# CTJ

#### CHARACTERISTICS

The **CTJ** series includes Linear Units with a toothed belt drive and two parallel, integrated, Zero-backlash rail guides. Compact dimensions allow high performance features such as, high speed and repeatability. They can easily be combined to multi-axis systems.

Excellent price-/performance ratio and quick delivery time are ensured.

A compact, precision-extruded aluminum Profile from AL 6063, with two parallel, integrated Zero-backlash rail guide systems, allows high load capacities and an optimal sequence for the movement of larger masses at high speed.

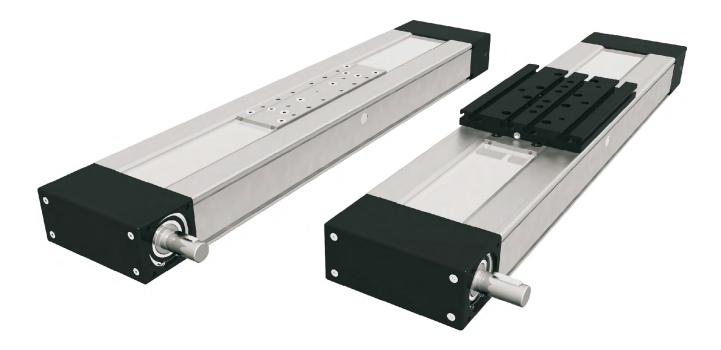
In the linear units CTJ is used a pre-tensioned steel reinforced AT polyurethane timing toothed belt. In conjunction with a Zero-backlash drive pulley high moments with alternating loads with good positioning accuracy, low wear and low noise can be realized.

The in the Profile slot driving Polyurethane timing belt, protects all the parts in the Profile from dust and other contaminations.

Different carriage lengths with lubrication port allows for easy re-lubrication of the Ball rail guide system and allows the possibility to attach additional accessories. The re-lubrication can also be done through maintenance holes on the side of the Profile.

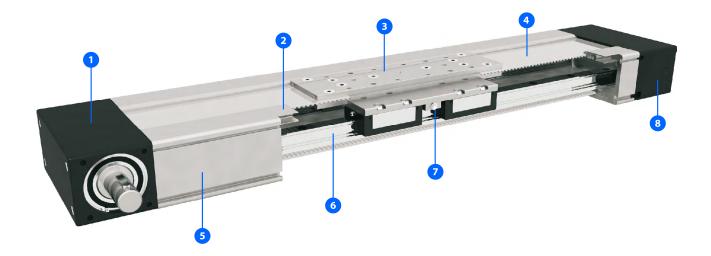
The aluminum profile includes T-slots for fixing the Linear Unit and for attaching sensors and switches. Also, a Reed switch can be used here.

For the linear units CTJ various adaptation options, for attaching (or redirecting), for Motors or Gearboxes are available.



**The aluminium profiles are manufactured according to the medium EN 12020-2 standard** Straightness = 0,35 mm/m; Max. torsion = 0,35 mm/m; Angular torsion = 0,2 mm/40 mm; Parallelism = 0,2 mm

# STRUCTURAL DESIGN



- 1 Drive block with pulley2 Aluminum cover

- a Auminium cover
  a Carriage; with built in Magnets
  a AT polyurethane toothed belt with steel tension cords
  5 Aluminium profile-Hard anodized
  6 Two integrated Linear Ball Guideways
  7 Central lubrication port; both sides
  8 Tension End with integrated belt tensioning system

#### HOW TO ORDER

	CTJ - 14	5 - 1000	- <u>L2</u> -	300 -	10R -	1
Series :						
СТЈ						
-						
Size :						
90 110						
145						
200						
200						
Absolute stroke [mm]: ——						
(Absolute stroke = Effective strok	e + 2 x Safety stroke)					
,	,					
Carriage Version :						
S : Short						
L:Long						
5						
Number of carriages : ———						
The stated number specifies the						
(up to 5 carriages avaliable)	-					
Leave blank : For the case of or	e carriage					
Distance between two carriage	s [mm] :					
Leave blank : For the case of or	e carriage					
Type of drive pulley :						
1: Pulley with journal						
10 : Pulley with journal (without k	(eyway)					
<b>2</b> : Pulley with journal on both s	ides					
20 : Pulley with journal on both s	ides (without Keyway)					
3: Without drive unit						
Drive journal position: ——						
L : Journal on left side						
<b>R</b> : Journal on right side						
Leave blank : For type of drive p	ullev 2, 20 and 3					
By CTJ 200 with drive pulley		nal position left - I	or riaht - <b>R</b> side	e must be also		
specified - motor/gearbox atta	achment side.		o, nghi n oluc			
Connection plate :						
0: Without						

1: With

#### **General technical data**

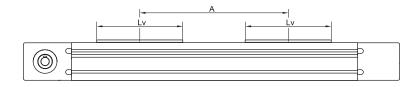
Linear Unit	Carriage length	i Dynamic Ioad capacity	i	Dynamic moment		For	Max. ces		ible loac Moments		Moved mass	Max. Repeatability	* Max. length	* Max. stroke	** Min. stroke
	Lv [ mm ]	C[N]	Mx [ Nm ]	My [ Nm ]	Mz [Nm]	Fpy [ N ]	Fpz [N]	Mpx [ Nm ]	Mpy [Nm]	Mpz [ Nm ]	[ kg ]	[ mm ]	Lmax [ mm ]	[ mm ]	[ mm ]
CTJ 90 S	102	4620	125	17	34	2000	4000	110	17	34	0,20	<b>+</b> 0,08	6000	5873	25
CTJ 90 L	156	9240	250	290	290	3990	8270	200	290	125	0,35	± 0,08	6000	5819	25
Values for	r max. stroke	er the stated value i are not valid for mu ne linear unit length	Itiple carria	ages			ds to be	used).				ļ	Operating co	nditions	
alle alle	0	below the stated val	,					uoou).					Operating ter	np. (	°C ~ +60°C
										Z			Duty cycle		100%
stated ir conside depends	n the uppe ring any s s on the a <sub>l</sub>	aamic moments er table are theo afety factor. Th pplication and i minimum safe	oretical v e safety ts reque	vithout factor sted sa	fety.		لا		, Mpx	Mz,	Mpz				
Modulu	s of elast	ticity							$\times$			Fpy, C			
E = 700		-					/	/ /	// /	My, I		, ph, C			

#### General technical data for double carriage

Linear	Carriage	Dynamic	*	Dynamic moment	:	*		Max. peri	nissible loads	
Unit	version	load capacity				For	ces		Moments	
		C [ N ]	Mx[Nm]	My [ Nm ]	Mz [ Nm ]	Fpy[N]	Fpz [ N ]	Mpx [ Nm ]	Мру [ Nm ]	Mpz [ Nm ]
CTJ 90	S2	9230	250	4,6 × A	4,6 × A	4000	8000	220	4,0 × A	2,0 × A
013 90	L2	18400	500	9,2 × A	9,2 × A	8000	16500	400	8,3 × A	4,0 × A

\*A - Distance between carriages [mm]. More info on following pages.

Presented values are for informational purposes only. Exact values can be calculated using our sizing selection tool on Unimotion web site.



#### Drive and belt data

A

Linear Unit	** Max. travel speed	Max. drive torque	* No load torque	Puley drive ratio	Pulley diameter	Belt type	Belt width	Max. force transmited by belt	Specific spring constant Cspec	** Max. acceleration
	[m/s]	[ Nm ]	[ Nm ]	[ mm / rev ]	[ mm ]		[ mm ]	[N]	[N]	[ m/s²]
CTJ 90 S	5	7,5	0,40 × nc	90	28,65	AT 2	35	520	402500	70
CTJ 90 L		7,5	0,42 × nc	90	20,05	AT 3	30	520	402500	70

\*The stated values are for strokes (and distances between the carriages A) up to 500mm. No Load Torque value increases with stroke (and with A) elongation.

nc - Number of carriages

\*\*For travel speed and acceleration over the stated value in the table above please contact us.

#### Mass and mass moment of inertia

Linear Unit	Mass of linear unit	Mass moment of inertia		oment of rtia
	[ kg ]	[ 10 <sup>-5</sup> kg m <sup>2</sup> ]	ly [ cm <sup>4</sup> ]	lz [ cm <sup>4</sup> ]
CTJ 90 S	1,7 + 0,0048 × (Abs. stroke + (nc - 1) × A) + 0,20 × (nc - 1)	7 + 0,0031 × (Abs. stroke + (nc - 1) × A) + 4,1 × (nc - 1)	13.4	407.0
CTJ 90 L	2,1 + 0,0048 × (Abs. stroke + (nc - 1) × A) + 0,35 × (nc - 1)	11 + 0,0031 × (Abs. stroke + (nc - 1) × A) + 7,2 × (nc - 1)	13,4	107,0

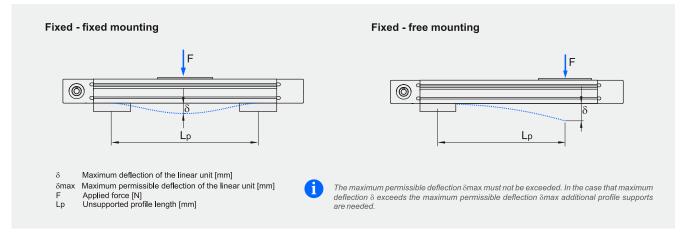
\*Absolute stroke [mm]

A - Distance between carriages [mm]. More info on following pages. nc - Number of carriages

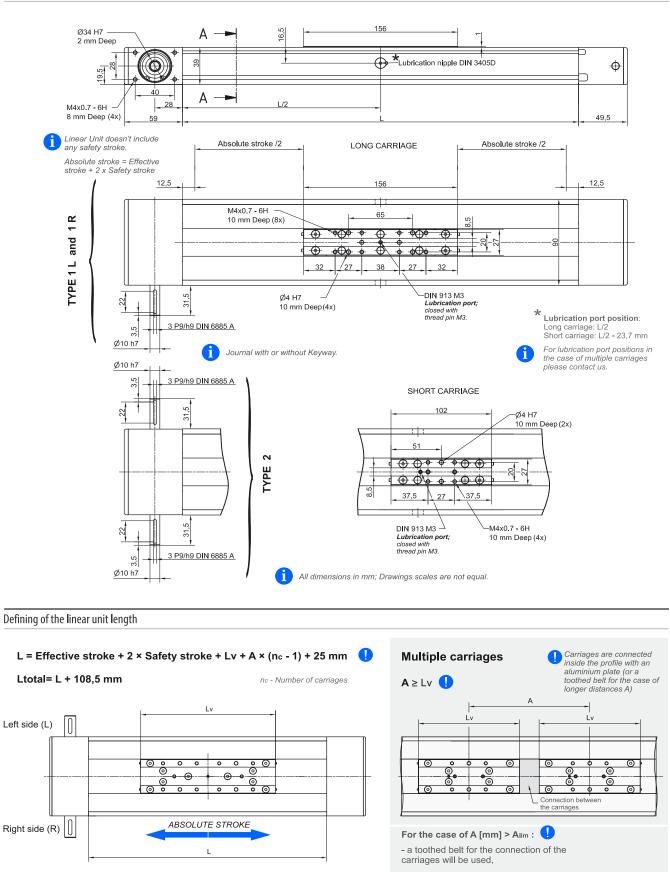
6

Mass calculation doesn't include mass of motor, reduction gear, switches and clamps.

# **Deflection of the linear unit**



**CTJ 90** 2,0 0,5 0,4 F = 0 N F = 10 N F = 25 N F = 50 N F = 100 N F = 200 N F = 500 N Deflection § [mm] Deflection § [mm] = 0 N 1,5 - F = 20 N - F = 50 N - F = 100 N 0,3 F = 200 N F = 400 N F = 750 N 1,0 0,2 0,5 0,1 0,0 0,0 0 500 1000 1500 2000 2500 3000 3500 0 200 400 600 800 Unsupported profile length Lp [mm] Unsupported profile length Lp [mm]



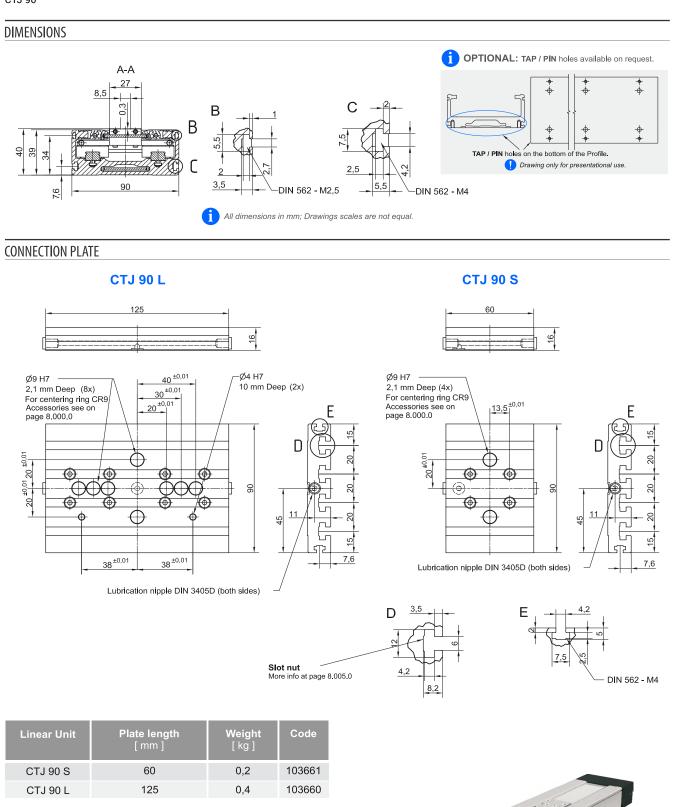
- the following condition must be met:  $A [mm] = A_{lim} + 3 \times i,$ 



where i ∈	{1,2,3,}.	
	CTJ 90 S	СТЈ 90 І
Alim [mm]	401,5	455,5

Lv - Long carriage = 156 mm

Lv - Short carriage = 102 mm



Mounting elements for mounting the connection plate on the Linear unit are inlcuded.

#### Mounting the drive

1

- by the MOTOR ADAPTER WITH COUPLING (Page 8.020.0)

#### **General technical data**

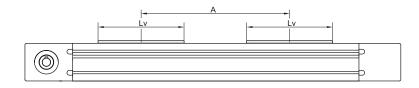
Linear Unit	Carriage length	i Dynamic Ioad capacity	i	Dynamic moment		For	Max. ces		ible load Moments		Moved mass	Max. Repeatability	* Max. length	* Max. stroke	** Min. stroke
	Lv [ mm ]	C[N]	M× [ Nm ]	My [Nm]	Mz [Nm]	Fpy [ N ]	Fpz [N]	Mpx [ Nm ]	Мру [ Nm ]	Mpz [ Nm ]	[ kg ]	[ mm ]	Lmax [ mm ]	[ mm ]	[ mm ]
CTJ 110 S	170	19800	610	118	235	6470	8390	260	90	90	0,64	<mark>+</mark> 0,08	6000	5805	40
CTJ 110 L	215	39600	1225	1680	1680	13080	18820	525	880	550	0,98	<b>+</b> 0,08	0000	5760	40
Values for	r max. stroke	er the stated value i are not valid for mu ne linear unit length n	ltiple carria	ges			ts to be	used)					Operating con	ditions	
all all a	0	below the stated val						uoou).					Operating tem	p. (	0°C ~ +60°C
										Z			Duty cycle		100%
									Fpz, C			P	presented range,	,	
All the d stated ir conside depends	lata of dyr 1 the uppe ring any s s on the a <sub>l</sub>	anded values of amic moments r table are theo afety factor. Th oplication and i minimum safe	and loa pretical v e safety ts reque	d capac vithout factor sted sat	fety.		Y.		Fpz, C	Mz,				,	
All the d stated ir conside depends We recc	lata of dyr 1 the uppe ring any s s on the a <sub>l</sub>	amic moments r table are theo afety factor. Th oplication and i minimum safe	and loa pretical v e safety ts reque	d capac vithout factor sted sat	fety.		بر		, Mpx 🚬			Fpy, C		,	

#### General technical data for double carriage

Linear	Carriage	Dynamic	*	Dynamic moment	t	*		Max. peri	nissible loads	
Unit	version	load capacity				For	ces		Moments	
		C [ N ]	Mx [ Nm ]	My [ Nm ]	Mz [ Nm ]	Fpy [ N ]	Fpz [ N ]	Mpx [ Nm ]	Mpy [ Nm ]	Mpz [ Nm ]
CTJ 110	S2	39600	1220	19,8 × A	19,8 × A	12940	16770	520	8,4 × A	6,5 × A
013 110	L2	79200	2450	39,6 × A	39,6 × A	26150	37600	1050	18,8 × A	13,1 × A

\*A - Distance between carriages [mm]. More info on following pages.

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#### **Drive and belt data**

Linear Unit	** Max. travel speed	Max. drive torque	* No load torque	Puley drive ratio	Pulley diameter	Belt type	Belt width	Max. force transmited by belt	Specific spring constant Cspec	** Max. acceleration
	[m/s]	[ Nm ]	[ Nm ]	[ mm / rev ]	[ mm ]		[ mm ]	[N]	[N]	[ m/s²]
CTJ 110 S	6	15,7	0,98 × nc	120	38,20	AT 5	50	820	960000	70
CTJ 110 L	5	13,7	1,00 × nc	120	55,20	AI 3	50	520	355000	70

\*The stated values are for strokes (and distances between the carriages A) up to 500mm. No Load Torque value increases with stroke (and with A) elongation.

nc - Number of carriages \*\*For travel speed and acceleration over the stated value in the table above please contact us.

#### Mass and mass moment of inertia

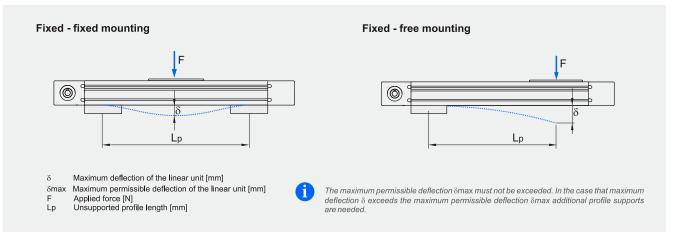
Linear Unit	Mass of linear unit	Mass moment of inertia		oment of ertia
	[ kg ]	[ 10 <sup>-5</sup> kg m <sup>2</sup> ]	ly [ cm <sup>4</sup> ]	lz [ cm⁴]
CTJ 110 S	3,6 + 0,0072 × (Abs. stroke + (nc - 1) × A) + 0,64 × (nc - 1)	36 + 0,0125 × (Abs. stroke + (nc - 1) × A) + 23,3 × (nc - 1)	31.1	217,2
CTJ 110 L	4,2 + 0,0072 × (Abs. stroke + (nc - 1) × A) + 0,98 × (nc - 1)	49 + 0,0125 × (Abs. stroke + (nc - 1) × A) + 35,8 × (nc - 1)	31,1	217,2

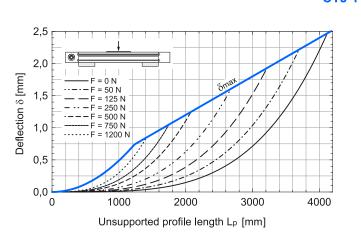
\*Absolute stroke [mm] A - Distance between carriages [mm]. More info on following pages. nc - Number of carriages

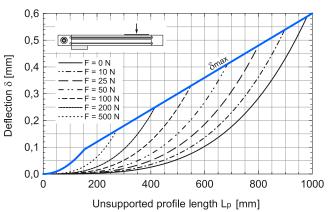
1

Mass calculation doesn't include mass of motor, reduction gear, switches and clamps.

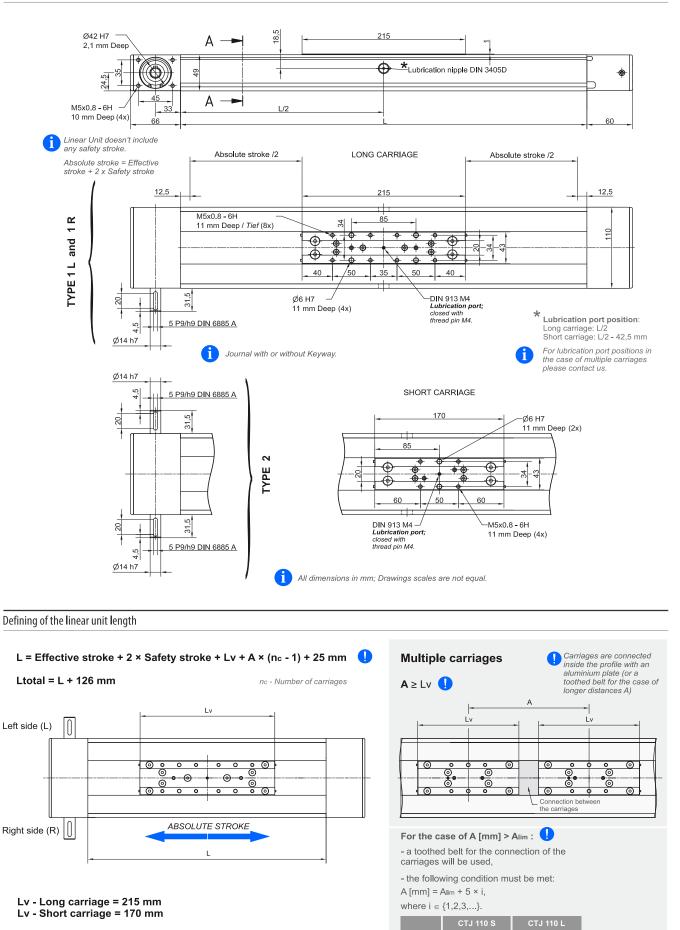
# **Deflection of the linear unit**







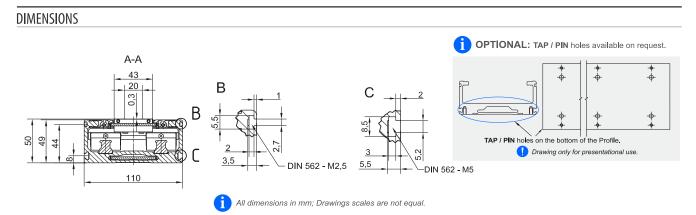
**CTJ 110** 



646

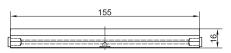
Alim [mm]

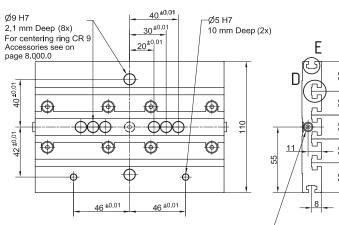
601



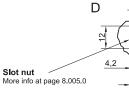
# CONNECTION PLATE





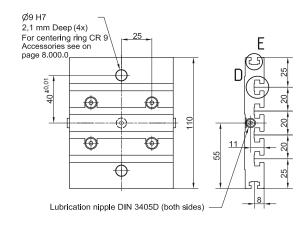


Lubrication nipple DIN 3405D (both sides)





**CTJ 110 S** 



3,5

Linear Unit	Plate length [ mm ]	Weight [kg]	Code
CTJ 110 S	60	0,35	103663
CTJ 110 L	155	0,60	103662

Mounting elements for mounting the connection plate on the Linear unit are inlcuded.

#### Mounting the drive

1

- by the MOTOR ADAPTER WITH COUPLING (Page 8.020.0)



#### **General technical data**

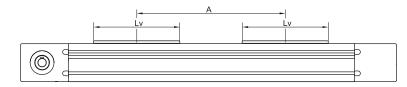
Linear Unit	Carriage <b>l</b> ength	i Dynamic Ioad capacity	i	Dynamic moment		For	Max. rces I		ible load Moments		Moved mass	Max. Repeatability	* Max. length	* Max. stroke	
	Lv [ mm ]	C[N]	Mx [ Nm ]	My [Nm]	Mz [ Nm ]	Fpy [ N ]	Fpz [N]	Mpx [ Nm ]	Мру [ Nm ]	Mpz [ Nm ]	[ kg ]	[ mm ]	Lmax [ mm ]	[ mm ]	] [mm]
CTJ 145 S	180	34200	1500	260	520	8930	15320	674	260	180	1,35	<b>+</b> 0,08	6000	5795	55
CTJ 145 L	240	68400	3005	3420	3420	17870	30640	1200	1700	893	2,25	<b>+</b> 0,08	0000	5735	55
Values for	max. stroke	er the stated value in are not valid for mul ne linear unit length f	tiple carria	iges			da ta ba	upped)				1	Operating co	nditions	
		below the stated valu						usea).					Operating ter	np.	0°C ~ +60°C
					,					z			Duty cycle		100%
<b>U</b> '		ended values o							Fpz, C						
stated in consider depends	the uppe ing any s on the a	namic moments r table are theo afety factor. The pplication and it minimum safet	retical v e safety ts reque	vithout factor sted sa	fety.		<b>بر</b>		с, Мрх <b>(</b>	Mz,	Mpz				
stated in consider depends We reco	the uppe ing any s on the a	er table are theo afety factor. The pplication and it minimum safet	retical v e safety ts reque	vithout factor sted sa	fety.		.لا					Fpy, C			

### General technical data for double carriage

Linear			*	* Max. permissible loads						
Unit	version	load capacity				For	ces		Moments	
		C[N]	Mx [ Nm ]	My [ Nm ]	Mz [ Nm ]	Fpy[N]	Fpz [ N ]	Mpx [ Nm ]	Мру [ Nm ]	Mpz [ Nm ]
CTJ 145	S2	68400	3000	34,2 × A	34,2 × A	17870	30640	1350	15,3 × A	8,9 × A
013 143	L2	136800	6000	68,4 × A	68,4 × A	35700	61200	2400	30,6 × A	17,8 × A

\*A - Distance between carriages [mm]. More info on following pages.

Presented values are for informational purposes only. Exact values can be calculated using our sizing selection tool on Unimotion web site.



# Drive and belt data

Linear Unit	** Max. travel speed	Max. drive torque	* No load torque	Puley drive ratio	Pulley diameter	Belt type	Belt width	Max. force transmited by belt	Specific spring constant C <sub>spec</sub>	** Max. acceleration
	[m/s]	[ Nm ]	[ Nm ]	[ mm / rev ]	[ mm ]		[ mm ]	[N]	[N]	[ m/s <sup>2</sup> ]
CTJ 145 S	c	22.0	1,48 × nc	165	52,52	AT 5	70	1280	4200000	70
CTJ 145 L	6	33,6	1,50 × nc	105	52,52	AT 5	70	1200	1360000	70

\*The stated values are for strokes (and distances between the carriages A) up to 500mm. No Load Torque value increases with stroke (and with A) elongation. nc - Number of carriages

\*\*For travel speed and acceleration over the stated value in the table above please contact us.

#### Mass and mass moment of inertia

Linear Unit	Mass of linear unit	Mass moment of inertia	Planar moment of inertia		
	[ kg ]	[ 10 <sup>-5</sup> kg m <sup>2</sup> ]	ly [ cm <sup>4</sup> ]	lz [ cm <sup>4</sup> ]	
CTJ 145 S	7,2 + 0,0127 × (Abs. stroke + (nc - 1) × A) + 1,35 × (nc - 1)	145 + 0,0330 × (Abs. stroke + (nc - 1) × A) + 93,1 × (nc - 1)	78.9	707 6	
CTJ 145 L	8,8 + 0,0127 × (Abs. stroke + (nc - 1) × A) + 2,25 × (nc - 1)	208 + 0,0330 × (Abs. stroke + (nc - 1) × A) + 155,2 × (nc - 1)	10,9	707,6	

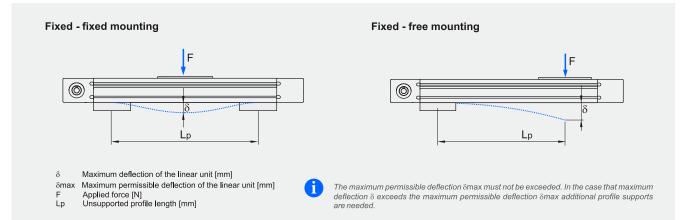
\*Absolute stroke [mm]

A - Distance between carriages [mm]. More info on following pages. nc - Number of carriages

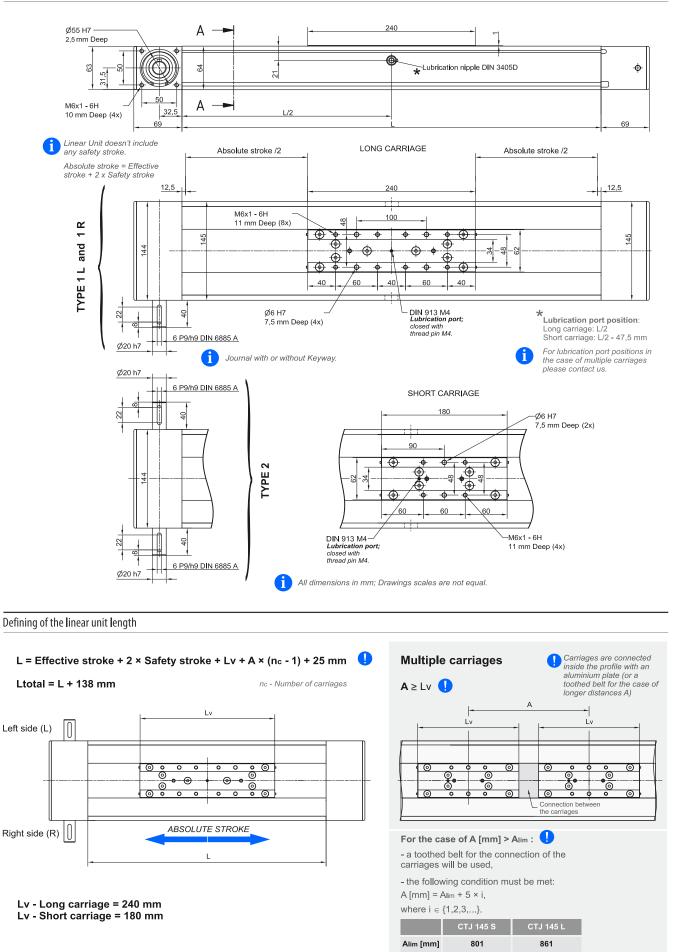
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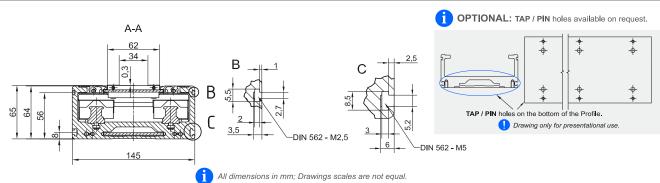
Mass calculation doesn't include mass of motor, reduction gear, switches and clamps.

# **Deflection of the linear unit**



CTJ 145 0,6 2,5 0,5 5 51 2,0 - F = 0 N - F = 50 N - F = 100 N - F = 200 N - F = 400 N - F = 750 N - F = 1200 N Deflection § [mm] Deflection § [mm] = 0 N = 125 N 0,4 = 250 N = 500 N 1,5 0,3 F = 1000 N F = 1500 N 1,0 = 2500 N 0,2 0,5 0,1 0,0 0,0 0 1000 4000 0 200 1000 2000 3000 400 600 800 Unsupported profile length Lp [mm] Unsupported profile length Lp [mm]

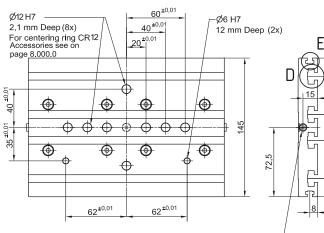




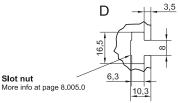
#### CONNECTION PLATE

#### **CTJ 145 L**





Lubrication nipple DIN 3405D (both sides)

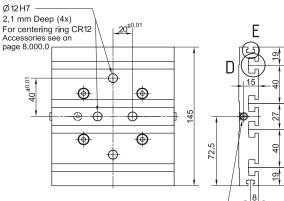


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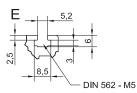
6



**CTJ 145 S** 



Lubrication nipple DIN 3405D (both sides)



Linear Unit	Plate length [ mm ]	Weight [kg]	Code
CTJ 145 S	125	0,8	103665
CTJ 145 L	190	1,3	103664

Mounting elements for mounting the connection plate on the Linear unit are inlcuded.

#### Mounting the drive

1

- by the MOTOR ADAPTER WITH COUPLING (Page 8.020.0)



#### **General technical data**

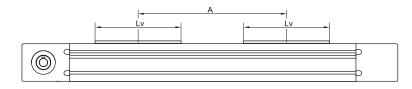
Linear Unit	Carriage Iength	i Dynamic Ioad capacity	Dynamic     moment			Max. permissible loads Moved Max. Forces Moments mass Repeatabili					Max. Repeatability	* Max. length	* Max. stroke		
	Lv [ mm ]	C[N]	Mx [ Nm ]	My [ Nm ]	Mz [ Nm ]	Fpy [ N ]	Fpz [N]	Mpx [ Nm ]	Мру [ Nm ]	Mpz [ Nm ]	[ kg ]	[ mm ]	Lmax [ mm ]	[ mm ]	[ mm ]
CTJ 200 S	265	49600	3235	450	900	10000	24520	1600	450	308	3,05	<mark>+</mark> 0,08	6000	5710	65
CTJ 200 L	405	99200	6470	8680	8680	20000	50900	3250	4550	1750	5,70	<mark>+</mark> 0,08	6000	5570	65
Values for	max. stroke	er the stated value in are not valid for mu ne linear unit length f	tiple carria	ges			ds to be	used)					Operating co	nditions	
		below the stated valu						uoou).					Operating ten	np.	0°C ~ +60°C
										Z			Duty cycle		100%
	Recomme	ended values o	of loads						Fpz, C	Î		p	resented range	e, please c	ontact us.
All the da stated in consider depends	ata of dyr the uppe ing any s on the a	ended values of namic moments or table are theo afety factor. The oplication and it minimum safet	and loa retical v e safety s reque	d capac vithout factor sted sat	fety.				Fpz, C	Mz,	Mpz		resented range	ə, please c	ontact us.
All the da stated in consider depends We reco	ata of dyr the uppe ing any s on the a	namic moments or table are theo afety factor. The oplication and it minimum safet	and loa retical v e safety s reque	d capac vithout factor sted sat	fety.		ע		, Mpx 🍃			Fby, C	resented range	ə, please ci	ontact us.

#### General technical data for double carriage

Linear			*	* Max. permissible loads						
Unit	version	load capacity				For	ces		Moments	
		C [ N ]	Mx [ Nm ]	My [ Nm ]	Mz [ Nm ]	Fpy[N]	Fpz [ N ]	Mpx [ Nm ]	Мру [ Nm ]	Mpz [ Nm ]
CTJ 200	S2	99200	6470	49,6 × A	49,6 × A	20000	49040	3200	24,5 × A	10,0 × A
013 200	L2	198400	12940	99,2 × A	99,2 × A	40000	101800	6500	50,9 × A	20,0 × A

\*A - Distance between carriages [mm]. More info on following pages.

Presented values are for informational purposes only. Exact values can be calculated using our sizing selection tool on Unimotion web site. 61)



#### **Drive and belt data**

Linear Unit	** Max. travel speed	Max. drive torque	* No load torque	Puley drive ratio	Pulley diameter	Belt type	Belt width	Max. force transmited by belt	Specific spring constant Cspec	** Max. acceleration
	[m/s]	[ Nm ]	[ Nm ]	[ mm / rev ]	[ mm ]		[ mm ]	[N]	[ N ]	[ m/s²]
CTJ 200 S	6	<b>102</b> with keyway	3,5 × nc	250	70.59	AT 10	100	2850	4350000	70
CTJ 200 L	0	113 without keyway	4,5 × nc	250	79,58	ALIU	100	2030	4350000	70

\*The stated values are for strokes (and distances between the carriages A) up to 500mm. No Load Torque value increases with stroke (and with A) elongation. nc - Number of carriages

\*\*For travel speed and acceleration over the stated value in the table above please contact us.

#### Mass and mass moment of inertia

Linear Unit	Mass of linear unit	Mass moment of inertia		noment of ertia	
	[ kg ]	[ 10 <sup>-5</sup> kg m <sup>2</sup> ]	ly [ cm <sup>4</sup> ]	lz [ cm <sup>4</sup> ]	
CTJ 200 S	20,2 + 0,0245 × (Abs. stroke + (nc - 1) × A) + 3,1 × (nc - 1)	778 + 0,1868 × (Abs. stroke + (nc - 1) × A) + 482,9 × (nc - 1)	376.4	2744.6	
CTJ 200 L	26,2 + 0,0245 × (Abs. stroke + (nc - 1) × A) + 5,7 × (nc - 1)	1210 + 0,1868 × (Abs. stroke + (nc - 1) × A) + 902,4 × (nc - 1)	570,4	2744,0	

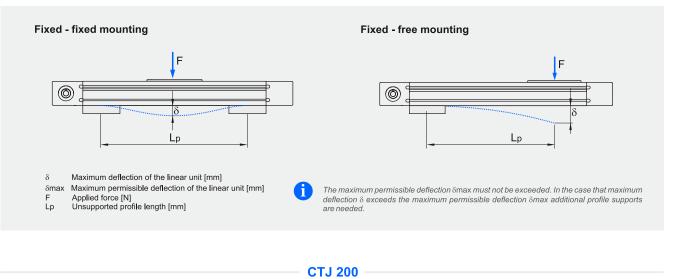
\*Absolute stroke [mm]

A - Distance between carriages [mm]. More info on following pages. nc - Number of carriages

Mass calculation doesn't include mass of motor, reduction gear, switches and clamps.

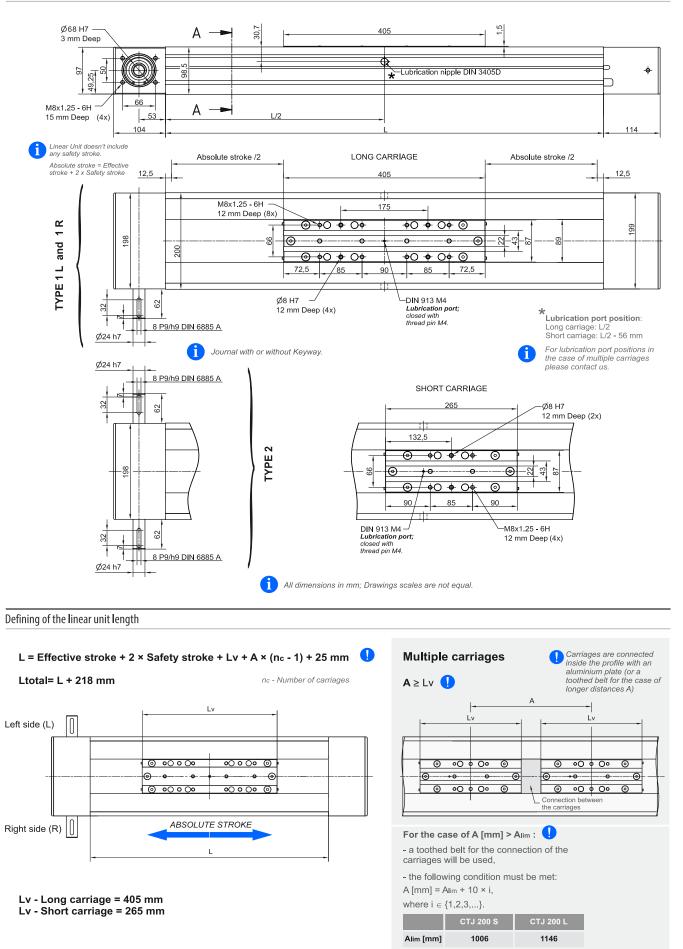
6

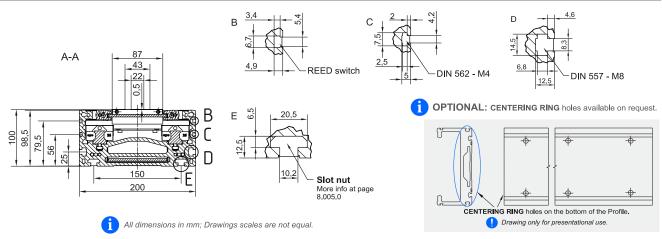
# **Deflection of the linear unit**



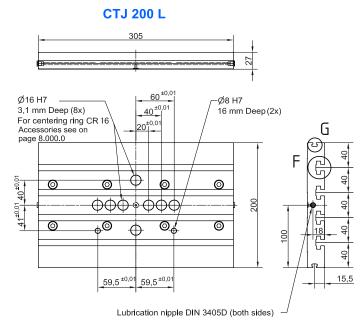
3,5 0,8 3,0 Deflection & [mm] Deflection § [mm] 2,5 0,6 0 N = 250 N F 2,0 F = 500 N F = 1000 N 0,4 = 1500 N 1,5 = 2500 N 3500 N 1,0 0,2 0,5 0,0 0,0 0 1000 2000 5000 6000 0 3000 4000 Unsupported profile length Lp [mm]

# $\begin{array}{c} 0,8 \\ 0,6 \\ 0,6 \\ 0,7 \\ 0,4 \\ 0,7 \\ 0,2 \\ 0,0 \\$

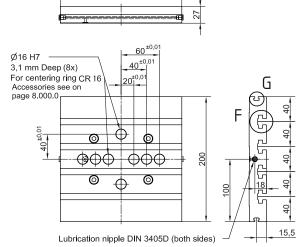


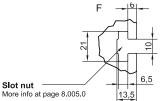


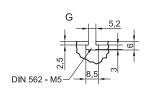
# CONNECTION PLATE



# CTJ 200 S







Linear Unit	Plate length [ mm ]	Weight [kg]	Code
CTJ 200 S	190	2,3	103667
CTJ 200 L	305	3,7	103666

Mounting elements for mounting the connection plate on the Linear unit are inlcuded.

#### Mounting the drive

П

- by the MOTOR ADAPTER WITH COUPLING (Page 8.020.0)

