



Customer: Lenze BO

Contacts: Lenze

Phone:

E-mail:

Project:

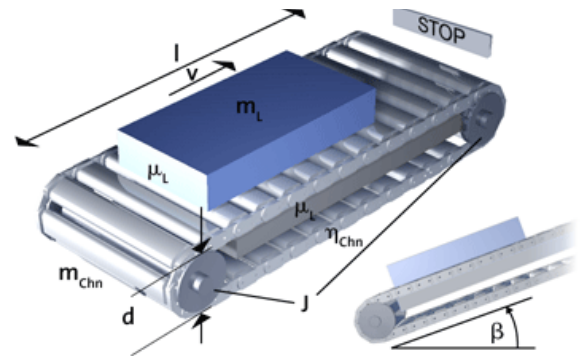
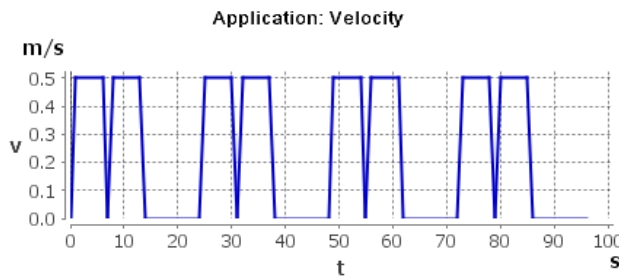
Drive axis: Kettenförderer 2000kg, 0,5 ms⁻² 0,5ms²

Chain conveyor

Diameter of the drive roll	d	91.0 mm
Mass of the chain	m _{chn}	13.0 kg
Coefficient of friction chain/bearing	μ _{Gdn}	0.120
Chain efficiency	η _{chn}	0.950
Additional force	F _{add}	0 N
Angle of tilt	β	0 °
Coefficient of friction of load/chain	μ _L	
Moment of inertia of rollers	J _{sum}	2.64E-03 kgm ²

Kinematic key data

Cycle time	t	96.0 s
Max. velocity	v _{max}	0.500 m/s
Max. acceleration	a _{max}	0.500 m/s ²
Max. mass in motion	m _{sum,max}	2613 kg



Electrical supply and ambient conditions

Electrical supply system

Max. motor/inverter ambient temperature

Site altitude

	3AC 400 V 50 Hz
θ _{opr}	30 °C / 40 °C
h	1000 m

Calculated requirement of the application

Max. working point

Effective base process power of the application

Moment of inertia application

Max. load-matching factor

opr _{max}	105 1/min / 358 Nm / 2.30 kW
P _{rms,cto}	0.944 kW
J _{min} / J _{max}	0.0296 kgm ² / 5.41 kgm ²
K _{J,max}	3.9

Selected products

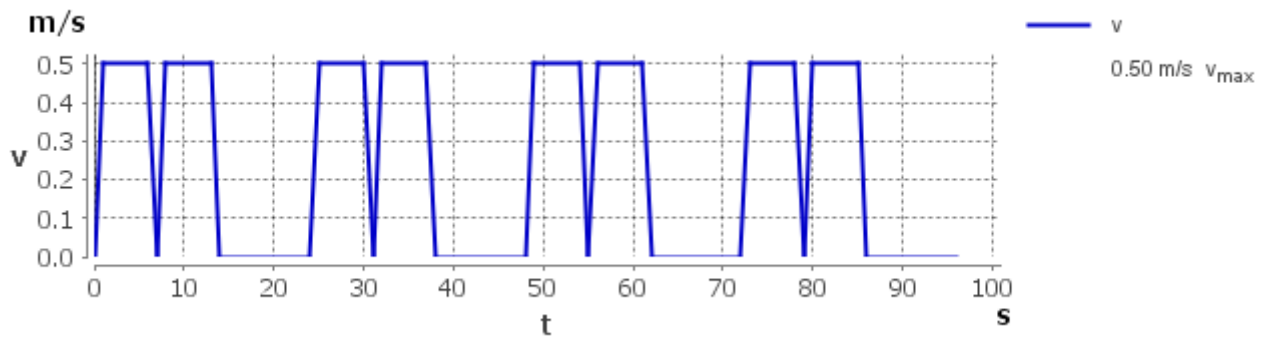
Rated data

Utilisation
Thermal Maximum

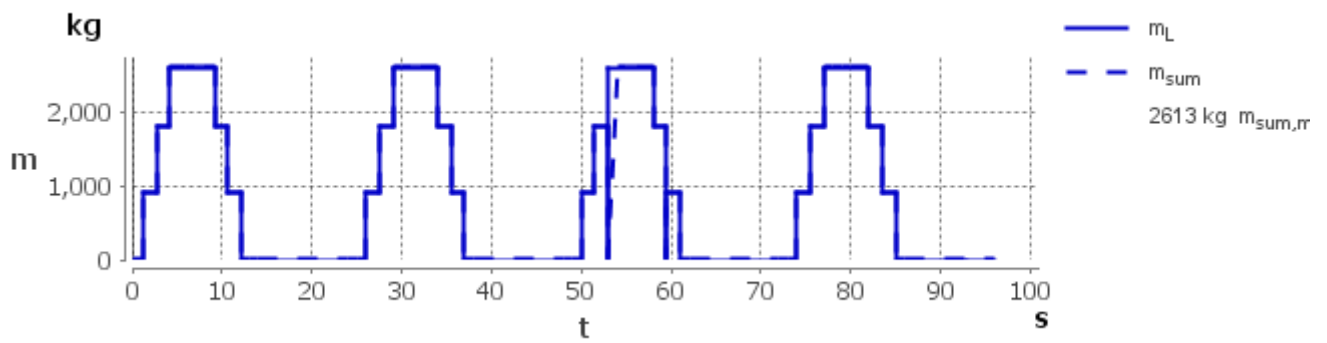
Motor	1 x MSEMXX080-32			
	P _N , n _N , M _N	1.36 kW / 2600 1/min / 5.00 Nm	M	84 %
Gearboxes	1 x g500-B450 (Direct mounting)			
	i _G , M _{per,out}	22.8130 / 425 Nm	M	28 % 84 %
			n	32 % 53 %
Electromechanical brake	without brake			
Feedback	without			



Application: Velocity



Application: Mass in motion



Application: Counterforce

