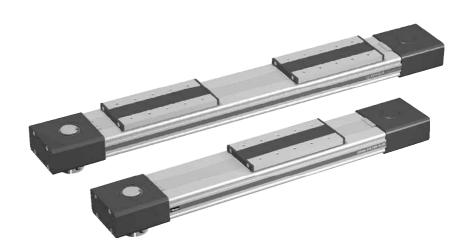
OSP-E..BHD Belt Actuator with Integrated Guide

Ball Bearing GuideRoller Guide



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The System Concept

BELT ACTUATOR WITH INTEGRATED GUIDE FOR HEAVY DUTY APPLICATIONS

The latest generation of high capacity actuators, the OSP-E..BHD series combines robustness, precision and high performance. The aesthetic design is easily integrated into any machine constructions by virtue of extremely adaptable mountings.

Belt Actuator with Integrated Guide - selective with Ball Bearing Guide or Roller Guide

Advantages:

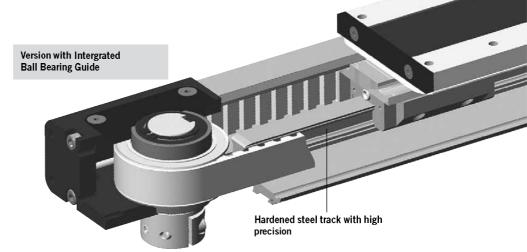
- Accurate path and position control
- High force output
- High speed operation
- High load capacity
- Easy installation
- Low maintenance
- Ideal for multi-axis applications

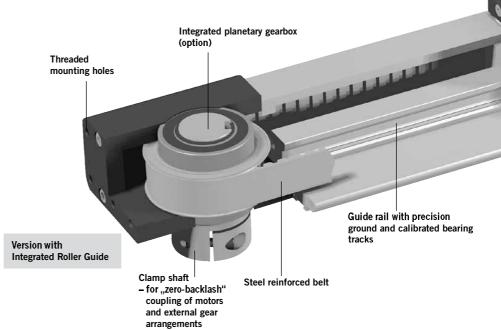
Features:

- Integrated ball bearing guide or integrated roller guide
- Diverse range of multi-axis connection elements
- Diverse range of accessories and mountings
- Complete motor and control packages
- Optional integrated planetary gearbox
- Special options on request

Take the easy route and load all the dimensions into your system. The file is suitable for all current CAD systems – available on CD-Rom or at www.parker-origa.com



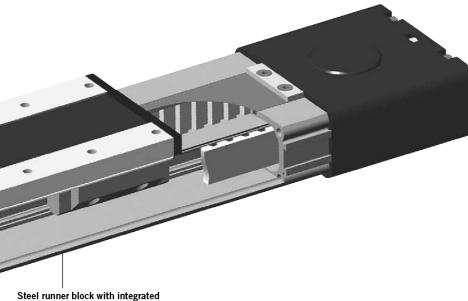




Drive Shaft Versions







scraper system and grease nipples Corrosion resistant steel sealing band Threaded mounting holes compatible with Proline series Carriage Slotted profile with dovetail grooves Permanent magnet for contactless position sensing **MULTI-AXIS SYSTEMS** Rollers on needle bearings for

BI-PARTING Version for perfectly synchronised bi-parting movements.

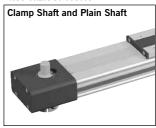
smooth operation up to 10 m/s.



A wide range of adapter plates and intermediate drive shafts simplify engineering and installation



Drive Shaft OPTIONS





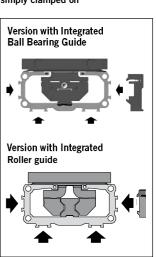
OPTION Integrated planetary gearbox



- Highly compact and rigid solution fully integrated in the drive cap housing
- Purpose designed for the BHD series
- Available with three standard ratios (3, 5 and 10)
- Very low backlash
- A wide range of available motor flanges

The dovetailed mounting rails of the new linear actuator expand its function into that of a universal system carrier.

Modular system components are simply clamped on



Accessories

OPTIONS AND ACCESSORIES

OSP-E..BHD BELT ACTUATOR WITH INTEGRATED GUIDE

STANDARD VERSIONS OSP-E..BHD

Standard carrier with integrated guide and magnets for contactless position sensing. Dovetail profile for mounting of accessories and the actuator itself.



DRIVE SHAFT WITH CLAMP SHAFT

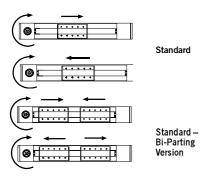


DRIVE SHAFT WITH PLAIN SHAFT



ACTUATING DIRECTION

Important in parallel operations, e.g. with intermediate drive shaft



OPTIONS

TANDEM

For higher moment support.



BI-PARTING VERSION For perfectly synchronised

bi-parting movements.



DRIVE SHAFT WITH CLAMP SHAFT AND PLAIN SHAFT

For connections with intermediate drive shaft



HOLLOW SHAFT WITH KEYWAY

For close coupling of motors and external gears.



INTEGRATED PLANETARY GEARBOX

For compact installation and very low backlash.



ACCESSORIES

MOTOR MOUNTINGS



END CAP MOUNTING

For mounting the actuators on the end cap.



PROFILE MOUNTING

For supporting long actuators or mounting the actuators on dovetail grooves.



MAGNETIC SWITCHES TYPE RS AND ES

For contactless position sensing of end stop and intermediate carrier positions.



MULTI-AXIS SYSTEMS

For modular assembly of actuators up to multi-axis systems.



Chai	racteristics			
Cha	racteristics		Symbol	Unit Description
Gen	eral Features			
Seri	es			OSP-EBHD
Nam	ne			Belt Actuator with integrated Ball Bearing Guide
Mou	nting			See drawings
,~	pient- perature range	$\vartheta_{\scriptscriptstyle{max}}$	သို့ သိ	-30 +80
Weig	ght (mass)		kg	Seetable
Insta	allation			In any position
	Slotted profile			Extruded anodized aluminium
	Belt			Steel-corded polyurethane
	Pulley			Aluminium
	Guide			Ball Bearing Guide
Materia	Guide rail			Hardened steel rail with high precision, accuracy class N
2	Guide carrier			Steel carrier with integrated wiper system, grease nipples, preloaded 0.02 x C, accuracy class H
	Sealing band			Hardened, corrosion resistant steel
	Screws, nuts			Zinc plated steel
	Mountings			Zinc plated steel and aluminium
Enca	apsulation class		IP	54

Weight (mass)	and Inerti	a						
Series	Weight (mass At stroke 0 m)[kg] Add per metre stroke	Moving mass	Inertia [x 10 ⁶ kgm ²] At stroke 0 m Add per metre stroke per kg mass				
OSP-E20BHD	2.8	4	0.8	280	41	413		
OSP-E25BHD	4.3	4.5	1.5	1229	227	821		
OSP-E32BHD	8.8	7.8	2.6	3945	496	1459		
OSP-E50BHD	26	17	7.8	25678	1738	3103		
OSP-E20BHD*	4.3	4	1.5	540	41	413		
OSP-E25BHD*	6.7	4.5	2.8	2353	227	821		
OSP-E32BHD*	13.5	7.8	5.2	7733	496	1459		
OSP-E50BHD*	40	17	15	49180	1738	3103		

^{*} Version: Tandem and Bi-parting (Option)

Installation Instructions

Use the threaded holes in the end cap for mounting the actuator. Check if profile mountings are needed using the maximum allowable unsupported length graph on page 17. At least one end cap must be secured to prevent axial sliding when profile mountings are used.

Maintenance

Depending on operating conditions, inspection of the actuator is recommended after 12 months or 3000 km operation.

Please refer to the operating instructions supplied with the actuator.

First service start-up

The maximum values specified in the technical data sheet for the different products must not be exceeded. Before taking the actuator as a machine into service, the user must ensure the adherence to the EC Machine Directive 2006/42/EG.

OSP-E..BHD

Belt Actuator with integrated Ball Bearing Guide

Size 20 to 50



Standard Versions

- Belt Actuator with integrated Ball Bearing Guide
- Drive shaft with clamp shaft or plain shaft
- Choice of motor mounting side
- Dovetail profile for mounting of accessories and the actuator itself

Options

- Tandem version for higher moments
- Bi-parting version for synchronised movements
- Integrated planetary gearbox
- Drive shaft with
- clamp shaft and plain shaft
- hollow shaft with keyway
- Special driveshaft versions on request



Sizing Performance Overview Maximum Loadings

Sizing of Actuator

The following steps are recommended:

- 1. Determination of the lever arm length I_x , I_y and I_z from m_e to the centre axis of the actuator.
- 2. Calculation of the load F_x or F_y to the carrier caused by m_e $F = m_e \cdot g$
- 3. Calculation of the static and dynamic force F_A which must be transmitted by the belt. $F_{A(horizontal)} = F_a + F_0 = m_g \cdot a + M_0 \cdot 2\pi / U_{ZR}$ $F_{A(vertical)} = F_g + F_a + F_0$ $= m_g \cdot g + m_g \cdot a + M_0 \cdot 2\pi / U_{ZR}$
- 4. Calculation of all static and dynamic moments M_x , M_y and M_z which occur in the application. $M = F \cdot I$
- 5. Selection of maximum permissible loads via Table T3.
- 6. Calculation and checking of the combined load, which must not be higher than 1.
- 7. Checking of the maximum torque that occurs at the drive shaft in Table T2.
- 8. Checking of the required action force F_A with the permissible load value from Table T1.

For motor sizing, the effective torque must be determined, taking into account the cycle time.

Legend

- I = distance of a mas s in the x-, y- and z-direction from the guide [m]
- m_e = external moved mass [kg]
- $m_{LA} = moved mass of actuator [kg]$
- $m_g = \text{total moved mass}$ $(m_e + m_{IA}) \text{ [kg]}$
- F_{xy} = load excerted on the carrier in dependence of the installation position [N]
- F_A = action force [N]
- M_0 = no-load torque [Nm]
- U_{ZR} = circumference of the pulley (linear movement per revolution) [m]
- $g = gravity [m/s^2]$
- $a_{\text{max.}} = maximum acceleration [m/s²]$

Performance O	verview					(1)			
Characteristics		Unit	Description						
Series			OSP-E20BHD	OSP-E25BHD	OSP-E32BHD	OSP-E50BHD			
Max. speed		[m/s]	31)	5 ¹⁾	5 ¹⁾	5 ¹⁾			
Linear motion pof drive shaft	per revolution	[mm]	125	180	240	350			
Max. rpm on dr	ive shaft	[min ⁻¹]	2000	1700	1250	860			
Max. effective	< 1 m/s:	[N]	550	1070	1870	3120			
Action force	1-3 m/s:	[N]	450	890	1560	2660			
F _A at speed	> 3 m/s:	[N]	_	550	1030	1940			
No-load torque		[Nm]	0.6	1.2	2.2	3.2			
Max. accelerati	[m/s ²]	50	50	50	50				
Repeatability		[mm/m]	±0.05	±0.05	±0.05	±0.05			
Max. standard s	stroke length	[mm]	5760 ²⁾	5700 ²⁾	5600 ²⁾	5500 ²⁾			

¹⁾ up to 10 m/s on request

²⁾ longer strokes on request

	Maximum Permissible Torque on Drive Shaft Speed / Stroke												(T2)	
0	OSP-E20BHD OSP-E25BHD OSP-E32BHD OSP-E32BHD OSP-E32BHD OSP-E32BHD OSP-E32BHD OSP-E32BHD OSP-E32BHD OSP-E32BHD OSP-E32BHD											SP-E	50BH	1D	
Speed [m/s]	Torque [Nm]	Stroke [m]	Torque [Nm]	Speed [m/s]	Torque [Nm]	Stroke [m]	Torque [Nm]	Speed [m/s]	Torque [Nm]	Stroke [m]	Torque [Nm]	Speed [m/s]	Torque [Nm]	Stroke [m]	Torque [Nm]
1	11	1	11	1	31	1	31	1	71	1	71	1	174	1	174
2	10	2	11	2	28	2	31	2	65	2	71	2	159	2	174
3	9	3	8	3	25)	3	31	3	59	3	60	3	153	3	138
4		4	7	4	23	4	25	4	56	4	47	4	143	4	108

Important:

The maximum permissible torque on the drive shaft is the lowest value of the speed- or stroke-dependent torque value.

52

38

135 5

Example above:

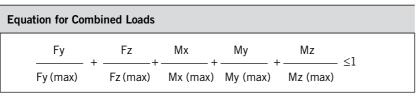
OSP-E25BHD, stroke 5 m, required speed 3 m/s from table T2 speed 3 m/s gives 25 $N_{\rm m}$ and stroke 5 m gives 21 Nm. Max. torque for this application is 21 Nm.

Maximum Permissible Loads											
Series	Max. appli Fy[N]	ed load Fz[N]	Max. mome Mx	nts [Nm] My	Mz						
OSP-E20BHD	1600	1600	21	150	150						
OSP-E25BHD	2000	3000	50	500	500						
OSP-E32BHD	5000	10000	120	1000	1400						
OSP-E50BHD	12000	15000	180	1800	2500						

Combined Loads

If the actuator is subjected to several forces, loads and moments at the same time, the maximum load is

calculated with the equation shown here. The maximum permissible loads must not be exceeded.



The total of the loads must not exceed >1 under any circumstances.

Forces, loads and moments Mz⊸ The distance (I, I, I, I) for calculation of moments relates to the centre axis of the actuator. Bending $M = F \cdot I [Nm]$ moments are calculated $\begin{aligned} & M_x = M_x \text{ static} + M_x \text{ dynamic} \\ & M_y = M_y \text{ static} + M_y \text{ dynamic} \\ & M_z = M_z \text{ static} + M_z \text{ dynamic} \end{aligned}$ from the centre of the

Maximum Permissible Unsupported Length

actuator and F indicates actual force.

Stroke Length

The stroke lengths of the actuators are available in multiples of 1 mm up to 5700 mm.

Other stroke lengths are available on request.

The end of stroke must not be used as a mechanical stop.

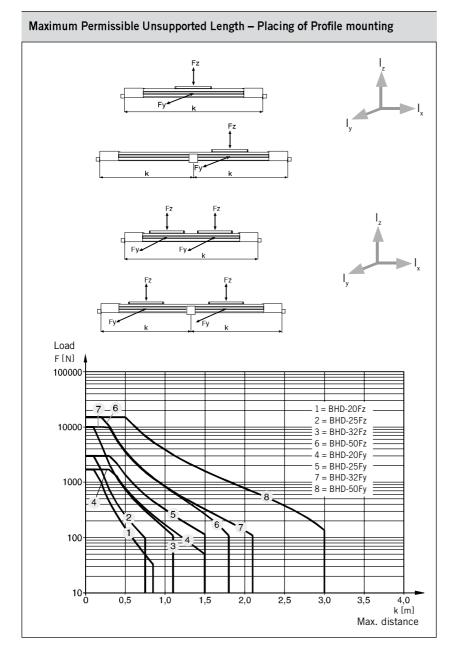
Allow an additional safety clear-ance at both ends equivalent to the linear movement of one revolution of the drive shaft, but at least 100 mm.

The use of an AC motor with frequency converter normally requires a larger clearance than that required for servo

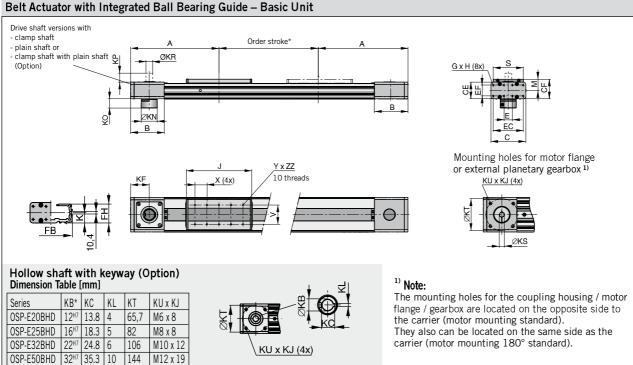
For advice, please contact your local Parker Origa technical support depart-

- * For Bi-parting version the max. load (F) is the total load of both carriers $\mathsf{F} = \mathsf{F}_{\mathsf{carrier}\;1} + \mathsf{F}_{\mathsf{carrier}\;2}$
- k = Max. permissible distance between mountings/Profile Mounting for a given load F.

When loadings are below or up to the curve in the graph below the deflection will be max. 0.01 % of distance k.



OSP-E..BHD

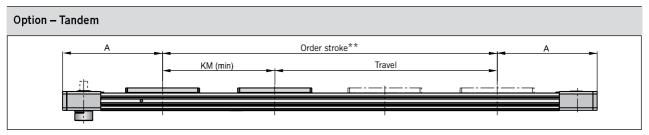


* Note

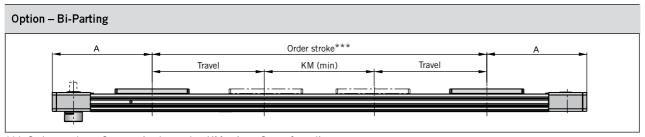
The mechanical end position must not be used as a mechanical end stop. Allow an additional safety clearance at both ends equivalent to the linear movement of one revolution of the drive shaft, but at least 100 mm.

Order stroke = required travel + $2 \times \text{safety distance}$.

The use of an AC motor with frequency converter normally requires a larger safety clearance than that required for servo systems. For further information please contact you local Parker Origa representative.



**Order stroke = required travel + KM min + 2 x safety distance



*** Order stroke = $2 \times \text{required travel} + \text{KM min} + 2 \times \text{safety distance}$

Dimension	Dimension Table [mm]																											
Series	A	В	С	E	GxH	J	K	М	S	٧	X	YxZZ	CE	CF	EC	EF	FB	FH	KF	KM _{min}	KM _{rec.}	KN	КО	KP	KR	KS	KT	KUxKJ
OSP-E20BHD	185	76.5	73	18	M5x8.5	155	21.1	27.6	67	51	30	M5x8	38	49	60	27	73	36	42.5	180	220	27	18	25	12 _{h7}	12 ^{H7}	65.7	M6x8
OSP-E25BHD	218	88	93	25	M5x10	178	21.5	31	85	64	40	M6x8	42	52.5	79	27	92	39.5	49	210	250	34	21.7	30	16 _{h7}	16 ^{H7}	82	M8x8
OSP-E32BHD	262	112	116	28	M6x12	218	28.5	38	100	64	40	M6x10	56	66.5	100	36	116	51.7	62	250	300	53	30	30	22 _{h7}	22 ^{H7}	106	M10x12
OSP-E50BHD	347	147	175	18	M6x12	288	43	49	124	90	60	M6x10	87	92.5	158	70	164	77	79.5	354	400	75	41	35	32 _{h7}	32 ^{H7}	144	M12x19

(Other dimensions for KS and KB for special drive shafts on request – see order instructions.)

Series OSP-E..BHD - with Integrated Planetary Gearbox (Option)



Performance Overview					
Characteristics		Unit	Description		
Series			OSP-E25BHD	OSP-E32BHD	OSP-E50BHD
Ratio (1-stage)	i			3/5/10	
Max. axial load	F _{amax}	[N]	1550	1900	4000
Torsional rigidity (i=5)	C _{t.21}	[Nm/arcmin]	3.3	9.5	25.0
Torsional rigidity (i=3/10)	C _{t.21}	[Nm/arcmin]	2.8	7.5	222.0
Torsional backlash	J _t	[arcmin]		<12	
Linear motion per revolution of drive shaft		[mm]	220	280	360
Nominal input speed	n _{nom}	[min ⁻¹]	3700	3400	2600
Max. input speed	$n_{1\text{max}}$	[min ⁻¹]		6000	
No-load torque at Nominal input speed	T ₀₁₂	[Nm]	<0.14	<0.51	<1.50
Lifetime		[h]		20 000	•
Efficiency	η	[%]		>97	
Noise level (n ₁ =3000 min ⁻¹)	L _{PA}	[db]	<70	<72	<74

NA NC NC NC

Dimension Tab	Dimension Table [mm] and additional Weight											
Series	NA	NB	NC	Weight (Mass) [kg]								
OSP-E25BHD	49	43	76	2.6								
OSP-E32BHD	62	47	92	4.9								
OSP-E50BHD	80	50	121	9.6								

Integrated Planetary Gearbox

Features

- Highly compact and rigid solutio fully integrated in the drive cap housing
- Purpose designed for the BHD series.
- Available with three standard ratios (3, 5 and 10)
- Very low backlash
- A wide range of available motor flanges

Please contact your local Parker Origa technical support for available motor flanges.

Material:

Aluminium (AL-H) / Steel (St-H)

Standard Version:

• Gearbox on opposite side to carrier.

Note

When ordering, specify model/type of motor and manufacturer for correct motor flange.

OSP-E...BHD

Belt Actuator with integrated Roller Guide

Size 25, 32, 50



Standard Versions

- Belt Actuator with integrated roller guide
- Drive shaft with clamp shaft or plain shaft
- Choice of motor mounting side
- Dovetail profile for mounting of accessories and the actuator itself

Options

- Tandem version for higher moments
- Bi-parting version for synchronised movements
- Integrated planetary gearbox
- Drive shaft with
- clamp shaft and plain shaft
- hollow shaft with keyway
- Special drive shaft versions on request

Cha	racteristics			
Cha	racteristics	Symbol	Unit	Description
Gen	eral Features			
Seri	es			OSP-EBHD
Nan	ne			Belt Actuator with integrated Roller Guide
Mou	inting			see drawings
	pient peratur range	∂_{\min}^{\max}	°C	-30 +80
Weig	ght (Mass)		kg	see table
Inst	allation			In any position
	Slotted profile			Extruded anodized aluminium
	Belt			Steel-corded polyurethane
	Pulley			Aluminium
<u></u>	Guide			Roller Guide
Material	Guide rail			Aluminium
Ĕ	Track			high alloyed steel
	Roller cartridge			Steel rollers in aluminium housing
	Sealing band			Hardened, corrosion resistant steel
	Screws, nuts			Zinc plated steel
	Mountings			Zinc plated steel and aluminium
Enc	apsulation class		IP	54

Weight(mass)a	Weight(mass) and Inertia											
Series	We	eight (mass) [k	g]	Ine	ertia [x 10 ⁻⁶ kgr	n²]						
	at stroke 0 m	ad per metre stroke	moving Mass	at stroke 0 m	ad per metre stroke	moving Mass						
OSP-E25BHD	3,8	4,3	1,0	984	197	821						
OSP-E32BHD	7,7	6,7	1,9	3498	438	1459						
OSP-E50BHD	22,6	15,2	4,7	19690	1489	3103						
OSP-E25BHD*	5,7	4,3	2,0	1805	197	821						
OSP-E32BHD*	11,3	6,7	3,8	6358	438	1459						
OSP-E50BHD*	31,7	15,2	9,4	34274	1489	3103						

^{*}Version: Tandem and Bi-parting (Option)

Installation Instructions

Use the threaded holes in the end cap for mounting the actuator.

Check if profile mountings are needed using the maximum allowable unsupported length graph on page 22. At least one end cap must be secured to prevent axial sliding when profile mountings are used.

Maintenance

Depending on operating conditions, inspection of the actuator is recommended after 12 months or 3000 km operation.

Please refer to the operating instructions supplied with the actuator.

First service start-up

The maximum values specified in the technical data sheet for the different products must not be exceeded. Before taking the actuator as a machine into service, the user must ensure the adherence to the EC Machine Directive 2006/42/EG.



Performance Ov	erview				(1)		
Characteristics		Unit	Description				
Series			OSP-E25BHD	OSP-E32BHD	OSP-E50BHD		
Max. speed		[m/s]	10	10	10		
Linear motion podrive shaft	er revolution	[mm]	180	240	350		
Max. rpm. drive	shaft	[min ⁻¹]	3000	2500	1700		
Max. effective	< 1 m/s:	[N]	1070	1870	3120		
action force F _A	1-3 m/s:	[N]	890	1560	2660		
at speed	> 3-10 m/s:	[N]	550	1030	1940		
No-load torque		[Nm]	1.2	2.2	3.2		
Max. acceleration	n/deceleration	[m/s ²]	40	40	40		
Repeatability		[mm/m]	±0.05	±0.05	±0.05		
Max. standard s	troke length	[mm]	7000	7000	7000		

	Maximum Permissible Torque on Drive Shaft Speed and Stroke												
	OSP-E	25BHI)	OSP-I	E32BH	D		OSP-E	50BH	D			
Speed [m/s]	Torque [Nm]	Stroke [m]	Torque [Nm]	Speed. [m/s]	Torque [Nm]	Stroke [m]	Torque [Nm]	Speed. [m/s]	Torque [Nm]	Stroke [m]	Torque [Nm]		
1 2 3 4 5 6 7 8 9 10	31 28 25 23 22 21 19 18 17 16	1 2 3 4 5 6 7	31 31 25 21 17 15	1 2 3 4 5 6 7 8 9 10	71 65 59 56 52 50 47 46 44 39	1 2 3 4 5 6 7	71 71 60 47 38 32 28	1 2 3 4 5 6 7 8 9 10	174 159 153 143 135 132 126 120 116 108	1 2 3 4 5 6 7	174 174 138 108 89 76 66		

The maximum permissible torque on the drive shaft is the lowest value of the speed- or stroke-dependent torque value.

Example above:

OSP-E25BHD, stroke 5 m, required speed 3 m/s from table T2 speed 3 m/s gives 25 Nm and stroke 5 m gives 21 Nm. Max. torque for this application is 21 Nm.

Maximum Permissi		T3		
Series	Max. applied load Fy, Fz [N]	Max. mome Mx	nts [Nm] My	Mz
OSP-E25BHD	986	11	64	64
OSP-E32BHD	1348	19	115	115
OSP-E50BHD	3704	87	365	365

Sizing Performance Overview **Maximum Loadings**

Sizing of Actuator

The following steps are recommended:

- 1. Determination of the lever arm length I_x , I_v and I_z from m_e to the centre axis of the actuator.
- 2. Calculation of the load F, or F, to the carrier caused by mg $F = m_{p} \cdot g$
- 3. Calculation of the static and dynamic force F_{Δ} which must be transmitted by the belt.

$$\begin{array}{ll} F_{A \text{(horizontal)}} &= F_a + F_0 \\ &= m_g \cdot a + M_0 \cdot 2\pi \ / \ U_{ZR} \end{array}$$

$$F_{A \text{(vertical)}} &= F_g + F_a + F_0 \\ &= m_g \cdot g + m_g \cdot a + M_0 \cdot 2\pi \ / \ U_{ZR} \end{array}$$

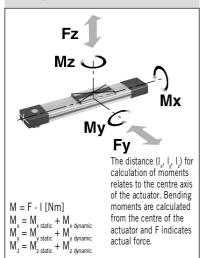
- 4. Calculation of all static and dynamic bending moments M_x, M_y and M_z which occur in the application $M = F \cdot I$
- 5. Selection of maximum permissible loads via Table T3.
- 6. Calculation and checking of the combined load, which must not be higher than 1.
- 7. Checking of the maximum torque that occurs at the drive shaft in Table T2.
- 8. Checking of the required action force F_A with the permissible load value from Table T1.

For motor sizing, the effective torque must be determined, taking into account the cycle time.

Legend

- = distance of a mass in the x-, y- and z-direction from the guide [m]
- m_a = external moved mass [kg]
- $m_{IA} = moved mass of actuator [kg]$
- m_g = total moved mass $(m_e + m_{IA})$ [kg]
- $F_{x/y}$ = load excerted on the carrier in dependence of the installation position [N]
- = action force [N]
- M_0 = no-load torque [Nm]
- U_{7R} = circumference of the pulley (linear movement per revolution) [m]
- = gravity [m/s²]
- $a_{max} = maximum acceleration [m/s^2]$

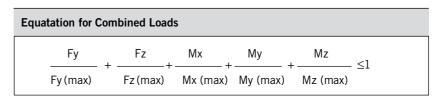
Forces, loads and moments



Combined Loads

If the actuator is subjected to several forces, loads and moments at the same time, the maximum load is

calculated with the equation shown here. The maximum permissible loads must not be exceeded.



The total of the loads must not exceed >1 under any circumstances.

Maximum Permissible Unsupported Length

Stroke Length

The stroke lengths of the actuators are available in multiples of 1 mm up to 5700 mm.

Other stroke lengths are available on request.

The end of stroke must not be used as a mechanical stop.

Allow an additional safety clearance at both ends equivalent to the linear movement of one revolution of the drive shaft, but at least 100 mm.

The use of an AC motor with frequency converter normally requires a larger clearance than that required for servo systems.

For advice, please contact your local Parker Origa technical support depart-

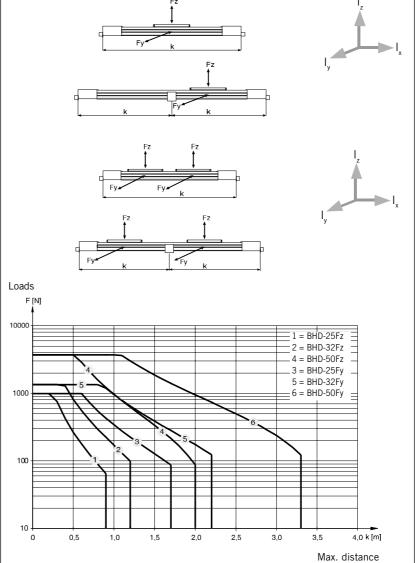
* For the bi-parting version the maximum load (F) complies with the total of the load at both carriers.

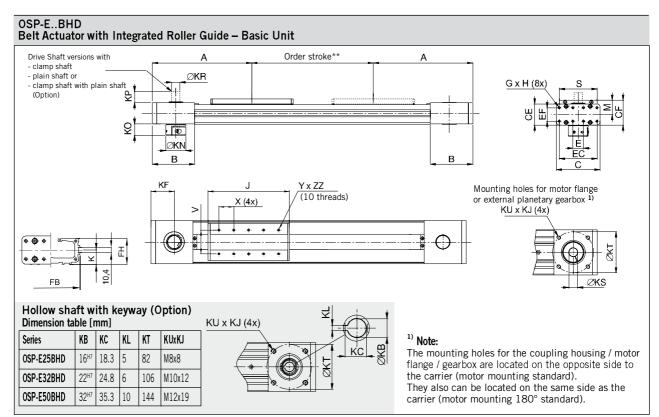
$$F = F_{carriage 1} + F_{carriage 2}$$

k = Maximum permissible distance between mountings/mid-section support for a given load F.

If the loads are below or up to the curve in the graph the deflection will be max. 0.01 % of distance k.

Maximum Permissible Unsupported Length - Placing of Profile Mounting





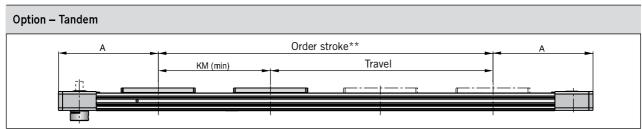
* Note

The mechanical end position must not be used as a mechancial end stop.

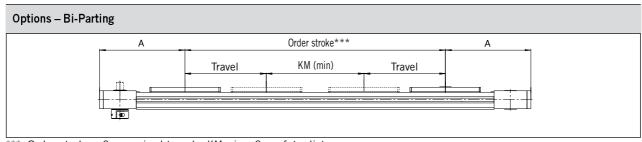
Allow an additional safety clearance at both ends equivalent to the linear movement of one revolution of the drive shaft, but at least 100 mm.

Order stroke = required travel + 2×4 x safety distance.

The use of an AC motor with frequency converter normally requires a larger safety clearance than that required for servo systems. For further information please contact you local Parker Origa representative.



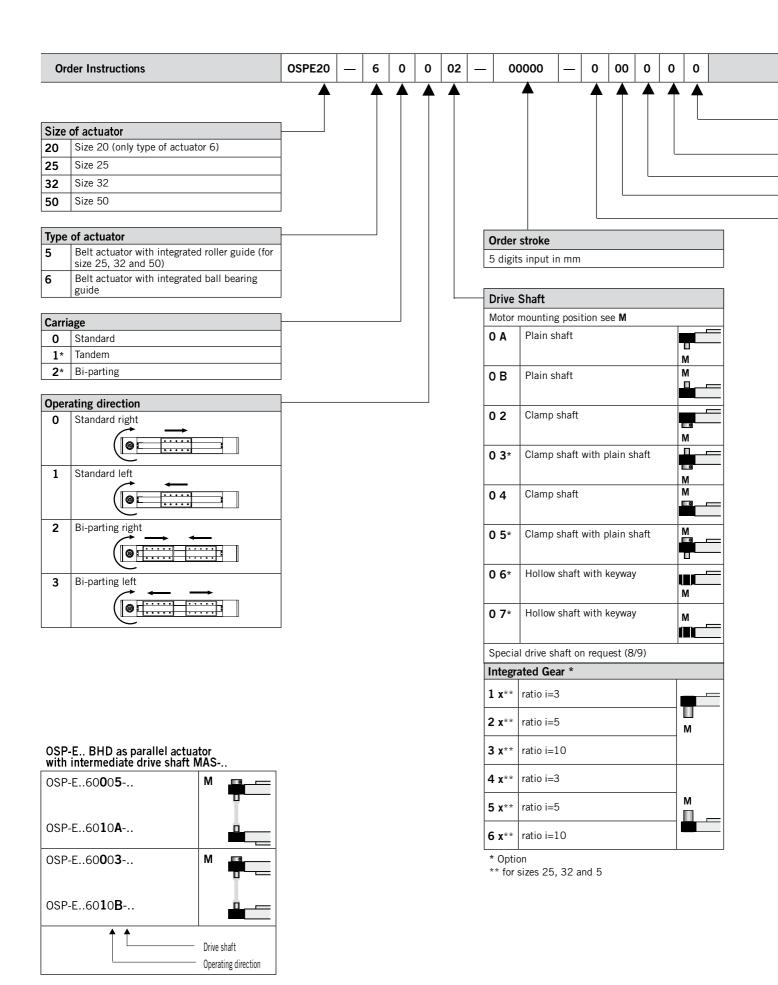
** Order stroke = required travel + KM min + 2 x safety distance



*** Order stroke = 2 x required travel + KM min + 2 x safety distance

Dimension	Dimension Table [mm]																											
Series	A	В	С	Ε	GxH	J	K	М	S	٧	X	YxZZ	CE	CF	EC	EF	FB	FH	KF	KM _{min}	KM _{rec.}	KN	ко	KP	KR	KS	кт	KUxKJ
OSP-E25BHD	218	88	93	25	M5x10	178	21.5	31	85	64	40	M6x8	42	52.5	79	27	92	39.5	49.0	210	250	34	21.7	30	16 _{h7}	16 ^{H7}	82	M8x8
OSP-E32BHD	262	112	116	28	M6x12	218	28.5	38	100	64	40	M6x10	56	66.5	100	36	116	51.7	62.0	250	300	53	30.0	30	22 _{h7}	22 ^{H7}	106	M10x12
OSP-E50BHD	347	147	175	18	M6x12	263	43.0	49	124	90	60	M6x10	87	92.5	158	70	164	77.0	79.5	295	350	75	41.0	35	32 _{h7}	32 ^{H7}	144	M12x19

(Other dimensions for KS and KB for special drive shafts on request – see order instructions.)



Mount	ting Kit for Gear *				
Size		20	25	32	50
A7	PS60	X ²	X 1		
A8	PS90			X ¹	
A9	PS115				X ¹
CO	LP050 / PV40-TA	X ¹			
C1	LP070 / PV60-TA	X ²	X ¹		
C2	LP090 / PV90-TA			X ¹	
С3	LP120				X ¹

x 1 : Kit for **Drive Shaft** with clamp shaft (02 / 03 / 04 / 05)

x ²: Kit for **Drive Shaft** with plain shaft (OA / OB)

Info: Motor and Gear mounting dimensions see page 193

_	Niro	
	0	Standard
	1*	Niro screws

Magne	etic switches *							
0	Without							
1	1 pc. RST-K 2NO / 5m cable							
2	1 pc. RST-K 2NC / 5m cable							
3	2 pc. RST-K 2NC / 5m cable							
4	2 pc. RST-K 2NC, 1 pc. RST-K 2NO /5m cable							
5	1 pc. RST-S 2NO / M8 plug							
6	1 pc. RST-S 2NC / M8 plug							
7	2 pc. RST-S 2NC / M8 plug							
8	2 pc. RST-S 2NC, 1 pc. RST-S 2NO / M8 plug							
Α	1 pc. EST-S NPN / M8 plug							
В	2 pc. EST-S NPN / M8 plug							
С	3 pc. EST-S NPN / M8 plug							
D	1 pc. EST-S PNP / M8 plug							
Е	2 pc. EST-S PNP / M8 plug							
F	3 pc. EST-S PNP / M8 plug							
see pag	see page 165 ff							

Profile	mounting *
0	Without
1	1 pair type E1
2	1 pair type D1
3	1 pair type MAE
4	2 pair type E1
5	2 pair type D1
6	2 pair type MAE
7	3 pair type E1
8	3 pair type D1
9	3 pair type MAE
Α	4 pair type E1
В	4 pair type D1
С	4 pair type MAE
see pag	ge 147 ff

End cap mounting *							
0	Without						
Α	1 pair type CN						
В	1 pair type CO						
see page 141 ff							

Accessories - please order separately	1
Description	Page
Motor mountings	135
Multi-Axis Systems for actuators	177 ff

Autoryzowany dystrybutor Parker:

