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Threaded Inserts • heavy

EH 22900.



Product Description

Reinforced threaded inserts are used wherever reliable and durable screw connections are required - for example in machine and plant construction, in tool making and mould construction as well as in other technically demanding applications.
These threaded inserts have been specially developed for applications that generate high loads and call for a particularly secure and durable screw connection.
They are ideal for the production of female threads in soft or thin-walled materials (e.g. aluminium) and offer a reliable economical solution for numerous applications in machine and fixture construction - in addition to offering a simple and fast solution for repairing damaged threads. Equally well-suited for series production and for maintenance, servicing and repair work, the threaded inserts support secure assembly.
The reinforced threaded inserts allow for the creation of reliable and durable screw connections. The high-quality materials reduce wear and make it possible to screw the screw in and out repeatedly without impairing the quality of the thread.
Their robust design allows the reinforced threaded inserts to deliver increased load-bearing capacity and improved anchoring in the base material. The result is resilient female threads that substantially reduce the risk of thread tear or material fatigue even if subjected to frequent screw changes or the impact of vibrations.
These threaded inserts, heavy available in various sizes are made of steel/stainless steel. The construction is designed so that mounting and dismantling can be carried out particularly quickly, safely and without damaging the material.

Material

Body
- Free cutting steel, phosphated
- Stainless steel, passivated

Pin
- Stainless steel

Assembly

Mounting
1. Drill (D_1 corresponding to the thread diameter d_2/D_3) to the thread depth specified in the product table.
2. Countersink as specified in the table.
3. Cut a thread to the depth specified in the table.
4. Place the insert 0.3 to 0.7 mm below the surface.
5. Drive in the protruding pins using the appropriate assembly tool.

Dismantling
The threaded inserts can be removed without damaging the workpiece.
1. Drill out the threaded insert according to the dimensions specified in the product table under "Dismantling (drilling out)".
2. Remove the pins by bending them downwards.
3. Then remove the threaded insert using a suitable tool, e.g. a left-hand screw extractor (screw extractor for stuck screws).

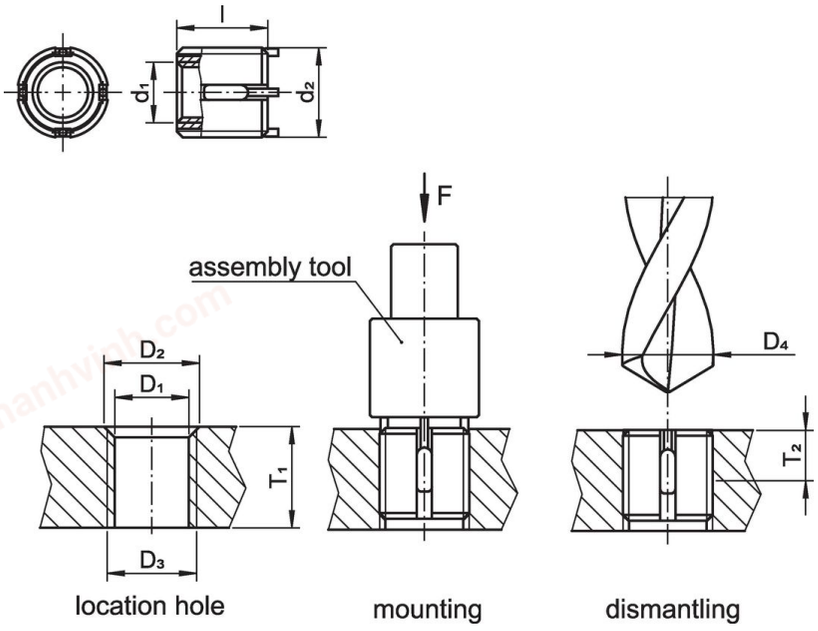
More information

Notes

Male thread d_2 is not true to gauge.

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Drawing



Order information

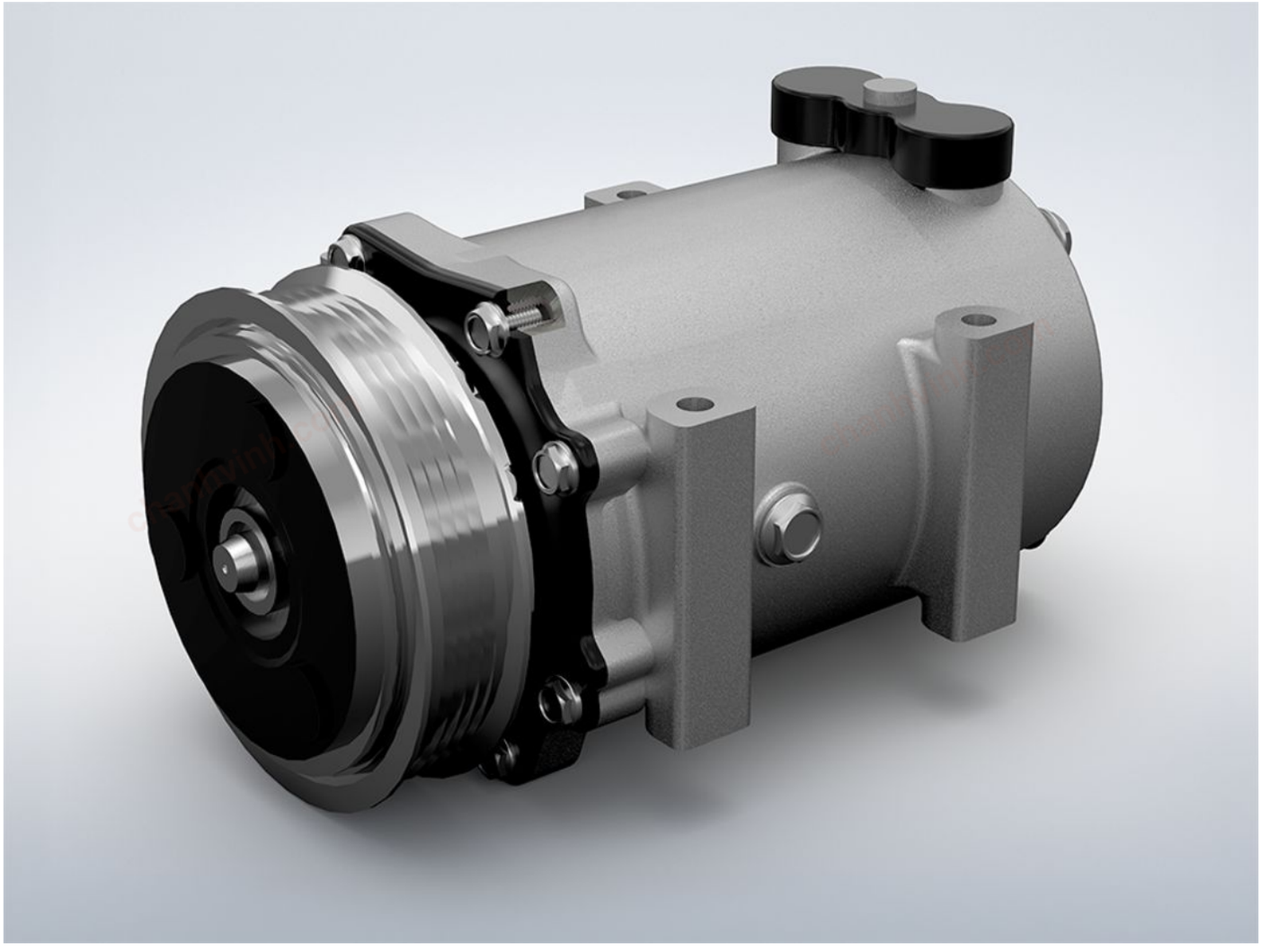
Dimensions			Location hole				Dismantling (drilling out)			Art. No.
d_1	d_2	l	D_1	D_2 +0.25 0	D_3	T_1	D_4	T_2		
[mm]			[mm]				[mm]		[g]	
Free cutting steel										
M 4 x 0,7	M 8 x 1,25	8	6.90	8.25	M 8 x 1,25	9.5	5.50	4.00	2.0	22900.0004
M 5 x 0,8	M10 x 1,25	10	8.80	10.25	M10 x 1,25	12.5	7.50	4.75	4.0	22900.0005
M 6 x 1,0	M12 x 1,25	12	10.80	12.25	M12 x 1,25	14.5	9.50	4.75	6.9	22900.0006
M 8 x 1,0	M14 x 1,5	14	12.80	14.25	M14 x 1,5	16.5	11.50	4.75	9.1	22900.0108
M 8 x 1,25	M14 x 1,5	14	12.80	14.25	M14 x 1,5	16.5	11.50	4.75	9.3	22900.0008
M10 x 1,25	M16 x 1,5	16	14.75	16.25	M16 x 1,5	18.5	13.50	4.75	13.0	22900.0110
M10 x 1,5	M16 x 1,5	16	14.75	16.25	M16 x 1,5	18.5	13.50	4.75	13.0	22900.0010
M12 x 1,25	M18 x 1,5	18	16.75	18.25	M18 x 1,5	20.5	15.50	4.75	17.0	22900.0112
M12 x 1,75	M18 x 1,5	18	16.75	18.25	M18 x 1,5	20.5	15.50	4.75	18.0	22900.0012
M16 x 1,5	M22 x 1,5	22	20.50	22.25	M22 x 1,5	24.5	17.75	6.35	26.0	22900.0116
M16 x 2,0	M22 x 1,5	22	20.50	22.25	M22 x 1,5	24.5	17.75	6.35	26.0	22900.0016
M20 x 1,5	M30 x 2,0	30	28.00	30.25	M30 x 2,0	34.5	25.75	6.35	87.0	22900.0120
M20 x 2,5	M30 x 2,0	30	28.00	30.25	M30 x 2,0	34.5	25.75	6.35	90.0	22900.0020
M24 x 2,0	M33 x 2,0	33	31.00	33.25	M33 x 2,0	37.5	28.75	6.35	94.0	22900.0124
M24 x 3,0	M33 x 2,0	33	31.00	33.25	M33 x 2,0	37.5	28.75	6.35	104.0	22900.0024
Stainless steel										
M 4 x 0,7	M 8 x 1,25	8	6.90	8.25	M 8 x 1,25	9.5	5.50	4.00	2.0	22900.2004
M 5 x 0,8	M10 x 1,25	10	8.80	10.25	M10 x 1,25	12.5	7.50	4.75	3.9	22900.2005
M 6 x 1,0	M12 x 1,25	12	10.80	12.25	M12 x 1,25	14.5	9.50	4.75	6.9	22900.2006
M 8 x 1,0	M14 x 1,5	14	12.80	14.25	M14 x 1,5	16.5	11.50	4.75	13.0	22900.2108
M 8 x 1,25	M14 x 1,5	14	12.80	14.25	M14 x 1,5	16.5	11.50	4.75	9.6	22900.2008
M10 x 1,25	M16 x 1,5	16	14.75	16.25	M16 x 1,5	18.5	13.50	4.75	13.0	22900.2110
M10 x 1,5	M16 x 1,5	16	14.75	16.25	M16 x 1,5	18.5	13.50	4.75	13.0	22900.2010
M12 x 1,25	M18 x 1,5	18	16.75	18.25	M18 x 1,5	20.5	15.50	4.75	16.0	22900.2112
M12 x 1,75	M18 x 1,5	18	16.75	18.25	M18 x 1,5	20.5	15.50	4.75	18.0	22900.2012
M16 x 1,5	M22 x 1,5	22	20.50	22.25	M22 x 1,5	24.5	17.75	6.35	25.0	22900.2116
M16 x 2,0	M22 x 1,5	22	20.50	22.25	M22 x 1,5	24.5	17.75	6.35	29.0	22900.2016
M20 x 1,5	M30 x 2,0	30	28.00	30.25	M30 x 2,0	34.5	25.75	6.35	88.0	22900.2120
M20 x 2,5	M30 x 2,0	30	28.00	30.25	M30 x 2,0	34.5	25.75	6.35	84.0	22900.2020
M24 x 2,0	M33 x 2,0	33	31.00	33.25	M33 x 2,0	37.5	28.75	6.35	100.0	22900.2124
M24 x 3,0	M33 x 2,0	33	31.00	33.25	M33 x 2,0	37.5	28.75	6.35	101.0	22900.2024

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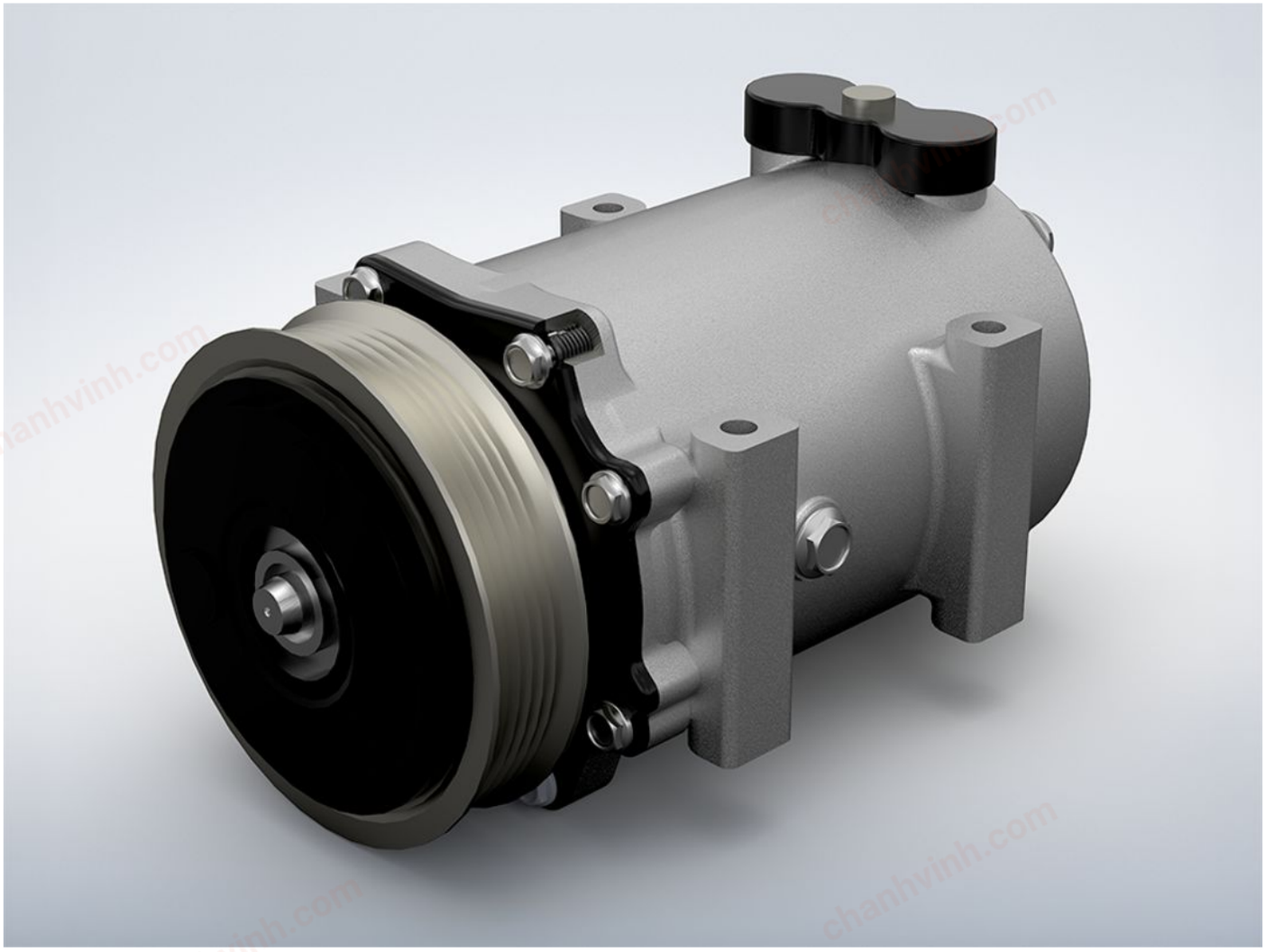
Accessories

	d_1 [mm]	Suitable for size	[g]	Art. No.
mounting tool for the following sizes				
	**M 4**	22900.0004, 22900.2004	20	**22900.0604**
	M 5	22900.0005, 22900.2005	29	**22900.0605**
	M 6	22900.0006, 22900.2006	39	**22900.0606**
	M 8	22900.0008, 22900.0108, 22900.2008, 22900.2108	53	**22900.0608**
	M10	22900.0010, 22900.0110, 22900.2010, 22900.2110	66	**22900.0610**
	M12	22900.0012, 22900.0112, 22900.2012, 22900.2112	59	**22900.0612**
	M16	22900.0016, 22900.0116, 22900.2016, 22900.2116	127	**22900.0616**
	M20	22900.0020, 22900.0120, 22900.2020, 22900.2120	223	**22900.0620**
	M24	22900.0024, 22900.0124, 22900.2024, 22900.2124	271	**22900.0624**

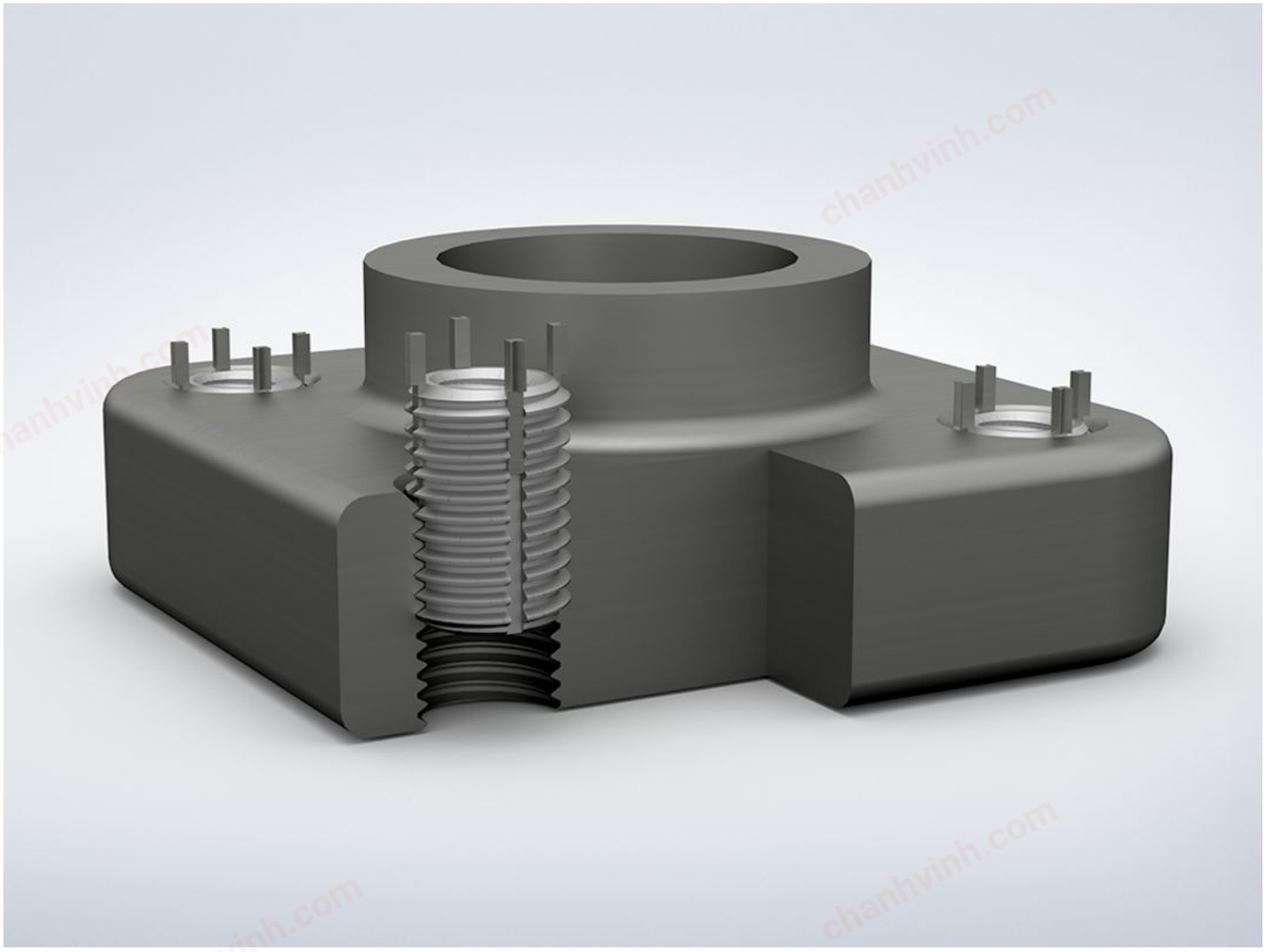
Application example



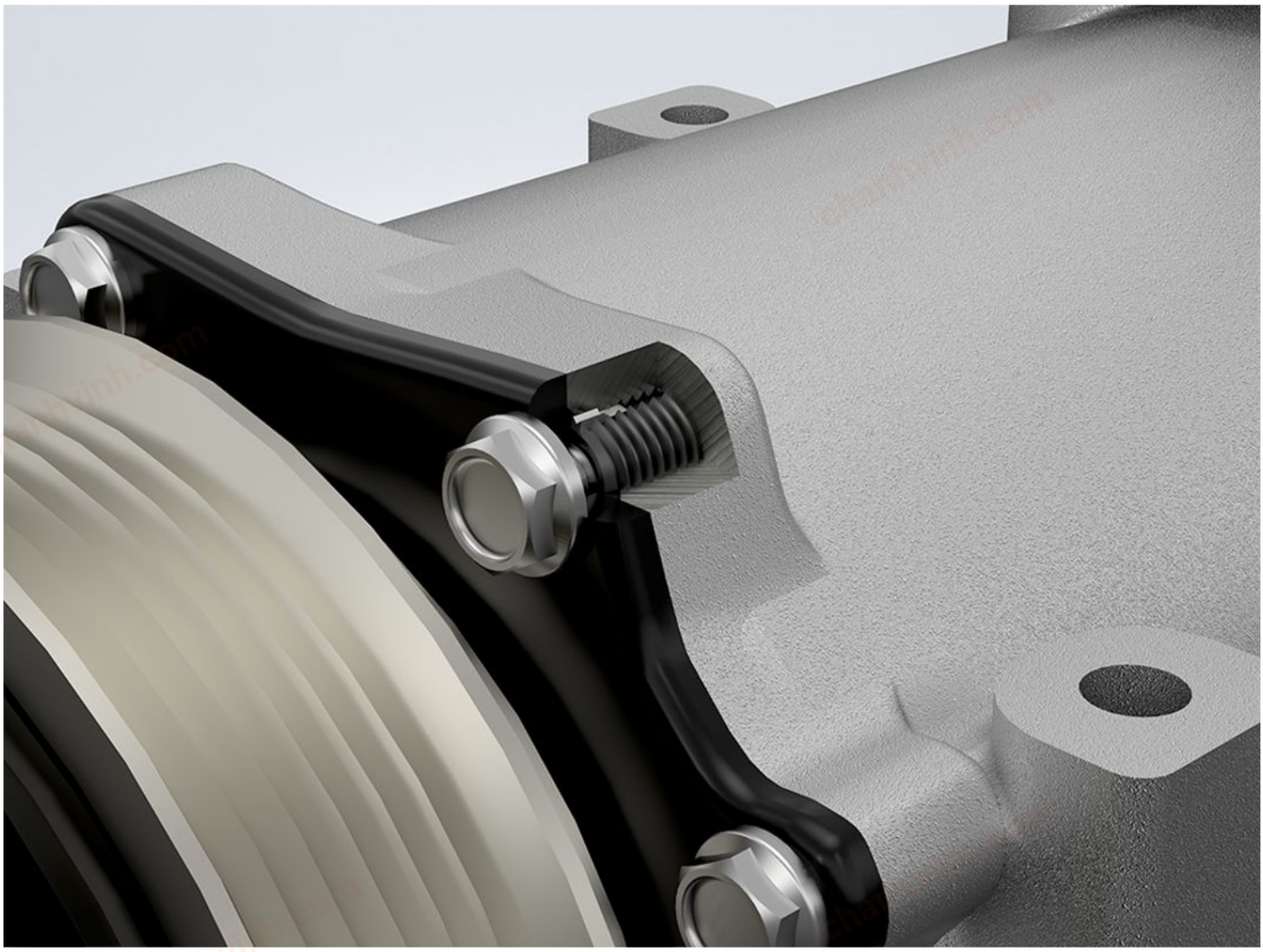
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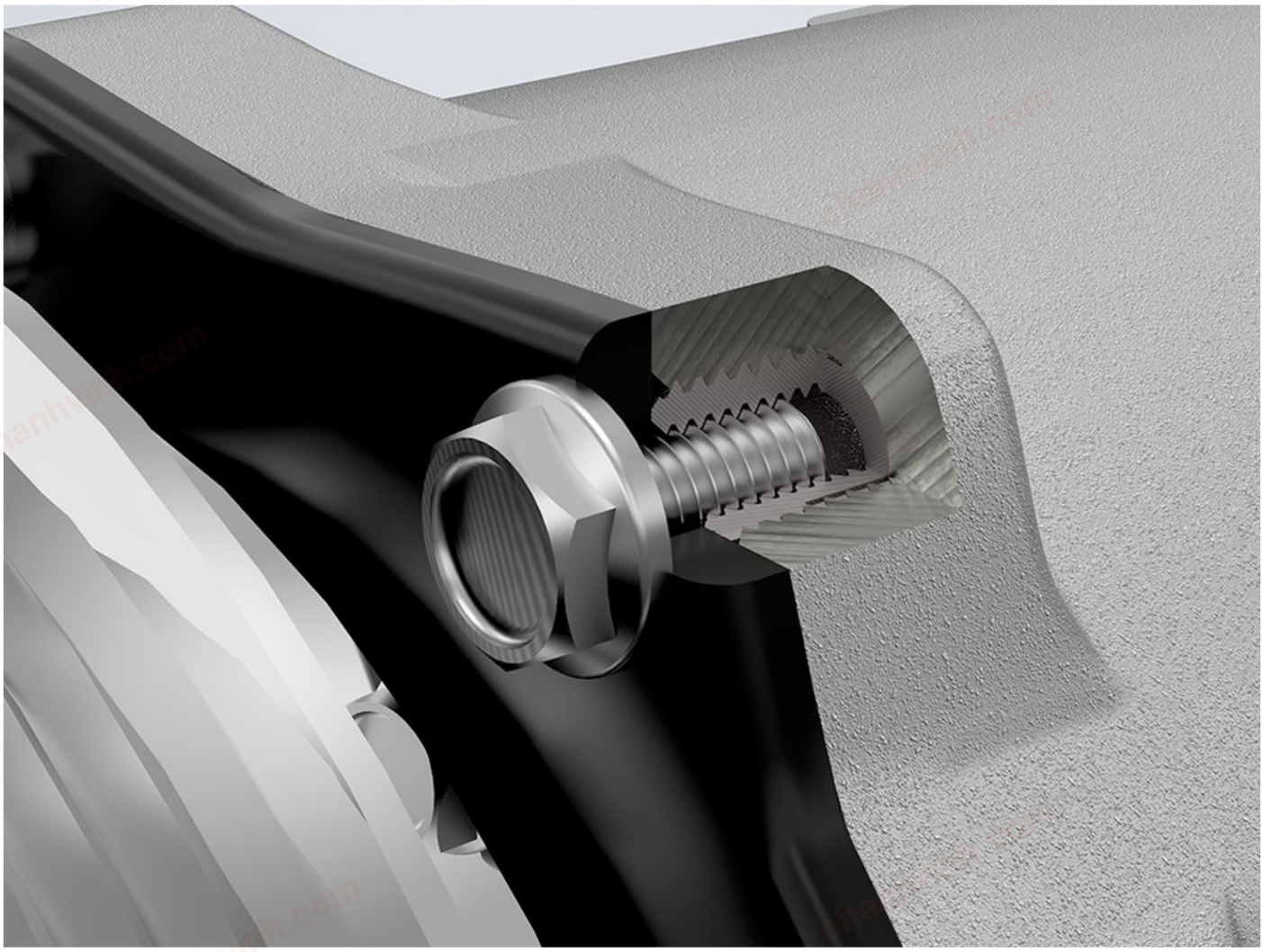
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Compliance

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