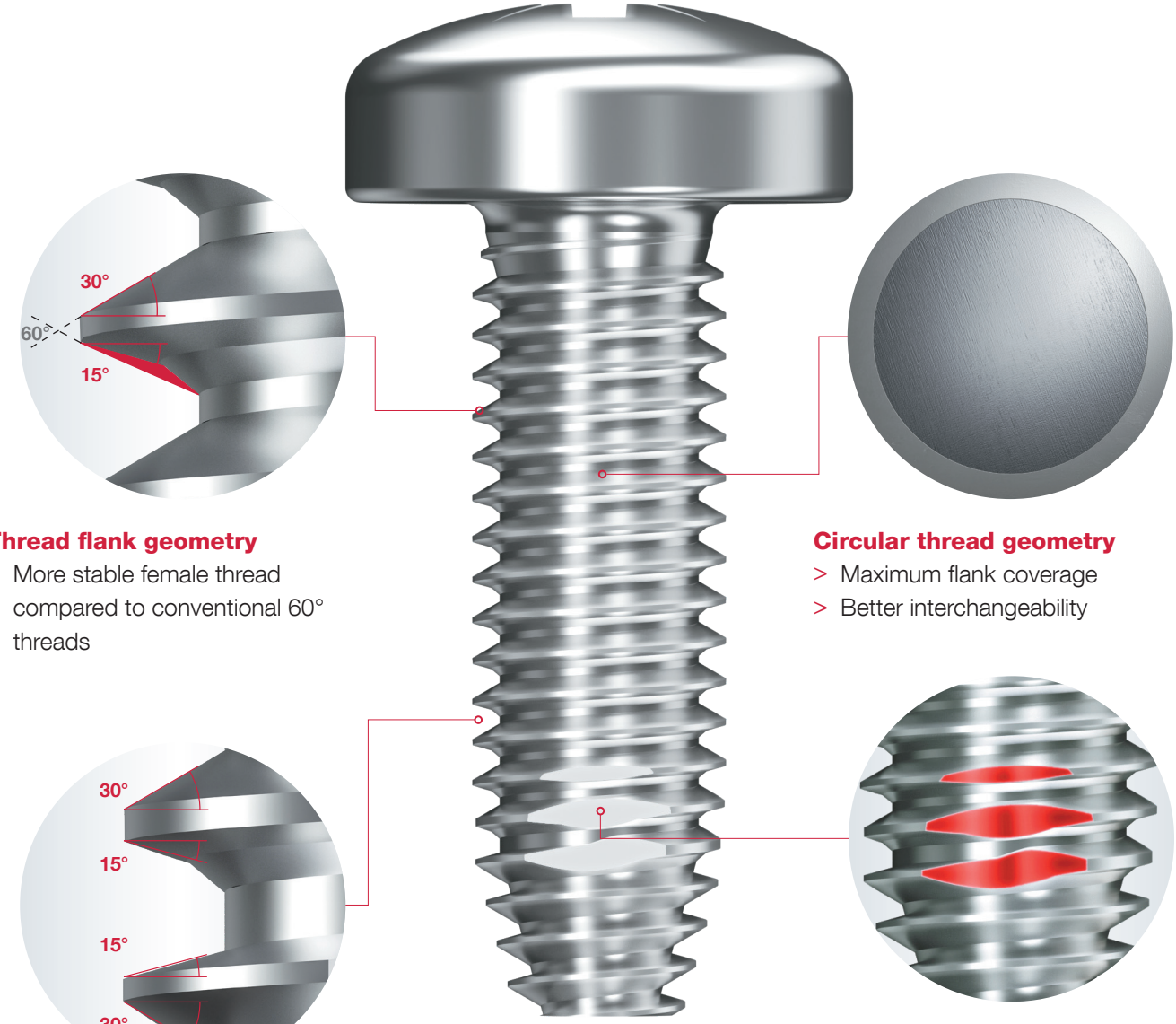
SHEETtracs®

Safe assembly of thin sheet metal with pilot-hole

The EJOT SHEETtracs® is a self tapping screw for safe mounting of thin sheet metal joints with pilot hole. The reduced screw fl ank angle of 45° creates a more stable female thread compared to common 60° threads. This way the torque level is increased and a secure thin sheet metal assembly is possible.

Advantages

> High strength of the screw joint
> High vibration resistance
> Simple and safe assembly due to good alignment and low installation torque
> High stripping torque due to a robust female thread
> Metric compatibility



Thread flank geometry

> More stable female thread compared to conventional 60° threads

Circular thread geometry

> Maximum flank coverage
> Better interchangeability

Reversed flank angle

> Forming the through draught in fastening direction

Non-circular thread forming zone

> Easy and simple application of the screw
> Reliable penetration into the material

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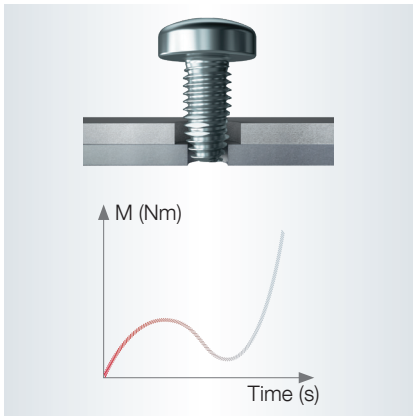
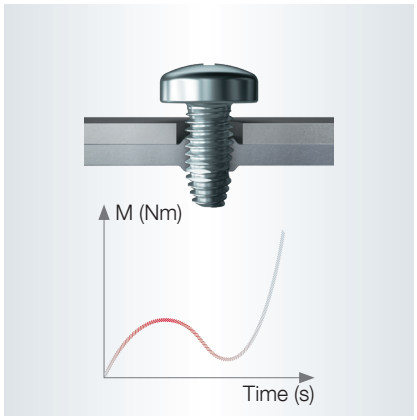
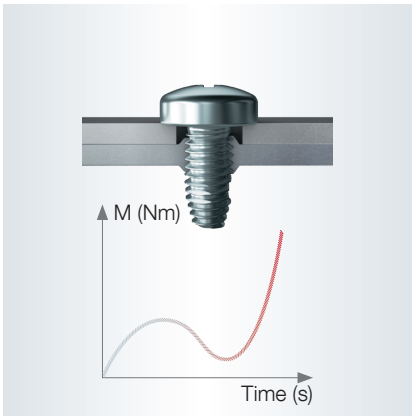
Steps of joining



1. Positioning



2. Thread forming



3. Tightening

Recommended pilot hole diameter and tightening torque

		Steel DC04 according to DIN EN 10130 Screw surface: zinc-plated blue (A3K)			Aluminium EN AW-6060-T6 Screw surface: zinc-plated blue (A3K)			
SHEET-tracs®	Outer Ø d_1 [mm]	Sheet thickness s [mm]	Pilot hole Ø d_V [mm] (Tolerance: ± 0.05)	Tightening torque M_A [Nm]	Sheet thickness s [mm]	Pilot hole Ø d_V [mm] (Tolerance: ± 0.05)	Tightening torque M_A [Nm]	Clearance hole Ø d_D [mm]
30	3.0	0.6	2.3	1.0	0.50	1.8	0.6	4.5
		0.8	2.4	1.3	0.75	1.9	0.9	
		1.0	2.5	1.6	1.00	2.0	1.2	
		1.2	2.6	1.8	1.25	2.1	1.5	
		1.4	2.7	1.9	1.50	2.2	1.7	
40	4.0	0.6	3.0	1.2	1.00	2.7	1.7	6.0
		0.8	3.2	1.8	1.25	2.8	2.1	
		1.0	3.3	2.3	1.50	2.9	2.4	
		1.2	3.4	2.8	1.75	3.0	2.7	
		1.4	3.5	3.1	2.00	3.2	3.0	
		1.8	3.7	3.6	2.50	3.3	3.5	
50	5.0	0.6	3.8	2.9	1.00	3.4	2.5	7.0
		0.8	4.0	3.1	1.25	3.5	3.2	
		1.0	4.2	3.4	1.50	3.6	3.9	
		1.2	4.3	3.8	2.00	4.0	5.0	
		1.6	4.5	4.9	2.50	4.2	5.7	
		2.0	4.6	6.7	3.00	4.3	6.2	
60	6.0	0.8	4.7	3.3	1.00	3.9	3.2	8.0
		1.0	4.9	3.8	1.25	4.1	4.0	
		1.2	5.1	4.3	1.50	4.3	4.7	
		1.4	5.2	5.0	2.00	4.7	6.0	
		1.6	5.3	5.8	2.50	5.0	7.2	
		2.0	5.5	7.6	3.00	5.5	8.2	

Recommended fastening speed: 300 - 500 rpm (depending on the screw diameter). Material strengths and thicknesses and the effects of friction have a major influence on the specified guide values. Tests under original conditions are therefore strongly recommended for validation. Our online tool SHEETtracs® Application Check at www.ejot.com enables optimal screw joint design (including other materials).

More informationen at www.ejot.com/industry or please contact
EJOT Hotline: phone: +49 2751 529-123, e-mail: hotline@ejot.com

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03.21/PDF12.23 Subject to technical changes.