

SILICONE HANDLES

W+S SOLUTIONS
PRODUCT CATALOG

SILICONE HANDLES



B-LINE



D-LINE



E-LINE



F-LINE



H-LINE



I-LINE



K-LINE



P-LINE



Q-LINE



R-LINE



T-LINE

possible colors:



*Click on the product to see full description

RATCHETS



RATCHET



T30 - RATCHET



RINGRATCHET



RS - RATCHET



INTEGRATED
RATCHET

COUPLING SYSTEMS



AO - COUPLING



BIG AO -
COUPLING



1/4" - COUPLING



HUDSON -
COUPLING



DENTAL -
COUPLING



ZIH - COUPLING



DRILL CHUCK

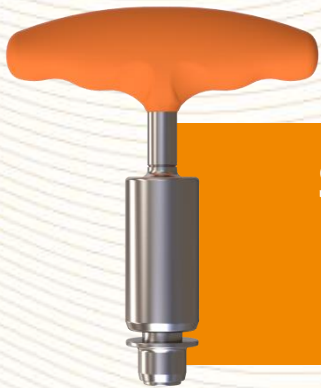


WA - COUPLING



BIT HOLDER

TORQUE LIMITERS



**STANDARD
TORQUE
LIMITER**



**ADAPTABLE
TORQUE
LIMITERS**



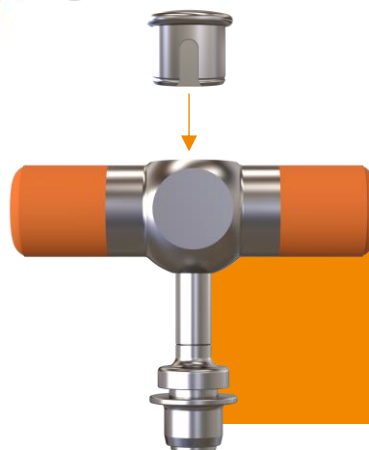
**INTEGRATED
TORQUE
LIMITER**



TORQUE WRENCH



**TORSION TORQUE
LIMITER**



**SINGLE-USE
TORQUE
LIMITER**

OTHER PRODUCTS



HAMMERS



Silicone Hand



Trial Rods



SILICONE
COMPONENTS

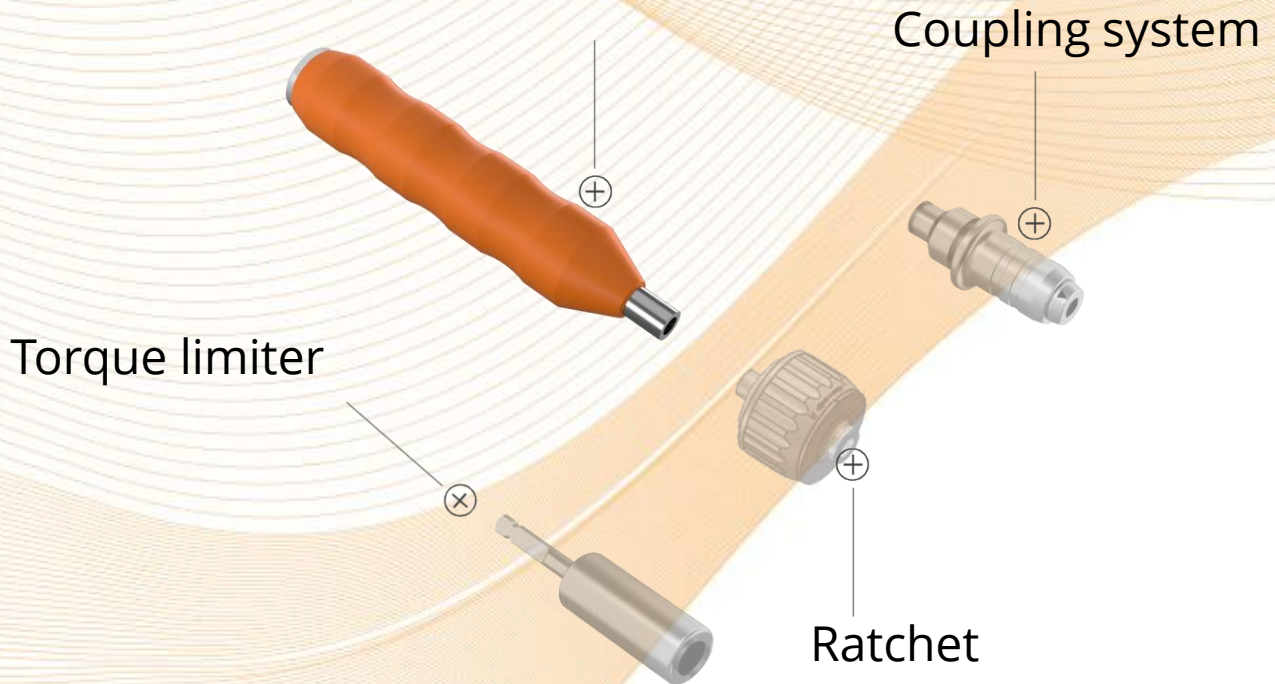
B-LINE

Our B-Line silicone handles are ribbed for an especially good grip. The large handles are perfect for task that require more force.

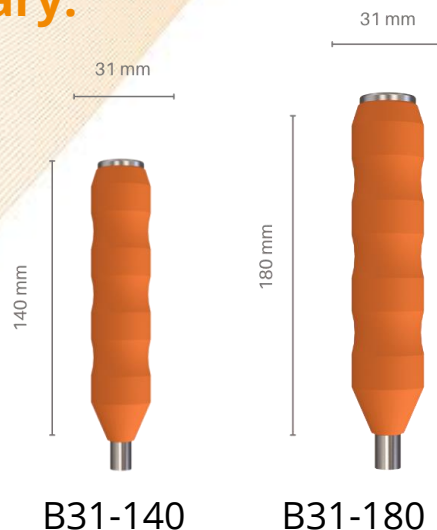
B-Line features:

- compatible with all of our accessories
- can be canulated
- can be threaded
- available in all colors

Silicone handle B-Line



The B-Line in summary:

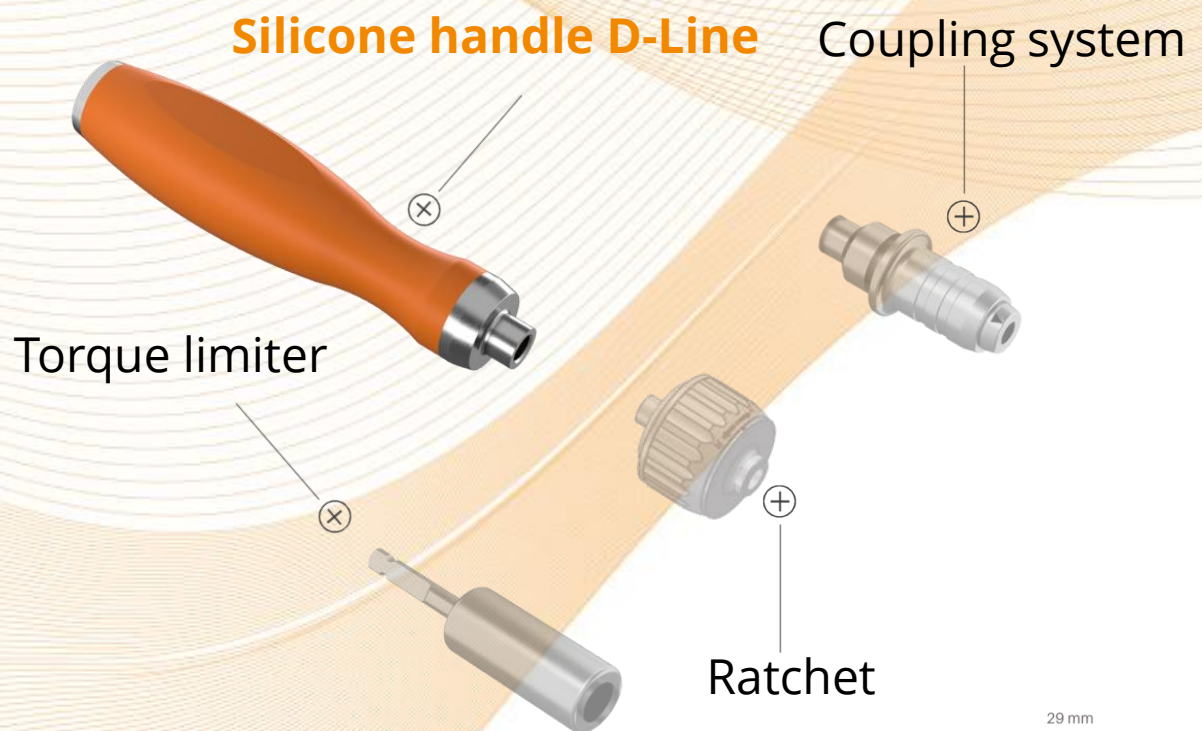


D-LINE

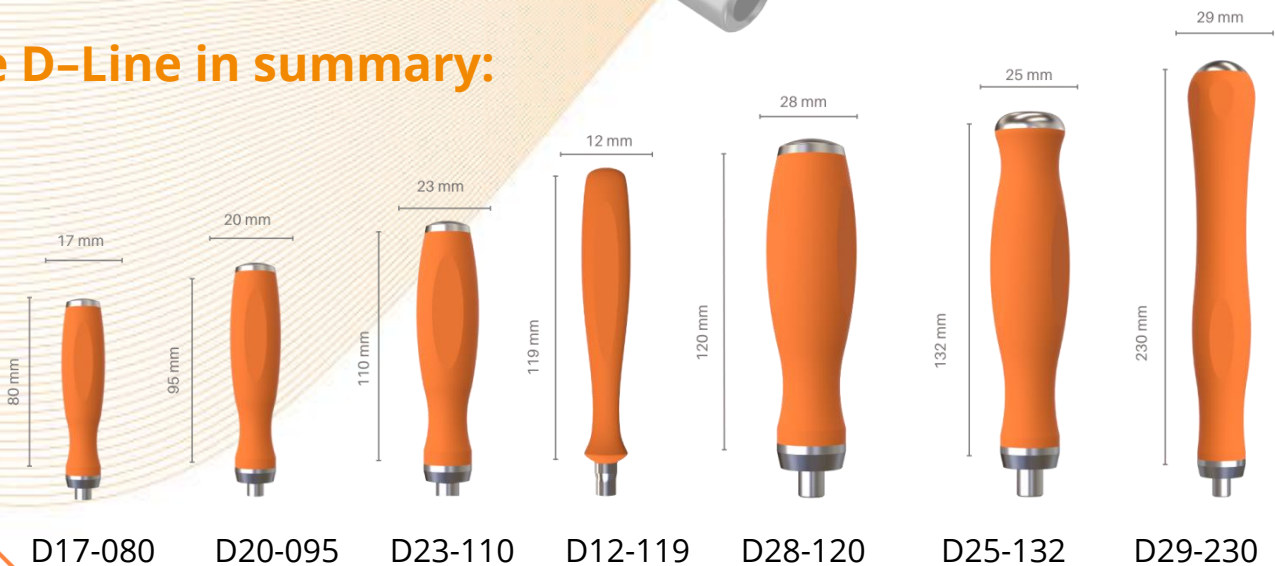
The D-Line is characterized by its ergonomic handle and can be universally used. The D-Line silicone handles are also available canulated and with striking caps.

D-Line features:

- compatible with all of our accessories
- can be canulated
- can be threaded
- available in all colors



The D-Line in summary:



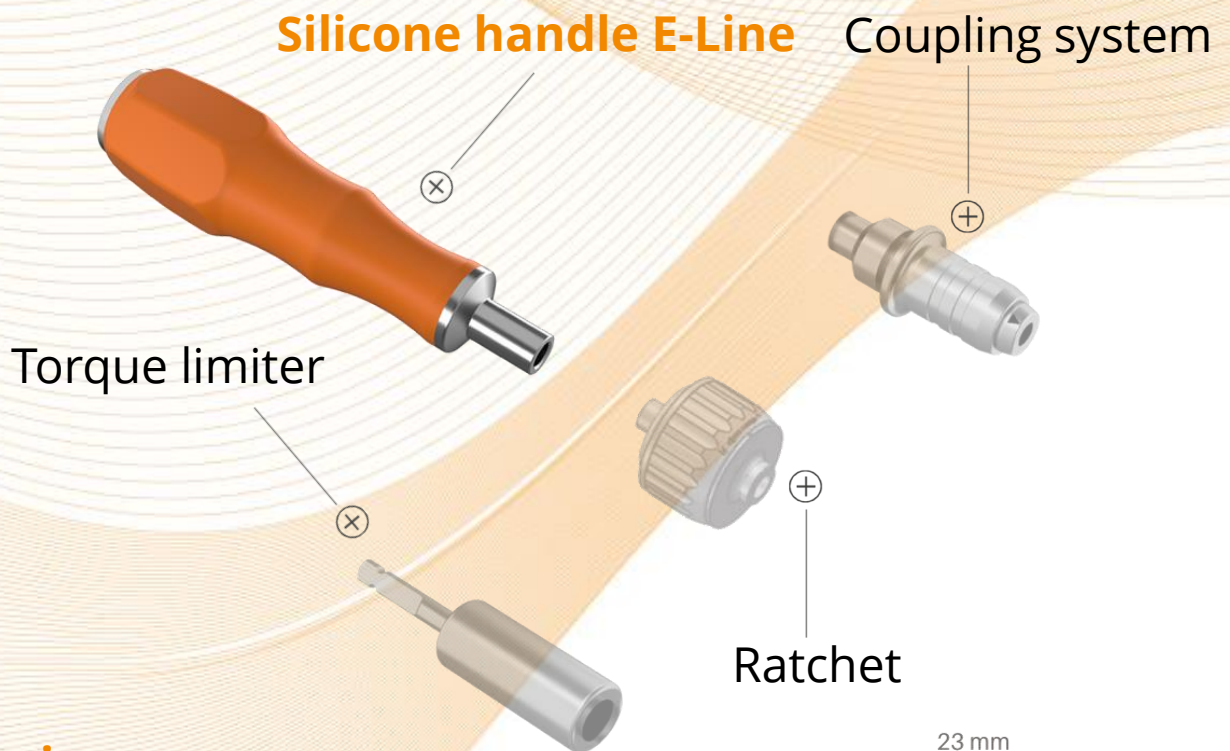
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E-LINE

The E-Line silicone handles are universally applicable. The wide but and large thumb-rest provide optimal force transfer. The E-Line silicone handles are also available canulated and with striking caps.

E-Line features:

- compatible with all of our accessories
- can be canulated
- can be threaded
- available in all colors



The E-Line in summary:

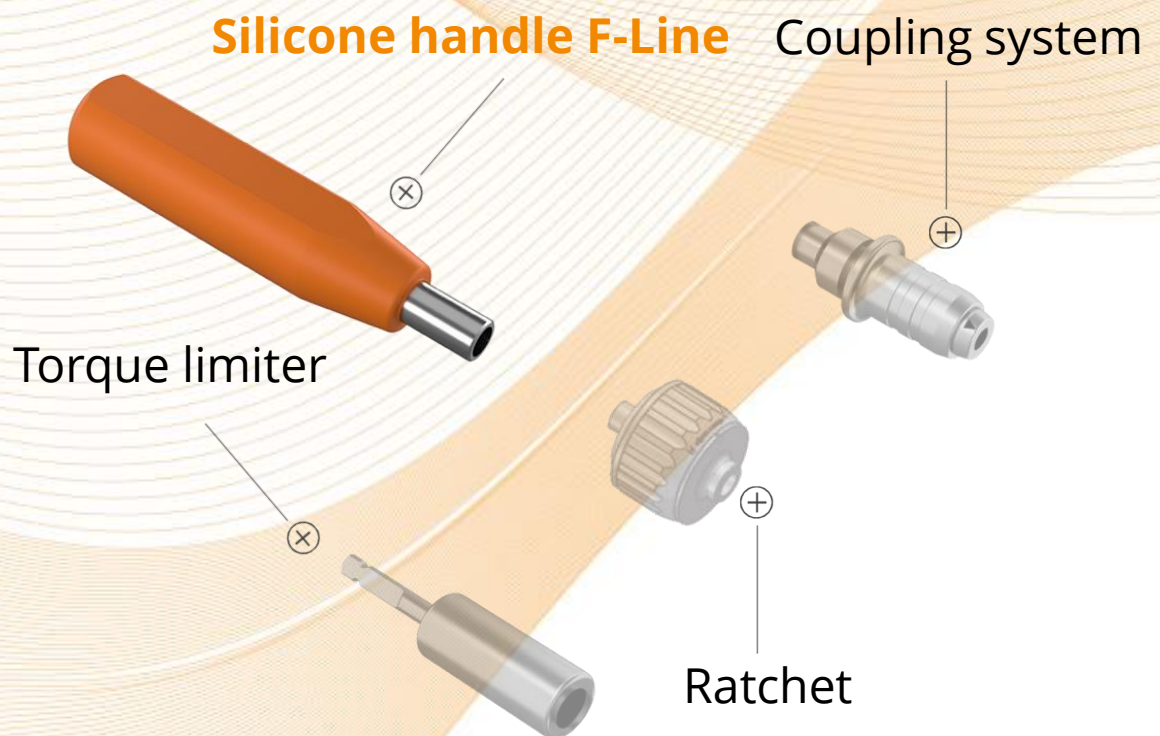


F-LINE

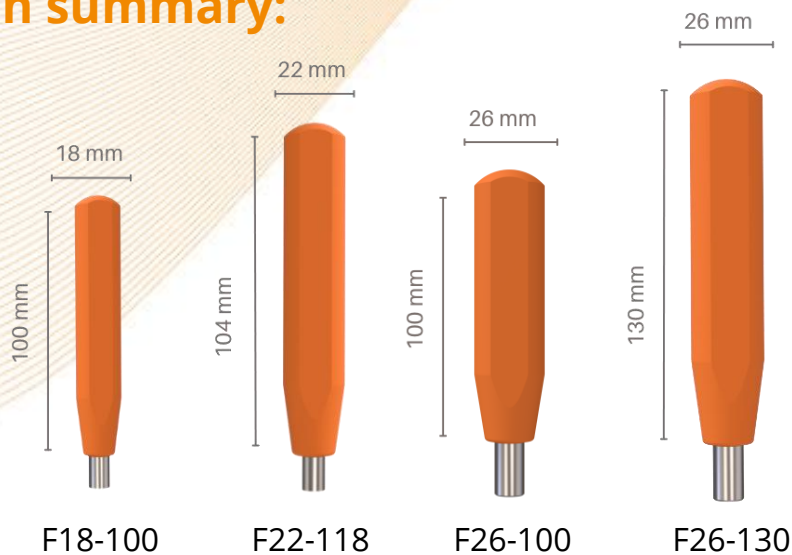
The F-Line silicone handles are a streamline economical choice. Among other things, they make for a great alternative to plastic handles.

F-Line features:

- compatible with all of our accessories
- can be threaded
- available in all colors



The F-Line in summary:

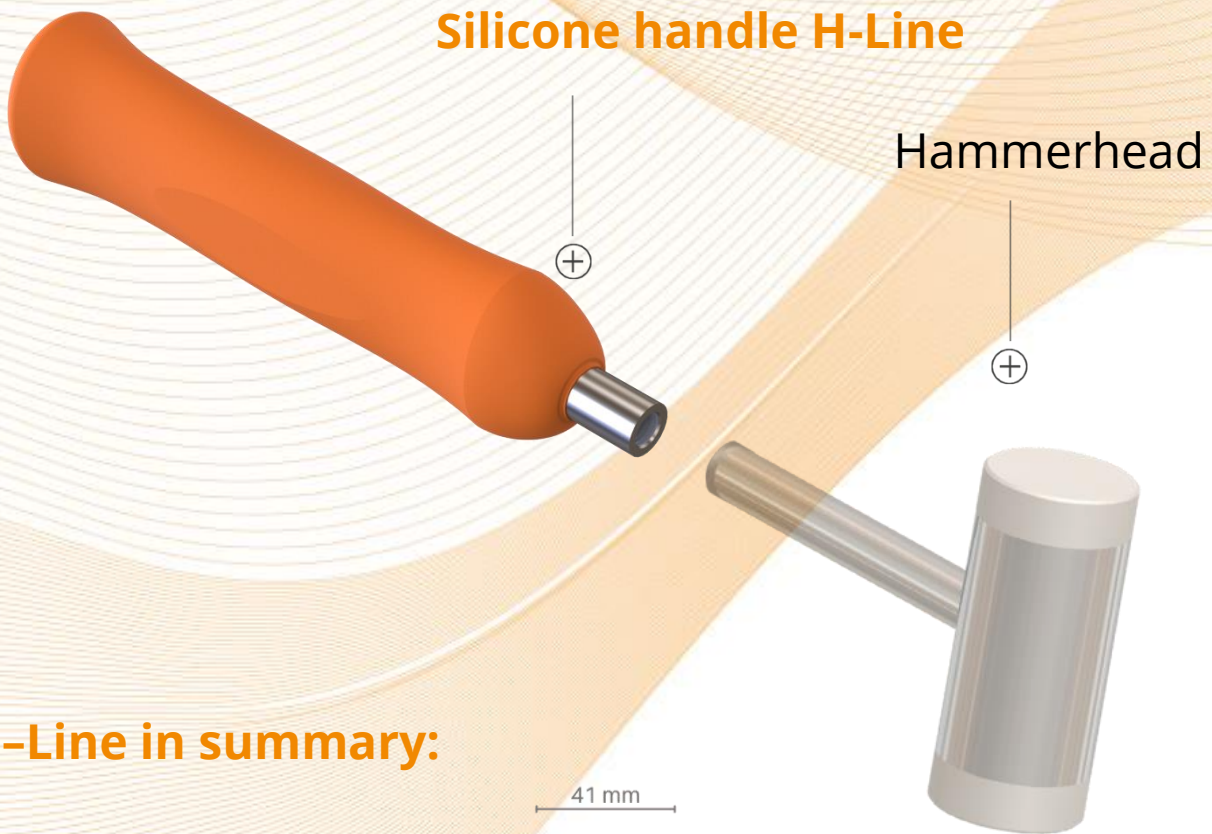


H-LINE

The H-Line silicone handles are specifically designed for hammers. The H-Line form provides a secure grip and optimal handling

H-Line features:

- application as hammer handle
- compatible with all of our accessories
- available in all colors



The H-Line in summary:



H26-150

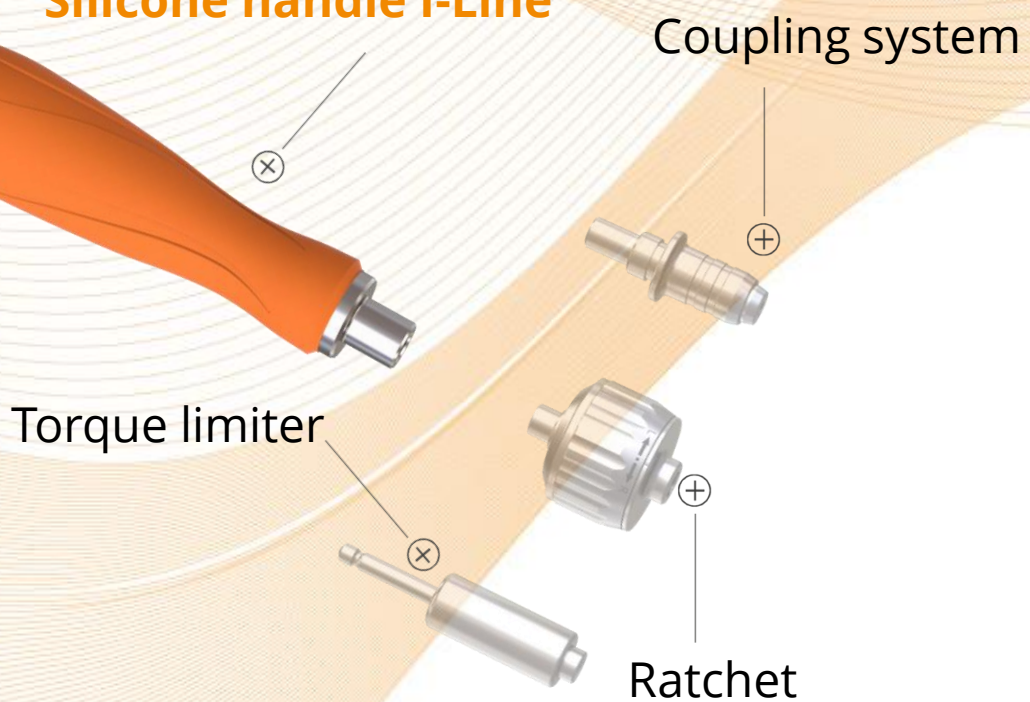
I-LINE

The I-Line is characterized by its exclusive design. The handles come in different sizes for a variety of uses. The E-Line silicone handles are also available canulated and with striking caps.

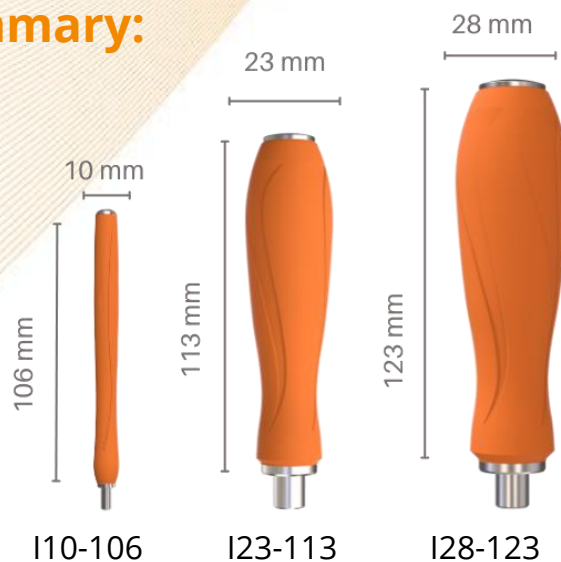
I-Line features:

- compatible with all of our accessories
- can be canulated
- can be threaded
- available in all colors

Silicone handle I-Line



The I-Line in summary:

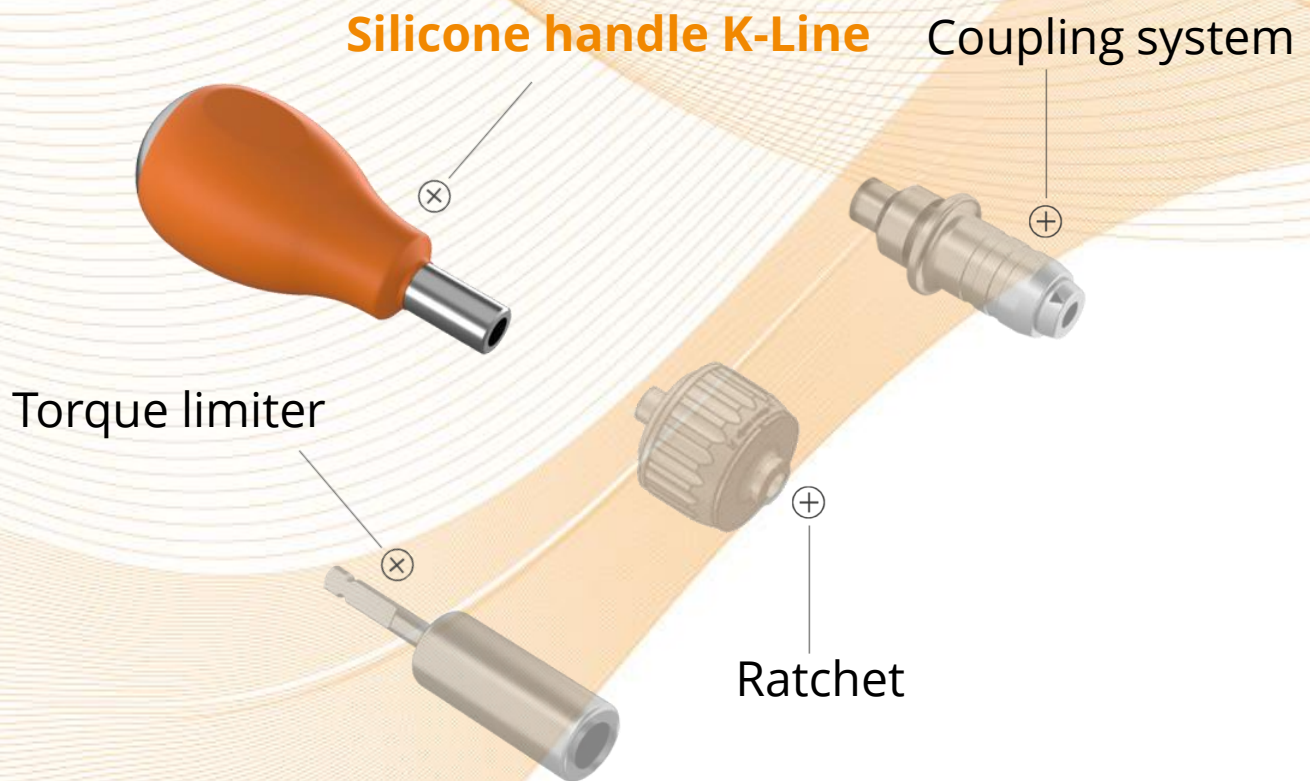


K-LINE

The K-Line silicone handles sit compact in the hand. The design provides easy handling especially while pushing.

K-Line features:

- compatible with all of our accessories
- can be canulated
- can be threaded
- available in all colors



The K-Line in summary:

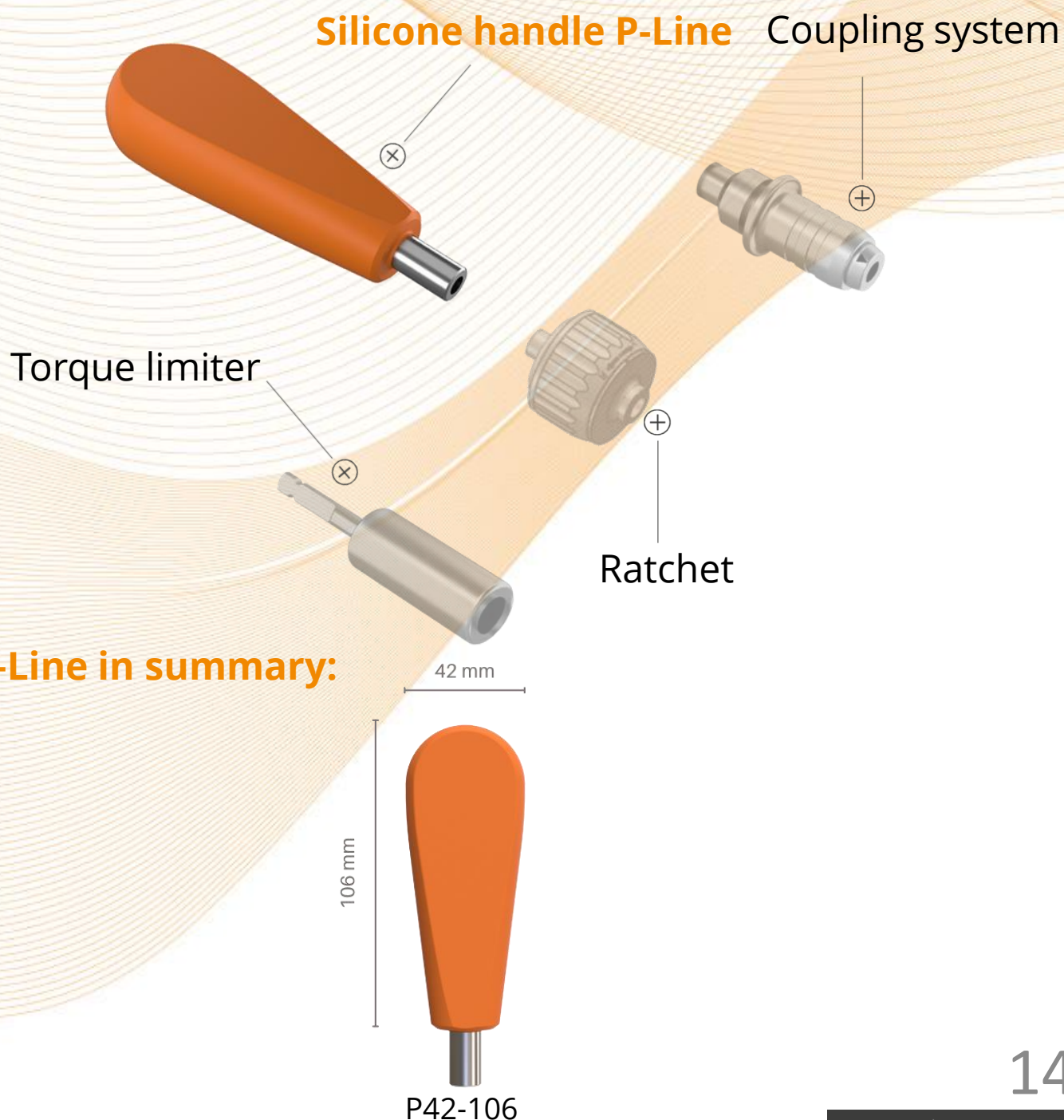


P-LINE

The P-Line silicone handles provide a large gripping surface for a secure grip to transfer more force and exert more torque.

P-Line features:

- compatible with all of our accessories
- can be canulated
- can be threaded
- available in all colors



The P-Line in summary:

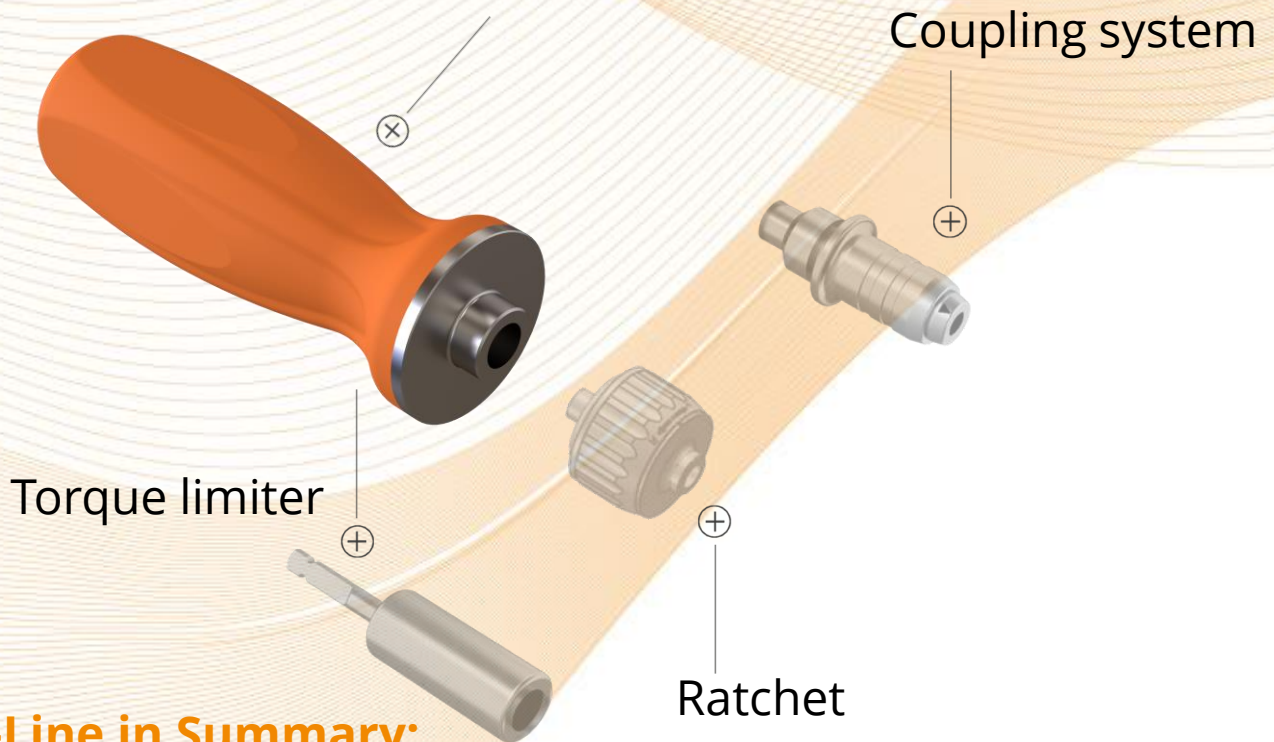
Q-LINE

The Q-Line features an elegant and compact design. It is particularly well-suited for use with the integrated ratchet. The Q-Line silicone handles are also available canulated and with striking caps.

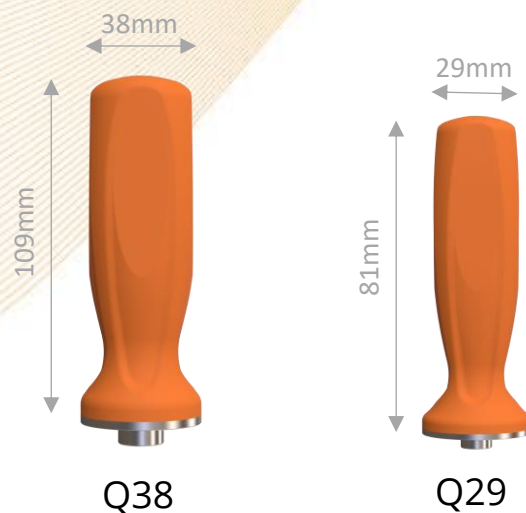
Q-Line features:

- compatible with all of our accessories
- can be canulated
- can be threaded
- available in all colors

Silicone handle Q-Line



The Q-Line in Summary:



Q38

Q29

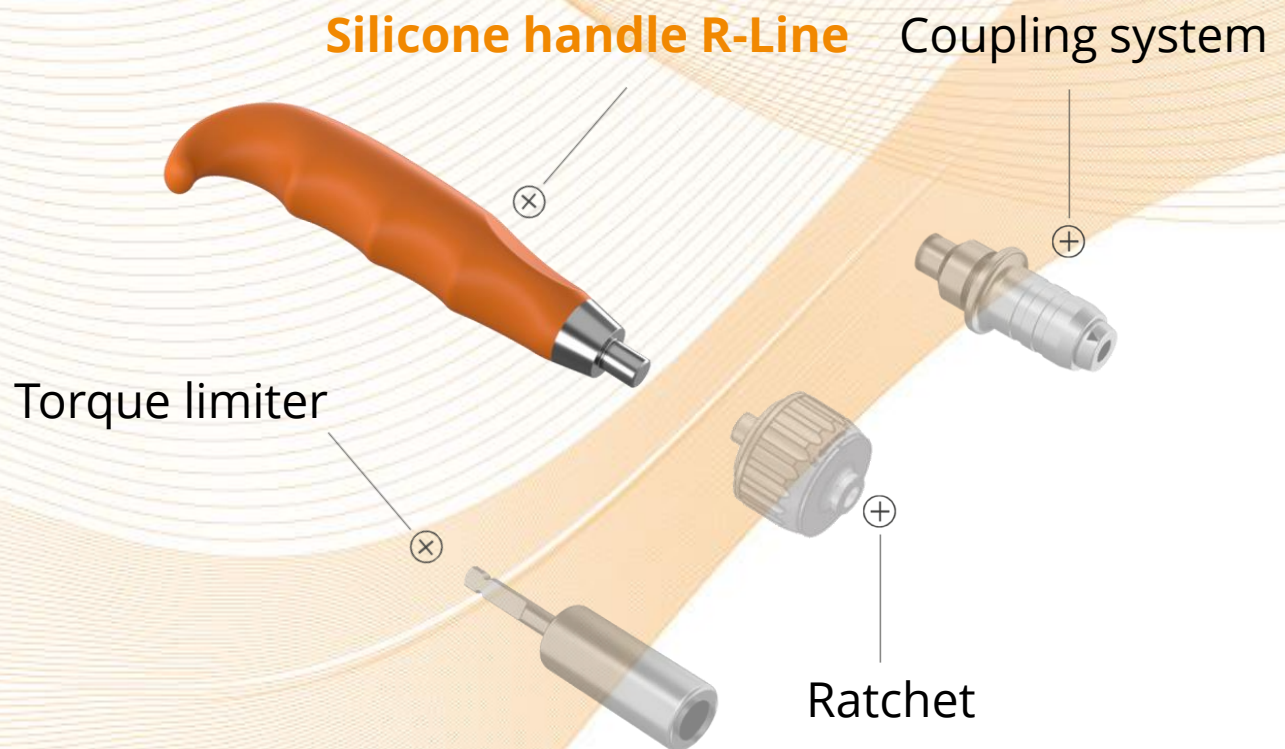
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Produkte

R-LINE

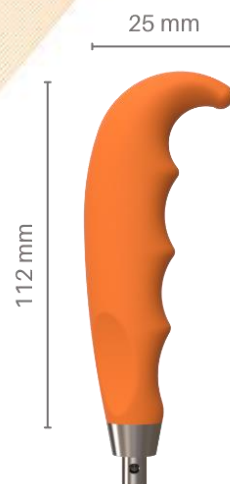
The R-Line silicone handles' design allows them to nestle in the hand and provide effective force transfer while pulling. The R-Line is especially suited for retractor handles.

R-Line features:

- compatible with all of our accessories
- can be threaded
- available in all colors



The R-Line in summary:



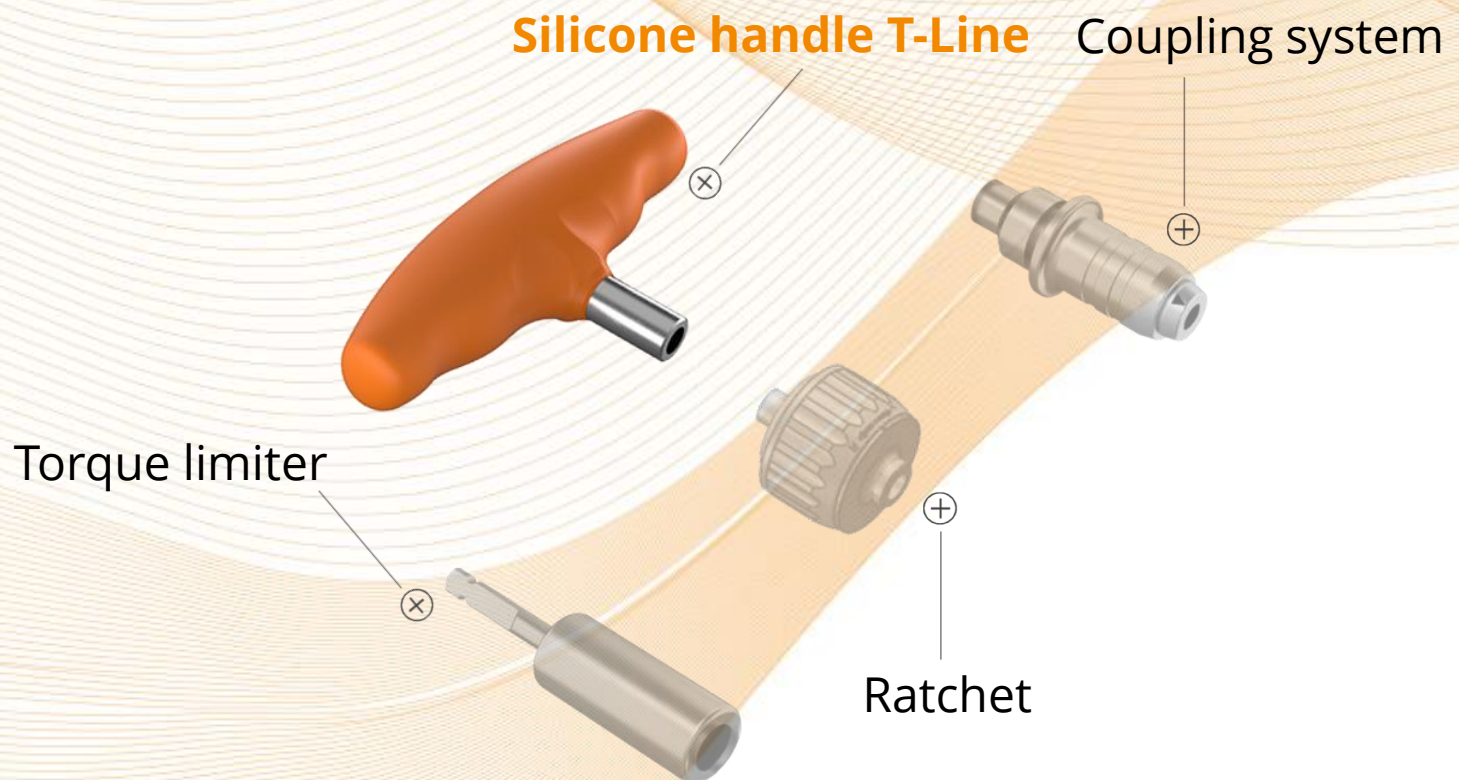
R25-112

T-LINE

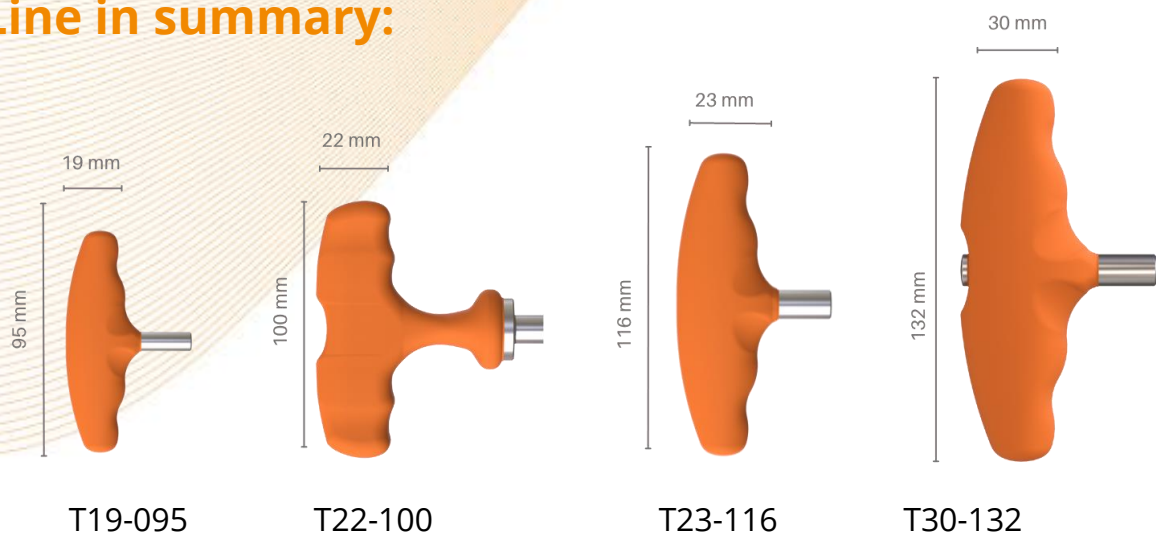
The T-Line silicone handles provide optimal force transfer while pulling and turning. The T-Line silicone handles are often used for torque limiters.

T-Line features:

- compatible with all of our accessories
- can be canulated
- can be threaded
- available in all colors

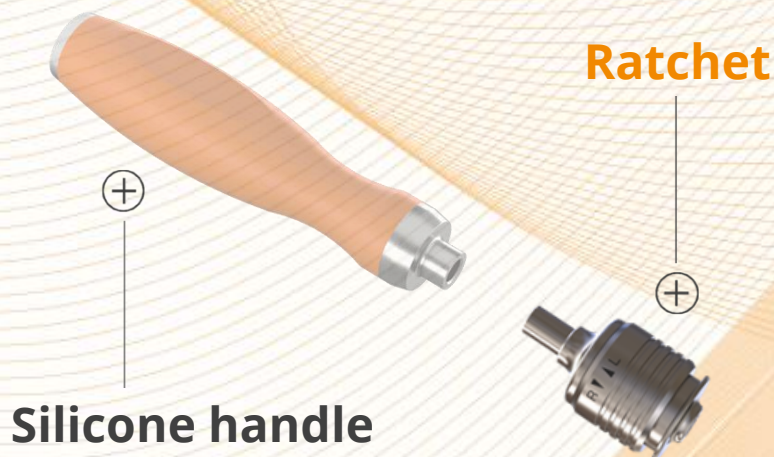


The T-Line in summary:



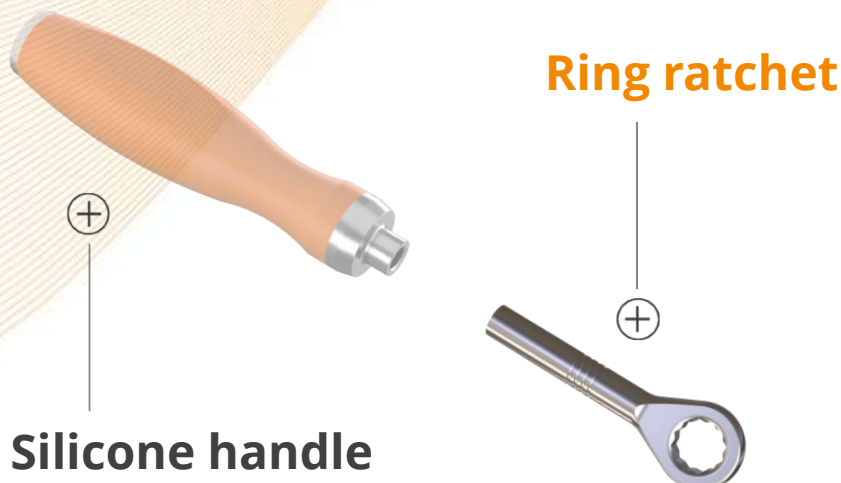
RATCHET

Ratchets allow for ergonomic turning, for example of screws and bolts. Our ratchets are economical and feature a compact design. The ratchet clicks 9 times per rotation and can be combined with all of our couplings, torque limiters and silicone handles.



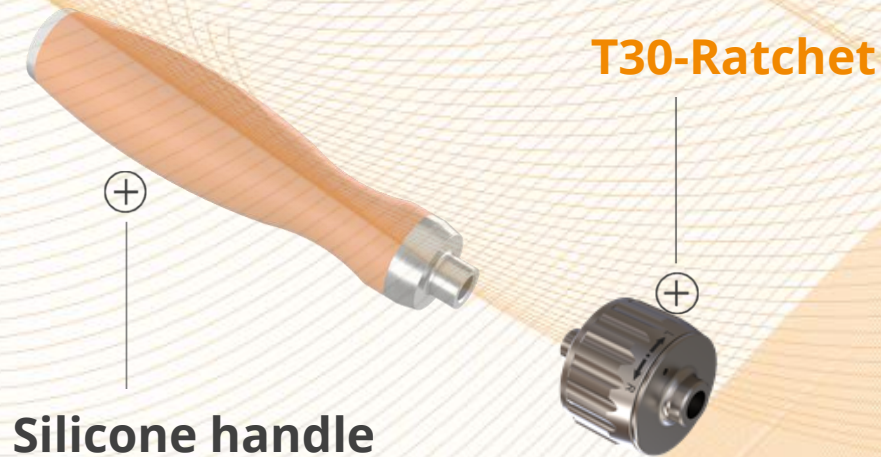
RING RATCHET

Ring ratchet is best when a lot of force is needed. The ratchet clicks 18 times per rotation and is compatible with all of our silicone handles and our custom torque limiters.



T30-RATCHET

The T30-Ratchet clicks 32 times per rotation and is therefore perfect for delicate work. It is compatible with all of our couplings, torque limiters and silicone handles.



RS-RATCHET

The RS-Ratchet is particularly compact and is best paired with smaller silicone handles. It clicks 9 times per rotation and is an economical choice. RS-Ratchets are compatible with all of our couplings, torque limiters and silicone handles.



INTEGRATED RATCHET

The integrated ratchet features a built-in coupling connection directly within the ratchet housing.

This design is especially space-saving in terms of length.

The integrated ratchet is available for both AO adapters and 1/4" adapters and is compatible with all torque limiters.

Q-Line silicone handles are particularly well-suited for use with the integrated ratchet.

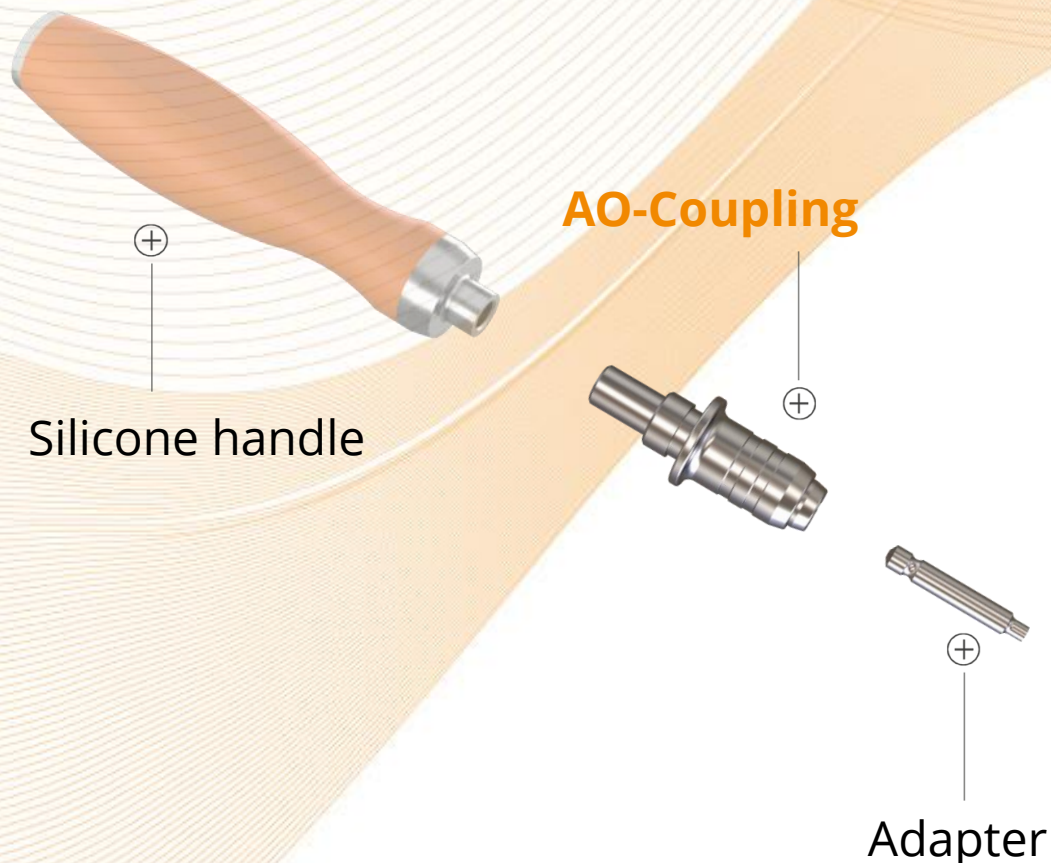


AO-COUPLING

The AO coupling is a frequently used coupling and can be used universally. It can be combined with all accessories and handle variants, preferably small to medium-sized handles.

AO-Coupling features:

- can be combined with torque limiters and ratchets
- universally applicable
- can transfer up to 5 Nm of torque

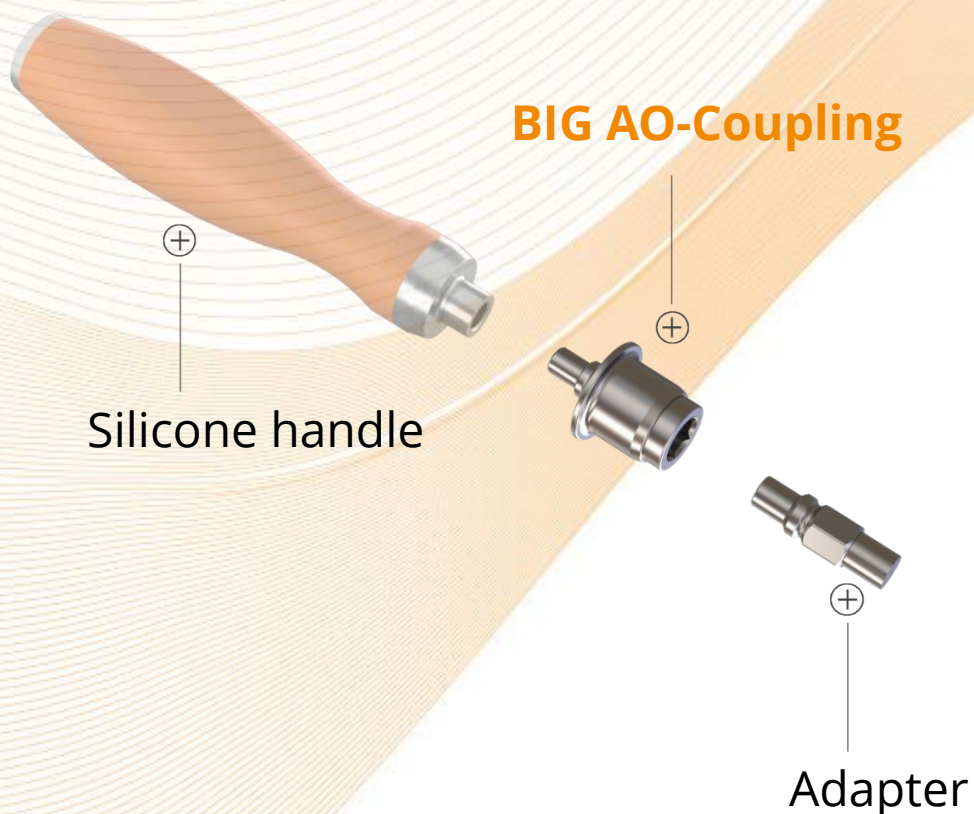


BIG AO-COUPLING

The big AO-Coupling is perfect for tasks that require more force. Therefore, they are best paired with large handles.

Big AO-Coupling features:

- can be combined with torque limiters and ratchets
- large torque output
- can transfer up to 20 Nm of torque

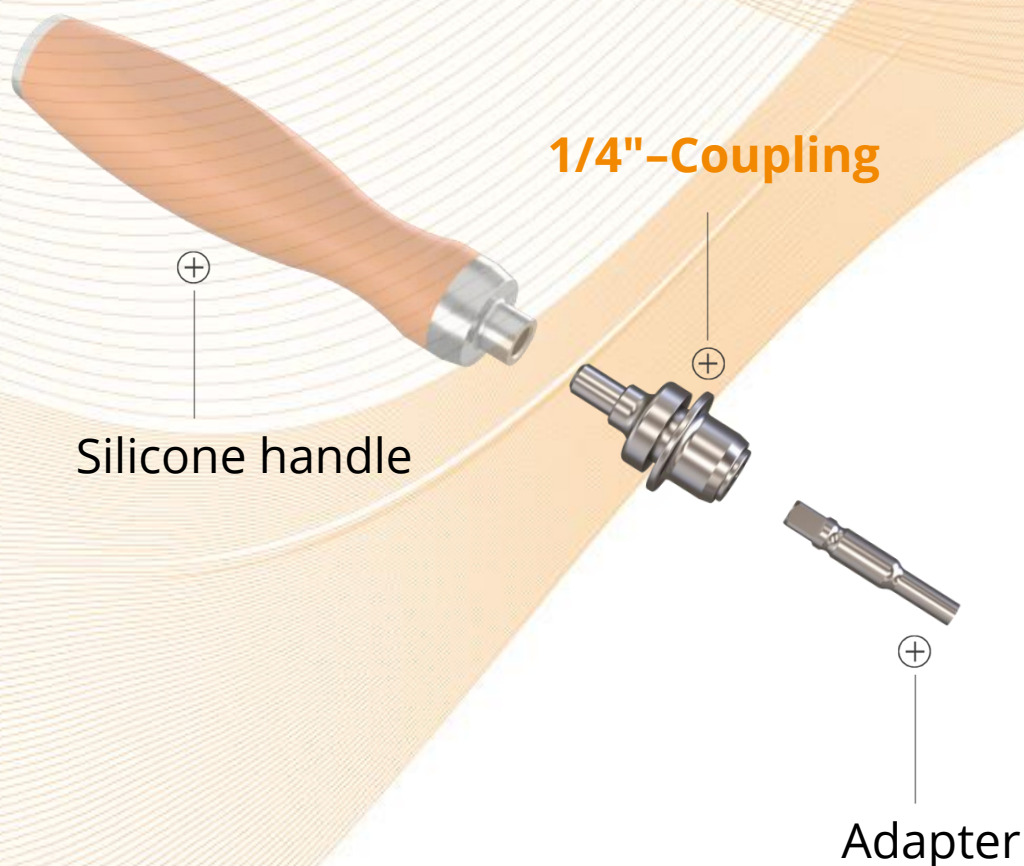


1/4"-COUPLING

The 1/4 inch coupling is a frequently used coupling and is also available as a backlash-free version. It can transmit great forces and is particularly suitable for medium-sized and large handles.

1/4"-COUPLING features:

- can be combined with torque limiters and ratchets
- suitable for the transmission of great forces
- also available as a backlash-free version
- transmits torques up to 18 Nm

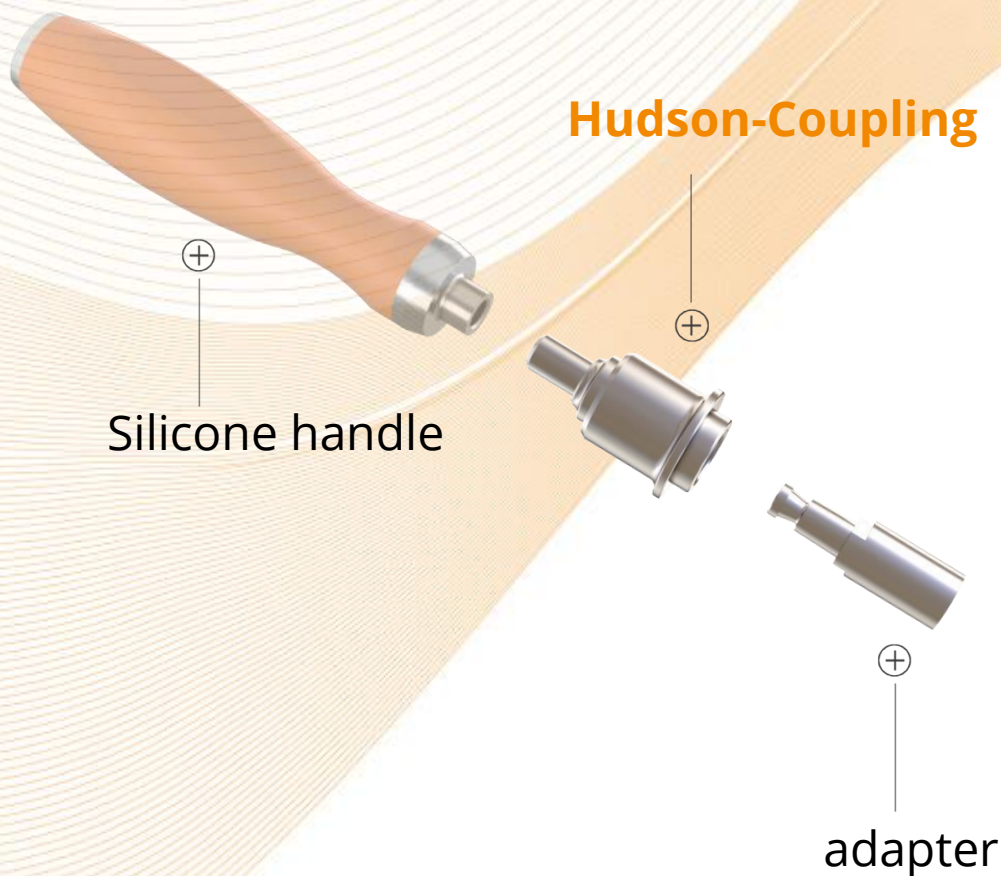


HUDSON- COUPLING

The Hudson-Coupling is nearly completely free of play. It can transfer a lot of force and is usually used with a large handle.

The HUDSON-COUPLING, an overview:

- can be combined with torque limiters and ratchets
- best for transferring large amounts of force
- nearly completely free of play
- can transfer up to 18 Nm of force

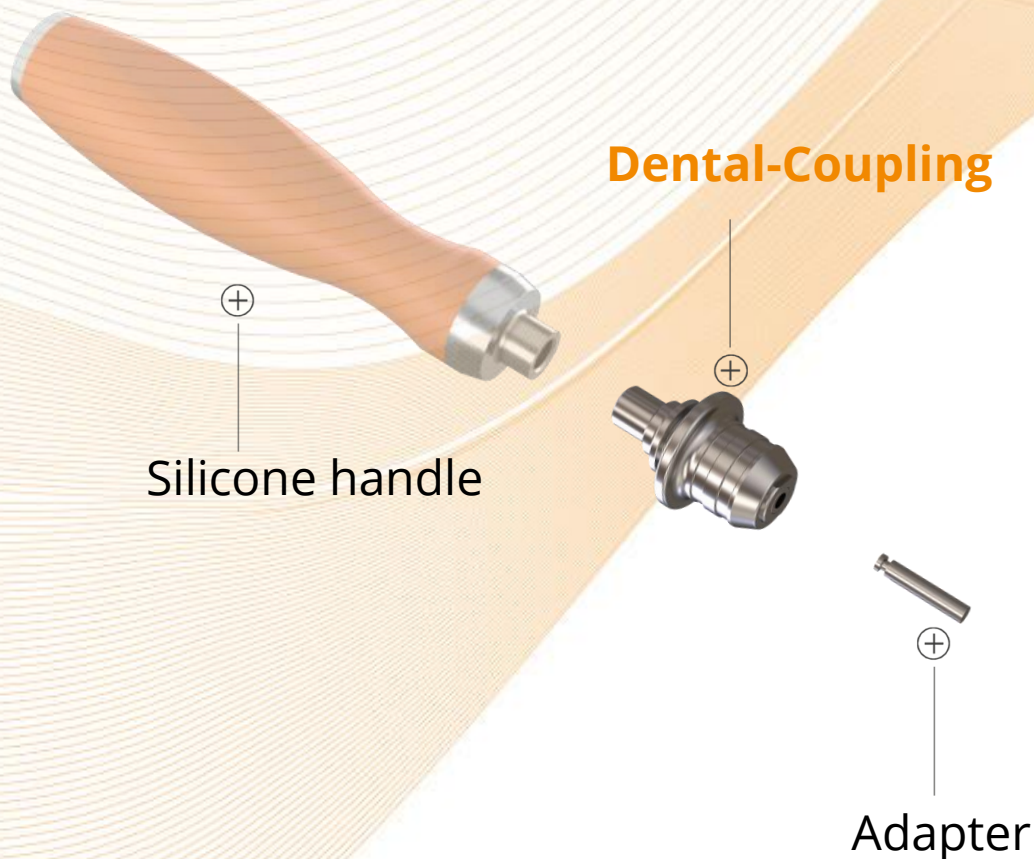


DENTAL- COUPLING

The Dental-Coupling is best for delicate application, for example dentistry. Usually, paired with small handles.

DENTAL-COUPLING, an overview:

- can be combined with torque limiters and ratchets
- for delicate applications
- can transfer up to 1 Nm of force

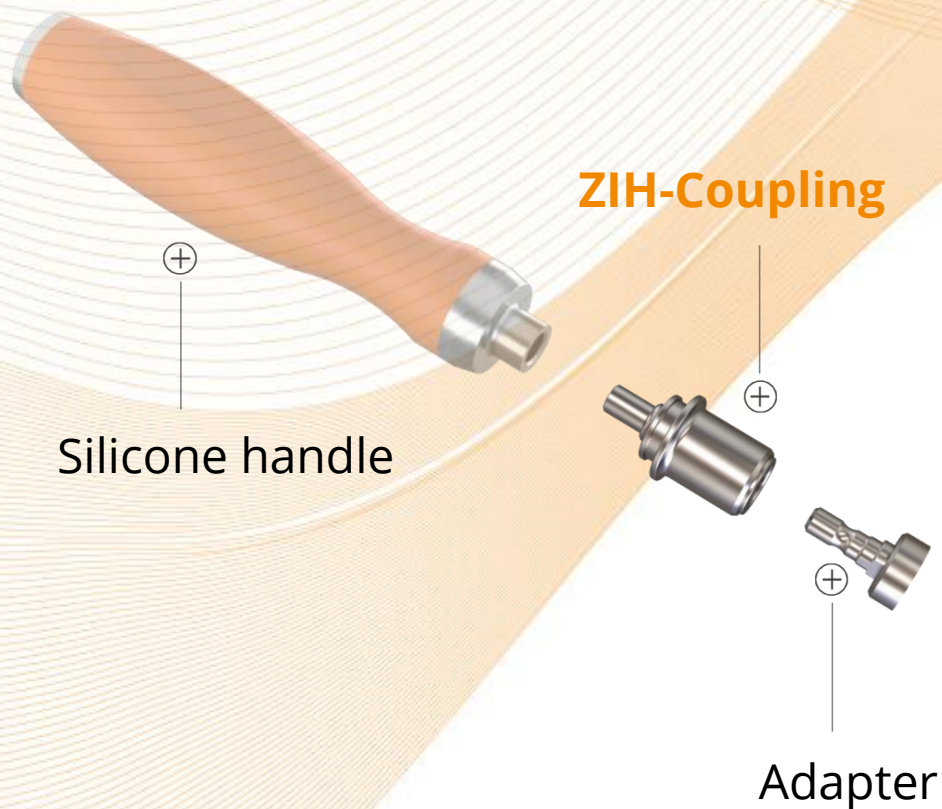


ZIH-COUPLING

The ZIH-Coupling is a commonly used coupling that is universally applicable. It can be combined with all of our accessories and handle variants. Best in combination with small to middle-large handles.

ZIH-Coupling features:

- can be combined with torque limiters and ratchets
- good for transferring a lot of force
- can transfer up to 18 Nm of torque

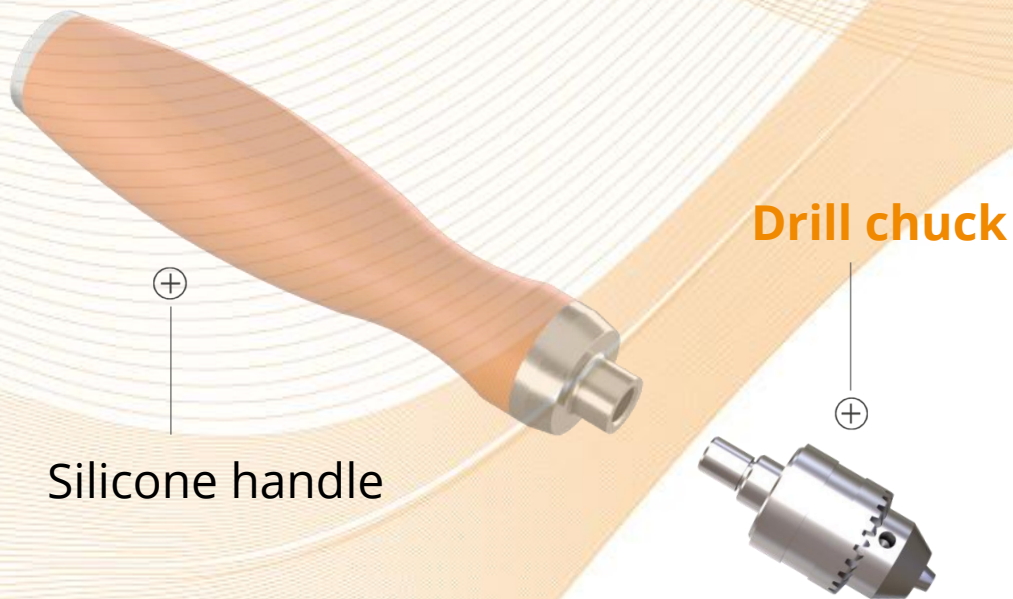


DRILL CHUCK

The drill chuck is made to tighten different tools and instruments. It features a compact design and can be combined with all of our handles and accessories.

The Drill chuck in summary:

- universally applicable
- also available cannulated



WA-COUPLING

The WA-Coupling can be combined with all of our accessories and handle variants and is best with a middle-large to large handle.

The WA-Coupling features:

- can be combined with torque limiters and ratchets
- can transfer up to 8 Nm of torque

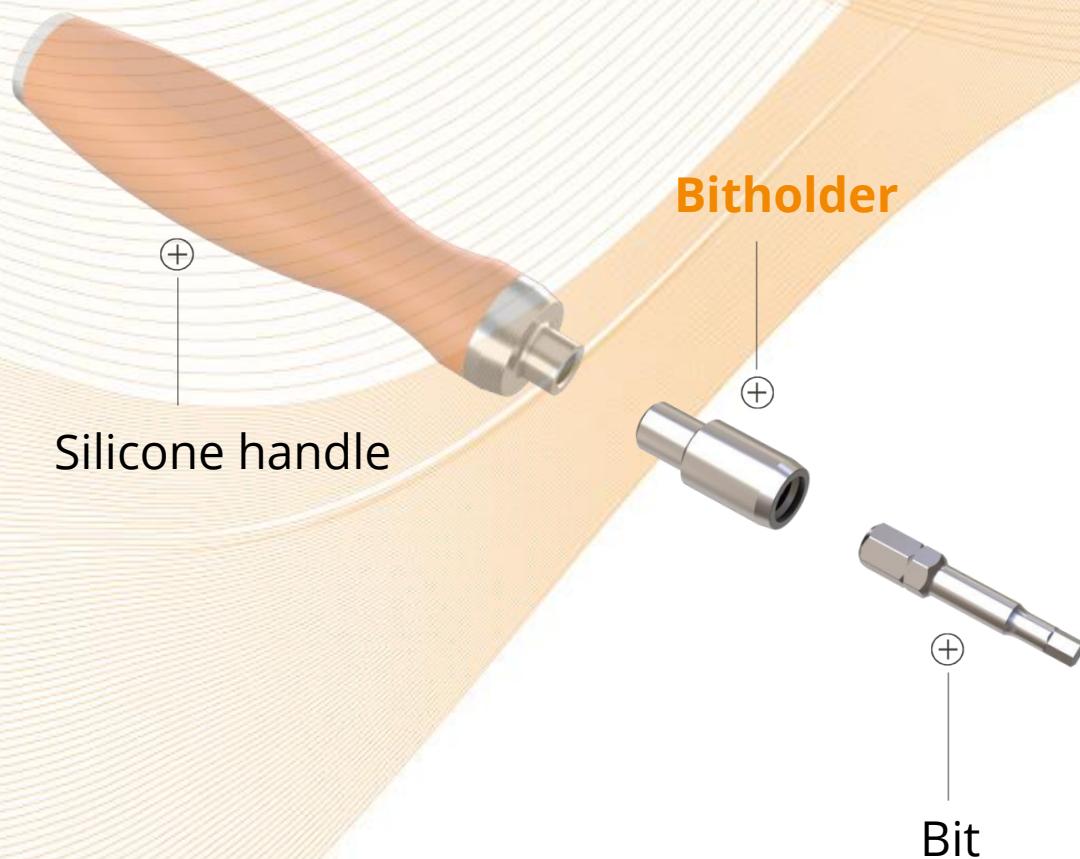


BITHOLDER

The W+S Bit holder is made to hold both magnetic and non-magnetic bits. It can be combined with all of our accessories and handles

Bit holder features:

- can be combined with torque limiters and ratchets
- can be used with magnetic or non-magnetic bits
- suitable for 1/4 inch bits
- available with customized bits



HAMMERS

Hammers can enjoy an especially large advantage from a secure silicone grip. Our hammers are available with a metallic or plastic striking surface. The H-Line silicone handles are especially suitable for hammers.

Characteristics:

- available with metallic or plastic striking surface
- anti-slip silicone handle



The Hammers in summary:



H-Line



F-Line



D-Line

STANDARD TORQUE LIMITERS

THESE PRODUCTS ARE PATENTED!

Our standard torque limiters enable torques of up to 20 NM and are compatible with various couplings, ratchets or screw adapters.

They can be used with different handles and are also available cannulated.

Our standard Torque Limiters, an overview:



T-Line
Torque limiter with
1-4 inch coupling



T-Line
Torque limiter with screw
adapter



D-Line
Torque limiter with
AO-coupling



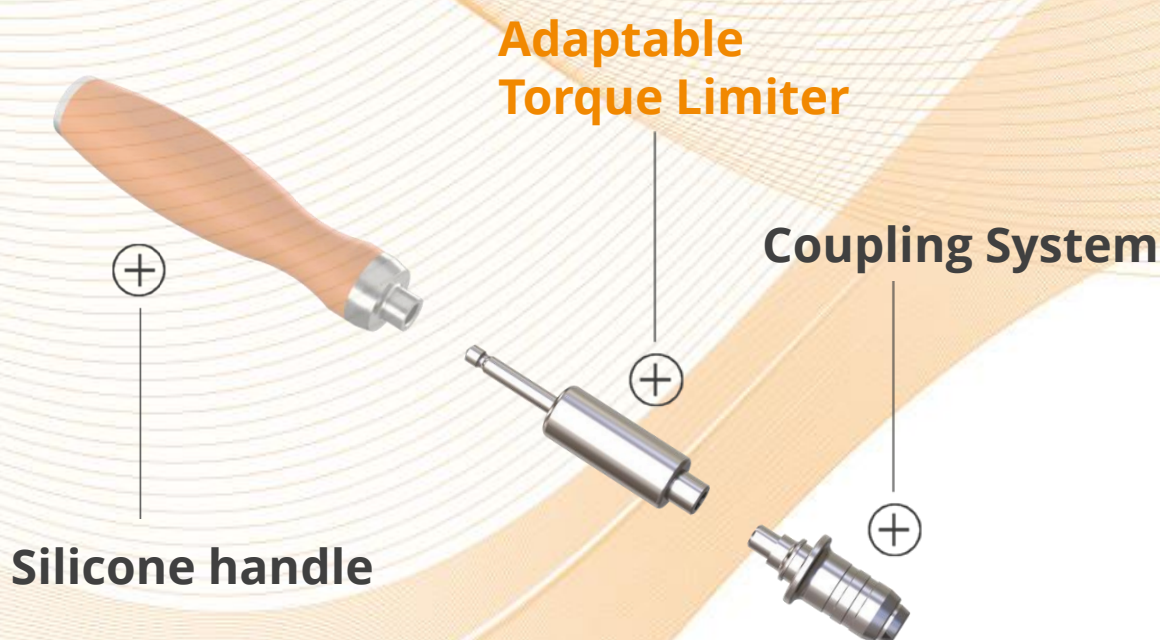
K-Line
Torque limiter with screw
adapter

ADAPTABLE TORQUE LIMITERS

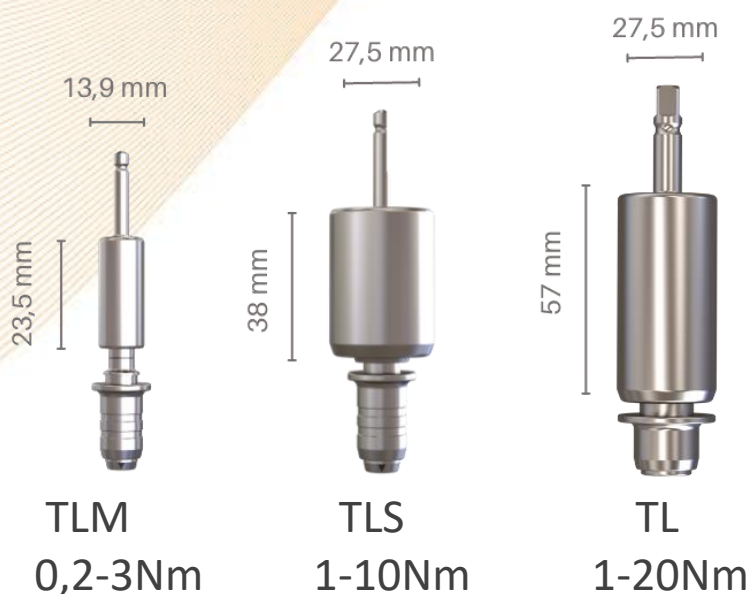
THESE PRODUCTS ARE PATENTED!

Our patented torque limiters enable you to tighten screws, for example, with a precisely defined torque.

The adaptable torque limiters are available in different sizes and torques. They are compatible with all handles, ratchets and couplings.



Our adaptable Torque Limiters, an overview:

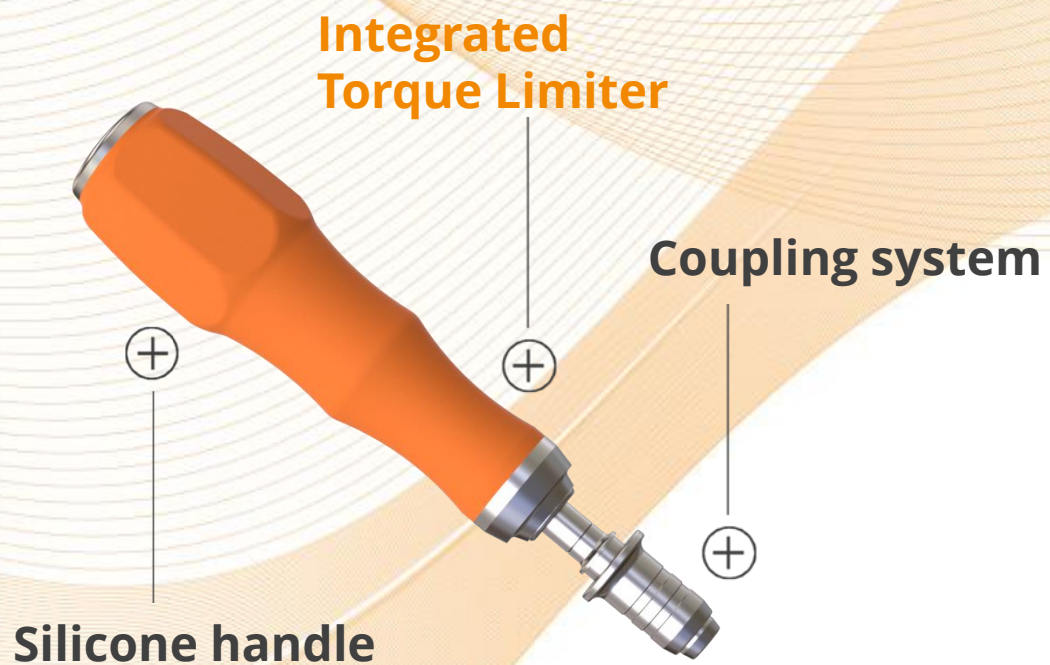


INTEGRATED TORQUE LIMITERS

THESE PRODUCTS ARE PATENTED!

Our patented integrated torque limiter has the torque limiter built in directly into the handle. This allows the entire tool to be compact for easy handling.

Our integrated torque limiters are compatible with our ratchets, couplings and allow for torque between 0.2-1.12 Nm



Our integrated Torque Limiters, an overview:



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TORQUE WRENCH

Our torque wrench show how much torque is being applied while tightening screws or bolts.

Torque keys are mostly used with the k-Line and are compatible with our ring ratchet.

The torque key can apply up to 50 Nm of torque.



TORSION TORQUE LIMITER

The torsion torque limiter shows the current torque on a scale.

It is compatible with all our couplings and is best used for little to middle amounts of torque.

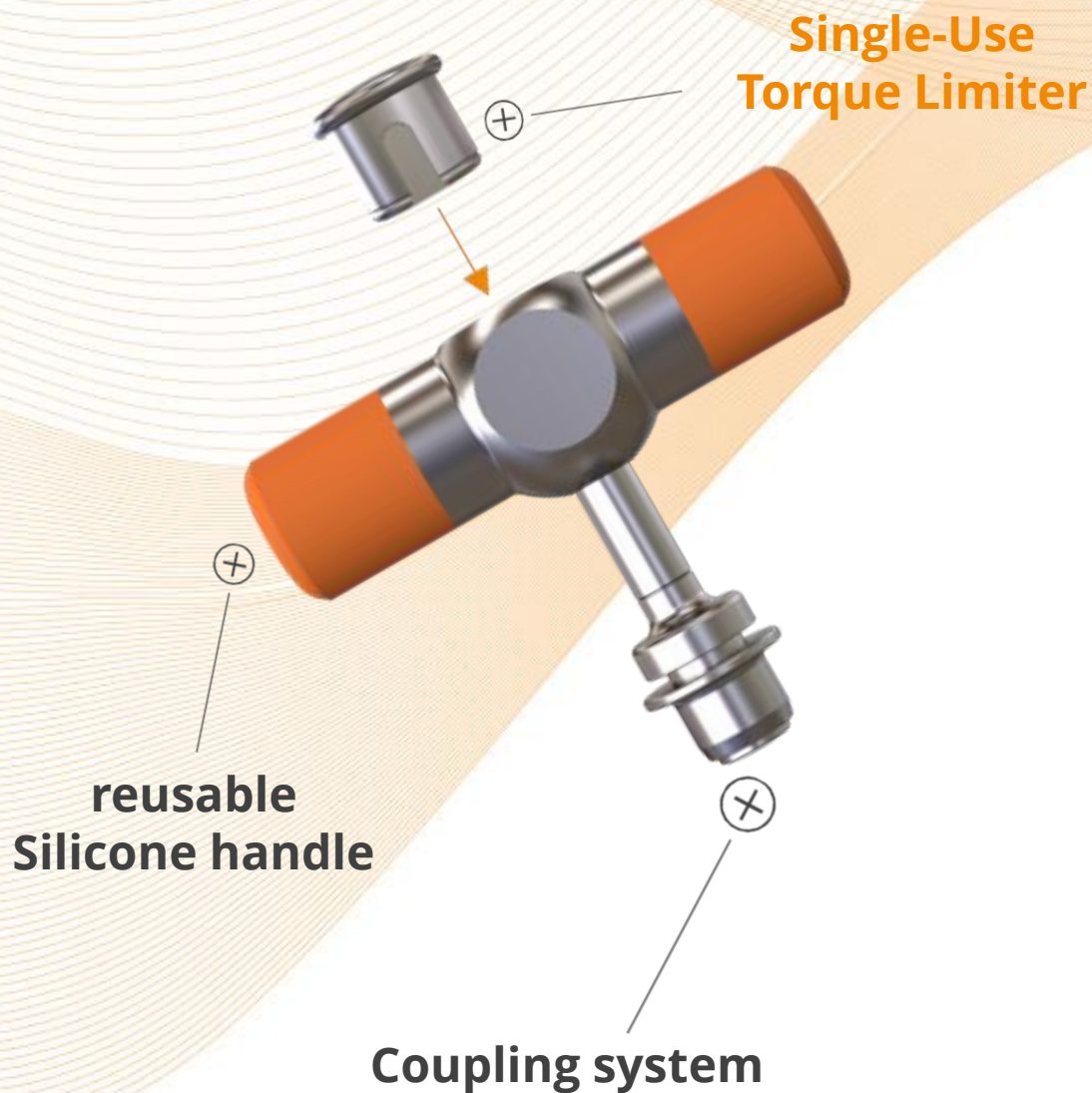


SINGLE-USE TORQUE LIMITER

The single-use torque limiter consists of a single-use torque limiting cartridge and a reusable handle.

The advantage of this product is that it eliminates the need for time-consuming recalibration of the torque limiter.

Our single-use torque limiters are compatible with various handles, ratchets, and couplings, and allow for torque limits of up to 12 Nm.



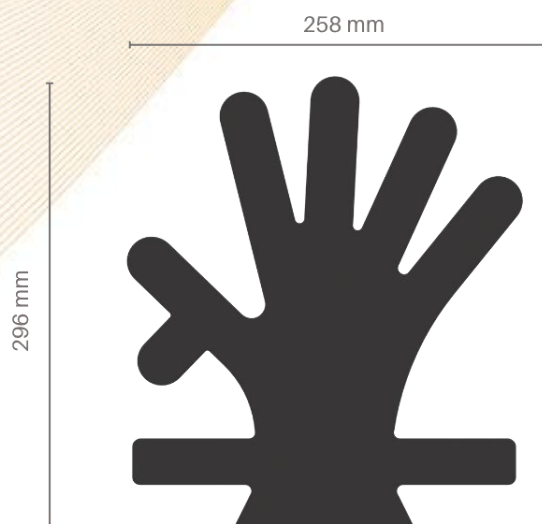
SILICONE HAND

Our silicone hand is designed to fix the patient's hand during surgery. The patient's hand can be optimally held by the flexible fingers and the additional silicone rings.

The silicone hand is biocompatible and a great replacement for outdated lead hands.



Our Silicone Hand, an overview:



TRIAL RODS

Our trial rods are used in spinal surgery. They are made of silicone with a core of stainless steel or nitinol. Thanks to the nitinol core, the trial rods return to their original shape when sterilized. The trial rods are available in different lengths and diameters.

10| 20| 30| 40| 50| 60| 70| 80| 90| 100

110| 120| 130| 140| 150| 160| 170| 180| 190| 200| 210| 220| 230| 240| 250| 260| 270| 280| 290| 300

310| 320| 330| 340| 350| 360| 370| 380| 390| 400| 410| 420| 430| 440| 450| 460| 470| 480

490| 500| 510| 520| 530| 540| 550| 560| 570| 580| 590| 600| 610| 620| 630| 640| 650| 660| 670| 680| 690| 700| 710| 720| 730| 740| 750| 760| 770| 780| 790| 800| 810| 820| 830| 840| 850| 860| 870| 880| 890| 900| 910| 920| 930| 940| 950| 960| 970| 980| 990| 1000

1000| 1010| 1020| 1030| 1040| 1050| 1060| 1070| 1080| 1090| 1100| 1110| 1120| 1130| 1140| 1150| 1160| 1170| 1180| 1190| 1200| 1210| 1220| 1230| 1240| 1250| 1260| 1270| 1280| 1290| 1300| 1310| 1320| 1330| 1340| 1350| 1360| 1370| 1380| 1390| 1400| 1410| 1420| 1430| 1440| 1450| 1460| 1470| 1480| 1490| 1500| 1510| 1520| 1530| 1540| 1550| 1560| 1570| 1580| 1590| 1600| 1610| 1620| 1630| 1640| 1650| 1660| 1670| 1680| 1690| 1700| 1710| 1720| 1730| 1740| 1750| 1760| 1770| 1780| 1790| 1800| 1810| 1820| 1830| 1840| 1850| 1860| 1870| 1880| 1890| 1900| 1910| 1920| 1930| 1940| 1950| 1960| 1970| 1980| 1990| 2000

Our Trial Rod, an overview:

100 - 500 mm

10| 20| 30| 40| 50| 60| 70| 80| 90| 100

3,5 - 5,5 mm

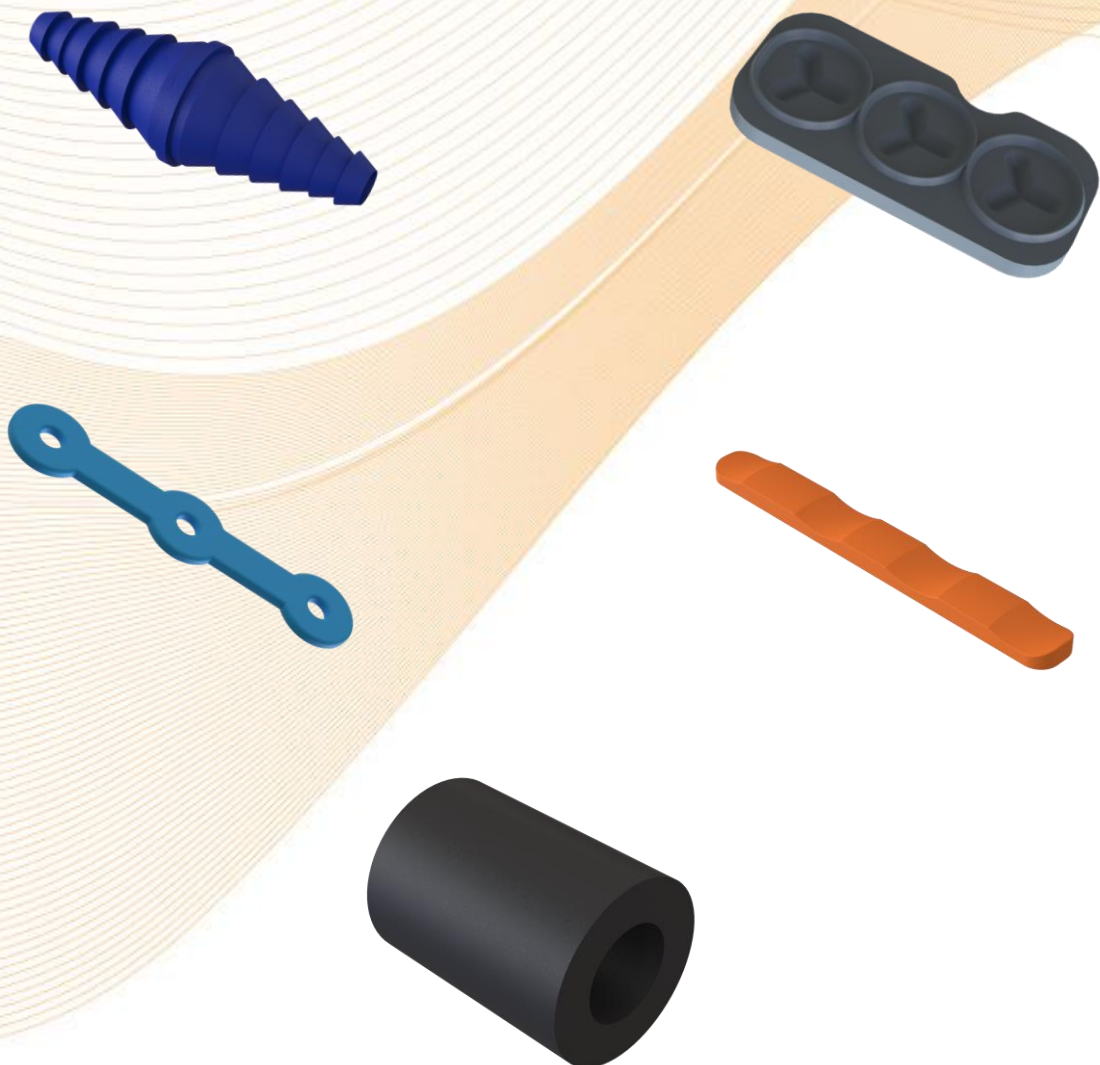
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SILICONE COMPONENTS

We manufacture high quality silicone parts that meet your individual requirements. Our portfolio covers the development of initial prototypes as well as large scale production. All parts are produced exactly to your specifications and can be manufactured in a wide variety of colors.

Our full Silicone components offer outstanding durability, flexibility and dimensional accuracy. These properties make them ideal for demanding applications in the medical sector where reliability and precision are essential.

Examples of full Silicone Components:



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