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www.arnold-fastening.com

ARNOLD®
BlueFastening Systems



Strux HM™

Flexible joining with precision and a high potential for variant reduction

- Material thicknesses from 0.75 mm
- For high Material thicknesses
- For steel and aluminum
- One variant for all applications

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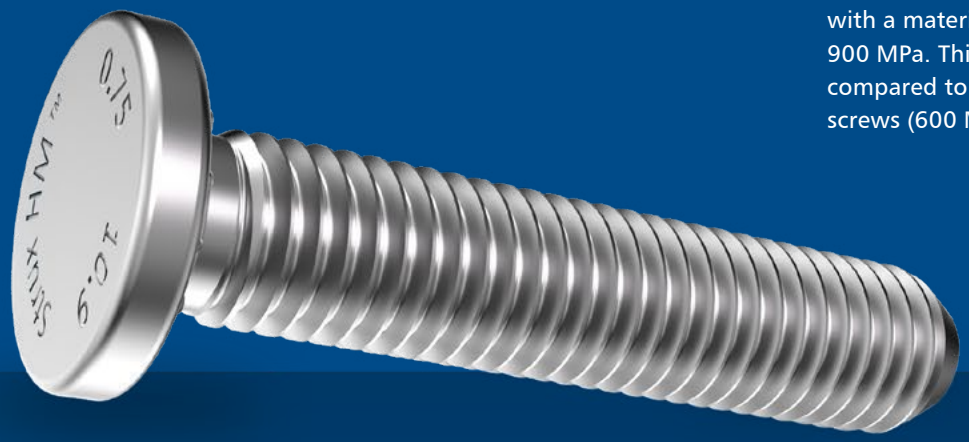
75%

variant reduction

By extending the application limits with the Strux HM™ press-in screw in terms of material thickness and strength, the previously required number of variants can be reduced by 75%.



The Strux HM™ effect

From 0.75 mm material thickness

↘ The Strux HM™ can be used from a material thickness of 0.75 mm. This significantly reduces the number of different elements required for the respective material thickness.

Up to 900 MPa Material strength

↘ The Strux HM™ press-in screw screw can be inserted into components with a material strength of up to 900 MPa. This is a significant increase compared to the previous press-in screws (600 MPa).

Complete solutions from a single source

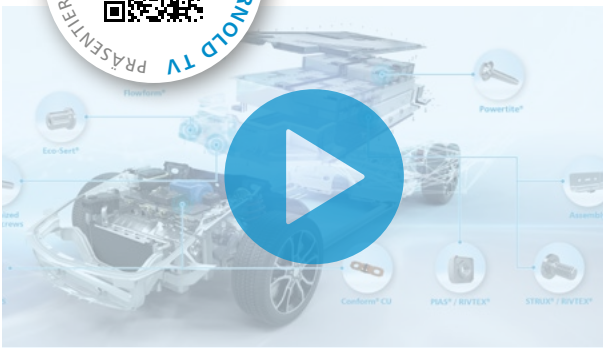
↘ In addition to top-class connecting elements, ARNOLD provides you with perfectly adapted system technology. This means you have a single point of contact for the entire system and receives all components from a single source.

Simple joining geometry

↘ Thanks to the integrated displacement collar of the Strux HM™ on the underside of the head of the press-in screw, a flat joining die can be used.

This means that only one tool is required per nominal diameter to join the press-in screw in different material thicknesses. Due to the simple tool geometry, the service life of the joining die can be significantly increased.

Strux HM™
One for all Material thicknesses





ARNOLD press-in screws
How to save on variants

Previously required variants for material thicknesses
0.75 mm - >2.5 mm (Rivtex® 8.8/10.9 + Strux® 8.8/10.9)

Rivtex® (0.75 mm - 2.5 mm)



Strength class 8.8

- l=10 mm
- l=12 mm
- l=16 mm
- l=20 mm
- l=25 mm

Strength class 10.9

- l=10 mm
- l=12 mm
- l=16 mm
- l=20 mm
- l=25 mm

Strux® (> 2.5 mm)



Strength class 8.8

- l=10 mm
- l=12 mm
- l=16 mm
- l=20 mm
- l=25 mm

Strength class 10.9

- l=10 mm
- l=12 mm
- l=16 mm
- l=20 mm
- l=25 mm

Future variants required for material thicknesses
0.75 mm - >2.5 mm (Strux HM™ 10.9)

Strux HM™ (> 0.75 mm)



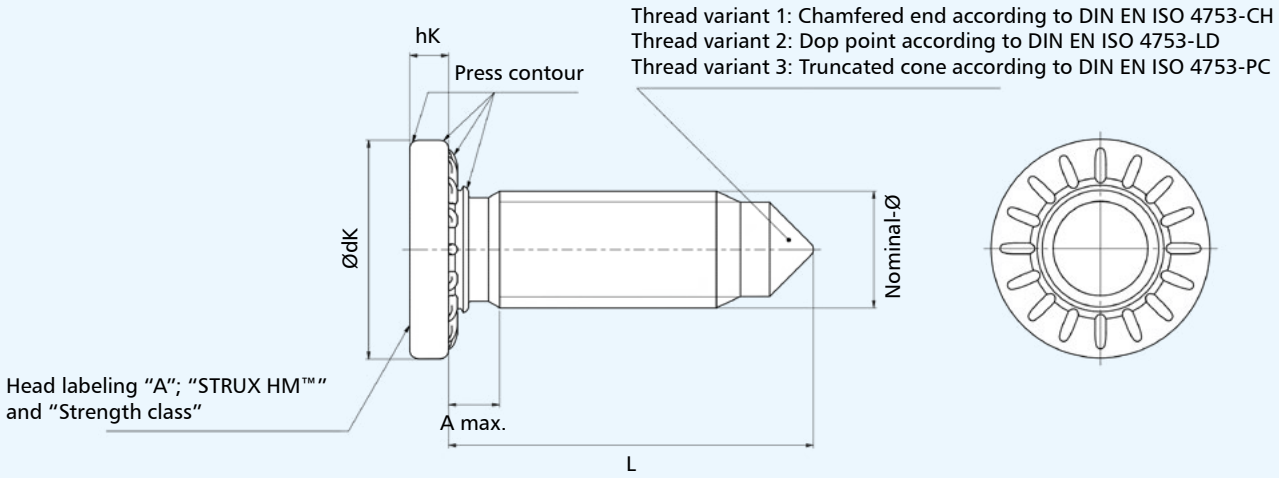
Strength class 10.9

- l=10 mm
- l=12 mm
- l=16 mm
- l=20 mm
- l=25 mm

**To cover the material thickness range from 0.75 mm to >2.5 mm, the number of variants can be reduced by 75% using the Strux HM™ press-fit screws.*

**l = length variant*

Strux HM™ flexible joining with precision
Dimensions and pre-hole Ø



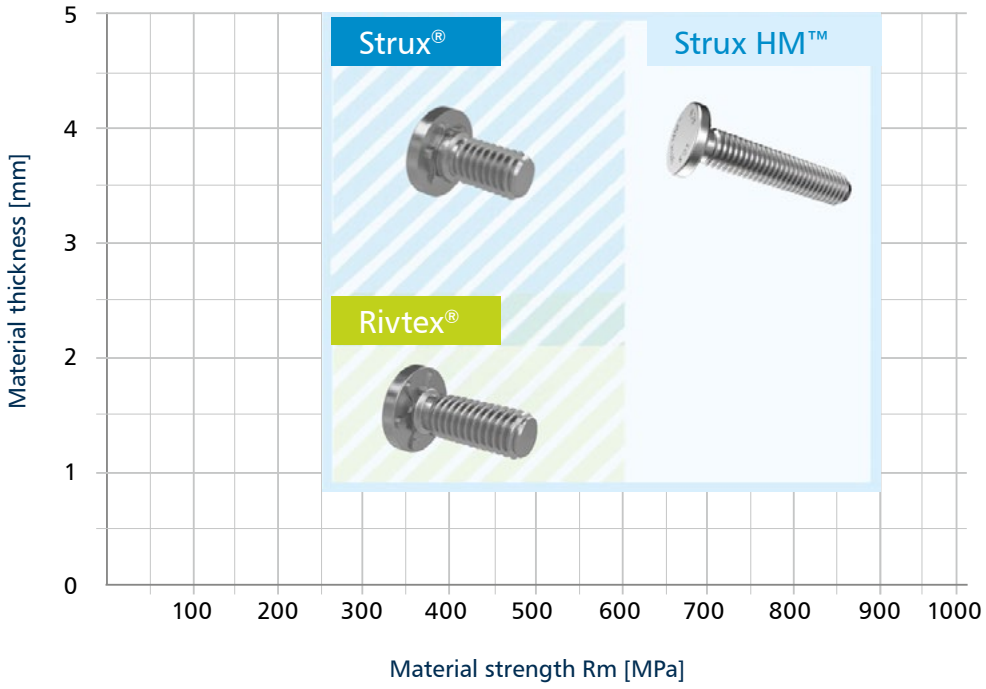
Illustrated thread end: Variant 3

Dimensions Strux HM™
Press-in screws
Screw length

L [mm]	Nominal-Ø [mm]
12	M5 - M6
16	M5 - M10
20	M5 - M10
25	M5 - M10
30	M6 - M10
40	M8 - M10

Nominal-Ø thread Strux HM™	Ø dK [mm]	hK [mm]	A max. [mm]	Sheet thickness [mm]	Pre-hole Ø sheet metal [mm]
M5	9.50 ±0.25	1.50 ±0.1	2.90	from 0.75	5.7 ±0.05
M6	11.25 ±0.25	1.80 ±0.1	3.40	from 0.75	6.7 ±0.05
M8	14.75 ±0.25	2.55 ±0.1	3.90	from 0.75	8.7 ±0.05
M10	18.25 ±0.25	3.10 ±0.1	4.60	from 1.0	10.7 ±0.05

Application area of the Strux HM™ press-in screw from 0.75 mm to 900 MPa



Rivtex®

Material thickness
0.75 - 2.5 mm
Material
250 - 600 MPa

Strux®

Material thickness
from 2.0 mm
Material
250 - 600 MPa

Strux HM™

Material thickness
from 0.75 mm
Material
250 - 900 MPa

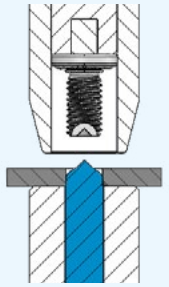
Technical advantages of the Strux HM™
All information on how it works

Strux HM™
Benefits

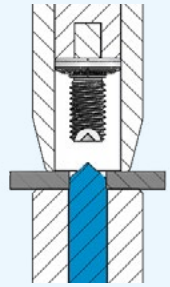
Sheet thickness [mm]	Strength class	Material strength [MPa]
from 0.75	10.9	Up to 900

- High corrosion resistance
- No thermal influence on the joints
- Material thickness from 0.75 mm
- Different surface systems
- Containment of the variety of variants
- Expanding application boundaries
- Enables hybrid connections
- High overtorque due to underhead geometry
- Flexible joining into various materials (up to 900 MPa)
- Process reliability in assembly and operation
- Short cycle times < 3s
- Flexible processing technology
- Variable tip geometries
- Available in sizes M5-M10 (other dimensions on request)
- Only in 10.9 Strength class available
- IPX7 water resistance possible
- Flexible joining of several Material thicknesses with one system
- Long service life of the joining dies
- Lower storage costs due to variant reduction
- Extension of the application limits to Material strengths of up to 900 MPa

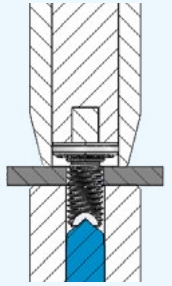
Functional sequence



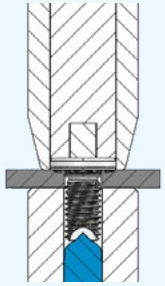
01. Positioning



02. Hold Down

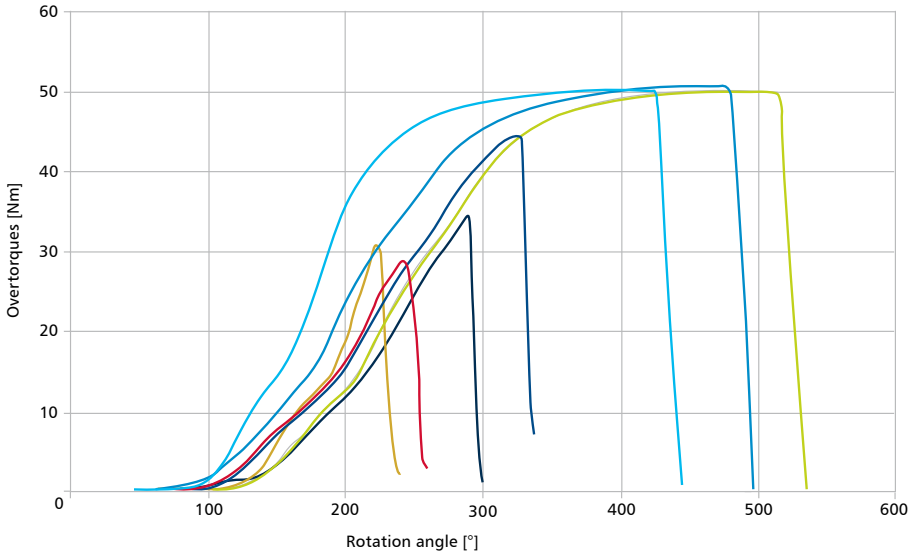


03. Find

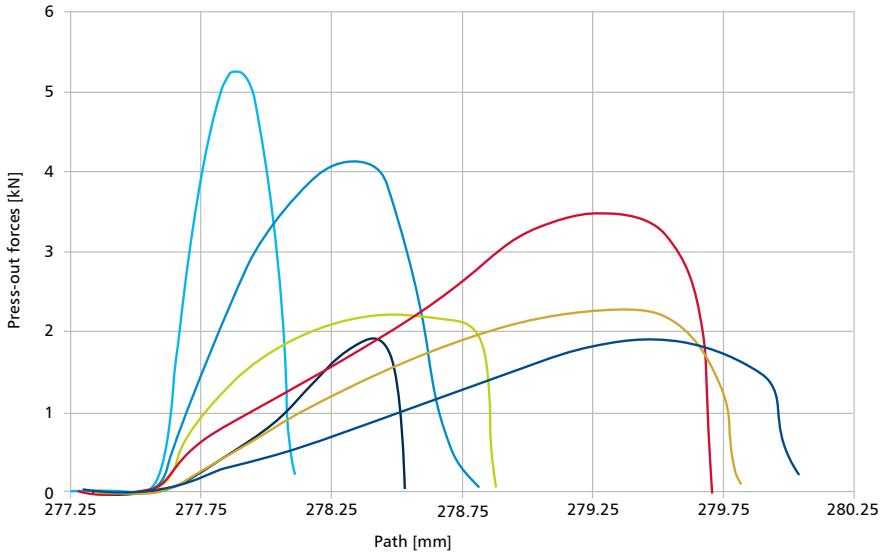


04. Joining

Strux HM™ M8
Overtorques



Strux HM™ M8
Press-out forces



- **CR330Y590T-DP**
  Rm=630 MPa
  t=0.8 mm
- **CR590Y980-DP**
  Rm=850 MPa
  t=1.0 mm
- **CR300LA**
  Rm=480 MPa
  t=2.0 mm
- **CR340LA**
  Rm=530 MPa
  t=4.0 mm
- **DP800**
  Rm=820 MPa
  t=0.8 mm
- **CR300LA**
  Rm=480 MPa
  t=2.0 mm
- **AL6 HDI**
  Rm=250 MPa
  t=2.5 mm

Subject to technical changes.
The values shown are only examples.
Necessary and occurring values must be examined in the original component.

Notes



ARNOLD®
BlueFastening Systems

The ARNOLD GROUP

www.arnold-fastening.com

Wherever customers need us.

ARNOLD – this name is internationally renowned for efficient and sustainable fastening systems at 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 harmonised structure. Engineering, services, fasteners and functional parts, together with feeding and processing systems, all from a single source – efficient, sustainable and international.

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