

## Toothed joints

### Technopolymer

#### MATERIAL

Polyamide based (PA) technopolymer with molybdenum disulfide additive.

#### STANDARD EXECUTIONS

Aluminium bushing.

- **ZGD-M**: male half-coupling, external teeth.
- **ZGD-F**: female half-coupling, internal teeth.

#### FEATURES AND APPLICATIONS

Toothed joints are used to couple rotating shafts.

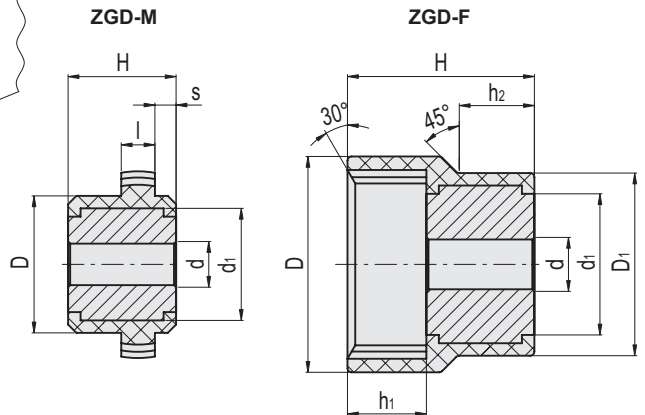
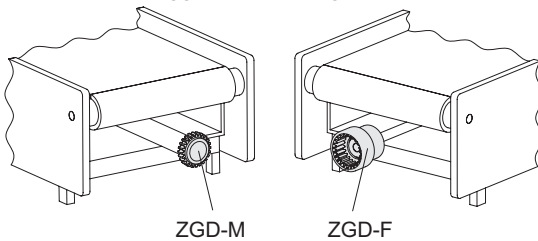
Their use allows for interference fits between shafts and also to compensate for radial, axial and angular misalignments, while ensuring low weight and low inertia. The misalignment and torque values shown in the table are guaranteed in a range between 0 and 150 rpm. Values may vary depending on temperature, coupling, and hours of continuous operation.

The male and female joints must be used combined and can only be coupled when both their module and the number of teeth are the same.

For any keyway machining it is recommended to take the joints from the hub side.



#### Application examples



#### ZGD-M

Code	Description	d1	Module M	No. of teeth Z	D	H	dh7	l	s	# [mm]	* [°]	## [mm]	** [Nm]	⚖
551016	ZGD-1.5-20-M	20	1.5	20	25	23	6	8.1	2.8	0	5	5	18	24
551026	ZGD-1.5-24-M	24	1.5	24	30	25	8	8.1	2.8	0	4	5	22	38
551036	ZGD-1.5-28-M	27	1.5	28	33	26	10	8.1	5.1	0	4	5	25	48

#### ZGD-F

Code	Description	d1	Module M	No. of teeth Z	D	D1	H	dh7	h1	h2	# [mm]	* [°]	## [mm]	** [Nm]	⚖
551011	ZGD-1.5-20-F	25	1.5	20	40	33	40	6	17	15	0	5	5	18	50
551021	ZGD-1.5-24-F	30	1.5	24	48	38	42	10	17	18	0	4	5	22	68
551031	ZGD-1.5-28-F	38	1.5	28	53	44	45	12	19	18.5	0	4	5	25	104

# Maximum lateral misalignment allowed.

\* Maximum angular misalignment allowed.

## Maximum axial misalignment allowed.

\*\* Maximum torque for operation with perfectly axial shafts (misalignments equal to 0° and 0 mm).