

Multi-Axis Connection System for Linear Drive Systems Series OSP-E



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MULTI-AXIS CONNECTION SYSTEM – SIMPLIFIES ENGINEERING AND INSTALLATION

A completely new system for easy connection of OSP-E linear drives
in multi-axis systems.

MULTI-AXIS CONNECTIONS

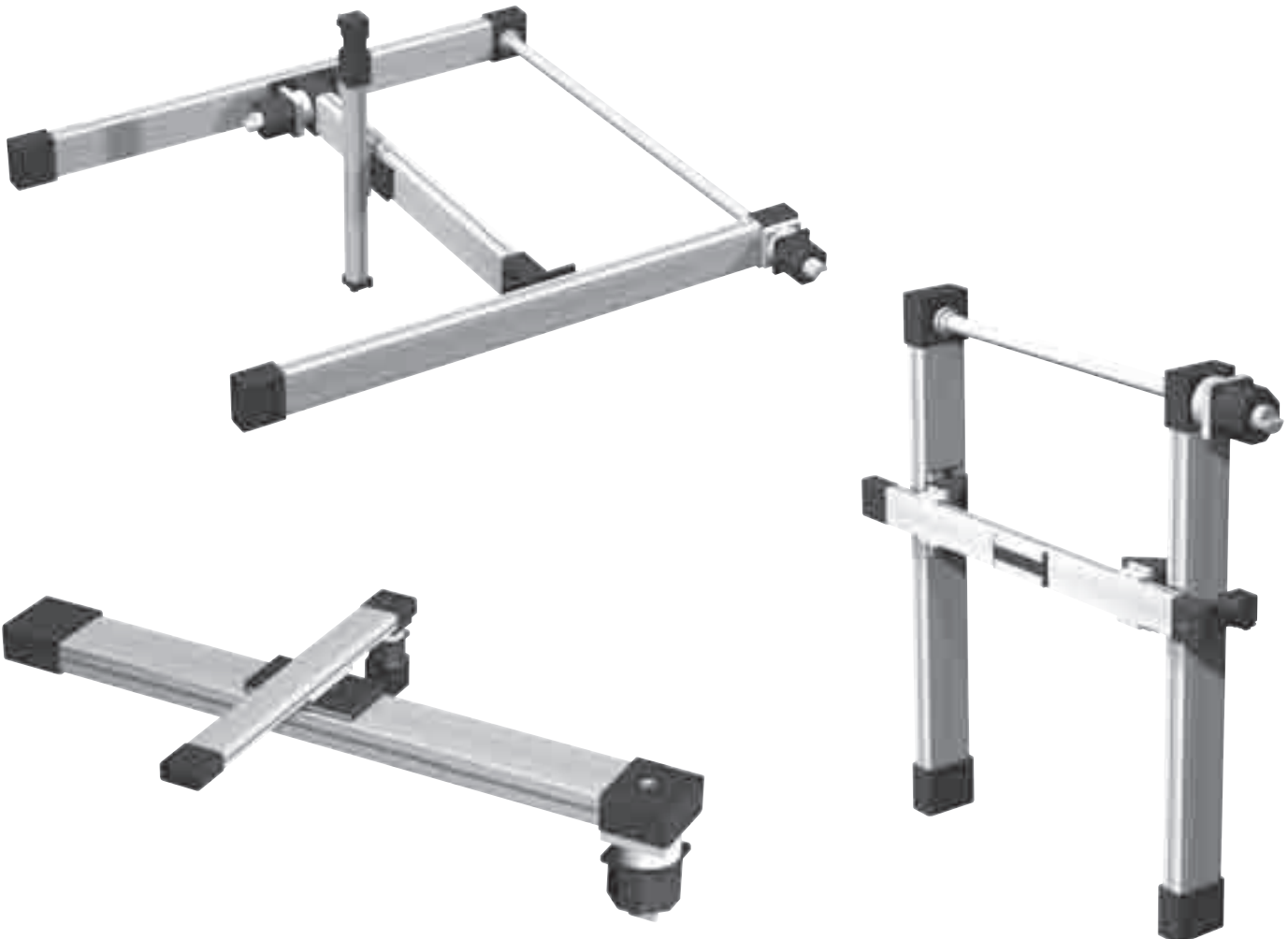
With a highly adaptable
system for connection of
linear drives in multi-axis
arrangements,
HOERBIGER-ORIGA offers
design engineers complete
flexibility.

A wide range of adapter
plates, profile mountings and
intermediate drive shafts
simplify engineering and
installation.

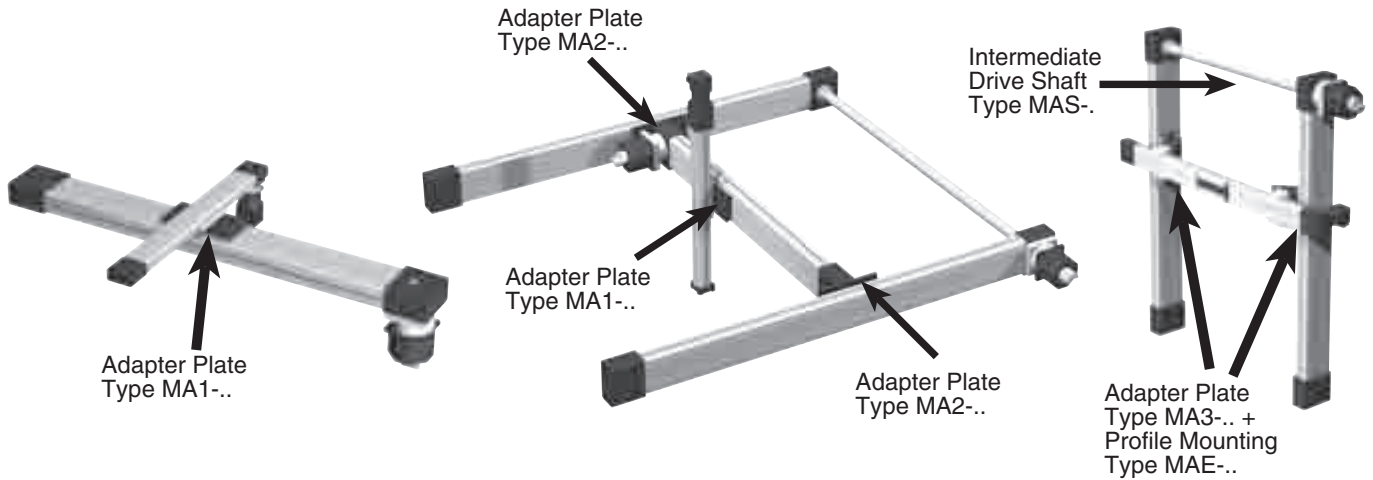
The connection system
enables actuators to be

mounted in carrier to
carrier; carrier to profile;
carrier to end cap mounting;
and carrier to end cap
configurations.


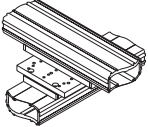
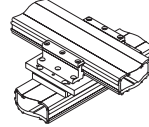
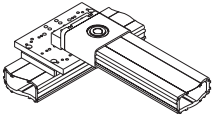

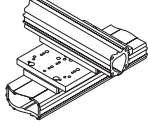
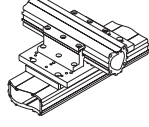
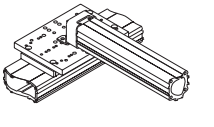

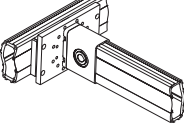
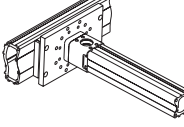

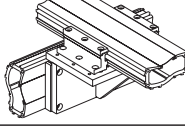
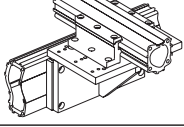
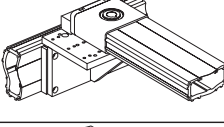
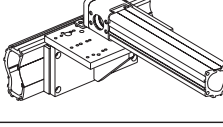
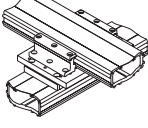
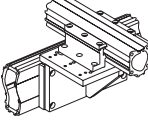
Developed for the heavy-
duty belt drive series
OSP-E..BHD, the system
provides cross-connection
with the same series and
also other linear drive series
in the ORIGA SYSTEM
PLUS range.



MULTI-AXIS CONNECTION SYSTEM



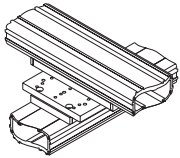
* For available standard combinations, see page 28

<p>Adapter Plate Type MA1-..*</p> <p>For connecting carrier to carrier, carrier to profile mounting or carrier to end cap mounting.</p> 	<p>Combination C*</p> 	<p>Combination P*</p> 	<p>Combination EM*</p> 
<p>Adapter Plate Type MA2-..*</p> <p>For connecting carrier to end cap.</p> 	<p>Combination C*</p> 	<p>Combination P*</p> 	<p>Combination EM*</p> 
<p>Adapter Plate Type MA3-..*</p> <p>For connecting 90° carrier to profile mounting or carrier to end cap mounting.</p> 	<p>Combination E*</p> 	<p>Combination E*</p> 	
<p>Intermediate Drive Shaft Type MAS-.</p> 	<p>Combination P*</p> 	<p>Combination P*</p> 	
	<p>Combination EM*</p> 	<p>Combination EM*</p> 	
			

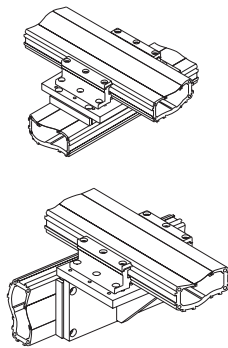
AVAILABLE MOUNTING COMBINATIONS

Available Mounting Combinations

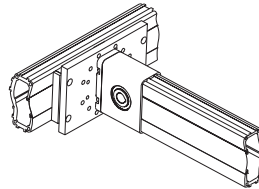
Combination C*



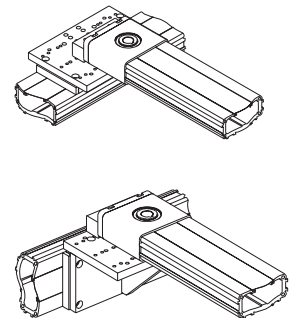
Combination P



Combination E*



Combination EM*



Illustrations just show OSP-E..BHD examples

		OSP-E..BHD/BHD-BP												OSP-E..B/S/BP/P*/SBR											
		-25				-32				-50				-25				-32				-50			
Series	Type	C ¹	P ²	E ³	EM ⁴	C ⁵	P ⁶	E ⁷	EM ⁸	C ⁹	P ¹⁰	E ¹¹	EM ¹²	C ¹³	P ¹⁴	E ¹⁵	EM ¹⁶	C ¹⁷	P ¹⁸	E ¹⁹	EM ²⁰	C ²¹	P ²²	E ²³	EM ²⁴
OSP-E25BHD	MA1-25	•	•		•	•	•		•					•	•		•	•	•	•		•	•	•	•
OSP-E32BHD	MA1-32	•	•		•	•	•		•	•	•		•				•	•	•	•		•	•	•	•
OSP-E50BHD	MA1-50	•	•		•	•	•		•	•	•		•				•	•	•	•		•	•	•	•
OSP-E25BHD	MA2-25			•				•								•				•					•
OSP-E32BHD	MA2-32			•				•				•								•					•
OSP-E50BHD	MA2-50			•				•				•								•					•
OSP-EBHD25	MA3-25		•		•		•		•					•		•			•		•		•		•
OSP-EBHD32	MA3-32		•		•		•		•		•		•						•		•		•		•
OSP-EBHD50	MA3-50		•		•		•		•		•		•						•		•		•		•

Abbreviations:

C = MAn to Carrier,

P = MAn to Profile mounting,

E = MAn to End cap,

EM = MAn to End cap mounting (n=1,2,3)

* = The mounting plates can also be used to mount the OSP-P pneumatic rodless actuator to the BHD

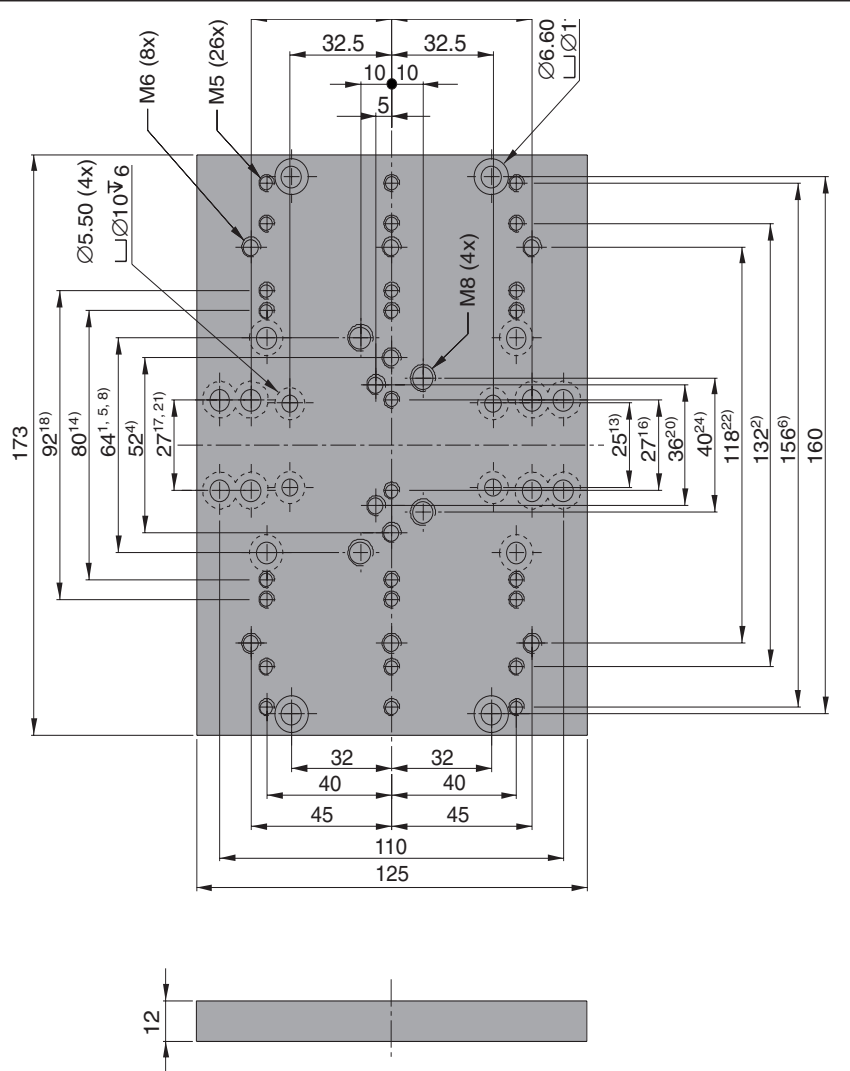
Values in superscript refer to corresponding adapter plate dimensions on pages 29-37.

e.g. Dimensions corresponding to combination option "C" for adapter plate MA1-50 connected to an OSP-E32BHD carrier are shown with Superscript number ⁵ on the MA1-50 adapter plate on page 31.

Other combinations on request.

The right to introduce technical modifications is reserved

Dimensions (mm) Adapter Plate Type MA1-25



Dimensions with Superscript values, refer to the corresponding available options detailed on page 28.
 e.g. Dimensions with Superscript number ⁵, corresponds to the option "C" for OSP-E32BHD actuator.

Adapter Plate for OSP-E25



Type: MA1-25

The right to introduce technical modifications is reserved

Order Instructions and Weight

Description	Weight(mass) [kg]	Order No.
Adapter Plate Type MA1-25	0.7	12269

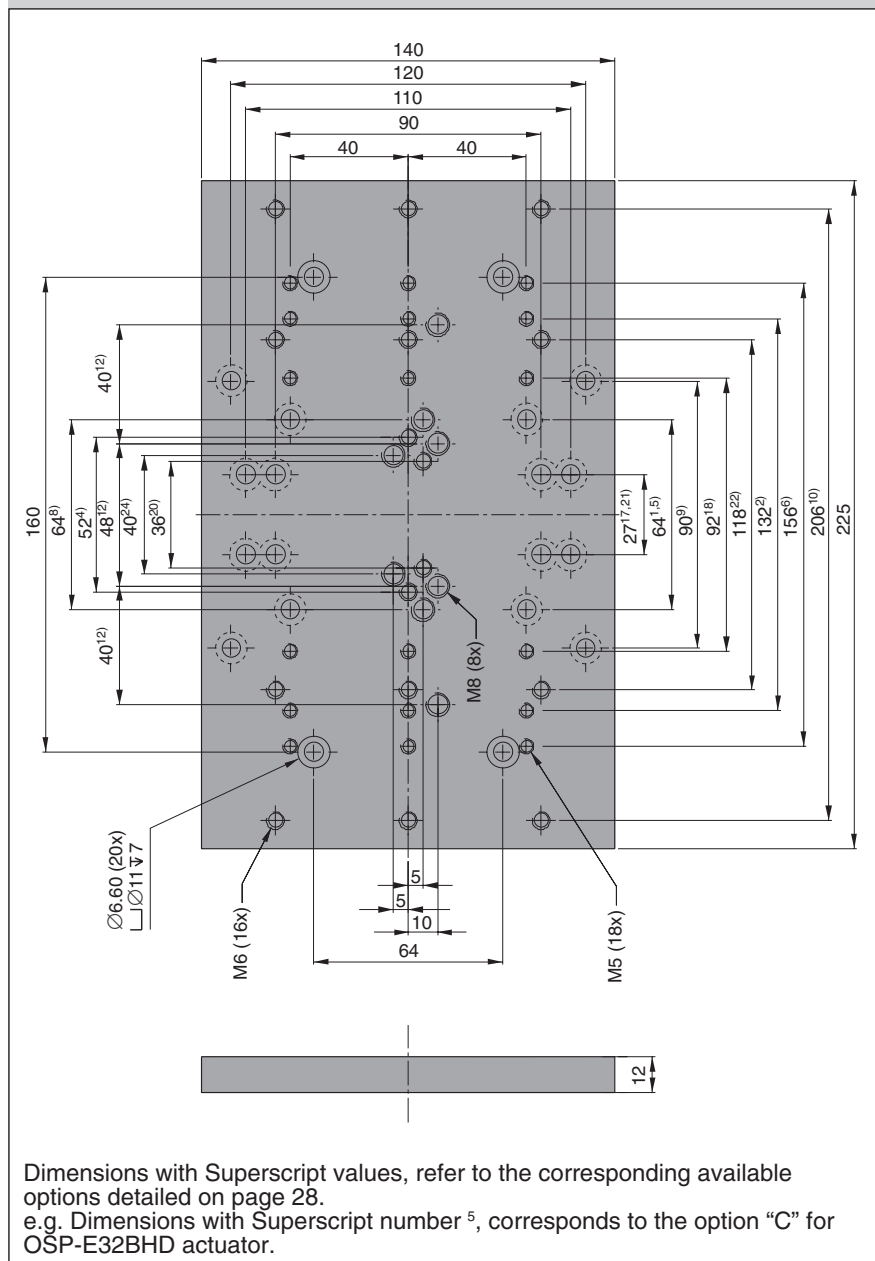


Adapter Plate for OSP-E32



Type: MA1-32

Dimensions (mm) Adapter Plate Type MA1-32



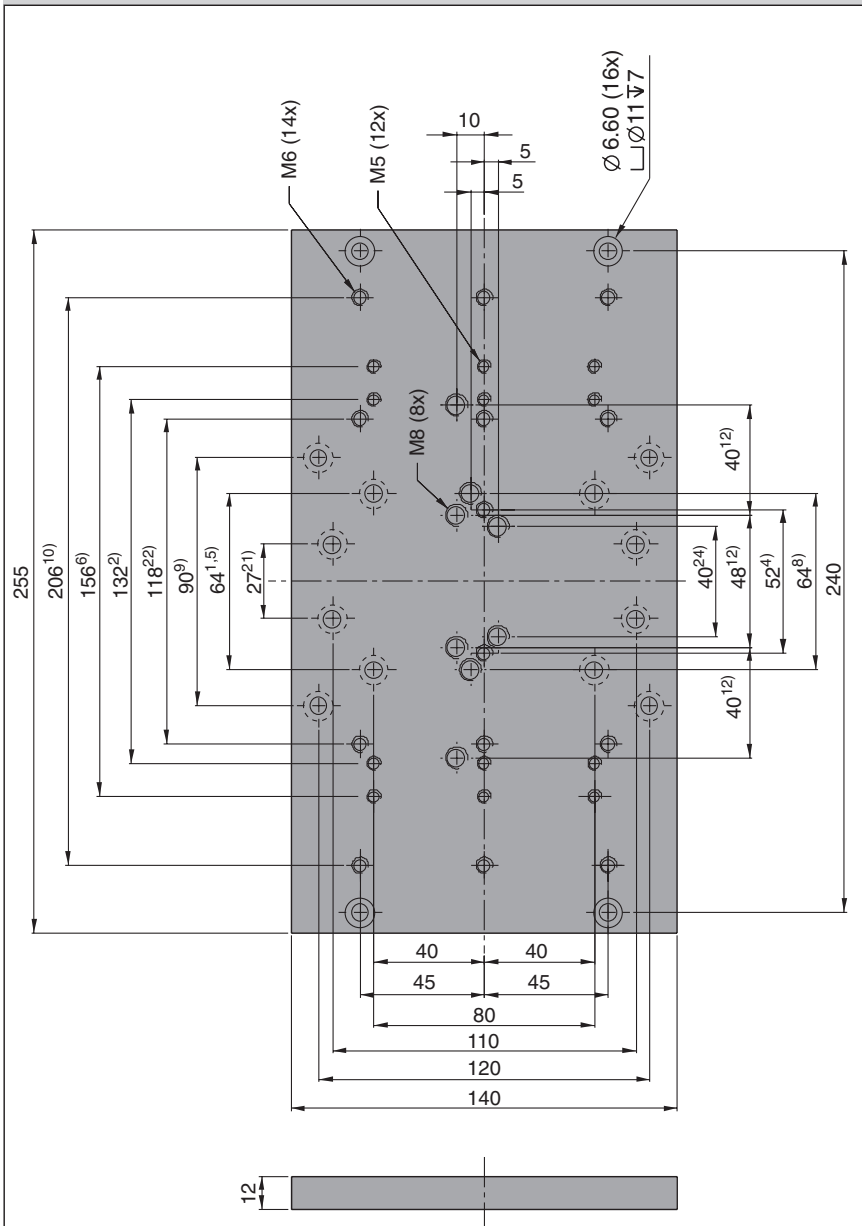
Dimensions with Superscript values, refer to the corresponding available options detailed on page 28.
e.g. Dimensions with Superscript number ⁵, corresponds to the option "C" for OSP-E32BHD actuator.

Order Instructions and Weight

Description	Weight(mass) [kg]	Order No.
Adapter Plate Type MA1-32	1.0	12272



Dimensions (mm) Adapter Plate Type MA1-50



Dimensions with Superscript values, refer to the corresponding available options detailed on page 28.
 e.g. Dimensions with Superscript number ⁵, corresponds to the option "C" for OSP-E32BHD actuator.

Adapter Plate for OSP-E50



Type: MA1-50

Order Instructions and Weight

Description	Weight(mass) [kg]	Order No.
Adapter Plate Type MA1-50	1.1	12275

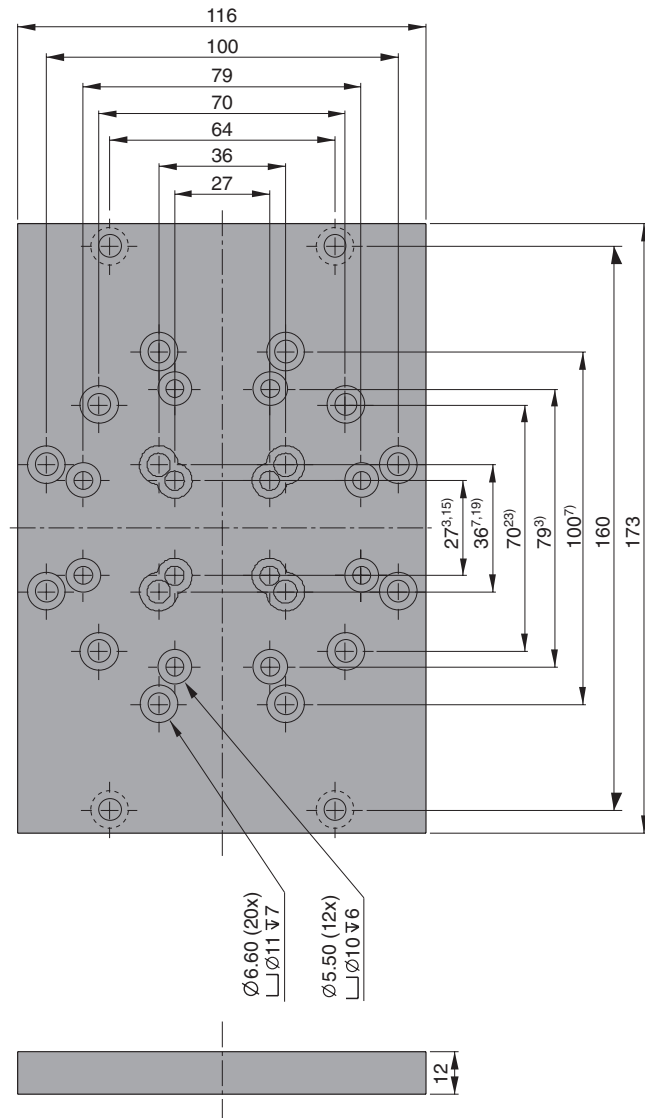


Adapter Plate for OSP-E25



Type: MA2-25

Dimensions (mm) Adapter Plate Type MA2-25



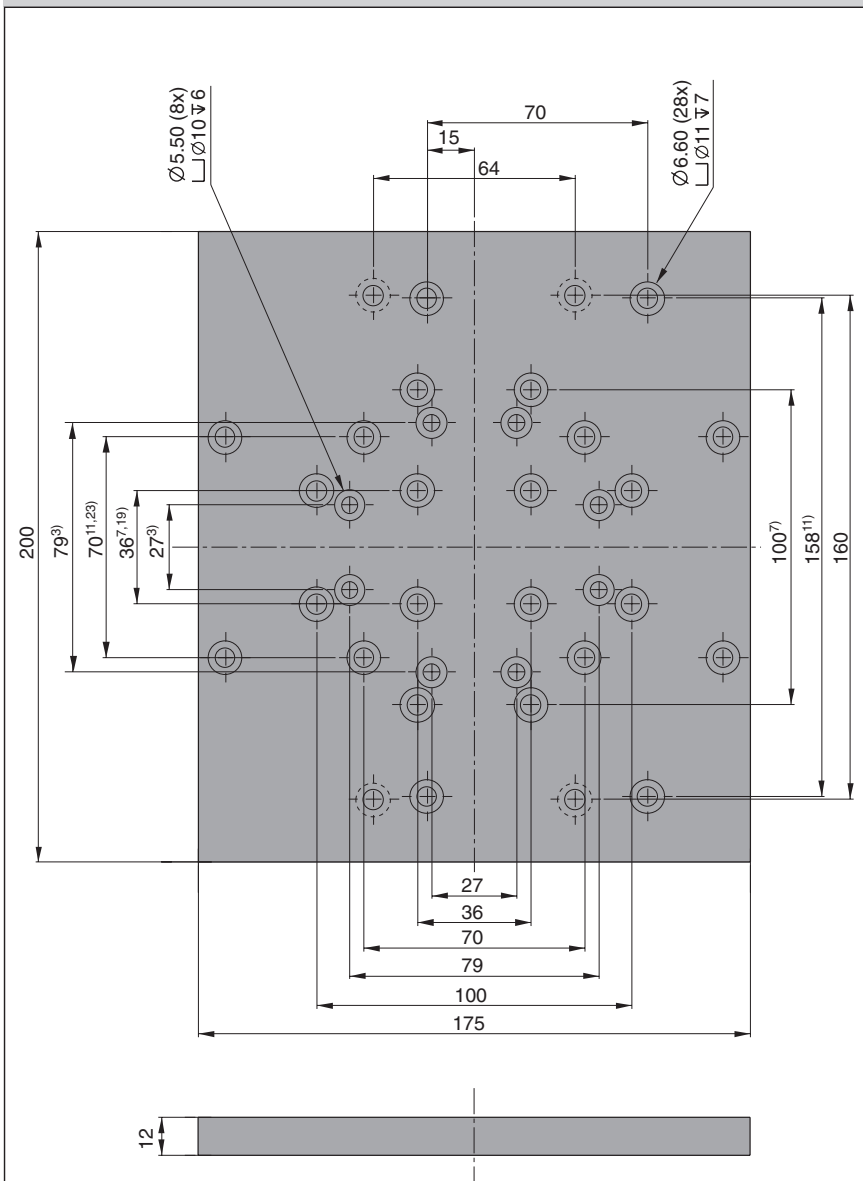
Dimensions with Superscript values, refer to the corresponding available options detailed on page 28.
e.g. Dimensions with Superscript number ³, corresponds to the option "E" for OSP-E25BHD actuator.

Order Instructions and Weight

Description	Weight(mass) [kg]	Order No.
Adapter Plate Type MA2-25	0.6	12270



Dimensions (mm) Adapter Plate Type MA2-32



Dimensions with Superscript values, refer to the corresponding available options detailed on page 28.
 e.g. Dimensions with Superscript number ³, corresponds to the option "E" for OSP-E25BHD actuator.

Adapter Plate for OSP-E32



Type: MA2-32

Order Instructions and Weight		
Description	Weight(mass) [kg]	Order No.
Adapter Plate Type MA2-32	1.1	12273

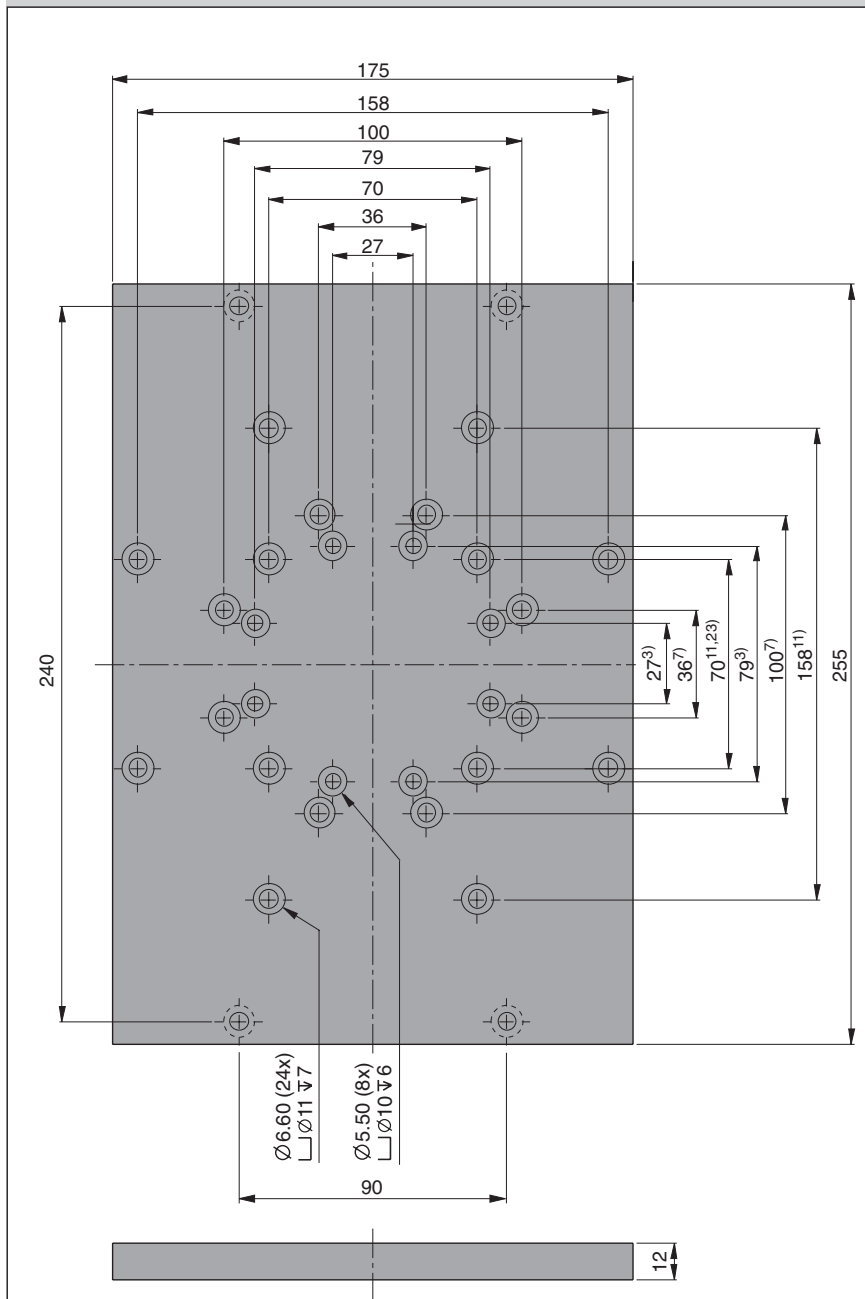


Adapter Plate for OSP-E50



Type: MA2-50

Dimensions (mm) Adapter Plate Type MA2-50



Dimensions with Superscript values, refer to the corresponding available options detailed on page 28.
e.g. Dimensions with Superscript number ³, corresponds to the option "E" for OSP-E25BHD actuator.

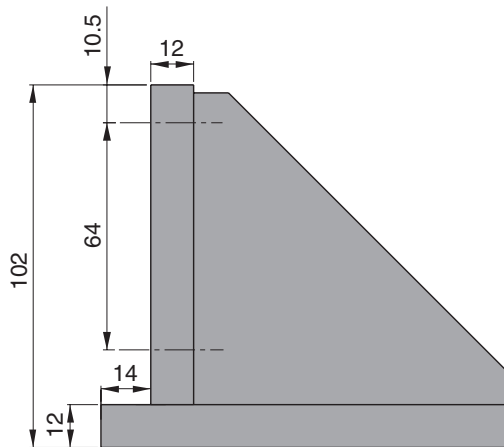
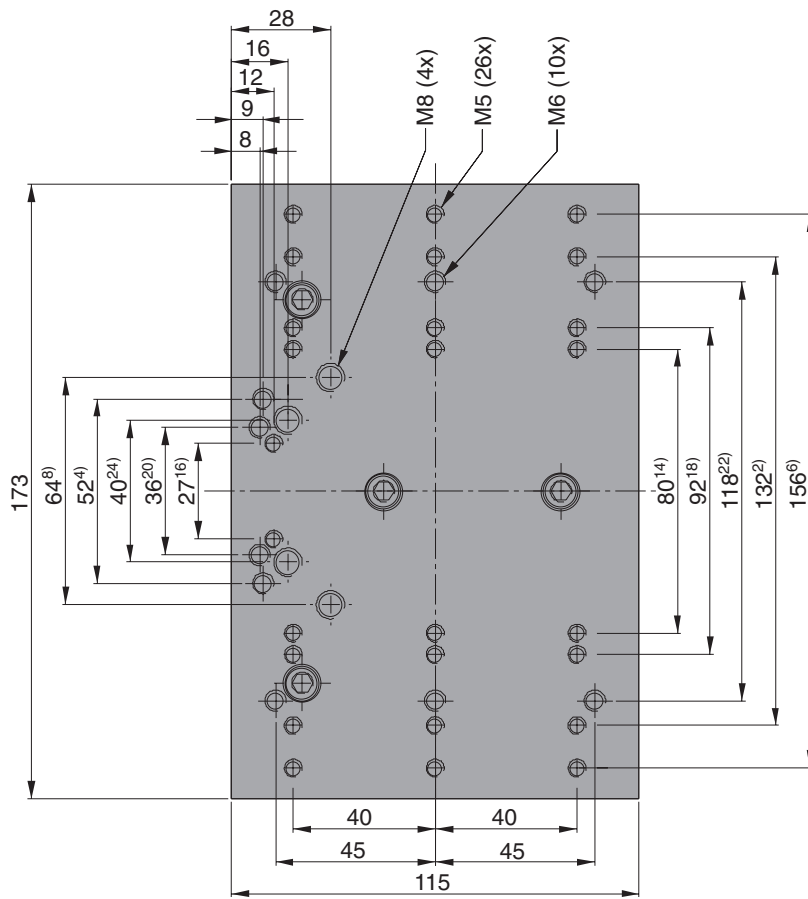


Order Instructions and Weight

Description	Weight(mass) [kg]	Order No.
Adapter Plate Type MA2-50	1.4	12276



Dimensions (mm) Adapter Plate Type MA3-25



Dimensions with Superscript values, refer to the corresponding available options detailed on page 28.
e.g. Dimensions with Superscript number 4, corresponds to the option "EM" for OSP-E25BHD actuator.

Adapter Plate for OSP-E25



Type: MA3-25

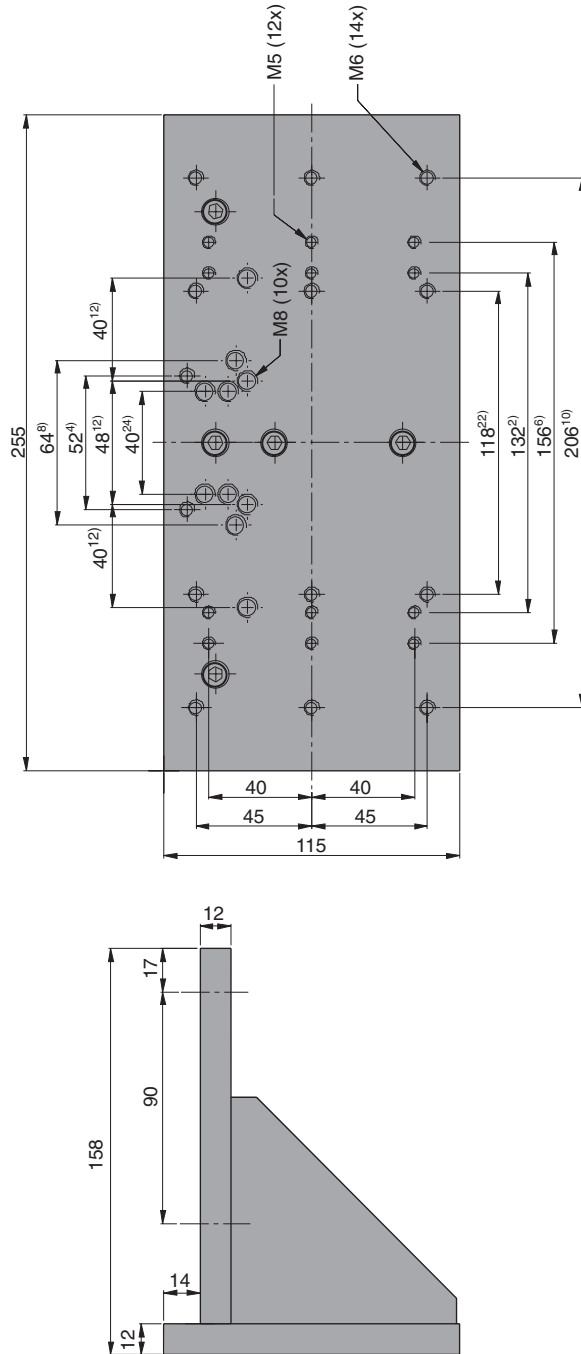


Order Instructions and Weight

Description	Weight(mass) [kg]	Order No.
Adapter Plate Type MA3-25	1.3	12271



Dimensions (mm) Adapter Plate Type MA3-50



Dimensions with Superscript values, refer to the corresponding available options detailed on page 28.
e.g. Dimensions with Superscript number 4, corresponds to the option "EM" for OSP-E25BHD actuator.

Order Instructions and Weight

Description	Weight(mass) [kg]	Order No.
Adapter Plate Type MA3-50	2.3	12277

Adapter Plate for OSP-E50



Type: MA3-50



Multi-Axis Accessories

Complete Intermediate Drive Shaft

Size 25, 32, 50



For Linear Drive
• Series OSP-E..BHD

Note:
For Series OSP-E..BHD with integrated gearbox, please contact your local HOERBIGER-ORIGA technical support.

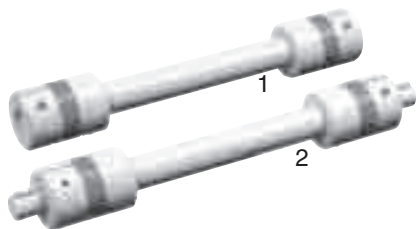
For other series on request.

Features

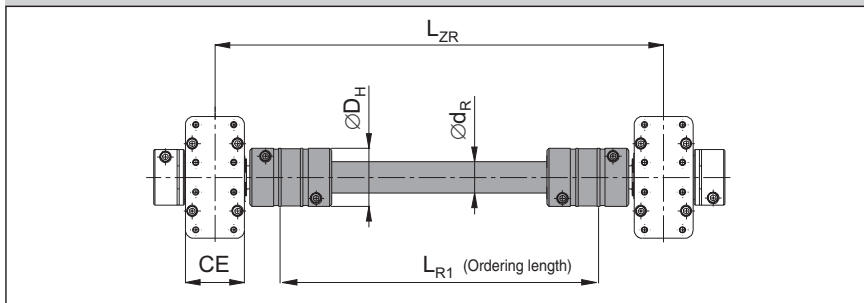
Backlash-free shaft connection under pre-stress
Design up to speed 1500 rpm
Double cardan connection for larger displacements
Easy to mount

Material:

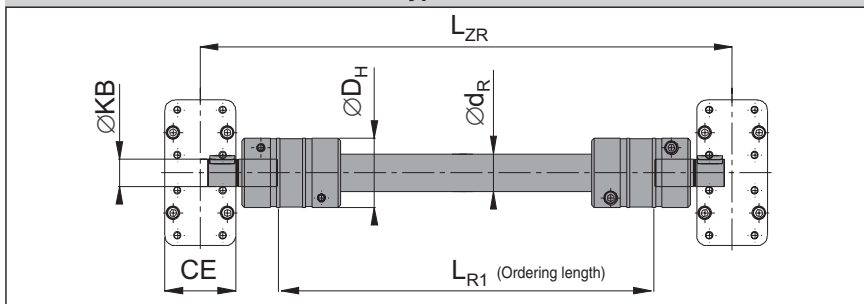
Aluminium (AL-H) / Steel (St-H)
Polyurethane/Hytrel



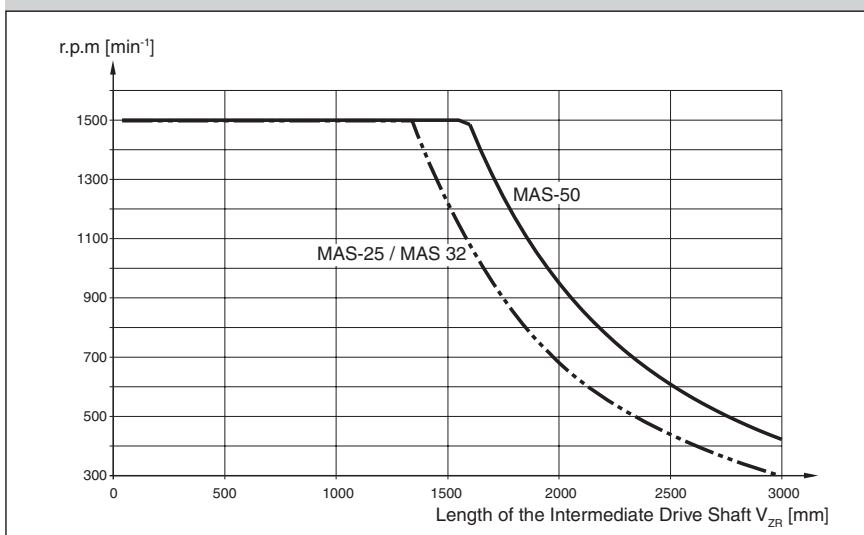
For Clamp Shaft with Connection Shaft
Series OSP-E25BHD to E50BHD, Type MAS-



For Hollow Shaft with Keyway
Series OSP-E25BHD to E50BHD, Type MAS-



Critical Speed v. for Coupling Length



1 = For Clamp Shaft with Connection Shaft
2 = For Hollow Shaft with Keyway

Characteristics / Dimension Table (mm)

Series	Type	Max Torque [Nm]**	CE	D _H	KB***	L _{ZR}	L _{R1}	d _R	Order No. *	
									For Clamp shaft	For Hollow shaft
OSP-E25BHD	MAS-25	39	42	55	16 _{h7}	<3000	L _{ZR} - 112	25 x 2.5	12305-....	12281 -
OSP-E32BHD	MAS-32	42	56	55	22 _{h7}	<3000	L _{ZR} - 126	25 x 2.5	12306-....	12282 -
OSP-E50BHD	MAS-50	102	87	65	32 _{h7}	<3000	L _{ZR} - 167	35 x 4.0	12307-....	12283 -

* Complete with L_{R1} length in mm.
Example: 12305 - 1200
(L_{R1} length = 1200 mm)

** For higher torque requirement, please contact your local

HOERBIGER-ORIGA technical support.

*** Other dimensions for KB on request.
See OSP-E..BHD basic unit, page 18.

