



Fluted grip, three-arm,
wing knobs with torque limiting



DESIGNED
FOR ENGINEERING

Torque limiting knob

Technopolymer

KNOB BODY

Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, matte finish.

CENTRE CAP

Polyamide-based (PA) technopolymer, RAL 7035 grey colour, matte finish.

TORQUE LIMITING MECHANISM

Hardened steel.

STANDARD EXECUTIONS

Zinc-plated steel boss with threaded blind hole.

- **VTD-AZ-2**: maximum torque 2Nm.
- **VTD-AZ-3**: maximum torque 3Nm.
- **VTD-AZ-4**: maximum torque 4Nm.
- **VTD-AZ-6**: maximum torque 6Nm.

FEATURES AND APPLICATIONS

VTD knob is used when the applied tightening torque must not exceed a certain value.

The transmission of the torque from the knob to the clamping element takes place by means of a spring system which, upon reaching the required torque, releases the knob. When the established torque is exceeded, a "click" will be heard to indicate that maximum tightening has been achieved.

By turning the knob anticlockwise the mechanism (Elesa patent) unlocks.

The knob has been tested up to 60000 tightening cycles and the values of the torque were unchanged.

SPECIAL EXECUTIONS ON REQUEST

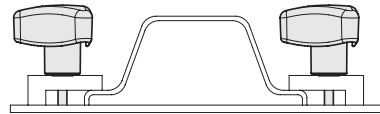
- Knobs with threaded screw.
- Knobs with different values of max. torque.
- Knobs with stainless steel metal parts and NBR synthetic rubber O-Ring.
- Knobs with cap supplied in other colours.



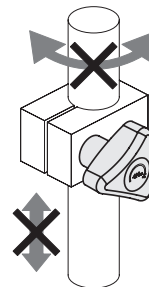
reddot award 2019
winner

ELESA Original design

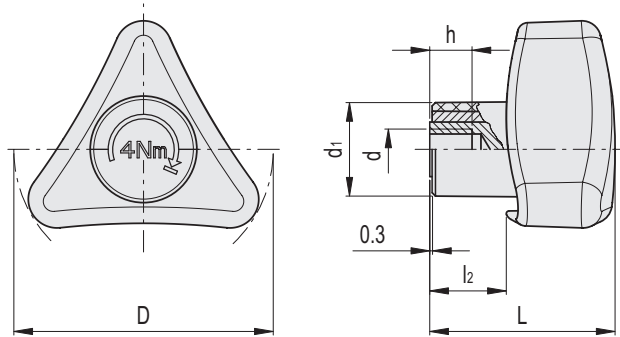
Application example



To prevent sheet deformation



Fastening of the tube to avoid
damage to tube surfaces



Code	Description	D	d	L	d1	l2	h	C# [Nm]	⚠
35601-2N	VTD.60-AZ-M6-2Nm	60	M6	50.5	27.5	20	10	2	94
35601-3N	VTD.60-AZ-M6-3Nm	60	M6	50.5	27.5	20	10	3	94
35602-2N	VTD.60-AZ-M8-2Nm	60	M8	50.5	27.5	20	12	2	92
35602-3N	VTD.60-AZ-M8-3Nm	60	M8	50.5	27.5	20	12	3	92
35611-4N	VTD.80-AZ-M8-4Nm	80	M8	53.5	27.5	22	12	4	94
35611-6N	VTD.80-AZ-M8-6Nm	80	M8	53.5	27.5	22	12	6	94
35612-4N	VTD.80-AZ-M10-4Nm	80	M10	53.5	27.5	22	12	4	92
35612-6N	VTD.80-AZ-M10-6Nm	80	M10	53.5	27.5	22	12	6	92
35613-4N	VTD.80-AZ-M12-4Nm	80	M12	53.5	27.5	22	12	4	90
35613-6N	VTD.80-AZ-M12-6Nm	80	M12	53.5	27.5	22	12	6	90

C# Maximum torque

Adjustable torque limiting knobs

Technopolymer

MATERIAL

Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, matte finish.

CLOSING CAP

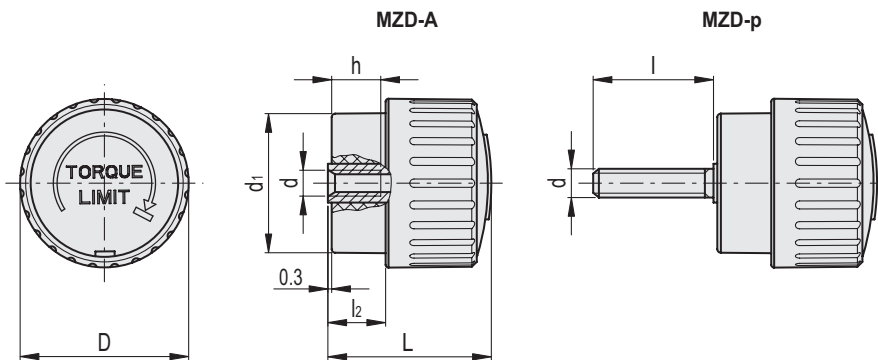
Polyamide-based (PA) technopolymer, RAL 7035 grey colour, push-fit assembly.

STANDARD EXECUTIONS

- **MZD-A**: black-oxide steel boss, threaded blind hole.
- **MZD-p**: black-oxide steel threaded screw, chamfered flat end UNI 947 : ISO 4753.

SPECIAL EXECUTIONS ON REQUEST

Clamping element with threads and different lengths of stud.



MZD-A

Code	Description	D	d6H	L	d1	l2	h	△
35501	MZD.50-A-M6	47	M6	44	39	15	12	75
35502	MZD.50-A-M8	47	M8	44	39	15	12	74

MZD-p

Code	Description	D	d6g	L	d1	l	l2	△
35511	MZD.50-p-M6x30	47	M6	44	39	30	15	82
35521	MZD.50-p-M8x40	47	M8	44	39	40	15	86

FEATURES AND APPLICATIONS

The knob MZD incorporates a mechanism (ELESA patent) which, screwing clockwise until locking, reaches the required torque value by releasing it from the clamping element (boss or threaded screw). The knob is used when the applied tightening torque must not exceed a certain value.

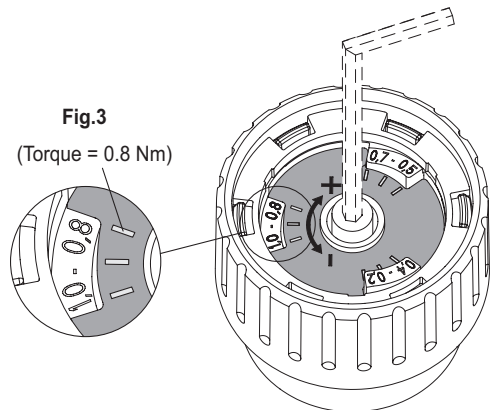
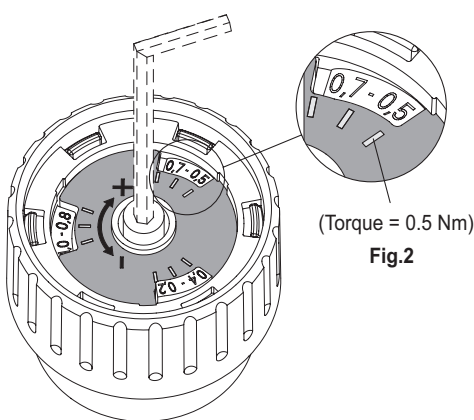
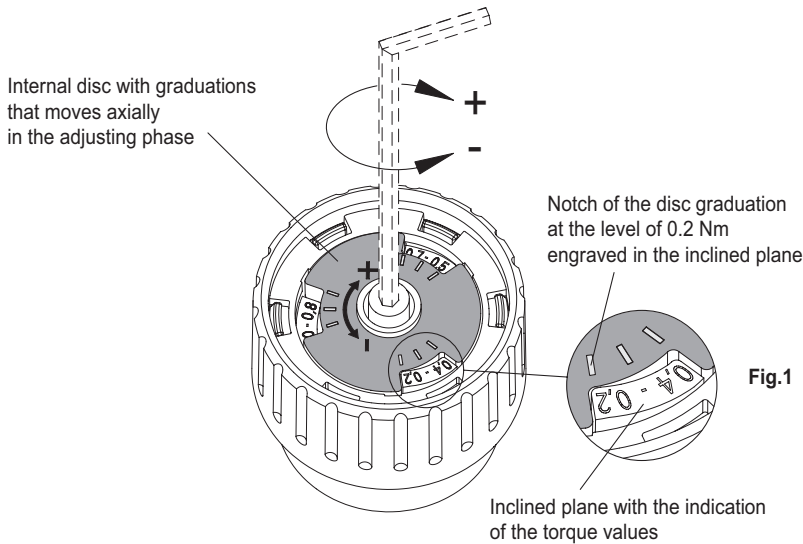
The torque transmission from the knob to the clamping element occurs by means of a spring system that prevents the set torque from being exceeded. By rotating counterclockwise, the knob unlocks. The maximum torque value that may be achieved in the clamping operation can be adjusted between 0.2 and 1 Nm (see table "Inclined planes").

The knob has been tested up to 60000 tightening cycles and the values of the torque were unchanged.

TORQUE ADJUSTMENT

1. Remove the cap by inserting a screwdriver in the special slot.
2. The factory setting of the knob is 0.5 Nm. To increase or decrease the torque value, axially change the position of the disc with graduations by moving the center screw by means of a hexagonal key (ch = 2.5). The torque value is read on the small inclined plane which is at the level of the disc in correspondence with the reference notch.
3. Re-fit the cap by inserting it into its seat with a slight pressure.

Inclined planes	
Torque Nm	
Fig.1	0.2 – 0.4 (± 0.1Nm)
Fig.2	0.5 – 0.7 (+0.2 Nm)
Fig.3	0.8 – 1.0 (+0.3 Nm)



Torque knurled knobs / Torque knurled knob screws

SPECIFICATION

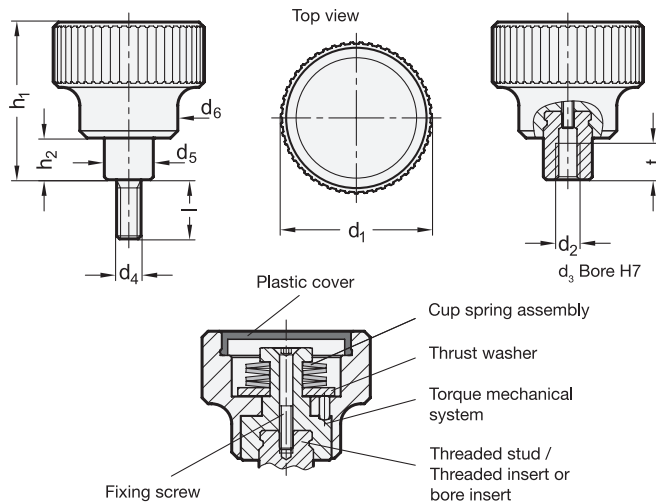
Knob
Aluminium
black, anodized
Torque mechanism
Steel, hardened
Other parts
Steel, blackened
Cover cap
Plastic light grey

INFORMATION

Torque knurled knobs / Torque knurled knob screws GN 3663 are used when the manually applied torque is to be limited.
When turned clockwise, the torque mechanical system of the knurled knob triggers an „over-engagement“ as soon as the specified torque is reached. When turning anti-clockwise, the mechanical system locks such that the torque is not limited. When tightening, this will ensure that the maximum permissible torque is not exceeded. On the other hand, the torque necessary for releasing will always be transferred reliably.
After removing the cover and loosening the countersunk screw, the thread or bore insert can be dismantled.

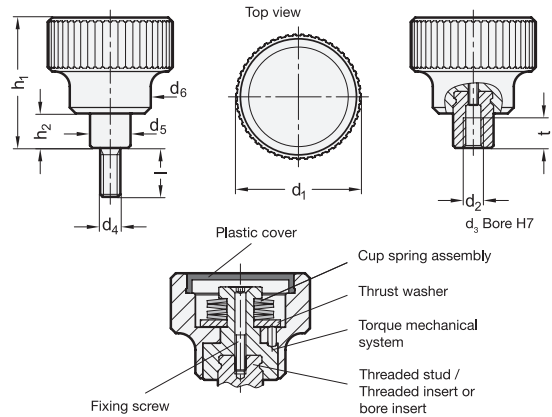
ON REQUEST

- Other dimensions for inserts with bore, thread and threaded stud inserts analog GN 300
- Other dimensions with special threaded studs analog GN 306
- Other torques
- Torques limiting turning anti-clockwise or turning anti-clockwise and clockwise



GN 3663-with female thread


Description	d1	d2	d3 H7	d5	d6	h1	h2	t min.	Torque ±10% in Nm	⚖
GN 3663-27-B5-0.7	27	-	B 5	10	19	35	9.5	7	0.7	41
GN 3663-27-B5-1	27	-	B 5	10	19	35	9.5	7	1	40
GN 3663-27-B5-1.5	27	-	B 5	10	19	35	9.5	7	1.5	40
GN 3663-27-B6-0.7	27	-	B 6	10	19	35	9.5	9	0.7	50
GN 3663-27-B6-1	27	-	B 6	10	19	35	9.5	9	1	50
GN 3663-27-B6-1.5	27	-	B 6	10	19	35	9.5	9	1.5	50
GN 3663-34-B5-1	34	-	B 5	10	21	37.5	9.5	7	1	57
GN 3663-34-B5-1.5	34	-	B 5	10	21	37.5	9.5	7	1.5	58
GN 3663-34-B5-2.2	34	-	B 5	10	21	37.5	9.5	7	2.2	59
GN 3663-34-B6-1	34	-	B 6	10	21	37.5	9.5	9	1	56
GN 3663-34-B6-1.5	34	-	B 6	10	21	37.5	9.5	9	1.5	57
GN 3663-34-B6-2.2	34	-	B 6	10	21	37.5	9.5	9	2.2	58
GN 3663-42-B6-2	42	-	B 6	13.5	27	43.5	11.5	11	2	108
GN 3663-42-B6-2.5	42	-	B 6	13.5	27	43.5	11.5	11	2.5	109
GN 3663-42-B6-3.2	42	-	B 6	13.5	27	43.5	11.5	11	3.2	110
GN 3663-42-B8-2	42	-	B 8	13.5	27	43.5	11.5	11	2	106
GN 3663-42-B8-2.5	42	-	B 8	13.5	27	43.5	11.5	11	2.5	107
GN 3663-42-B8-3.2	42	-	B 8	13.5	27	43.5	11.5	11	3.2	108
GN 3663-52-B10-2.5	52	-	B 10	19	32	54	15.5	17	2.5	208
GN 3663-52-B10-3	52	-	B 10	19	32	54	15.5	17	3	209
GN 3663-52-B10-4	52	-	B 10	19	32	54	15.5	17	4	210
GN 3663-52-B12-2.5	52	-	B 12	19	32	54	15.5	17	2.5	209
GN 3663-52-B12-3	52	-	B 12	19	32	54	15.5	17	3	210
GN 3663-52-B12-4	52	-	B 12	19	32	54	15.5	17	4	211
GN 3663-62-B10-3	62	-	B 10	19	33	54	15.5	17	3	241
GN 3663-62-B10-4	62	-	B 10	19	33	54	15.5	17	4	242
GN 3663-62-B10-5.5	62	-	B 10	19	33	54	15.5	17	5.5	243
GN 3663-62-B12-3	62	-	B 12	19	33	54	15.5	17	3	235
GN 3663-62-B12-4	62	-	B 12	19	33	54	15.5	17	4	236
GN 3663-62-B12-5.5	62	-	B 12	19	33	54	15.5	17	5.5	237
GN 3663-27-M3-0.7	27	M 3	-	10	19	35	9.5	7	0.7	150
GN 3663-27-M3-1	27	M 3	-	10	19	35	9.5	7	1	160
GN 3663-27-M3-1.5	27	M 3	-	10	19	35	9.5	7	1.5	200
GN 3663-27-M4-0.7	27	M 4	-	10	19	35	9.5	9	0.7	40
GN 3663-27-M4-1	27	M 4	-	10	19	35	9.5	9	1	41
GN 3663-27-M4-1.5	27	M 4	-	10	19	35	9.5	9	1.5	42
GN 3663-27-M5-0.7	27	M 5	-	10	19	35	9.5	9	0.7	39
GN 3663-27-M5-1	27	M 5	-	10	19	35	9.5	9	1	40
GN 3663-27-M5-1.5	27	M 5	-	10	19	35	9.5	9	1.5	41
GN 3663-27-M6-0.7	27	M 6	-	10	19	35	9.5	9	0.7	40
GN 3663-27-M6-1	27	M 6	-	10	19	35	9.5	9	1	41
GN 3663-27-M6-1.5	27	M 6	-	10	19	35	9.5	9	1.5	42
GN 3663-34-M3-1	34	M 3	-	10	21	37.5	9.5	7	1	58
GN 3663-34-M3-1.5	34	M 3	-	10	21	37.5	9.5	7	1.5	59
GN 3663-34-M3-2.2	34	M 3	-	10	21	37.5	9.5	7	2.2	59
GN 3663-34-M4-1	34	M 4	-	10	21	37.5	9.5	9	1	58
GN 3663-34-M4-1.5	34	M 4	-	10	21	37.5	9.5	9	1.5	59
GN 3663-34-M4-2.2	34	M 4	-	10	21	37.5	9.5	9	2.2	60
GN 3663-34-M5-1	34	M 5	-	10	21	37.5	9.5	9	1	57
GN 3663-34-M5-1.5	34	M 5	-	10	21	37.5	9.5	9	1.5	58
GN 3663-34-M5-2.2	34	M 5	-	10	21	37.5	9.5	9	2.2	59




GN 3663-with female thread

Description	d1	d2	d3 H7	d5	d6	h1	h2	t min.	Torque ±10% in Nm	⚖
GN 3663-34-M6-1	34	M 6	-	10	21	37.5	9.5	9	1	58
GN 3663-34-M6-1.5	34	M 6	-	10	21	37.5	9.5	9	1.5	59
GN 3663-34-M6-2.2	34	M 6	-	10	21	37.5	9.5	9	2.2	60
GN 3663-42-M6-2	42	M 6	-	13.5	27	43.5	11.5	11	2	109
GN 3663-42-M6-2.5	42	M 6	-	13.5	27	43.5	11.5	11	2.5	110
GN 3663-42-M6-3.2	42	M 6	-	13.5	27	43.5	11.5	11	3.2	111
GN 3663-42-M8-2	42	M 8	-	13.5	27	43.5	11.5	11	2	107
GN 3663-42-M8-2.5	42	M 8	-	13.5	27	43.5	11.5	11	2.5	108
GN 3663-42-M8-3.2	42	M 8	-	13.5	27	43.5	11.5	11	3.2	109
GN 3663-52-M10-2.5	52	M 10	-	19	32	54	15.5	17	2.5	208
GN 3663-52-M10-3	52	M 10	-	19	32	54	15.5	17	3	209
GN 3663-52-M10-4	52	M 10	-	19	32	54	15.5	17	4	210
GN 3663-52-M12-2.5	52	M 12	-	19	32	54	15.5	17	2.5	209
GN 3663-52-M12-3	52	M 12	-	19	32	54	15.5	17	3	210
GN 3663-52-M12-4	52	M 12	-	19	32	54	15.5	17	4	211
GN 3663-62-M10-3	62	M 10	-	19	33	54	15.5	17	3	240
GN 3663-62-M10-4	62	M 10	-	19	33	54	15.5	17	4	241
GN 3663-62-M10-5.5	62	M 10	-	19	33	54	15.5	17	5.5	242
GN 3663-62-M12-3	62	M 12	-	19	33	54	15.5	17	3	235
GN 3663-62-M12-4	62	M 12	-	19	33	54	15.5	17	4	236
GN 3663-62-M12-5.5	62	M 12	-	19	33	54	15.5	17	5.5	237


GN 3663-with threaded bolt

Description	d1	d4	l	d5	d6	h1	h2	Torque ±10% in Nm	
GN 3663-27-M4-12-0.7	27	M 4	12	10	19	35	9.5	0.7	43
GN 3663-27-M4-12-1	27	M 4	12	10	19	35	9.5	1	44
GN 3663-27-M4-12-1.5	27	M 4	12	10	19	35	9.5	1.5	45
GN 3663-27-M4-16-0.7	27	M 4	16	10	19	35	9.5	0.7	44
GN 3663-27-M4-16-1	27	M 4	16	10	19	35	9.5	1	45
GN 3663-27-M4-16-1.5	27	M 4	16	10	19	35	9.5	1.5	46
GN 3663-27-M4-20-0.7	27	M 4	20	10	19	35	9.5	0.7	45
GN 3663-27-M4-20-1	27	M 4	20	10	19	35	9.5	1	46
GN 3663-27-M4-20-1.5	27	M 4	20	10	19	35	9.5	1.5	47
GN 3663-27-M4-25-0.7	27	M 4	25	10	19	35	9.5	0.7	46
GN 3663-27-M4-25-1	27	M 4	25	10	19	35	9.5	1	47
GN 3663-27-M4-25-1.5	27	M 4	25	10	19	35	9.5	1.5	48
GN 3663-27-M4-32-0.7	27	M 4	32	10	19	35	9.5	0.7	47
GN 3663-27-M4-32-1	27	M 4	32	10	19	35	9.5	1	48
GN 3663-27-M4-32-1.5	27	M 4	32	10	19	35	9.5	1.5	49
GN 3663-27-M5-12-0.7	27	M 5	12	10	19	35	9.5	0.7	44
GN 3663-27-M5-12-1	27	M 5	12	10	19	35	9.5	1	45
GN 3663-27-M5-12-1.5	27	M 5	12	10	19	35	9.5	1.5	46
GN 3663-27-M5-16-0.7	27	M 5	16	10	19	35	9.5	0.7	45
GN 3663-27-M5-16-1	27	M 5	16	10	19	35	9.5	1	46
GN 3663-27-M5-16-1.5	27	M 5	16	10	19	35	9.5	1.5	47
GN 3663-27-M5-20-0.7	27	M 5	20	10	19	35	9.5	0.7	46
GN 3663-27-M5-20-1	27	M 5	20	10	19	35	9.5	1	47
GN 3663-27-M5-20-1.5	27	M 5	20	10	19	35	9.5	1.5	48
GN 3663-27-M5-25-0.7	27	M 5	25	10	19	35	9.5	0.7	47
GN 3663-27-M5-25-1	27	M 5	25	10	19	35	9.5	1	48
GN 3663-27-M5-25-1.5	27	M 5	25	10	19	35	9.5	1.5	49
GN 3663-27-M5-32-0.7	27	M 5	32	10	19	35	9.5	0.7	48
GN 3663-27-M5-32-1	27	M 5	32	10	19	35	9.5	1	49
GN 3663-27-M5-32-1.5	27	M 5	32	10	19	35	9.5	1.5	50
GN 3663-34-M5-12-1	34	M 5	12	10	21	37.5	9.5	1	62
GN 3663-34-M5-12-1.5	34	M 5	12	10	21	37.5	9.5	1.5	63
GN 3663-34-M5-12-2.2	34	M 5	12	10	21	37.5	9.5	2.2	64
GN 3663-34-M5-16-1	34	M 5	16	10	21	37.5	9.5	1	63
GN 3663-34-M5-16-1.5	34	M 5	16	10	21	37.5	9.5	1.5	64
GN 3663-34-M5-16-2.2	34	M 5	16	10	21	37.5	9.5	2.2	65
GN 3663-34-M5-20-1	34	M 5	20	10	21	37.5	9.5	1	64
GN 3663-34-M5-20-1.5	34	M 5	20	10	21	37.5	9.5	1.5	65
GN 3663-34-M5-20-2.2	34	M 5	20	10	21	37.5	9.5	2.2	66
GN 3663-34-M5-25-1	34	M 5	25	10	21	37.5	9.5	1	65
GN 3663-34-M5-25-1.5	34	M 5	25	10	21	37.5	9.5	1.5	66
GN 3663-34-M5-25-2.2	34	M 5	25	10	21	37.5	9.5	2.2	67
GN 3663-34-M5-32-1	34	M 5	32	10	21	37.5	9.5	1	66
GN 3663-34-M5-32-1.5	34	M 5	32	10	21	37.5	9.5	1.5	67
GN 3663-34-M5-32-2.2	34	M 5	32	10	21	37.5	9.5	2.2	68
GN 3663-34-M6-12-1	34	M 6	12	10	21	37.5	9.5	1	63
GN 3663-34-M6-12-1.5	34	M 6	12	10	21	37.5	9.5	1.5	64
GN 3663-34-M6-12-2.2	34	M 6	12	10	21	37.5	9.5	2.2	65
GN 3663-34-M6-16-1	34	M 6	16	10	21	37.5	9.5	1	64
GN 3663-34-M6-16-1.5	34	M 6	16	10	21	37.5	9.5	1.5	65
GN 3663-34-M6-16-2.2	34	M 6	16	10	21	37.5	9.5	2.2	66

GN 3663-with threaded bolt

Description	d1	d4	l	d5	d6	h1	h2	Torque ±10% in Nm	
GN 3663-34-M6-20-1	34	M 6	20	10	21	37.5	9.5	1	65
GN 3663-34-M6-20-1.5	34	M 6	20	10	21	37.5	9.5	1.5	66
GN 3663-34-M6-20-2.2	34	M 6	20	10	21	37.5	9.5	2.2	67
GN 3663-34-M6-25-1	34	M 6	25	10	21	37.5	9.5	1	66
GN 3663-34-M6-25-1.5	34	M 6	25	10	21	37.5	9.5	1.5	67
GN 3663-34-M6-25-2.2	34	M 6	25	10	21	37.5	9.5	2.2	68
GN 3663-34-M6-32-1	34	M 6	32	10	21	37.5	9.5	1	67
GN 3663-34-M6-32-1.5	34	M 6	32	10	21	37.5	9.5	1.5	68
GN 3663-34-M6-32-2.2	34	M 6	32	10	21	37.5	9.5	2.2	69
GN 3663-42-M8-16-2	42	M 8	16	13.5	27	43.5	11.5	2	93
GN 3663-42-M8-16-2.5	42	M 8	16	13.5	27	43.5	11.5	2.5	94
GN 3663-42-M8-16-3.2	42	M 8	16	13.5	27	43.5	11.5	3.2	95
GN 3663-42-M8-20-2	42	M 8	20	13.5	27	43.5	11.5	2	94
GN 3663-42-M8-20-2.5	42	M 8	20	13.5	27	43.5	11.5	2.5	95
GN 3663-42-M8-20-3.2	42	M 8	20	13.5	27	43.5	11.5	3.2	96
GN 3663-42-M8-25-2	42	M 8	25	13.5	27	43.5	11.5	2	95
GN 3663-42-M8-25-2.5	42	M 8	25	13.5	27	43.5	11.5	2.5	96
GN 3663-42-M8-25-3.2	42	M 8	25	13.5	27	43.5	11.5	3.2	97
GN 3663-42-M8-32-2	42	M 8	32	13.5	27	43.5	11.5	2	96
GN 3663-42-M8-32-2.5	42	M 8	32	13.5	27	43.5	11.5	2.5	97
GN 3663-42-M8-32-3.2	42	M 8	32	13.5	27	43.5	11.5	3.2	98
GN 3663-42-M8-40-2	42	M 8	40	13.5	27	43.5	11.5	2	100
GN 3663-42-M8-40-2.5	42	M 8	40	13.5	27	43.5	11.5	2.5	101
GN 3663-42-M8-40-3.2	42	M 8	40	13.5	27	43.5	11.5	3.2	102
GN 3663-42-M10-20-2	42	M 10	20	13.5	27	43.5	11.5	2	101
GN 3663-42-M10-20-2.5	42	M 10	20	13.5	27	43.5	11.5	2.5	102
GN 3663-42-M10-20-3.2	42	M 10	20	13.5	27	43.5	11.5	3.2	103
GN 3663-42-M10-25-2	42	M 10	25	13.5	27	43.5	11.5	2	102
GN 3663-42-M10-25-2.5	42	M 10	25	13.5	27	43.5	11.5	2.5	103
GN 3663-42-M10-25-3.2	42	M 10	25	13.5	27	43.5	11.5	3.2	104
GN 3663-42-M10-32-2	42	M 10	32	13.5	27	43.5	11.5	2	126
GN 3663-42-M10-32-2.5	42	M 10	32	13.5	27	43.5	11.5	2.5	127
GN 3663-42-M10-32-3.2	42	M 10	32	13.5	27	43.5	11.5	3.2	128
GN 3663-42-M10-40-2	42	M 10	40	13.5	27	43.5	11.5	2	128
GN 3663-42-M10-40-2.5	42	M 10	40	13.5	27	43.5	11.5	2.5	129
GN 3663-42-M10-40-3.2	42	M 10	40	13.5	27	43.5	11.5	3.2	130
GN 3663-42-M10-50-2	42	M 10	50	13.5	27	43.5	11.5	2	133
GN 3663-42-M10-50-2.5	42	M 10	50	13.5	27	43.5	11.5	2.5	134
GN 3663-42-M10-50-3.2	42	M 10	50	13.5	27	43.5	11.5	3.2	135
GN 3663-52-M10-25-2.5	52	M 10	25	19	32	54	15.5	2.5	150
GN 3663-52-M10-25-3	52	M 10	25	19	32	54	15.5	3	160
GN 3663-52-M10-25-4	52	M 10	25	19	32	54	15.5	4	165
GN 3663-52-M10-32-2.5	52	M 10	32	19	32	54	15.5	2.5	170
GN 3663-52-M10-32-3	52	M 10	32	19	32	54	15.5	3	175
GN 3663-52-M10-32-4	52	M 10	32	19	32	54	15.5	4	180
GN 3663-52-M10-40-2.5	52	M 10	40	19	32	54	15.5	2.5	170
GN 3663-52-M10-40-3	52	M 10	40	19	32	54	15.5	3	175
GN 3663-52-M10-40-4	52	M 10	40	19	32	54	15.5	4	180
GN 3663-52-M10-50-2.5	52	M 10	50	19	32	54	15.5	2.5	180
GN 3663-52-M10-50-3	52	M 10	50	19	32	54	15.5	3	185
GN 3663-52-M10-50-4	52	M 10	50	19	32	54	15.5	4	190

GN 3663-with threaded bolt

Description	d1	d4	l	d5	d6	h1	h2	Torque ±10% in Nm	
GN 3663-52-M10-63-2,5	52	M 10	63	19	32	54	15.5	2.5	255
GN 3663-52-M10-63-3	52	M 10	63	19	32	54	15.5	3	256
GN 3663-52-M10-63-4	52	M 10	63	19	32	54	15.5	4	257
GN 3663-52-M12-25-2,5	52	M 12	25	19	32	54	15.5	2.5	243
GN 3663-52-M12-25-3	52	M 12	25	19	32	54	15.5	3	244
GN 3663-52-M12-25-4	52	M 12	25	19	32	54	15.5	4	245
GN 3663-52-M12-32-2,5	52	M 12	32	19	32	54	15.5	2.5	247
GN 3663-52-M12-32-3	52	M 12	32	19	32	54	15.5	3	248
GN 3663-52-M12-32-4	52	M 12	32	19	32	54	15.5	4	249
GN 3663-52-M12-40-2,5	52	M 12	40	19	32	54	15.5	2.5	252
GN 3663-52-M12-40-3	52	M 12	40	19	32	54	15.5	3	254
GN 3663-52-M12-40-4	52	M 12	40	19	32	54	15.5	4	256
GN 3663-52-M12-50-2,5	52	M 12	50	19	32	54	15.5	2.5	254
GN 3663-52-M12-50-3	52	M 12	50	19	32	54	15.5	3	255
GN 3663-52-M12-50-4	52	M 12	50	19	32	54	15.5	4	257
GN 3663-52-M12-63-2,5	52	M 12	63	19	32	54	15.5	2.5	260
GN 3663-52-M12-63-3	52	M 12	63	19	32	54	15.5	3	262
GN 3663-52-M12-63-4	52	M 12	63	19	32	54	15.5	4	264
GN 3663-62-M10-25-3	62	M 10	25	19	33	54	15.5	3	262
GN 3663-62-M10-25-4	62	M 10	25	19	33	54	15.5	4	263
GN 3663-62-M10-25-5,5	62	M 10	25	19	33	54	15.5	5.5	264
GN 3663-62-M10-32-3	62	M 10	32	19	33	54	15.5	3	266
GN 3663-62-M10-32-4	62	M 10	32	19	33	54	15.5	4	267
GN 3663-62-M10-32-5,5	62	M 10	32	19	33	54	15.5	5.5	268
GN 3663-62-M10-40-3	62	M 10	40	19	33	54	15.5	3	270
GN 3663-62-M10-40-4	62	M 10	40	19	33	54	15.5	4	271
GN 3663-62-M10-40-5,5	62	M 10	40	19	33	54	15.5	5.5	272
GN 3663-62-M10-50-3	62	M 10	50	19	33	54	15.5	3	276
GN 3663-62-M10-50-4	62	M 10	50	19	33	54	15.5	4	277
GN 3663-62-M10-50-5,5	62	M 10	50	19	33	54	15.5	5.5	278
GN 3663-62-M10-63-3	62	M 10	63	19	33	54	15.5	3	281
GN 3663-62-M10-63-4	62	M 10	63	19	33	54	15.5	4	282
GN 3663-62-M10-63-5,5	62	M 10	63	19	33	54	15.5	5.5	283
GN 3663-62-M12-25-3	62	M 12	25	19	33	54	15.5	3	269
GN 3663-62-M12-25-4	62	M 12	25	19	33	54	15.5	4	270
GN 3663-62-M12-25-5,5	62	M 12	25	19	33	54	15.5	5.5	272
GN 3663-62-M12-32-3	62	M 12	32	19	33	54	15.5	3	273
GN 3663-62-M12-32-4	62	M 12	32	19	33	54	15.5	4	274
GN 3663-62-M12-32-5,5	62	M 12	32	19	33	54	15.5	5.5	275
GN 3663-62-M12-40-3	62	M 12	40	19	33	54	15.5	3	278
GN 3663-62-M12-40-4	62	M 12	40	19	33	54	15.5	4	279
GN 3663-62-M12-40-5,5	62	M 12	40	19	33	54	15.5	5.5	280
GN 3663-62-M12-50-3	62	M 12	50	19	33	54	15.5	3	286
GN 3663-62-M12-50-4	62	M 12	50	19	33	54	15.5	4	287
GN 3663-62-M12-50-5,5	62	M 12	50	19	33	54	15.5	5.5	288
GN 3663-62-M12-63-3	62	M 12	63	19	33	54	15.5	3	295
GN 3663-62-M12-63-4	62	M 12	63	19	33	54	15.5	4	296
GN 3663-62-M12-63-5,5	62	M 12	63	19	33	54	15.5	5.5	297

Torque limiting wing knobs

Technopolymer

MATERIAL

Glass-fibre reinforced polyamide based (PA) technopolymer, black (C9) or orange (C2) colour, matte finish.

TORQUE LIMITING MECHANISM

Nickel-plated steel.

STANDARD EXECUTIONS

- **CTD-B-2:** nickel-plated steel boss with threaded blind hole, maximum torque 2Nm.
- **CTD-B-3:** nickel-plated steel boss with threaded blind hole, maximum torque 3Nm.
- **CTD-p-2:** nickel-plated steel threaded screw, maximum torque 2Nm.
- **CTD-p-3:** nickel-plated steel threaded screw, maximum torque 3Nm.

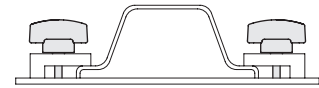
FEATURES AND APPLICATIONS

CTD wing knobs are used when the applied tightening torque must not exceed a preset value.

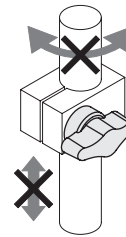
The torque transmission from the wing knob to the clamping element takes place by means of a spring system which prevents the overcoming of the established torque. Upon exceeding the established torque, a "click" sound will be heard to indicate that the maximum tightening has been reached. By turning the knob anticlockwise the mechanism unlocks.



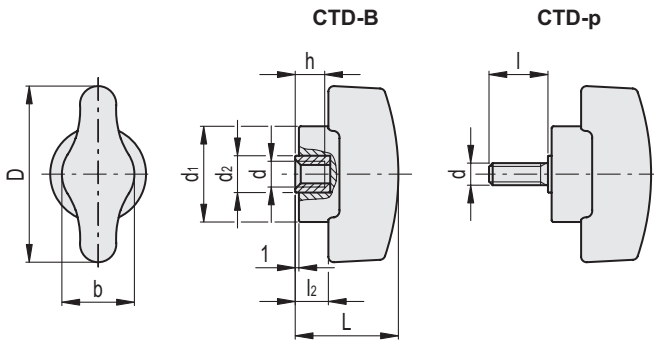
Application Examples



To prevent sheet deformation



Fastening of the tube to avoid damage to tube surfaces



CTD-B

Code	Description	Code	Description	D	d	L	d1	d2	l	l2	b	h	C# [Nm]	⚖️
221901-C9	CTD.48 B-M5-2-C9	221901-C2	CTD.48 B-M5-2-C2	48	M5	28	26	10	9	20	8	2	35	
221902-C9	CTD.48 B-M5-3-C9	221902-C2	CTD.48 B-M5-3-C2	48	M5	28	26	10	9	20	8	3	36	
221905-C9	CTD.48 B-M6-2-C9	221905-C2	CTD.48 B-M6-2-C2	48	M6	28	26	10	9	20	8	2	34	
221906-C9	CTD.48 B-M6-3-C9	221906-C2	CTD.48 B-M6-3-C2	48	M6	28	26	10	9	20	8	3	35	

CTD-p

Code	Description	Code	Description	D	d	L	d1	d2	l	l2	b	C# [Nm]	⚖️
221951-C9	CTD.48 p-M5x10-2-C9	221951-C2	CTD.48 p-M5x10-2-C2	48	M5	28	26	10	10	9	20	2	37
221952-C9	CTD.48 p-M5x10-3-C9	221952-C2	CTD.48 p-M5x10-3-C2	48	M5	28	26	10	10	9	20	3	38
221955-C9	CTD.48 p-M5x16-2-C9	221955-C2	CTD.48 p-M5x16-2-C2	48	M5	28	26	10	16	9	20	2	38
221956-C9	CTD.48 p-M5x16-3-C9	221956-C2	CTD.48 p-M5x16-3-C2	48	M5	28	26	10	16	9	20	3	39
221961-C9	CTD.48 p-M6x16-2-C9	221961-C2	CTD.48 p-M6x16-2-C2	48	M6	28	26	10	16	9	20	2	39
221962-C9	CTD.48 p-M6x16-3-C9	221962-C2	CTD.48 p-M6x16-3-C2	48	M6	28	26	10	16	9	20	3	40
221965-C9	CTD.48 p-M6x25-2-C9	221965-C2	CTD.48 p-M6x25-2-C2	48	M6	28	26	10	25	9	20	2	41
221966-C9	CTD.48 p-M6x25-3-C9	221966-C2	CTD.48 p-M6x25-3-C2	48	M6	28	26	10	25	9	20	3	42

C# Maximum torque (±15%)

Knobs with torque limiting

Elesa+Ganter torque limiting products allow for the regulation of the maximum tightening torque most suitable for your needs. They may be used in various sectors where a sufficiently high tightening torque is required in order to obtain fast and secure fastening, such as laboratory equipment, key duplicators, tool sharpening and sports equipment.

A wide range of applicable torques

Elesa+Ganter torque limiting clamping elements cover a wide range of applicable torques, from 0.2Nm to 6Nm.

Different shapes available for one optimal grip

Elesa+Ganter products have the most suitable shape to apply the required tightening torque, adapting to the operator's grip in order to facilitate tightening operation.

Torque visibility

The maximum applicable torque is shown on each product (engraved on the cap or lasered on the product).

Easy adjustment

The torque setting on the MZD knob is easy and intuitive and allows a quick variation of the maximum applicable torque between 0.2Nm and 1Nm.

Resistance

The product tests show that the torque limiting mechanism is fully operational after thousands of cycles.



Find out more on [elesa-ganter.com](https://www.elesa-ganter.com)

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