

## MOUNTING OF A MOTOR AND FLANGE TO A LINEAR MOTION SYSTEM

**THOMSON**<sup>TM</sup>

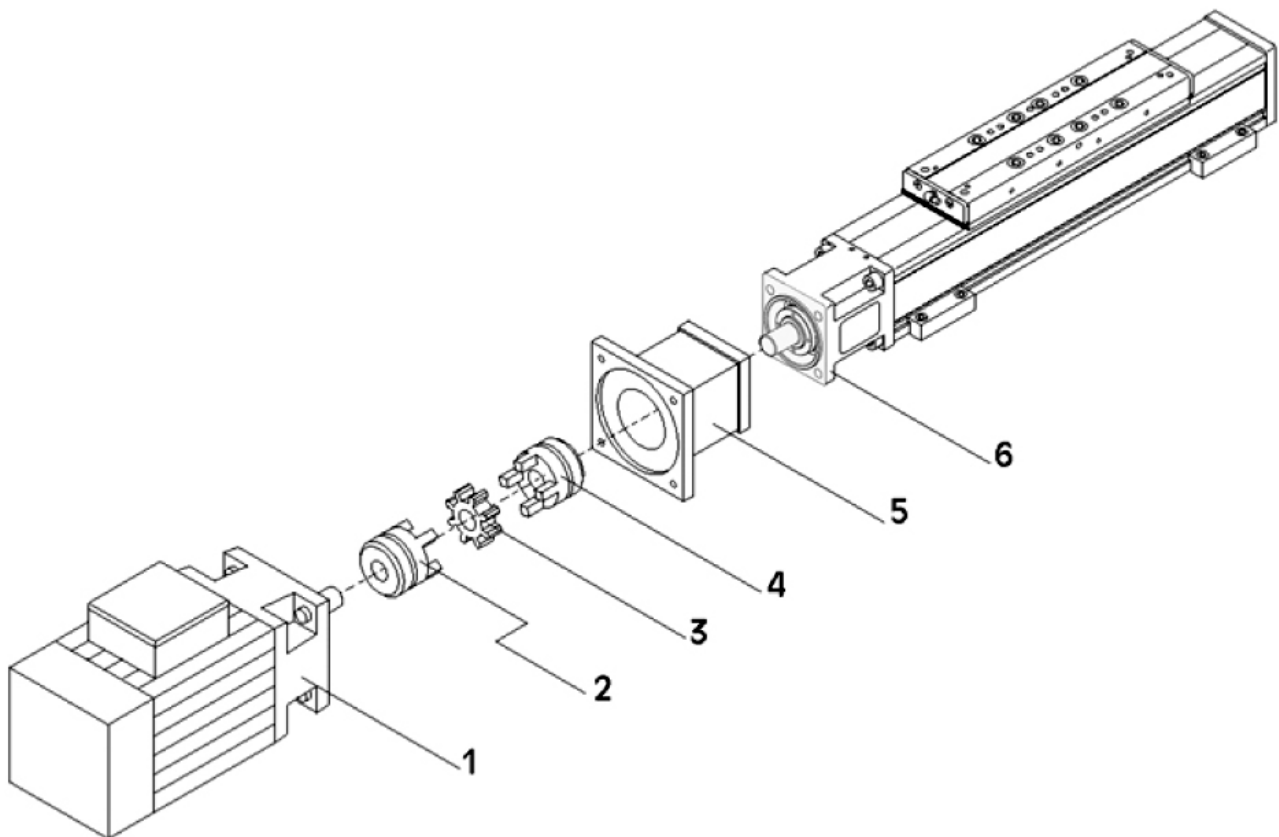
*Linear Motion. Optimized.*

A DANAHER MOTION COMPANY

## Mounting a drive motor to the flange of a linear motion system

The electrical installation and the checking of the direction of rotation may only be carried out by a licensed electrician. Always check the direction of motor rotation in association with the safety limit switches (if necessary, change the direction of rotation by connecting the motor differently) before mounting the motor. Then proceed as described below:

1. Attach the coupling half (4) to the drive shaft of the linear motion system.
2. Attach the motor adapter flange (5) to the flange of the linear motion system (6) with four screws.
3. Push the toothed wheel (3) onto the coupling half on the linear motion system.
4. Mount the second coupling half (2) on the drive shaft of the motor (1).
5. Attach the motor with the coupling half to the motor adapter flange (5) with four screws. Ensure that no axial pressure is exerted on the motor shaft. If necessary, correct the distance between the two coupling halves.



1. Motor
2. Coupling half
3. Toothed wheel
4. Coupling half
5. Adapter flange
6. Flange

Make sure all bolts and screws are tightened according to the tables on the next page.

**Tightening torque tables**

TABLE 1: ROTEX GS TYPE 1.0/1.1

RotexGS size	Setscrew	Tightening torque
5	M2	2,5 Nm
7	M3	3,5 Nm
9, 12, 14	M4	5,0 Nm
19, 24	M5	10 Nm
28, 38	M8	15 Nm
42, 48	M8	20 Nm
55, 65	M10	20 Nm
75	M10	25 Nm



TABLE 2:  
ROTEX GS TYPE 2.0/2.1/2.5/2.6/4.0/5.0/6.0/6.5

RotexGS size	Clamp.screw	Tightening torque
5	M1,2	- Nm
7	M2	0,37 Nm
9	M2,5	0,76 Nm
12, 14	M3	1,34 Nm
19, 24	M6	10,5 Nm
28, 38	M8	25 Nm
42	M10	69 Nm
48, 55, 65	M12	120 Nm
75	M16	295 Nm

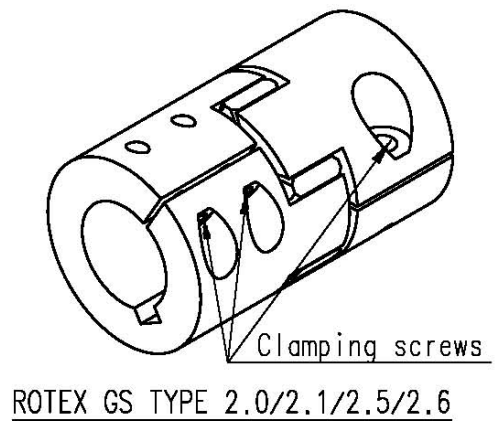
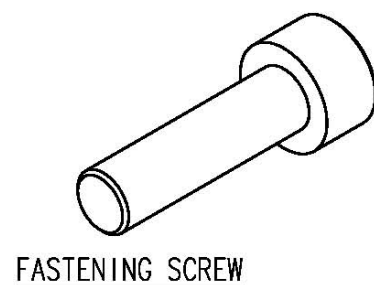
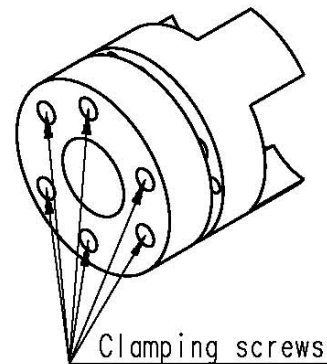


TABLE 3: FASTENING SCREW

Screw Dim.	Quality	Tightening torque
M3	8.8	1,35 Nm
M4	8.8	3,3 Nm
M5	8.8	6,5 Nm
M6	8.8	11,1 Nm
M8	8.8	26,6 Nm
M10	8.8	52,5 Nm
M12	8.8	91,2 Nm
M14	8.8	145 Nm



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