



## Your own toolbox

Engineers use nuts and bolts in their designs every single day.

Then why are proper 3D fastener models so hard to come by?

The standard toolbox from SOLIDWORKS doesn't work well for most companies. These 3D models have way too many restrictions. For example, sharing models with customers and suppliers is not possible without a license. That is why we developed our own library.

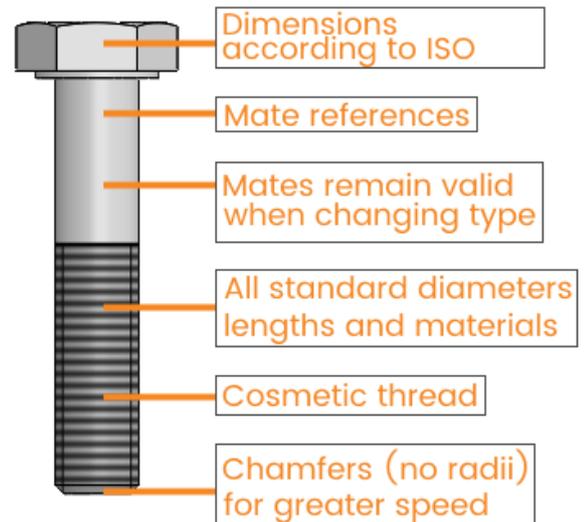
## Our vision

In our opinion, fastener models should have the following properties:

- Correct dimensions
- Very fast
- Freely shareable
- Native SOLIDWORKS models, so not imported

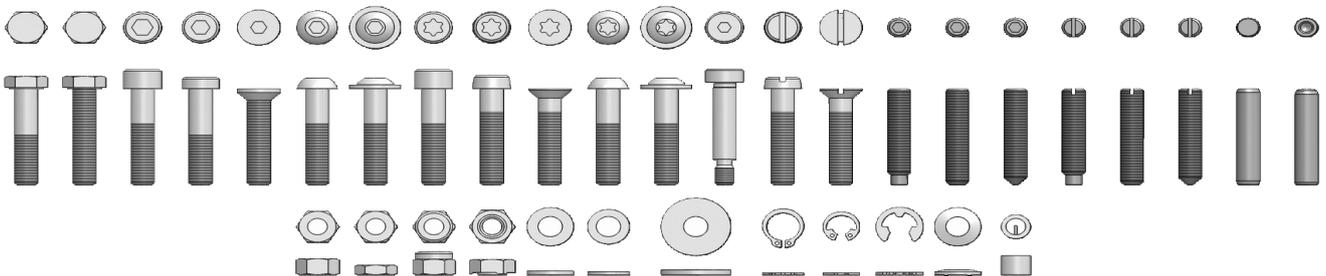
To meet these requirements, we spent more than 400 hours on developing software that can generate 3D models. Right now it can create thousands of models across 40+ fastener types. It also detects anomalies in the model to make sure every single file is perfect.

To make sure all dimensions and configurations are correct, we bought and ploughed through all relevant ISO and DIN norms. We obtained a license from NEN, the Dutch arm of ISO, so we can offer our customers access to the information in their norms at a great discount.



## Advantages of our fastener library

- Generated by software for great consistency
- Optimized for speed to make sure large assemblies remain snappy
- Data is taken directly from ISO and DIN norms to make sure the models are correct
- Purchase our library once and don't pay any further license fees.



## Properties

- *Native models*, generated by a SOLIDWORKS version of your choice
- One configuration per file so the models are as fast as they can be
- Mate references so mates are added automatically when you drag a fastener into an assembly
- Mates remain valid, even when you switch between different types
- Material and coating are specified
- We can add order codes and other company-specific information in custom properties

## Available standards

This page contains a list of the more than 40 norms that our software can currently generate models for. Are you looking for a type that isn't in the list yet? Just let us know and we'll add it for a very reasonable price.

Hexagon head	
ISO 4014	Hexagon head
ISO 4017	Hexagon head, full thread
ISO 8676	Hexagon head, fine pitch thread
ISO 8765	Hexagon head, full thread, fin pitch

Hexagon socket cap	
ISO 4762	Hexagon socket head cap
ISO 7380-1	Hexagon socket button head
ISO 7380-2	Hexagon socket button head with flange
ISO 10642	Hexagon socket countersunk head
ISO 12474	Hexagon socket, fine pitch thread
DIN 7984	Hexagon socket head cap, low head

Hexalobular head (torx)	
~ISO 7380-1	Hexalobular socket button head
~ISO 7380-2	Hexalobular socket button head with flange
ISO 14579	Hexalobular socket head cap
~ISO 14579	Hexalobular socket, fine pitch thread
ISO 14580	Hexalobular socket head cap, cheese head
ISO 14581	Hexalobular socket countersunk head

Fit bolts	
ISO 7379	Hexagon socket head shoulder screw. H8 and F9

Slotted screws	
ISO 1207	Slotted cheese head screw
ISO 2009	Slotted countersunk flat head screw

Set screws	
ISO 4026	Hexagon socket set screw, flat point
ISO 4027	Hexagon socket set screw, cone point
ISO 4028	Hexagon socket set screw, dog point
ISO 4766	Slotted set screw, flat point
ISO 7434	Slotted set screw, cone point
ISO 7435	Slotted set screw, long dog point

Nuts	
ISO 4032	Hexagon regular nut
ISO 8673	Hexagon regular nut, fine pitch thread
ISO 4035	Hexagon thin nut
ISO 8675	Hexagon regular nut, fine pitch thread
ISO 10511	Prevailing torque nut with nylon insert
DIN 929	Hexagon weld nut

Washers	
ISO 7089	Plain washer, normal
ISO 7092	Plain washer, small
ISO 7093	Plain washer, large
DIN 471	Retaining ring for shafts
DIN 472	Retaining ring for bores
DIN 6799	Retaining washer for shafts

Pins	
ISO 2338	Parallel pin, unhardened, m6 and h8
ISO 8734A	Parallel pin, hardened, m6 and h6
ISO 8735A	Parallel pin, hardened, internal thread, m6

Inserts	
DIN 8140-1A	Wire thread insert