

# ETP-MINI®

## Quick compact fastening of small components

ETP-MINI is a mechanical connection which is the best choice for mounting small components quick and easy. Far superior to keyways or setscrews as it gives an adjustable, backlash free joint.

ETP-MINI is also available in stainless, type R, suitable for the food and medical industries.



ETP-MINI is available as standard for shafts 6 -14 mm, also imperial. Runout  $\leq 0,02$  mm. Number of mountings 100 (type R: 50). ETP-MINI is one of the most compact mechanical hub-shaft connections on the market, allowing you to optimise your design.

### Construction

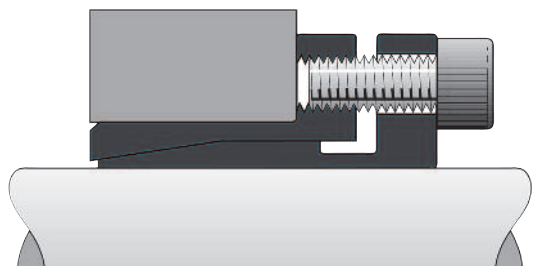
ETP-MINI is a mechanical connection which consists of two, partly slotted, conical steel sleeves (type R stainless) and cap head clamping screws (type R stainless).

### Operation

By tightening the screws, the inner sleeve is pressed against the shaft and the outer sleeve against the hub, thus forming a rigid joint. When dismantling one, or if necessary, two of the screws are moved to the threaded dismantling holes in the flange. By tightening, the sleeves will separate and the joint will easily loosen. ETP-MINI type R has one screw more than ETP-MINI in order to transmit the same torque (lower tightening torque for stainless screws).

## BENEFITS & FEATURES

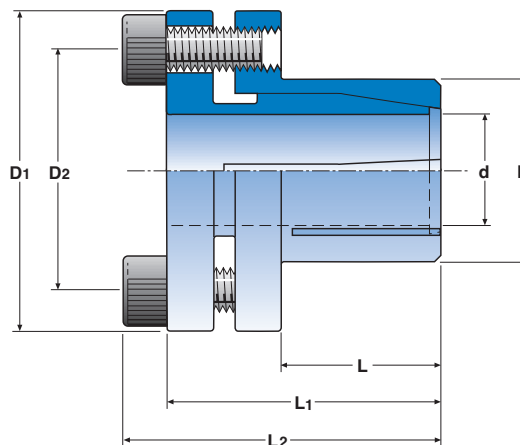
- Quick and easy mounting.
- Good runout.
- Allows wide tolerances.
- Available in stainless steel (type R).
- For ETP-MINI R – stainless hex head screws available as accessories.



*The inner sleeve of ETP-MINI has a light recess close to the flange in order to create a more uniform surface pressure to the shaft.*



*ETP-MINI R, suitable for the food industry.*



Notation: ETP-MINI XX

### Technical Specification ETP-MINI

ETP-MINI	Dimensions							Transmittable torque or axial force		Screws DIN 912, 12.9			Polar moment of inertia $J$ $\text{kgm}^2 \cdot 10^{-6}$	Weight kg
	d mm	D mm	D <sub>1</sub> mm	D <sub>2</sub> mm	L mm	L <sub>1</sub> * mm	L <sub>2</sub> * mm	T Nm	F <sub>A</sub> kN	No.	Dim.	Tt Nm		
6	6	14	25	18	10	19	22	7	2,5	2	M3	2	2,1	0,03
1/4"	6,35	14	25	18	10	19	22	8	2,5	2	M3	2	2,1	0,03
8	8	15	27	20	12	21,5	25,5	20	5	2	M4	4	3,3	0,04
9	9	16	28	21	14	24	28	28	6,5	2	M4	4	4,4	0,05
3/8"	9,525	16	28	21	14	24	28	30	6,5	2	M4	4	4,4	0,05
10	10	16	28	21	14	24	28	34	6,5	2	M4	4	4,3	0,05
11	11	18	30	23	14	25,5	29,5	36	6,5	2	M4	4	6,2	0,06
12	12	18	30	23	14	25,5	29,5	40	6,5	2	M4	4	6,1	0,06
1/2"	12,7	18	30	23	14	25,5	29,5	42	6,5	2	M4	4	6,0	0,06
14	14	22	35	27	15	27,5	31,5	66	9,5	3	M4	4	13,2	0,08

$T$  = Transmittable torque when axial force is 0. } When the screws are tightened to  $T_t$ .  
 $F_A$  = Transmittable axial force when torque is 0. }  
 $T_t$  = Recommended tightening torque for the screws.

\*) The dimensions are valid before mounting.

Dimensions subject to alternations without notice.



Notation: ETP-MINI R-XX

### Technical Specification ETP-MINI type R

ETP-MINI®	Dimensions							Transmittable torque or axial force		Screws **) DIN 912, A4			Polar moment of inertia $J$ $\text{kgm}^2 \cdot 10^{-6}$	Weight kg
	d mm	D mm	D <sub>1</sub> mm	D <sub>2</sub> mm	L mm	L <sub>1</sub> * mm	L <sub>2</sub> * mm	T Nm	F <sub>A</sub> kN	No.	Dim.	Tt Nm		
R-6	6	14	25	18	10	19	22	5	1,7	3	M3	1,2	2,1	0,03
R-8	8	15	27	20	12	21,5	25,5	17	4,4	3	M4	2,7	3,3	0,04
R-9	9	16	28	21	14	24	28	20	4,4	3	M4	2,7	4,4	0,05
R-10	10	16	28	21	14	24	28	23	4,4	3	M4	2,7	4,3	0,05
R-11	11	18	30	23	14	25,5	29,5	25	4,4	3	M4	2,7	6,2	0,06
R-12	12	18	30	23	14	25,5	29,5	27	4,4	3	M4	2,7	6,1	0,06
R-1 1/2"	12,7	18	30	23	14	25,5	29,5	28	4,4	3	M4	2,7	6,1	0,06
R-14	14	22	35	27	15	27,5	31,5	48	6,5	4	M4	2,7	13,2	0,08

$T$  = Transmittable torque when axial force is 0. } When the screws are tightened to  $T_t$ .  
 $F_A$  = Transmittable axial force when torque is 0. }  
 $T_t$  = Recommended tightening torque for the screws.

\*) The dimensions are valid before mounting.

Dimensions subject to alternations without notice.

#### TOLERANCES

Shaft: k6-h10.  
Hub: H8.

#### MATERIAL FOR TYPE R

Euronorm 1.4305, stainless steel, X10CrNiS18-9.

\*\*)Screws: surface coated for a low and even friction in the threads.

#### MOUNTING ADVICE

Make sure the screw threads for type R are well lubricated before each mounting. We recommend the use of Molykote P-1900.