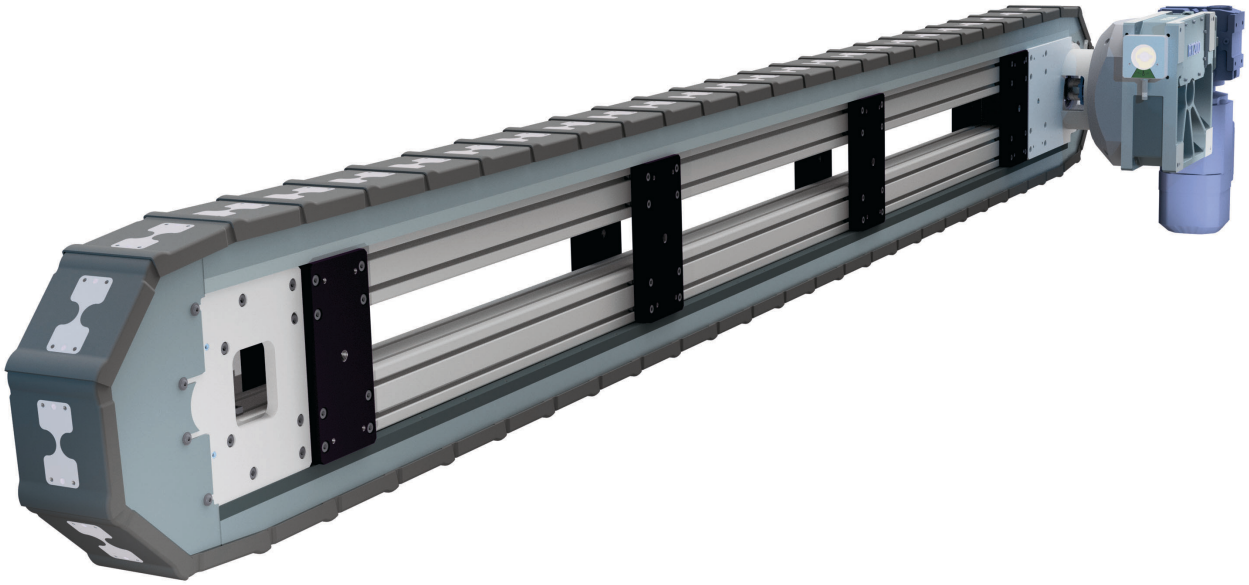
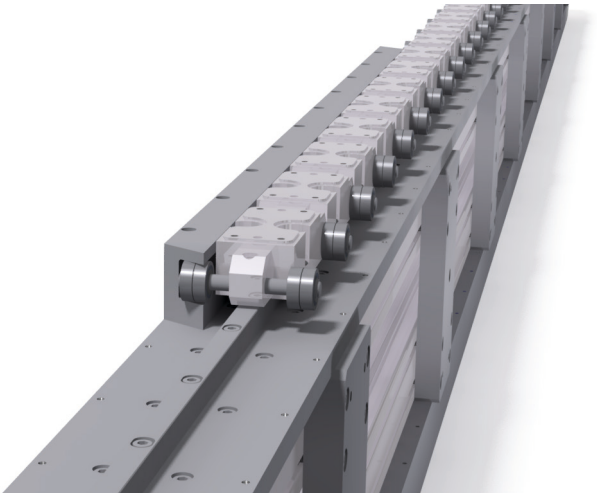
TAKTOMAT

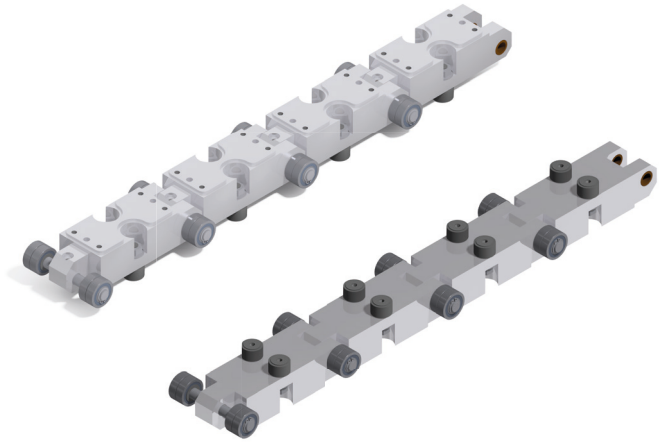
passion for automation



Fast linear transfer system

Type LFA





The sky is the limit for the TAKTOMAT product line. Flexible, made-to-order custom designs which are not featured in the product catalog have long been embedded in our corporate philosophy. We keep 10% of our entire workforce in reserve for these custom applications. Our skilled staff are available to assist our customers on a daily basis.

Our drives meet the highest standards regarding quality and precision. Our cams are manufactured in a different manner with regards to our competition, therefore it is often possible to use smaller rotary table sizes supplied by TAKTOMAT instead of larger ones supplied by our competitors.

Our extensive design expertise enables us to meet customer requirements down to the last detail. We can combine the advantages of different forms of drives to create new value-added solutions which fit the bill completely. This is the added value which we have been offering to our customers in different sectors for many years.

Main fields

Assembly Industry, Medical Technology, Cosmetics, Electronic Industry

- Fast assembly of small parts - up to 150 cycles per minute
- Transportation and manufacturing of wires or similar parts
- Mechanical and optical investigations
- Welding, Tumbling, Riveting, Bending, Marking, Filling ...

Precision Link Conveyor LFA – design and mode of operation

The main component is a continuous chain manufactured from highly precise aluminum links. Per link four cam followers for the vertical guidance roll by a hardened and fine-milled guide rail. Two ball bearings provide at a hard bar for the horizontal adjustment. The links are connected by bolts and needle bearings.

The main frame is made from aluminum profile and steel plates. The conveyor can be mounted at the aluminum profile or at the steel plates. Additional external stations can also be fixed there.

The chain is moved by a hardened step wheel, driven by a standard indexer or any other custom specified drive. At the other end a hard 180° cam guides the chain. This cam is preloaded, so there is no backlash at the links. The linear stroke of the chain depends on the diameter of the step wheel. One cycle of the indexer means a linear stroke of one, two, three or four links.

Advantages for design engineers and special machine builders

- Proven reliable though many years of series
- Vertical assembly - saves room. The empty carriers travel through the bottom of the machine
- Horizontal assembly - in an oval formation. Both sides of the machine can be used for assembly
- The free drive shaft of the indexer can be used for a synchronously rotating parallel shaft to drive other units
- The aluminum profile system can be used to mount other external stations fast and easily

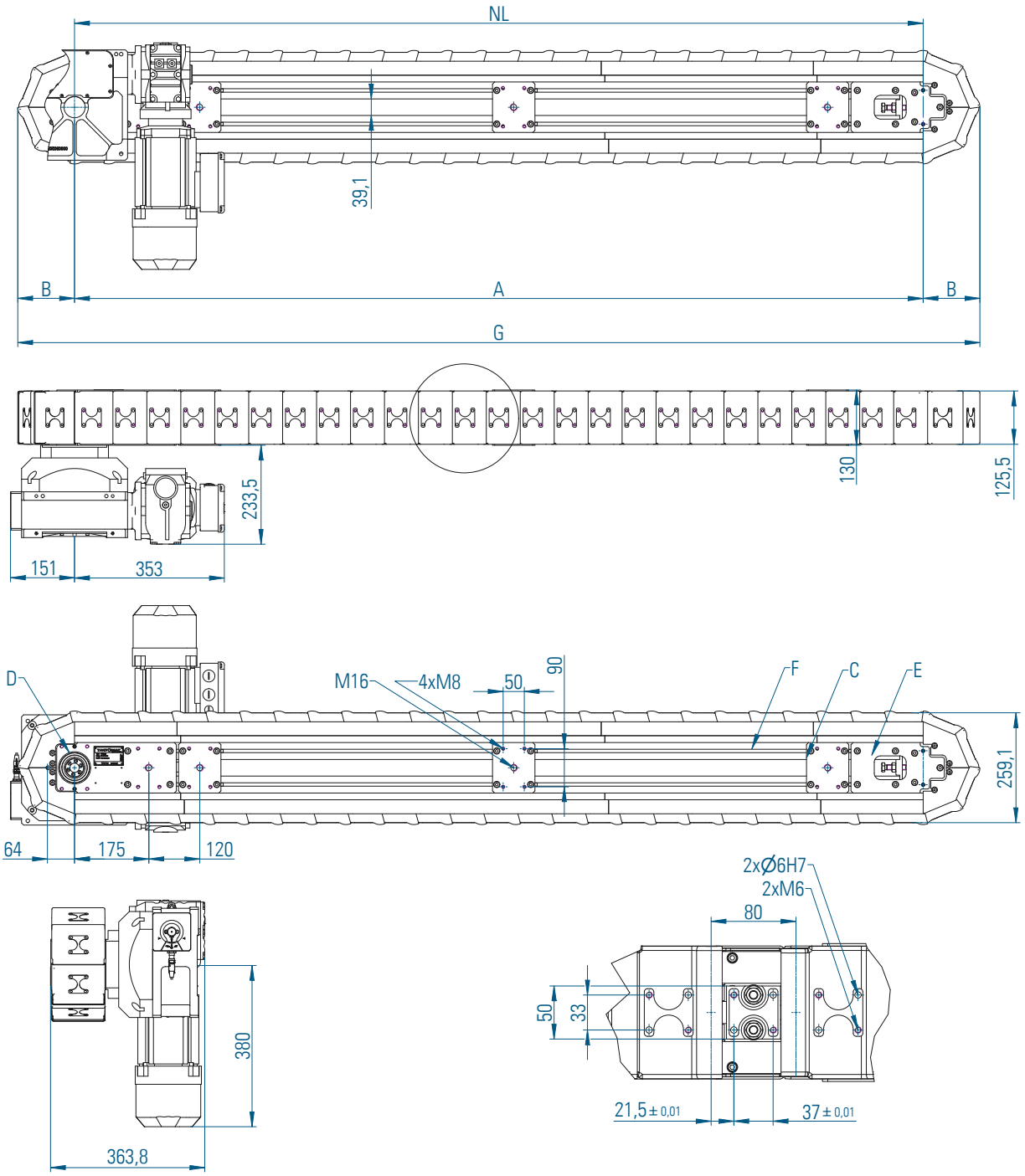
Allowance for individual customer requirements

- Custom specified drives are available
- Optional overload protection
- Dwell- and index angle can be customized in a large range
- Non standard links and linear strokes are possible
- The chain can be designed in metric or english
- Customized color without additional cost
- Stainless steel, nickel plating or other special surfaces are available

Technical benefits for users

- High reliability and long lifetime
- Robust method of construction
- Proven tolast many years
- Needle or ball bearings rolling in oil bath or on clean, dry and hard surfaces
- Low maintenance (only once a year check and adjust the preloading of the chain)
- Wear-free by using TIC (Taktomat Indexing Controller)

LFA080



Dimensions

The dimensions shown here are the standard dimensions. Dimension „A“ depends on the number of links. TAKTOMAT LFA Conveyors can either be mounted on the extruded aluminum „F“ or on the steel plates „C“. The links and the steel plates can be machined to your specifications.

The conveyor can be delivered without drive or the drive can be a servo. Special dust covers or rubber lips between the links are available.

⚠ Caution! Allow spacs on side of the index wheel for adjusting the preload!

A = Distance between U-Turns
B = 133.8 mm
C = plate
D = Stepping wheel
E = Deflection
F = Profile system
G = Total length = A+2xB
NL = Usable length

Load Table LFA080

s [mm]	t [s]	n_L= 12 ; n_T= 32 NL= 960mm				n_L= 18 ; n_T= 44 NL= 1440mm				n_L= 24 ; n_T= 56 NL= 1920mm				n_L= 30 ; n_T= 68 NL= 2400mm				n_L= 36 ; n_T= 80 NL= 2880mm			
		m [kg]				m [kg]				m [kg]				m [kg]				m [kg]			
		0,5	1	1,5	2	0,5	1	1,5	2	0,5	1	1,5	2	0,5	1	1,5	2	0,5	1	1,5	2
80	t=	0,16	0,19	0,22	0,25	0,18	0,22	0,26	0,29	0,21	0,25	0,3	0,23	0,23	0,28	0,33	0,37	0,25	0,30	0,35	0,4
160	t=	0,24	0,29	0,34	0,38	0,28	0,34	0,40	0,45	0,31	0,39	0,45	0,35	0,35	0,43	0,50	0,56	0,38	0,46	0,54	0,61
240	t=	0,32	0,40	0,46	0,52	0,38	0,47	0,54	0,61	0,43	0,53	0,61	0,47	0,47	0,58	0,68	0,76	0,51	0,63	0,74	0,83
320	t=	0,40	0,48	0,52	0,6	0,48	0,59	0,70	0,76	0,54	0,64	0,75	0,81	0,59	0,73	0,86	0,96	0,64	0,80	0,94	1,04

s [mm]	t [s]	n_L= 42 ; n_T= 92 NL= 3360mm				n_L= 48 ; n_T= 104 NL= 3840mm				n_L= 54 ; n_T= 116 NL= 4320mm				n_L= 60 ; n_T= 128 NL=4800mm				n_L= 66 ; n_T= 140 NL=5280mm			
		m [kg]				m [kg]				m [kg]				m [kg]				m [kg]			
		0,5	1	1,5	2	0,5	1	1,5	2	0,5	1	1,5	2	0,5	1	1,5	2	0,5	1	1,5	2
80	t=	0,27	0,33	0,38	0,43	0,28	0,35	0,41	0,46	0,60	0,37	0,43	0,49	0,31	0,39	0,45	0,51	0,33	0,41	0,48	0,54
160	t=	0,40	0,50	0,58	0,66	0,43	0,53	0,62	0,70	0,45	0,56	0,66	0,74	0,48	0,59	0,69	0,78	0,50	0,62	0,73	0,82
240	t=	0,55	0,68	0,79	0,90	0,59	0,73	0,85	0,96	0,62	0,77	0,90	1,01	0,65	0,81	0,95	1,07	0,68	0,85	0,99	1,12
320	t=	0,70	0,86	1,00	1,14	0,76	0,93	1,08	1,16	0,79	0,98	1,14	1,21	0,83	1,01	1,19	1,25	0,87	1,04	1,24	1,30

s = Stroke [mm]
t = Stroke Time [s]

n_L = Number of links in line
n_T = Number of links total

m = Weight per link [kg]
NL = Usable length

Technical specifications

Main dimensions

Distance* [mm]	in steps of 80
Weight at A=2000 [kg]	300
Stroke time* [s]	see Load Table
Stroke* [mm]	80, 160, 240 or 320
Direction	right, left

* Other center distances, feed times or feed widths on request

Loadings

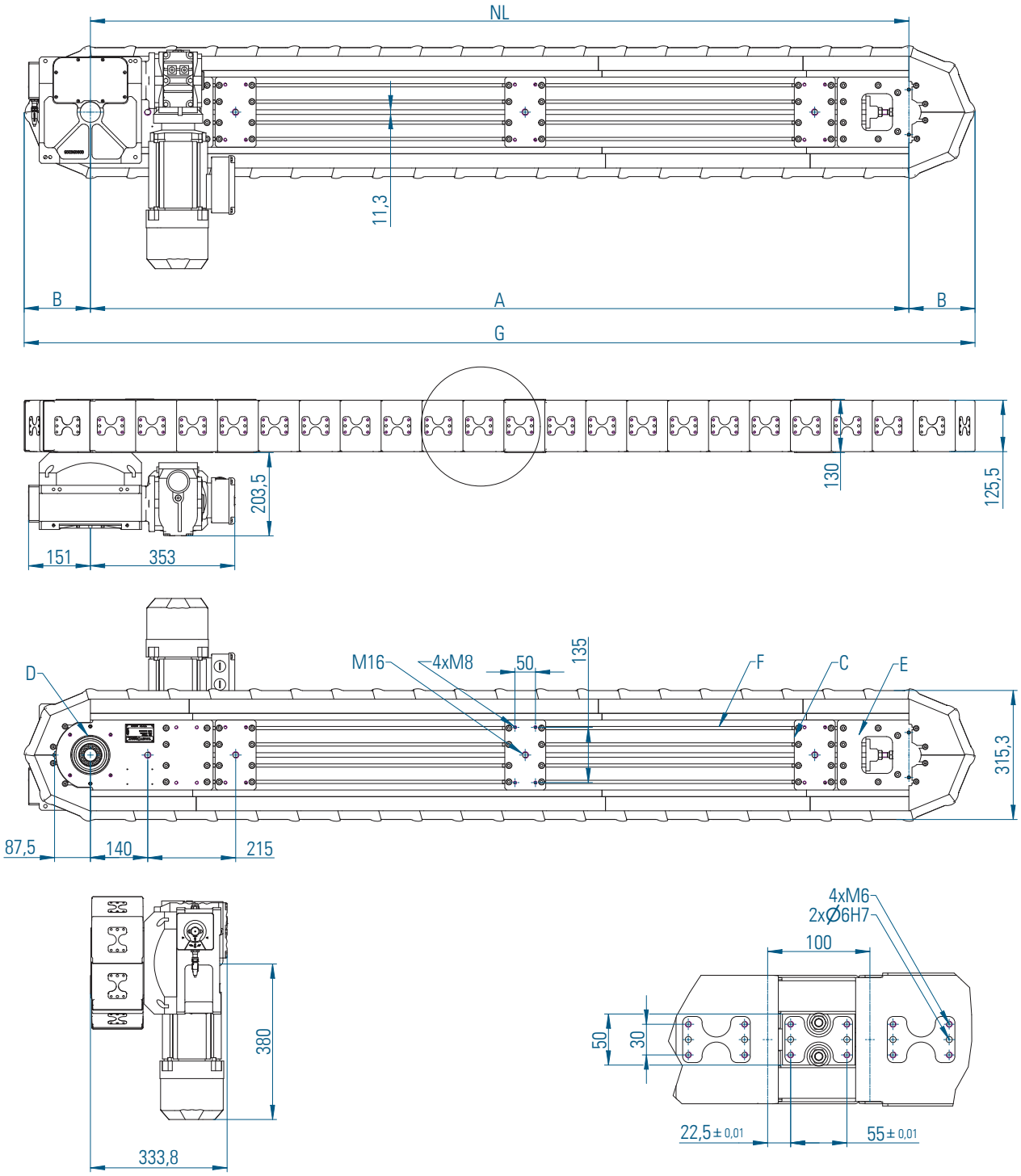
per static link	
Force vertical [N]	700
Force horizontal [N]	2600
Tilting moment [Nm]	80
Pull force at the chain [N]	3000

Precision

in feed direction**	
at the drive [mm]	±0,04
opposite the drive [mm]	±0,07
transverse to feed direction [mm]	±0,05
vertical runout [mm]	±0,03

** for the first and the last link in line we can not guarantee this precision.

LFA100



Dimensions

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The conveyor can be delivered without drive or the drive can be a servo. Special dust covers or rubber lips between the links are available.

⚠ Caution! Allow spacs on side of the index wheel for adjusting the preload!

A = Distance between U-Turns
B = 161,8 mm
C = plate
D = Stepping wheel
E = Deflection
F = Profile system
G = Total length = A+2xB
NL = Usable length

Load Table LFA100

s [mm]	t [s]	n_L= 10 ; n_T= 28 NL= 1000mm				n_L= 15 ; n_T= 38 NL= 1500mm				n_L= 20 ; n_T= 48 NL= 2000mm				n_L= 25 ; n_T= 58 NL= 2500mm				n_L= 30 ; n_T= 68 NL= 3000mm			
		m [kg]				m [kg]				m [kg]				m [kg]				m [kg]			
		0,5	1	1,5	2	0,5	1	1,5	2	0,5	1	1,5	2	0,5	1	1,5	2	0,5	1	1,5	2
100	t=	0,16	0,19	0,22	0,24	0,18	0,22	0,26	0,29	0,21	0,25	0,29	0,32	0,23	0,28	0,32	0,36	0,25	0,30	0,34	0,39
200	t=	0,24	0,29	0,33	0,37	0,28	0,34	0,39	0,44	0,31	0,38	0,44	0,49	0,35	0,42	0,48	0,54	0,38	0,46	0,52	0,59
300	t=	0,33	0,40	0,46	0,51	0,38	0,46	0,53	0,60	0,43	0,52	0,60	0,67	0,47	0,57	0,66	0,74	0,51	0,62	0,72	0,80
400	t=	0,40	0,51	0,59	0,65	0,45	0,57	0,68	0,74	0,50	0,63	0,75	0,81	0,55	0,68	0,81	0,89	0,60	0,73	0,87	0,95

s [mm]	t [s]	n_L= 35 ; n_T= 78 NL= 3500mm				n_L= 40 ; n_T= 88 NL= 4000mm				n_L= 45 ; n_T= 98 NL= 4500mm				n_L= 50 ; n_T= 108 NL=5000mm				n_L= 55 ; n_T= 118 NL=5500mm			
		m [kg]				m [kg]				m [kg]				m [kg]				m [kg]			
		0,5	1	1,5	2	0,5	1	1,5	2	0,5	1	1,5	2	0,5	1	1,5	2	0,5	1	1,5	2
100	t=	0,26	0,32	0,37	0,41	0,28	0,34	0,39	0,44	0,30	0,36	0,42	0,47	0,31	0,38	0,44	0,49	0,33	0,40	0,46	0,52
200	t=	0,40	0,49	0,56	0,63	0,43	0,52	0,60	0,67	0,45	0,55	0,63	0,71	0,47	0,58	0,67	0,75	0,50	0,60	0,70	0,79
300	t=	0,55	0,67	0,77	0,86	0,58	0,71	0,82	0,92	0,62	0,75	0,87	0,97	0,65	0,79	0,91	1,02	0,68	0,83	0,96	1,07
400	t=	0,65	0,78	0,92	1,02	0,68	0,82	0,97	1,08	0,72	0,86	1,02	1,14	0,75	0,90	1,06	1,19	0,79	0,95	1,12	1,25

s = Stroke [mm]
t = Stroke Time [s]

n_L = Number of links in line
n_T = Number of links total

m = Weight per link [kg]
NL = Usable length

Technical specifications

Main dimensions

Distance* [mm]	in steps of 100
Weight at A=2000 [kg]	350
Stroke time* [s]	see Load Table
Stroke* [mm]	100, 200, 300 or 400
Direction	right, left

* Other center distances, feed times or feed widths on request

Loadings

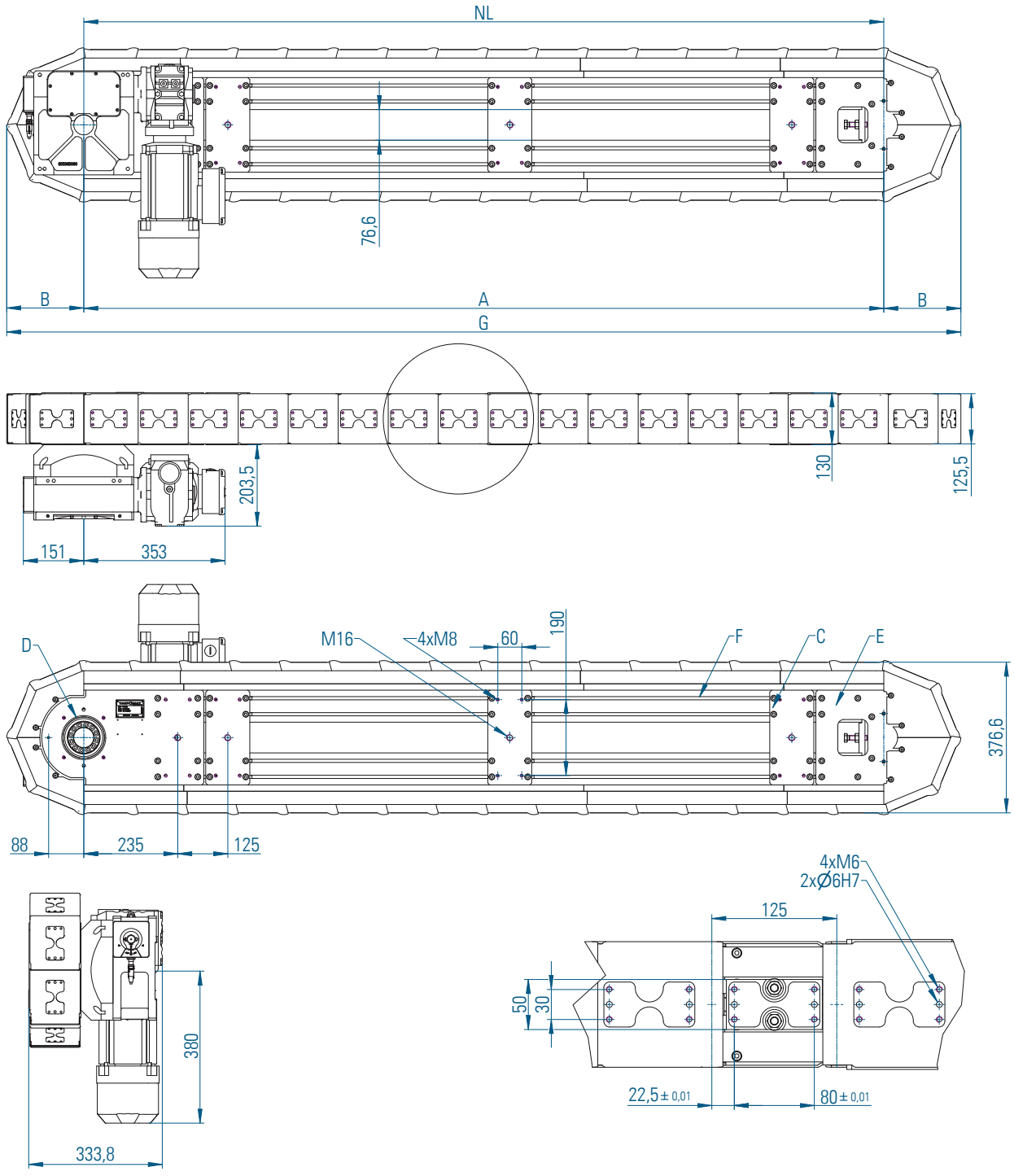
per static link	
Force vertical [N]	700
Force horizontal [N]	2600
Tilting moment [Nm]	80
Pull force at the chain [N]	3000

Precision

in feed direction**	
at the drive [mm]	±0,04
opposite the drive [mm]	±0,07
transverse to feed direction [mm]	±0,05
vertical runout [mm]	±0,03

** for the first and the last link in line we can not guarantee this precision.

LFA125



Dimensions

The dimensions shown here are the standard dimensions. Dimension „A" depends on the number of links. TAKTOMAT LFA Conveyors can either be mounted on the extruded aluminum „F" or on the steel plates „C". The links and the steel plates can be machined to your specifications.

The conveyor can be delivered without drive or the drive can be a servo. Special dust covers or rubber lips between the links are available.

⚠ Caution! Allow spacs on side of the index wheel for adjusting the preload!

A = Distance between U-Turns
B = 192.6 mm
C = plate
D = Stepping wheel
E = Deflection
F = Profile system
G = Total length = A+2xB
NL = Usable length

Load Table LFA125

s [mm]	t [s]	n_L= 8 ; n_T= 24 NL= 1000mm				n_L= 12 ; n_T= 32 NL= 1500mm				n_L= 16 ; n_T= 40 NL= 2000mm				n_L= 20 ; n_T= 48 NL= 2500mm				n_L= 24 ; n_T= 56 NL= 3000mm			
		m [kg]				m [kg]				m [kg]				m [kg]				m [kg]			
		0,5	1	1,5	2	0,5	1	1,5	2	0,5	1	1,5	2	0,5	1	1,5	2	0,5	1	1,5	2
125	t=	0,17	0,20	0,23	0,25	0,19	0,23	0,26	0,29	0,22	0,26	0,29	0,32	0,24	0,28	0,32	0,36	0,26	0,30	0,35	0,39
250	t=	0,25	0,30	0,34	0,38	0,29	0,35	0,40	0,44	0,33	0,39	0,45	0,49	0,36	0,43	0,49	0,54	0,39	0,46	0,53	0,59
375	t=	0,35	0,41	0,47	0,52	0,40	0,48	0,54	0,60	0,45	0,53	0,61	0,68	0,49	0,59	0,67	0,74	0,53	0,63	0,72	0,80
500	t=	0,45	0,52	0,59	0,66	0,50	0,59	0,66	0,74	0,55	0,71	0,75	0,82	0,60	0,77	0,82	0,87	0,64	0,81	0,87	0,93

s [mm]	t [s]	n_L= 28 ; n_T= 64 NL= 3500mm				n_L= 32 ; n_T= 72 NL= 4000mm				n_L= 36 ; n_T= 80 NL= 4500mm				n_L= 40 ; n_T= 88 NL=5000mm				n_L= 44 ; n_T= 96 NL=5500mm			
		m [kg]				m [kg]				m [kg]				m [kg]				m [kg]			
		0,5	1	1,5	2	0,5	1	1,5	2	0,5	1	1,5	2	0,5	1	1,5	2	0,5	1	1,5	2
125	t=	0,27	0,33	0,37	0,41	0,29	0,35	0,40	0,44	0,31	0,37	0,42	0,46	0,32	0,38	0,44	0,49	0,34	0,40	0,46	0,51
250	t=	0,42	0,50	0,57	0,63	0,44	0,53	0,60	0,67	0,47	0,56	0,64	0,71	0,49	0,58	0,67	0,74	0,51	0,61	0,70	0,78
375	t=	0,57	0,68	0,77	0,86	0,60	0,72	0,82	0,92	0,64	0,76	0,87	0,97	0,67	0,80	0,91	1,02	0,70	0,83	0,95	1,06
500	t=	0,69	0,86	0,93	1,00	0,72	0,91	0,98	1,06	0,76	0,95	1,04	1,11	0,80	1,00	1,09	1,15	0,84	1,03	1,13	1,19

s = Stroke [mm]
t = Stroke Time [s]

n_L = Number of links in line
n_T = Number of links total

m = Weight per link [kg]
NL = Usable length

Technical specifications

Main dimensions

Distance* [mm]	in steps of 125
Weight at A=2000 [kg]	400
Stroke time* [s]	see Load Table
Stroke* [mm]	125, 250, 375 or 500
Direction	right, left

* Other center distances, feed times or feed widths on request

Loadings

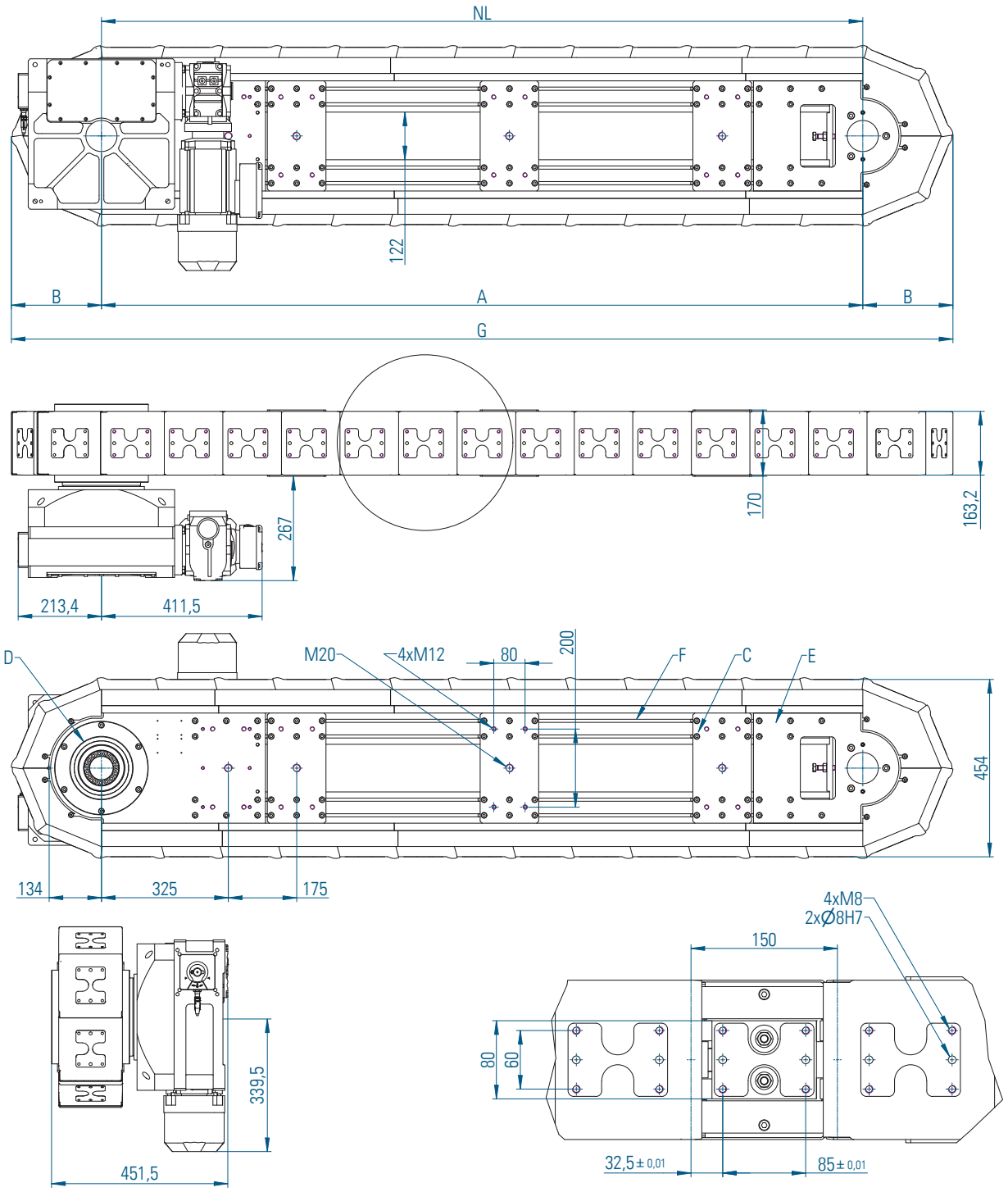
per static link	
Force vertical [N]	700
Force horizontal [N]	2600
Tilting moment [Nm]	80
Pull force at the chain [N]	3000

Precision

in feed direction**	
at the drive [mm]	±0,04
opposite the drive [mm]	±0,07
transverse to feed direction [mm]	±0,05
vertical runout [mm]	±0,03

** for the first and the last link in line we can not guarantee this precision.

LFA150



Dimensions

The dimensions shown here are the standard dimensions. Dimension „A“ depends on the number of links. TAKTOMAT LFA Conveyors can either be mounted on the extruded aluminum „F“ or on the steel plates „C“. The links and the steel plates can be machined to your specifications.

The conveyor can be delivered without drive or the drive can be a servo. Special dust covers or rubber lips between the links are available.

⚠ Caution! Allow spacs on side of the index wheel for adjusting the preload!

A = Distance between U-Turns
B = 230.8 mm
C = Plate
D = Stepping wheel
E = Deflection
F = Profile system
G = Total length = A+2xB
NL = Usable length

Load Table LFA150

s [mm]	t [s]	n_L= 7 ; n_T= 22 NL= 1050mm				n_L= 12 ; n_T= 32 NL= 1800mm				n_L= 16 ; n_T= 40 NL= 2400mm				n_L= 20 ; n_T= 48 NL= 3000mm				n_L= 24 ; n_T= 56 NL= 3600mm			
		m [kg]				m [kg]				m [kg]				m [kg]				m [kg]			
		0,5	1	1,5	2	0,5	1	1,5	2	0,5	1	1,5	2	0,5	1	1,5	2	0,5	1	1,5	2
150	t=	0,28	0,30	0,32	0,34	0,30	0,33	0,35	0,38	0,32	0,35	0,38	0,41	0,34	0,37	0,40	0,44	0,35	0,39	0,43	0,46
300	t=	0,39	0,42	0,46	0,48	0,42	0,46	0,50	0,53	0,45	0,49	0,54	0,57	0,48	0,53	0,57	0,62	0,50	0,56	0,61	0,65
450	t=	0,52	0,56	0,60	0,64	0,56	0,61	0,66	0,70	0,59	0,65	0,71	0,76	0,63	0,69	0,75	0,81	0,66	0,73	0,80	0,86
600	t=	0,66	0,70	0,74	0,80	0,70	0,75	0,80	0,86	0,73	0,79	0,85	0,92	0,77	0,83	0,89	0,97	0,80	0,87	0,94	1,02

s [mm]	t [s]	n_L= 28 ; n_T= 64 NL= 4200mm				n_L= 32 ; n_T= 72 NL= 4800mm				n_L= 36 ; n_T= 80 NL= 5400mm				n_L= 40 ; n_T= 88 NL=6000mm				n_L= 44 ; n_T= 96 NL=6600mm			
		m [kg]				m [kg]				m [kg]				m [kg]				m [kg]			
		0,5	1	1,5	2	0,5	1	1,5	2	0,5	1	1,5	2	0,5	1	1,5	2	0,5	1	1,5	2
150	t=	0,37	0,41	0,45	0,49	0,39	0,43	0,47	0,51	0,40	0,45	0,50	0,54	0,42	0,47	0,52	0,56	0,43	0,49	0,54	0,58
300	t=	0,52	0,58	0,64	0,69	0,55	0,61	0,67	0,73	0,57	0,64	0,70	0,76	0,59	0,66	0,73	0,79	0,61	0,69	0,76	0,82
450	t=	0,69	0,77	0,84	0,91	0,72	0,81	0,88	0,96	0,75	0,84	0,92	1,00	0,78	0,87	0,96	1,04	0,81	0,91	1,00	1,09
600	t=	0,86	0,96	1,04	1,13	0,89	1,00	1,08	1,18	0,92	1,03	1,12	1,22	0,95	1,06	1,16	1,26	0,98	1,10	1,20	1,30

s = Stroke [mm]
t = Stroke Time [s]

n_L = Number of links in line
n_T = Number of links total

m = Weight per link [kg]
NL = Usable length

Technical specifications

Main dimensions

Distance* [mm]	in steps of 150
Weight at A=2000 [kg]	800
Stroke time* [s]	see Load Table
Stroke* [mm]	150, 300, 450 or 600
Direction	right, left

* Other center distances, feed times or feed widths on request

Loadings

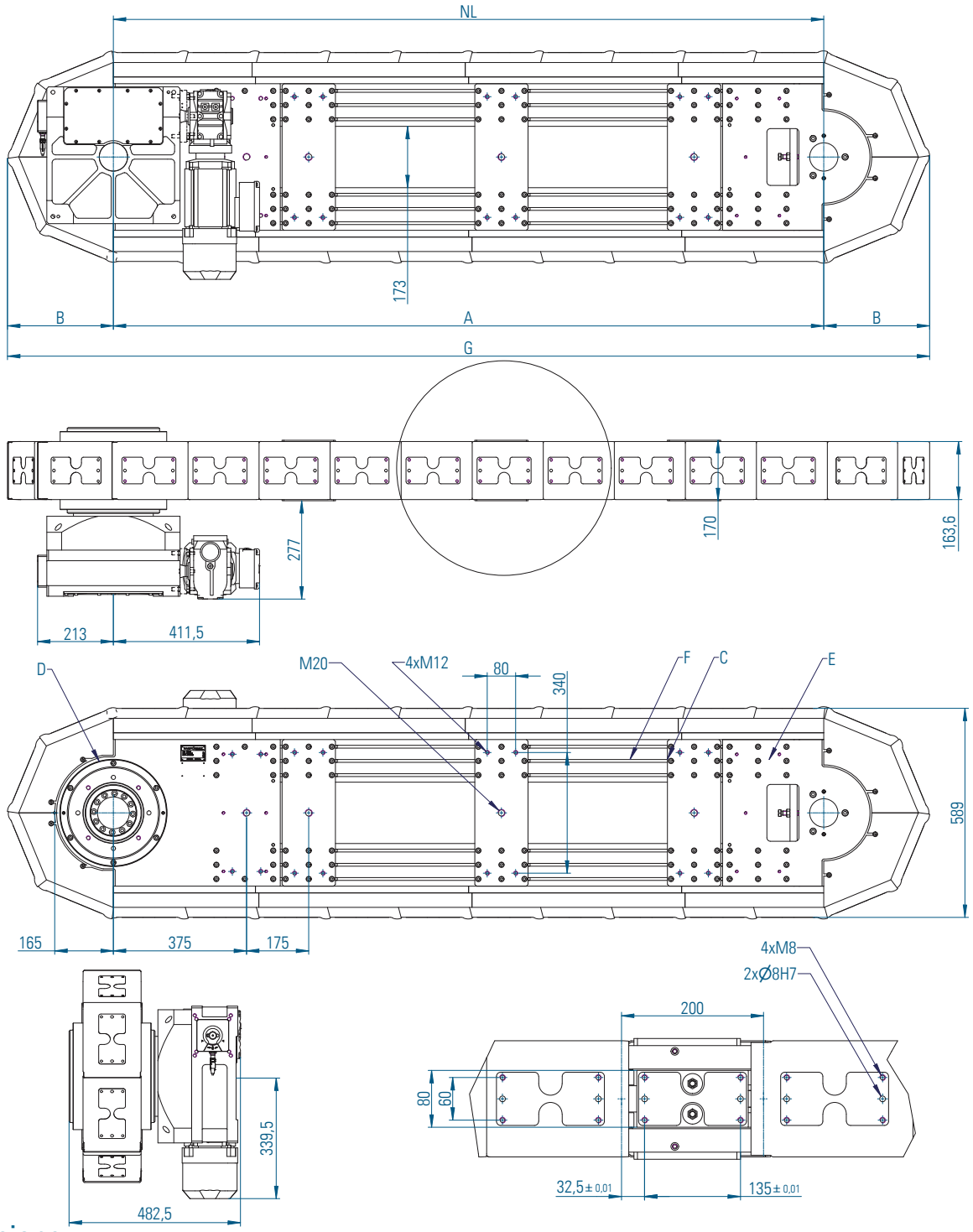
per static link	
Force vertical [N]	1250
Force horizontal [N]	2600
Tilting moment [Nm]	120
Pull force at the chain [N]	6000

Precision

in feed direction**	
at the drive [mm]	±0,04
opposite the drive [mm]	±0,07
transverse to feed direction [mm]	±0,05
vertical runout [mm]	±0,03

** for the first and the last link in line we can not guarantee this precision.

LFA200



Dimensions

The dimensions shown here are the standard dimensions. Dimension „A" depends on the number of links. TAKTOMAT LFA Conveyors can either be mounted on the extruded aluminum „F" or on the steel plates „C". The links and the steel plates can be machined to your specifications.

The conveyor can be delivered without drive or the drive can be a servo. Special dust covers or rubber lips between the links are available.

⚠ Caution! Allow spacs on side of the index wheel for adjusting the preload!

A = Distance between U-Turns
B = 298,0 mm
C = Plate
D = Stepping wheel
E = Deflection
F = Profile system
G = Total length = A+2xB
NL = Usable length

Load Table LFA200

s [mm]	t [s]	n_L= 5 ; n_T= 18 NL= 1000mm				n_L= 8 ; n_T= 24 NL= 1600mm				n_L= 10 ; n_T= 28 NL= 2000mm				n_L= 13 ; n_T= 34 NL= 2600mm				n_L= 15 ; n_T= 38 NL= 3000mm			
		m [kg]				m [kg]				m [kg]				m [kg]				m [kg]			
		0,5	1	1,5	2	0,5	1	1,5	2	0,5	1	1,5	2	0,5	1	1,5	2	0,5	1	1,5	2
200	t=	0,24	0,25	0,25	0,26	0,26	0,26	0,27	0,28	0,26	0,27	0,28	0,29	0,28	0,28	0,29	0,31	0,28	0,29	0,30	0,32
400	t=	0,36	0,37	0,38	0,39	0,38	0,39	0,40	0,41	0,39	0,40	0,42	0,43	0,40	0,42	0,44	0,45	0,42	0,43	0,45	0,47
600	t=	0,47	0,48	0,49	0,50	0,49	0,51	0,52	0,53	0,50	0,52	0,54	0,55	0,52	0,54	0,56	0,58	0,54	0,56	0,58	0,60
800	t=	0,58	0,59	0,60	0,61	0,60	0,61	0,63	0,65	0,61	0,63	0,65	0,67	0,63	0,65	0,68	0,70	0,65	0,67	0,70	0,72

s [mm]	t [s]	n_L= 18 ; n_T= 44 NL= 3600mm				n_L= 20 ; n_T= 48 NL= 4000mm				n_L= 23 ; n_T= 54 NL= 4600mm				n_L= 25 ; n_T= 58 NL=5000mm				n_L= 28 ; n_T= 64 NL=5600mm			
		m [kg]				m [kg]				m [kg]				m [kg]				m [kg]			
		0,5	1	1,5	2	0,5	1	1,5	2	0,5	1	1,5	2	0,5	1	1,5	2	0,5	1	1,5	2
200	t=	0,30	0,30	0,32	0,33	0,30	0,31	0,33	0,34	0,30	0,32	0,34	0,36	0,32	0,33	0,35	0,37	0,32	0,34	0,36	0,38
400	t=	0,43	0,45	0,47	0,49	0,44	0,46	0,48	0,50	0,46	0,48	0,50	0,52	0,46	0,49	0,51	0,54	0,48	0,50	0,53	0,56
600	t=	0,55	0,58	0,60	0,62	0,56	0,59	0,62	0,64	0,58	0,61	0,64	0,67	0,59	0,62	0,65	0,68	0,61	0,64	0,67	0,71
800	t=	0,67	0,69	0,72	0,75	0,68	0,71	0,74	0,77	0,70	0,73	0,76	0,80	0,71	0,75	0,78	0,82	0,73	0,77	0,81	0,84

s = Stroke [mm]
t = Stroke Time [s]

n_L = Number of links in line
n_T = Number of links total

m = Weight per link [kg]
NL = Usable length

Technical specifications

Main dimensions

Distance** [mm]	in steps of 200
Weight at A=2000 [kg]	950
Stroke time** [s]	see Load Table
Stroke** [mm]	200, 400, 600 oder 800
Direction	right, left

* Other center distances, feed times or feed widths on request

Loadings

per static link	
Force vertical [N]	1250
Force horizontal [N]	2600
Tilting moment [Nm]	120
Pull force at the chain [N]	6000

Precision

in feed direction**	
at the drive [mm]	±0,04
opposite the drive [mm]	±0,07
transverse to feed direction [mm]	±0,05
vertical runout [mm]	±0,03

** for the first and the last link in line we can not guarantee this precision.

Inquiry and order form for TAKTOMAT conveyor LFA (1)

Firm _____ E-Mail adress _____

Contact person _____ Project / Order no. _____

Tel. / Fax _____ Date _____

Type

☐ LFA080
☐ LFA100
☐ LFA125
☐ LFA150
☐ other type _____

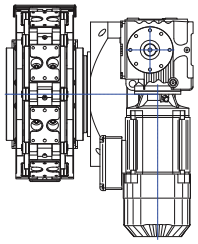
Distance A [mm] _____
Number of links in line n_L _____
Stroke (0,5 x, 1 x, 2 x, 3 x or 4 x length of one link)
_____

☐ vertical assembly (use only the links on top)
☐ horizontal assembly (the links on both sides can be used)

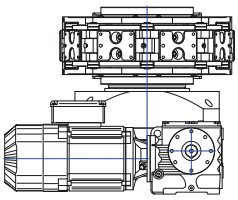
Payload

Weight of a fixture _____
Weight of a workpiece
_____
Distance from center point of mass of payload to surface of the link
_____

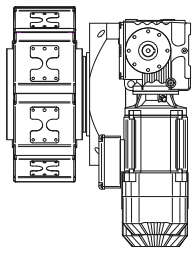
vertical assembly



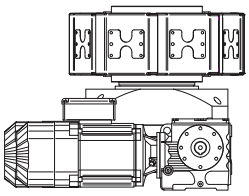
horizontal assembly



vertical assembly with protection

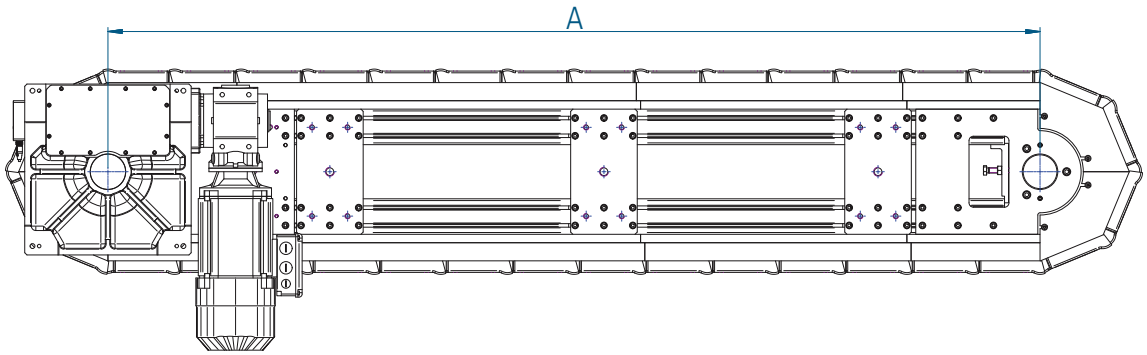


horizontal assembly with protection



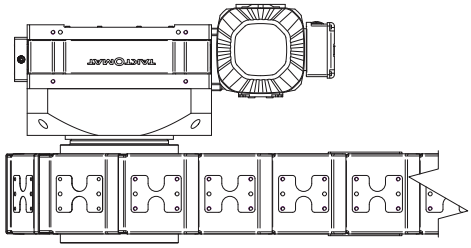
Mode of motion

☐ Stop mode (fixed index time, variable dwell time)
index time _____
☐ Continuous mode (fixed index and dwell time)
Number of cycles per minute _____
Ratio index time : dwell time (or angle) _____
☐ Flexible (with torque or servo motor)

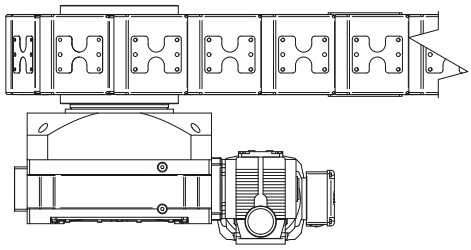


Inquiry and order form for TAKTOMAT conveyor LFA (2)

Possible mounting positions for the drive units

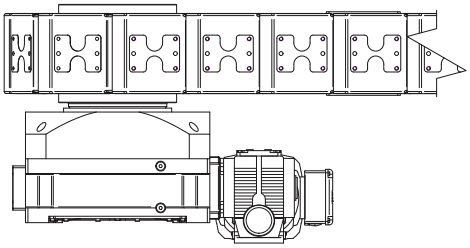


Right

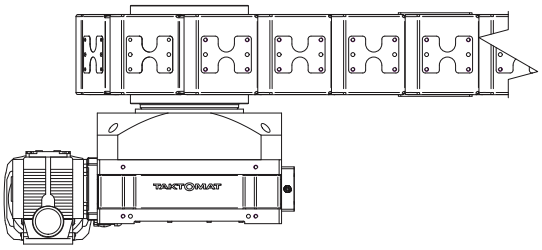


Left

Position of the free drive shaft



I (free drive shaft to the outside)



A (free drive shaft to the inside)

Drive

☐ With indexer type RTxxx

Mounting position of drive ☐ L ☐ R

Position of the free drive shaft ☐ A ☐ I (for vertical shaft)

Motor voltage ☐ 230/400V 50Hz

☐ 277/480V 60Hz

☐ other _____

☐ with external drive (servomotor and gearbox or similar) _____

☐ Torque

☐ Without drive

Brake Voltage ☐ 24V DC

☐ 230V AC

☐ 400V AC

☐ other _____

Accessories

Color

Cast housing ☐ RAL7016 ☐ other _____

Color of the drive ☐ Fabricator color ☐ other _____

machined steel parts blued, aluminum parts nature

Protection cover ☐ yes ☐ no

Universal Controller TIC ☐ yes ☐ no

Accessories

Universal Controler TIC

Features and user benefits

An index table can be controlled in many different ways. We have developed this universal control to provide our customers with a user-friendly tool for operating the rotary table requiring minimal effort on the operator's part.

- Cycle time optimization through accurately stopping the drive in Dwell
- Minimizing installation and hardware expenses
- Easy integration through fieldbus connection (ProfiNet, EtherCAT, Ethernet / IP) and integration aids (step by step instructions and video tutorial)
- Motor protection switch and mechanical or electronic contactors can be eliminated. Only line protection necessary.
- Fast, gentle gear brakes with emergency stop
- Safety functions STO, SS1, SLS for max. PL e (SIL 3) at STO
- Soft restart or after emergency stop
- Machine gently jog also possible for large tables
- Oscillation or rotation reversal without additional hardware possible
- Simple change of speed possible
- No brake wear, the brake only closes after emergency stop
- Monitoring the engine temperature
- Compact, space-saving design

Common applications

The universal control is the ideal solution for all three-phase motor-driven gears:

- Rotary indexers type RT, RTX and TT
- Rotary indexer TSR
- Globoidal index drives TG
- Parallel gears XP, TP and SP
- Linear transfer system type LFA

Notes

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TAKTOMAT
passion for automation

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