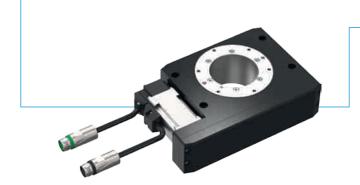
FLAT SWIVEL UNITS SERIES DES

PRODUCT ADVANTAGES



"The unique"

Decide for yourself!

With the standard motor or motors from another manufacturer - You decide what harmonises the best with your system

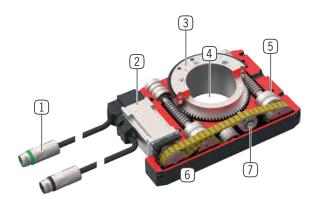
Integrated media transmission

The D1 media exchanger makes cable breaks and undefined interference contours through the power supply line a thing of the past

Freely positionable

No matter whether your task involves rotating, lifting or cycling: The unit is universally usable and can be uniquely adjusted to your application

BENEFITS IN DETAIL



- 1 Energy supply
 - motor cable, female
 - encoder cable, male
- 2 Drive - AC servo motor

(3) Intake flange

- for connection to application-specific adapter plate (to be produced by the customer)
- simple tool connection

4 Central bore

- for cable feed-through

5 Mounting and positioning

- mounting possible from several sides for versatile positioning
- 6 Robust, lightweight housing

- Hard-coated aluminum alloy

(7) Force transfer

- tooth belt/gear rack/worm gear

SERIES CHARACTERISTICS

Installation size		Version			
DESXXX		-В		D1-B	-99
PB Pro	ofibus	•		•	
PN Pro	ofinet, EtherCat, EtherNet/IP, Sercos	•		•	
M wit	th drive	•		•	
	powered; installation provided by stomer				•
	nillion maintenance-free revolutions ax.)	•		•	•
Sel	If locking mechanism	•		•	•
IP 54 IP5	54	•		•	•
Inte	egrated sensing	•		•	
O Co	ntinuously variable positions	•		•	
Adj	justable swivel angle	•		•	
	ectrical feed-through			•	
Flu	iid feed-through			•	

TECHNICAL DATA

	Swivel angle	Torque	Weight	IP class
Installation size	[°]	[Nm]	[kg]	
DES140	00	10 - 12	4 - 7	IP54
DES190	00	62 - 64	10,8 - 15,9	IP54

FURTHER INFORMATION IS AVAILABLE ONLINE



All information just a click away at: www.zimmer-group.com. Find data, illustrations, 3D models and operating instructions for your installation size using the order number for your desired product. Quick, clear and always up-to-date.

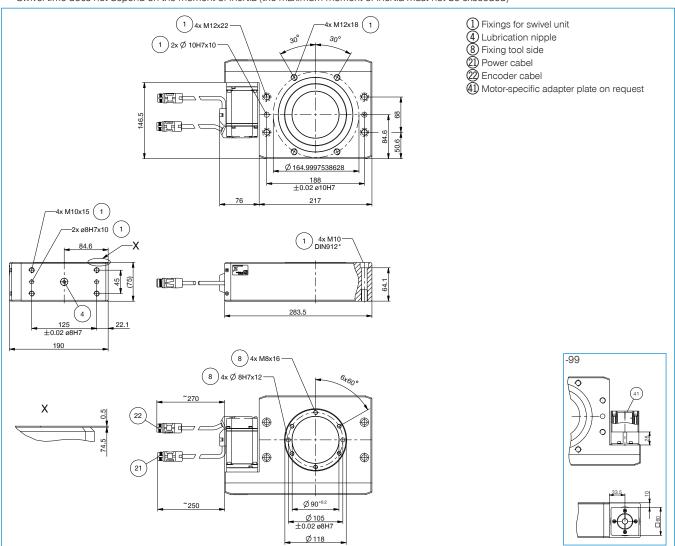
FLAT SWIVEL UNITS INSTALLATION SIZE DES190

PRODUCT SPECIFICATIONS Forces and moments Indicates the static load on the bearing. M Fa Fa [N] 8000 Mr [Nm] 525 INCLUDED IN DELIVERY 1 [piece] Commissioning USB 052650 RECOMMENDED ACCESSORIES Ū **CONNECTIONS / OTHER ENERGY SUPPLY** ZUBHCS-B ZUBHCSKAG10-B ŝ Drive controller Profibus Encoder cable 10 m ZUBHCSME-B ZUBHCSKAG25-B Drive control unit SERCOS III, PROFINET IO, EtherNet/ IP, EtherCAT Encoder cable 25 m ZUBHCSN ZUBHCSKAP01 Programming cable Line filter Ē ZUBHCSKAL05-B **CONNECTIONS / OTHER** Power cable 5 m ZUBHCSS Indra Works Drive Start Up CD ZUBHCSKAL10-B Power cable 10 m ZUBHCSKAG05-B Encoder cable 5 m ZUBHCSKAL25-B Power cable 25 m

	Technical data	
Order no.	DES190-B	DES190-99
Drive *	AC servo motor	Specific to the customer
Rotation angle [°]	unlimited	
Nominal torque [Nm]	50	
Torque max. [Nm]	64	
Nominal speed [rpm]	15	
Max. speed [rpm]	25	
Swivel time 360° with 15 rpm [s]**	4.6	
Swivel time 360° with 25 rpm [s]**	3	
Moment of inertia max. [kg m ²]	3	
Jaw speed in positioning mode [rad/s ²]	50	
Positioning delay [rad/s ²]	50	
Electrical energy transfer		
Pneumatic energy transfer [Quantity]		
Self locking mechanism	Helical gear / worm gear	Helical gear / worm gear
Power transfer	Helical gear / worm gear	Helical gear / worm gear
Repetition accuracy +/- [°]	0.05	0.05
Operating temperature [°C]	5 +80	5 +80
Net input voltage	1x200-240 VAC 50HZ	
Continuous current [A]	2.3	
Peak current [A]	7.4	
Protection to IEC 60529	IP54	IP54
Weight [kg]	11.2	10.8

*Select the third-party motor corresponding to the motor performance figures in the DES series - Accessories chapter

**Swivel time does not depend on the moment of inertia (the maximum moment of inertia must not be exceeded)



FLAT SWIVEL UNITS DES SERIES - ACCESSORIES

RECOMMENDED ACCESSORIES



ENERGY SUPPLY







ZUBHCS-B Drive controller Profibus **ZUBHCSME-B** Drive control unit SERCOS III, PROF-Line filter INET IO, EtherNet/IP, EtherCAT



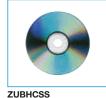
GV1-4X8 Straight Fittings - Quick Connect Style



WV1-4X8 Angled Fittings - Quick Connect Style



CONNECTIONS / OTHER



Indra Works Drive Start

ZUBHCSKAL10-B

Power cable 10 m

(4)

Up CD

(2)

ZUBHCSKAG05-B Encoder cable 5 m



ZUBHCSKAL25-B Power cable 25 m



ZUBHCSKAG10-B Encoder cable 10 m



RSTVSM23G12S-B Round plug, straight -M23 plug





ZUBHCSKAP01 Programming cable



RSTVSM23G12B-B Round plug, straight -M23 socket



ZUBHCSKAL05-B Power cable 5 m



RSTVSM23W12B-B Round plug, angular M23 socket





RSTVSM23W12S-B







Round plug, angular M23 plug



	Technical data for motors	
Order no.	MSM019B-0300-NN-M5-MH0	MSM031C-0300-NN-M5-MH0
compatible with	DES140	DES190
Manufacturer	BOSCH	BOSCH
Nominal torque [Nm]	0,32	1,3
Torque max. [Nm]	0.95	3.8
Nominal speed [rpm]	3000	3000
Max. speed [rpm]	5000	5000
Protection to IEC 60529	IP54	IP54

