

PositioningDrives bVd'S La` X'YgdsI [a` VW[g` e[efW S V[SI [a` S_ Wfa VWfcdLa

Application System parameters Selection filter Guide Motion profile Results Details Parts list Project Data

System parameters

Selection, Axis type

Guide integrated

Gantry axis

Cantilever axis

Note
The axes are operated as gantry or cantilever axes. Axes with slide are cantilever axes with enhanced mounting possibilities.

Required input

Assembly position
 Horizontal
 Vertical
 Any

Axis
 Maximum moving mass: 125 kg
 Effective stroke: 600 mm
 Repetition accuracy: 0,5 mm
 Highest precision (in addition)
 Additional external force: 0 N

Optional Input

Motion profile
 Usable length, no time restriction
 Detailed motion profile
 Critical stroke

Travel time + Dwell time <= 60 s

Axis technology

Tooth belt
 3,795 ... 3,825 s

Spindle
 3,796 ... 4,170 s

PositioningDrives

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3eewS U' YZ[S VW fSfSI S h'fMa

_ afadV' VSdV eVdha_ afad!

_ afad bSeea bSeea a _ afad 65I

Yg[VMS dU[clh a V eXVdMa S

efdeU[S Wfa, 'S Yd' VWcgS f'fR

V[S'fVd Sf[hVbVd V'fVMS'Yg'f'fI I S'Z

fadW[eUW'fVdM' bSULZVfVa bLz

SbbcbdbSfaZ

4SefS [eVd' dVbaLZ[Vsf

VW'YbV'fLSI [a` VW'f'eaXfI SdW

PositioningDrives LS'La'S'S

_ [Y'fadMa_ T' SI [a` WfdS See

VWfcdU' f' VSd! _ afad! dVgffad!

SI [a` S_ Wf[WeaXfI SdW

6S'S fefS VW' d'eg' fSf' I cg[V[

baee[T' W'eVW['a' SdM' bSULZVfVa

eVdha' Va [d'Vg[e]f'z

BSdS_Vid[V Spplical ionW

@W'S eW[a` W 3bb'fLSI [a` W e[

[eVd'eLa` a [VSf[V] baeI [a` W

USdLa, UadS WbdW[e]a` W 7x

baee[T' WLa_ Wabl [a` VW'f' [dW

'S VgdfS VW_ ah'_ W faZ' G' S

eVW['a' WbdV' _ SdWVWS

fVU' a' Ya'YS bVd_ afad' WSI [a` S'Z

_ W faI La_ Wbgd' W'VhScS' f[

VWS Yg[VSI f' [fS [^ g_ Vd' W'VW

La_ T' SI [a` [WbVd_ V'fVW[afVZ

' VdWbLz dSb[V'S_ W fV[d'eg' fSf'z

>S ea' gI [a` VW'f' W'fSf

BVd'XU' f'fSd'V'S eVW['a' Wh' ea` a

V[hVd' Wbaee[T' f'fR' U' See' X'US'Z

I [a` VZ'>S La_ T' SI [a` W' See' W

_ afad' dVgffad' WSI [a` S_ Wfa

h[W Wh' egS' fI I S'fS YdS' US_ W fW

_ WfdM' YdS' Va V[eXt' f'fS_ W fa I

[V[USfa La` g' YdS' X'La' S Tsd' W

5'fUS' Va eg'S' X'Ygds' VWLa_ baZ

' W fV[e] Sbd'W'S La' d'eba' V' W fV

VaUg_ W fSI [a` W W'S f' YgS

eUW'fS'z

D[eg' fSf' W'fSY' fSf'

' bdaYdS_ S Xad [eUW] Xad S'Z

I [a` [V'fVSY' fSf' WLa_ Wbda' X' a V[

_ ah'_ W faI VSf[V[USdLa

V[S_ [LaI USdS' fVd'ef' LZW[

bdaV'faI' W' fefS La_ ba` W f'fz

G' S VaUg_ W fSI [a` W

V'fVSY' fSfS VW' bda' V'fVa W'S

_ W ad' I SI [a` VW'f' VSf[

La_ b' W'S' a' W'g' I [a` [V' W'

PositioningDrives.

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Results

Results: No. 4

Please ensure that the following dynamic values the dimensioning is based on do not exceed the limit values of your equipment
 Speed: 0,500 m/s
 Acceleration: 4,788 m/s²
 Deceleration: 4,788 m/s²

Guide Load for continuous operation: These values may differ from catalogue data

Selected drive

Axis: EGC-120-BS-10P-KF-GK
 Motor: EMME-AS-80-S-LS-AX
 Controller: CMPR-AS-C2-3A-Mx

Axis kit: EAMM-A-562-80P
 No gear
 Power section: 230 VAC (Single-phase)

Overview about performance data

Effective stroke	Required: 600 mm	Possible by axis: 2500 mm
Repetition accuracy	0,5 mm	0,02 mm
Moving mass	125 kg	330 kg
Additional external force	0,0 N	
Travel time + Dwell time	4,454 s	
Dwell time	0,600 s	

39 Results: Optimum sizes of the axes

No.	Axis	Size	Guide	Motor	Gear	Axis	Motor	Guide	Travel time
1	Ball screw	80	Ball bearing	Servo AC	---	72 %	87 %	88 %	3,877
2	Ball screw	80	Ball bearing	Servo AC	---	72 %	87 %	88 %	3,877
3	Ball screw	80	Ball bearing	Servo AC	---	72 %	87 %	88 %	3,877
4	Ball screw	120	Ball bearing	Servo AC	---	71 %	81 %	71 %	3,894
5	Ball screw	120	Ball bearing	Servo AC	---	71 %	81 %	71 %	3,894
6	Tooth belt	120	Ball bearing	Servo AC	S11	77 %	82 %	75 %	3,835
7	Ball screw	120	Ball bearing	Servo AC	---	76 %	82 %	75 %	3,858
8	Ball screw	120	Ball bearing	Servo AC	---	76 %	82 %	75 %	3,853
9	Tooth belt	120	Ball bearing	Servo AC	S11	77 %	81 %	75 %	3,835
10	Ball screw	120	Ball bearing	Servo AC	---	77 %	81 %	75 %	3,808

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Details

Results diagrams - Values

Select diagram options by means of context menu of diagram area (right mouse button)
 Zoom 100 %; Double clicking diagram area

Stroke: 451,398 mm
 Speed: 0,5220 m/s
 Acceleration: 4,500 m/s²
 Time: 2,687 s

Total (Motion profile, Complete)

Duty ratio: 87 %
 Cycle time: 4,454 s
 Travel time: 3,854 s
 Dwell time: 0,600 s

Maximum (Motion profile, Complete)

Speed: 0,500 m/s
 Acceleration: 4,788 m/s²
 Deceleration: 4,788 m/s²

Results diagrams Dynamic data Product data Axis Product data Motor

Voi chiedete posizionamenti semplici.
 Voi volete prestazioni ottimali.
 Noi vi forniamo un sistema completo.

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