

ARNOLD-TV  
presents

The LocTec<sup>®</sup>  
security screw  
system



## LocTec<sup>®</sup>

### The secure screw connection

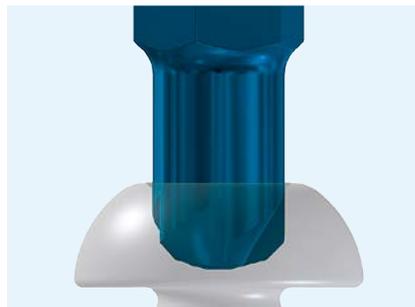
- + accurate transmission of defined torques
  - + cannot be detached without destroying the fastener
  - + no additional locking elements
  - + no risk of damaging the component
  - + no corrosion restrictions
  - + automated assembly possible
- ➔ [www.arnold-fastening.com](http://www.arnold-fastening.com)



# LocTec® – Cannot be detached without destroying the fastener? Surely not!

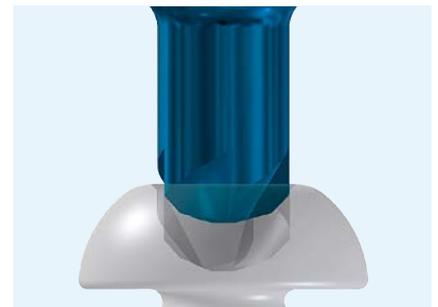
A screw fastened with LocTec® locking drive cannot be removed by conventional means, and there's no need for additional security devices. No need to hammer in a steel ball, or use shear-off fasteners.

It means that with LocTec®, you can reduce assembly costs, keep stocks to a minimum and drastically cut the costs for your lock fasteners. Simply fit the screw with the special LocTec® locking screwdriver bit and the job is done. With the drive's unique flank geometry, all you have to do is to fasten the screw with the LocTec® locking screwdriver. Any attempt to unscrew it will cause the assembly tool to disengage from the head of its own accord. Even if you are using the LocTec® driver bit that was used to fit it in the first place. There is no risk even if the LocTec® safety screwdriver bit should fall into the wrong hands.



### Screw-in process

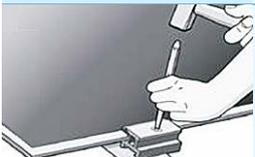
Simply use the LocTec® safety driving bit to drive the LocTec® screw into the component, and tighten. This produces a secure fastening. And now it cannot be undone without destroying the fastener. There's no need for any further locking devices.



### Attempt to remove

The LocTec®'s special flank geometry ensures that any attempt to undo the fastening, even using the LocTec® locking bit, will result in the tool disengaging from the head.

## Conventional fastening methods and their disadvantages

	<b>Single use slot</b> very low transferable torques
	<b>Special shapes</b> Fitting tools widely available from retailers
	<b>Shear-off screw</b> Wasted scrap, risk of corrosion, risk of injury, noise from shearing process
	<b>Hammering in a star or ball</b> Additional work step, vibration from hammering operation, lack of processing reliability, risk of damage, noise
	<b>Drive drilled on</b> Additional work step, risk of corrosion, contamination caused by chips
	<b>Drive bonded on</b> Additional work step, drying time; drive has to be cleaned in preparation

## The additional advantages of LocTec®

**In addition to creating protection against every conventional attempt to unscrew the fastener, LocTec® provides the extra advantages of a high-quality screw:**

- + accurate transmission of defined torques
- + cannot be detached without destroying the fastener
- + no waste scrap as would be caused by shear-off screws
- + no additional work steps as would be needed for drilling on or bonding
- + no danger that the end product will be damaged, as can happen when a ball is hammered in
- + same process speed as for other screw fasteners
- + automatic assembly possible due to precise bit guidance
- + not influenced by corrosion

## Variants and designs

- ⊕ Diameter range M3 to M10
- ⊕ System comprised of LocTec® screw and LocTec® screwdriver bit, with or without locking bit

⊕ Standard strength 8.8 and 10.9

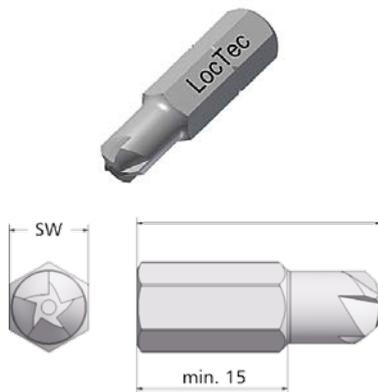
Other strengths such as stainless steel and non-ferrous metals on request

### Head size LocTec® screw \*

Size of screw								LocTec® locking drive
	Ø dk	f	k	Ø dk	k	Ø dk	k	
M3	5.50	0.55	2.10	6.00	2.80	5.50	2.80	15-LI
M4	8.40	0.77	2.70	8.00	3.20	7.00	3.20	20-LI
M5	9.30	0.90	2.70	10.00	3.80	8.50	3.90	25-LI
M6	11.30	1.05	3.30	12.00	4.40	10.00	4.70	30-LI
M8	15.80	1.53	4.70	16.00	5.80	13.00	6.20	45-LI
M10	18.30	1.61	5.00	20.00	7.50	-	-	50-LI

\* Other sizes and variants on request.

### LocTec® Locking bit



Dimen- sions	SW	L <sup>+0,2</sup>	Description
M3	1/4"	25.0	LocTec® 15-LI
M4	1/4"	25.0	LocTec® 20-LI
M5	1/4"	25.0	LocTec® 25-LI
M6	1/4"	25.0	LocTec® 30-LI
M8	5/16"	30.0	LocTec® 45-LI
M10	5/16"	30.0	LocTec® 50-LI

### Thread combinations

	Metric/inch	✓
	Thread rolling screws for metals	✓
	Thread rolling screws for plastics	✓
	Screws for wood and clamping plates	✓
	Sheet metal screws	✓

### Additional thread locks

	mechanical thread lock	✓
	chemical thread lock as per DIN 267-27 DIN 267-28	✓

### Automated fastening

	Threaded end according to standard and customer requirements	✓
	MAThread®	✓

### Special parts

	Threaded pin	✓
	Special parts	✓

# The ARNOLD GROUP

Wherever customers need us.

## The ARNOLD GROUP

ARNOLD – this name is internationally renowned for efficient and sustainable fastening systems on the highest level. With a foundation of many years of expertise in the production of intelligent fastening systems and very complex extruded parts, the ARNOLD GROUP has developed over a number of years into a comprehensive supplier and development partner for complex fastening systems. With our positioning of “BlueFastening Systems” this development process will continue under a united and harmonized structure. Engineering, fasteners, and functional parts, together with feeding and processing systems, all from a single source – efficient, sustainable and international.



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