOL

The tools is designed to lift, lower and re-alignment of misaligned flanges. It is actuated by an external hydraulic hand-pump, P350AEX.

### TOOL CAPABILITIES

#### ALIGNING ( LIFTING) FORCE

with 700bar hydraulic pressure applied:  
 • 9.0T (90 kN)

#### WING EXTENSION

• 105mm - 240mm

#### MINIMUM APPLICABLE BOLT HOLE DIAMETER

• 35.5mm (1.4")

**TOOL WEIGHT:** 14.5kg



Product Code	Tool	Pump kit	incl. hose	In Case
HFA9T	HFA9T	-	-	Yes
HFA9THP kit	HFA9T	HP350AEX	1 x HH180	Yes

# MVOS7T Kit

## MECHANICAL VALVE OUT SPREADER

These tools are used in common installation, commissioning and maintenance processes, such as the replacements of valves, gaskets and spread flange joints from 0 to 960mm\* access gap, where MSW or HSW flange spreaders cannot be insert.

### TOOL CAPABILITIES

#### SPREADING FORCE:

Using both sets, the total spreading force of the tool is:  
MVOS7T1826 Kit with 65 N·m torque applied

- 2 x 1.75 t = 3.5 t (35 kN)

MVOS7T3036 Kit with 130 N·m torque applied

- 2 x 3.50 t = 7.0 t (70 kN)

#### SPREADING DISTANCE:

50 mm – 400 mm with Standard Spacer Bar Kit

50 mm – 1000 mm with Optional AH-600 Spacer Bar Kit\*

**FLANGE JOINT THICKNESS:** 0 mm - 70 mm



Product Code	BOX A	BOX B	Tool Kit Weight
MVOS7T1826 Kit	MVOS7T	MVOS7T-1826	23.4 kg (51.6 lb)
MVOS7T3036 Kit	MVOS7T	MVOS7T-3036	29.1 kg (64.2 lb)
MVOS7T1836 Kit	MVOS7T	MVOS7T-1836	34.0 kg (75.0 lb)

#### MVOS7T (BOX A) CONTENTS:

- 4 x Articulated Spreading Plates
- 2 x AHF 45 mm Spacer
- 2 x AHM 45 mm Spacer
- 3 x AH 50 mm (2") Spacer
- 2 x AH 100 mm (4") Spacer
- 1 x 130 N·m Torque Wrench  
c/w Socket
- 1 x Carry-Case

#### WEIGHT AND DIMENSIONS:

Weight: 15.6 kg (34.4 lb)  
Dim (mm): 440 x 300 x 120



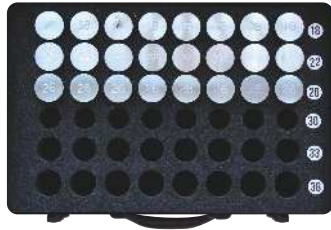
#### BOX B CONTENTS:

##### MVOS7T-1826:

- 8 x 18 mm Bolt Hole Pins
- 8 x 22 mm Bolt Hole Pins
- 8 x 26 mm Bolt Hole Pins
- 1 x Carry-Case

#### WEIGHT AND DIMENSIONS:

Weight: 7.8 kg (17.2 lb)  
Dim (mm): 440 x 300 x 120



##### MVOS7T-3036:

- 8 x 30 mm Bolt Hole Pins
- 8 x 33 mm Bolt Hole Pins
- 8 x 36 mm Bolt Hole Pins
- 1 x Carry-Case

#### WEIGHT AND DIMENSIONS:

Weight: 7.8 kg (17.2 lb)  
Dim (mm): 440 x 300 x 120

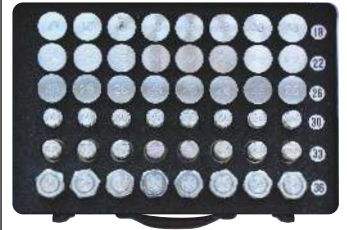


##### MVOS7T-1836:

- 8 x 18 mm Bolt Hole Pins
- 8 x 22 mm Bolt Hole Pins
- 8 x 26 mm Bolt Hole Pins
- 8 x 30 mm Bolt Hole Pins
- 8 x 33 mm Bolt Hole Pins
- 8 x 36 mm Bolt Hole Pins
- 1 x Carry-Case

#### WEIGHT AND DIMENSIONS:

Weight: 18.4 kg (40.6 lb)  
Dim (mm): 440 x 300 x 120



# MVOS7T-AH (AH600) Extension Kit

## KIT CONTENTS:

- 2 x MVOS7T-AH50
- 2 x MVOS7T-AH100
- 2 x MVOS7T-AH150
- 2 x MVOS7T-AH300
- 1 x Carry-Case

Additional Spacer Bars and Pin sizes are available for even larger or bespoke Flange joints: Please contact MATCH



#### Product Code

MVOS7T-AH



# HPLW18T Single und Twin Kit

## HYDRAULIC PRECISION LIFTING WEDGE SINGLE & TWIN KIT

This kit is designed to lift or lower objects in a controlled manner. The HPLW range will give a safe, smooth, secure hold when lifting or lowering heavy equipment. This tool will lift an object in a stable movement from an access gap of only 9.5mm. It is actuated by an external hydraulic hand-pump (P350AEX or P350BEX).

### TOOL CAPABILITIES

#### LIFTING FORCE

with 700bar hydraulic pressure applied:

- 18.0T (180 kN)

#### LIFTING DISTANCE

- 9.5mm - 29.50mm using only 1<sup>st</sup> step
- 9.5mm - 51.50mm using 4 steps (without stepped blocks)
- 9.5mm - 67.5mm using optional stepped block kit

**TOOL WEIGHT:** 8.5kg



Product Code	Tool	Pump kit	incl. hose	In Case
HPLW18T0	1 x HPLW18T	-	-	No
HPLW18T single kit	1 x HPLW18T	-	-	Yes
HPLW18T twin kit	2 x HPLW18T	-	-	Yes
HPLW18THPA single kit	1 x HPLW18T	HP350A	1 x HH180	Yes
HPLW18THPB twin kit	2 x HPLW18T	HP350B	2 x HH180	Yes

# HPLW18TC Integral Kit

## HYDRAULIC PRECISION LIFTING WEDGE INTEGRAL KIT

This kit is designed to lift or lower objects in a controlled manner. The HPLW range will give a safe, smooth, secure hold when lifting or lowering heavy equipment. This tool will lift an object in a stable movement from an access gap of only 9.5mm. It is actuated by an integral hydraulic hand-pump, therefore, no hoses or external pumps are required.

### TOOL CAPABILITIES

#### LIFTING FORCE

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

- 18.0T (180 kN)

#### LIFTING DISTANCE

- 9.5mm - 29.50mm using only 1<sup>st</sup> step
- 9.5mm - 51.50mm using 4 steps (without stepped blocks)
- 9.5mm - 67.5mm using optional stepped block kit

**TOOL WEIGHT:** 12.0kg



Product Code	Tool with Integral Pump	In Case
HPLW18TC	HPLW18TC	Yes

# HAND PUMP SINGLE PORT

## HYDRAULIC SINGLE PORT SEALED HAND PUMP ATEX 700 bar

This pump is specially designed to operate in ALL directions. It may be used with any 700 bar tools within their oil capacity specification, for example with HSW15TEX Single Kit, HFA9T, HPLW18T Single Kit, HMSP. Each pump Kit includes a Gauge, an Adaptor and a Coupler. It is ATEX certified for use in the hazardous areas in zones 1 and 2.

### TOOL CAPABILITIES

#### MAX PRESSURE RATING

1st Stage : 13,8 bar  
2nd Stage : 700 bar

#### OIL CAPACITY

350cc ; 550cc ; 1000cc



Product Code	Pump kit incl. Gauge, Adapter and Coupler
P350AEX	Yes
P550AEX	Yes
P1000AEX	Yes

# HAND PUMP TWIN PORT

## HYDRAULIC TWIN PORT SEALED HAND PUMP ATEX 700 bar

This pump is specially designed to operate in ALL directions. It may be used with any 700 bar tools within their oil capacity specification, for example with HSW15TEX Twin Kit, HPLW18T Twin Kit. Each pump Kit includes a Gauge, an Adaptor and a Coupler. It is ATEX certified for use in the hazardous areas in zones 1 and 2.

### TOOL CAPABILITIES

#### MAX PRESSURE RATING

1st Stage : 13,8 bar  
2nd Stage : 700 bar

#### OIL CAPACITY

350cc ; 550cc ; 1000cc



Product Code	Pump kit incl. Gauge, Adapter and Coupler
P350BEX	Yes
P550BEX	Yes
P1000BEX	Yes

# HAND PUMP KIT WITH HOSE

## HYDRAULIC SINGLE OR TWIN PORT SEALED HAND PUMP KIT WITH HOSE 700 bar

This kit is specially designed to operate in ALL directions. Can be used with any 700 bar tools within their oil capacity specification, for example with HSW15TEX, HFA9T, HPLW18T, HMSP. Each pump Kit includes a Gauge, an Adaptor, a Coupler and 1,80m Hose.

### TOOL CAPABILITIES

#### MAX PRESSURE RATING

1st Stage : 13,8 bar

2nd Stage : 700 bar

#### OIL CAPACITY

350cc



Product Code	Pump kit incl. Gauge(s), Adapter(s) and Coupler(s)	incl. hose	In Case
HP350A	P350AEX	1 x HH180	Yes
HP350B	P350BEX	2 x HH180	Yes

# HAND PUMP KIT WITH HOSE ATEX

## HYDRAULIC SINGLE OR TWIN PORT SEALED HAND PUMP KIT WITH HOSE ATEX 700 bar

This kit is specially designed to operate in ALL directions. It may be used with any 700 bar tools within their oil capacity specification, for example with HSW15TEX, HFA9T, HPLW18T, HMSP. Each pump Kit includes a Gauge, an Adaptor, a Coupler and 1,80m Hose. It is ATEX certified for use in the hazardous areas in zones 1 and 2.



### TOOL CAPABILITIES

#### MAX PRESSURE RATING

1st Stage : 13,8 bar

2nd Stage : 700 bar

#### OIL CAPACITY

350cc ; 550cc ; 1000cc

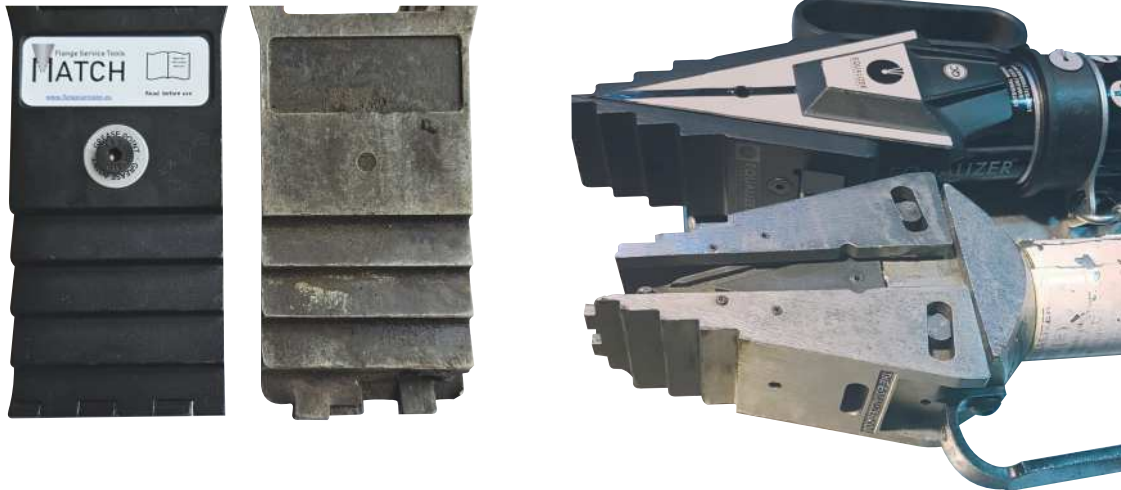
Product Code	Pump kit incl. Gauge(s), Adapter(s) and Coupler(s)	incl. hose	In Case
HP350AEX	P350AEX	1 x HHEX180	Yes
HP350BEX	P350BEX	2 x HHEX180	Yes



# Maintenance, Repair

MATCH offers a comprehensive maintenance service for your mechanic and hydraulic tools. Well maintained tools will achieve higher availability and a prolonged service life. Well maintained tools are safer tools too!

We provide On-Site equipment maintenance to ensure your tools are always fit for service.

























# Renting and sales




Whether it's an incident, production stoppage, emergency or simply to bridge the gap: We rent at the best conditions – our team is always at your disposal. We will charge you the rental costs for subsequent purchases. Rent or buy our ATEX approved Flange Spreader tools and / or torque wrenches up 40.00Nm. We have Square drive models and hexagon low profile cassette wrenches.




**MATCH Index Cross Reference Charts\***

		<b>MATCH</b>	<b>EQUALIZER</b>	<b>ENERPAC</b>	<b>POWER TEAM</b>
SPREADING	Hydraulic spreader Single Kit	HSW15TEX Single Kit 	SW15TEMIN	FSH14	FLS15-ST
	Hydraulic spreader Twin Kit	HSW15TEX TwinKit 	-	-	-
	Hydraulic spreader-pump Single Kit	HSW15TEXHPA	SW15TESTDSPB	STF-14H	FLS15-MBK-ST
	Hydraulic spreader-pump Twin Kit	HSW15TEXHPB	SW15TEMAXSPB	-	FLS15-FBK-ST
	Hydraulic spreader-pump Single Kit ATEX	HSW15TEXHPAEX 	SWi2025TESTDEX 	-	-
	Hydraulic spreader-pump Twin Kit ATEX	HSW15TEXHPBEX 	SWi2025TEMAXEX 	-	-
	Integral Hydraulic spreader ATEX	HSW15TSCEX 	SWi2025TISTDEX 	-	-
ALIGNMENT	Mechanical Flange Alignment	MFA1T	FA1TMSTD	ATM2	-
	Mechanical Flange Alignment	MFA4T	FA4TMSTD	ATM-4	-
	Hydraulic Flange Alignment	HFA9T	-	-	-
	Mechanical Flange Alignment-pump Kit	HFA9THP	FA9TESTD	ATM-9	-
HAND PUMPS	Hand pump - sealed, Single port, w/Gauge 	P350AEX	 HP350SMINEX	-	-
	Hand pump - sealed, Single port, w/Gauge 	P550AEX	 HP550SMINEX	-	-
	Hand pump - sealed, Single port, w/Gauge 	P1000AEX	 HP1000SMINEX	-	-
	Hand pump - sealed, Twin port, w/Gauge 	P350BEX	 HP350DMINEX	-	-
	Hand pump - sealed, Twin port, w/Gauge 	P550BEX	 HP550DMINEX	-	-
	Hand pump - sealed, Twin port, w/Gauge 	P1000BEX	 HP1000DMINEX	-	-
	Hand pump - sealed, Single port, w/Gauge&Hose	HP350A	-	-	-
	Hand pump - sealed, Single port, w/Gauge&Hoses	HP350B	-	-	-
	Hand pump - sealed, Single port, w/Gauge&Hose 	HP350AEX	-	-	-
	Hand pump - sealed, Twin port, w/Gauge&Hoses 	HP350BEX	-	-	-
LIFTING	Hydraulic Precision Lifting Wedge- Tool only	HLPW18TO	-	LW-16	-
	Hydraulic Precision Lifting Wedge Single Kit	HPLW18T Single Kit	VLW18TEMIN	-	-
	Hydraulic Precision Lifting Wedge Twin Kit	HPLW18T Twin Kit	-	-	-
	Hydraulic Precision Lifting Wedge-Pump Single Kit	HPLW18THPA Single Kit	VLW18TESTDSPB	-	-
	Hydraulic Precision Lifting Wedge-Pump Twin Kit	HPLW18THPB Twin Kit	VLW18TEMAXSPB	-	-
	Hydraulic Precision Lifting Wedge Integral Kit	HPLW18TC	VLW18TISPB	-	-

**Flange Spreaders - Technical Comparisons\***

		<b>spreading force</b>	<b>spreading distance**</b>	<b>Stepped Block Kit</b>	<b>ATEX Version</b>
<b>Hydraulic Spreaders</b>					
MATCH	HSW15TEX 	155kN	6-81mm	Incl	Yes
EQUALIZER	SW15TE	155kN	6-81mm	Incl	No
EQUALIZER	SWi2025TE	200kN	6-103,5mm	Incl	Optional
ENERPAC	FSH14	125kN	6-80mm	Optional	No
SPX	FLS15—ST	150kN	5-15mm	N/A	No
<b>Mechanical Spreaders</b>					
MATCH	MSW9TEX 	155kN	6-81mm	Incl	Yes
EQUALIZER	SW9TM	155kN	6-81mm	Incl	No
EQUALIZER	SWi1214TM	120kN	6-103,5mm	Incl	Optional
ENERPAC	FSM8	72kN	6-80mm	Optional	No
<b>Integral Hydraulic Spreaders</b>					
MATCH	HSW15TSCEX 	145kN	6-81mm	Incl	Yes
EQUALIZER	SW14.5TI	145kN	6-81mm	Incl	No
EQUALIZER	SWi2025TI	200kN	6-103,5mm	Incl	Optional
ENERPAC	FSC14	118kN	6-80mm	Optional	No

 ATEX Certified for use in the hazardous areas II 2G ck IIB T5 & II 2D ck T100 °C

\*for comparison purposes only. Products are not identical.

\*\* with a pair of Stepped Blocks

„ENERPAC“ is a Trade Mark of Enerpac Tool Group.

„EQUALIZER INTERNATIONAL“ is a Trade Mark of Enerpac Tool Group.

„POWER TEAM“ is a Trade Mark the SPX FLOW

# NOTES

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## Our Services

MATCH Flange Service Tools offer specially developed hydraulic tools for various industries including- oil/gas (on and offshore), refineries, petrochemical, power plants and any other additional industries that require flange spreading, flange alignment, bolting and flange services.

Our MATCH mechanical and hydraulic Flange Spreader tools and Hand Pump Kits are approved and certificated by Notified Body for use in a potentially explosive atmosphere and marked as ATEX Group II and in conformity with Machinery Directive 2006/42EC and 2014/34/UE.

Our offer ranges from maintenance and repair work to grazing recovery tests in accordance with the applicable regulations. With well-maintained tools, you will achieve maximum availability and the lowest production costs.

At MATCH Flange Service Tools, we guarantee high-quality, safe tools with fast delivery and optimal framework contracts, as well complete service for your mechanical and hydraulic Flange Spreader, Torques wrenches, hydraulic pumps, and on all 700 Bar hydraulic tools.



### Head Office

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Your local distributor

### Service and warehouse

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