



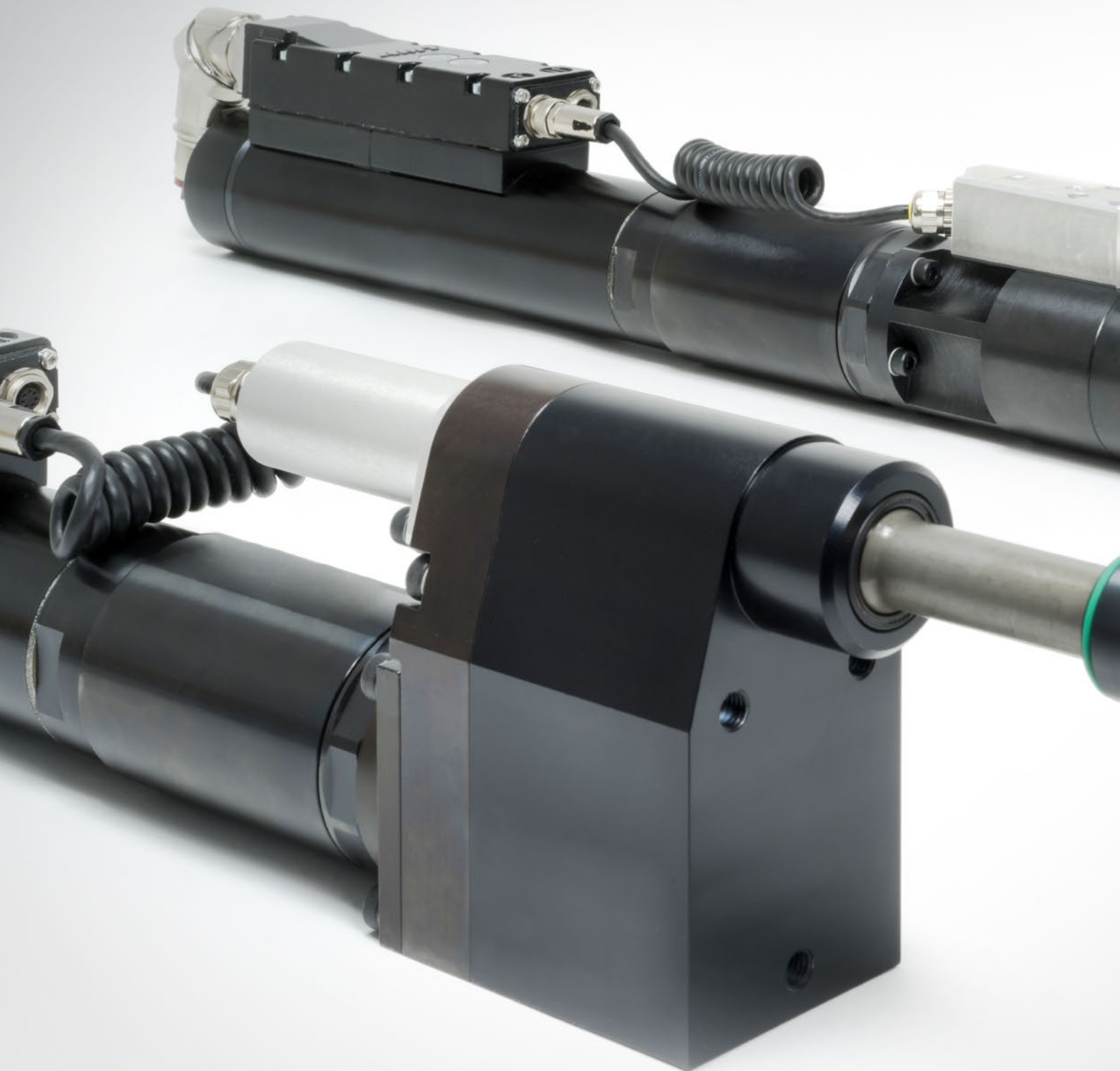
FIXTURE SPINDLE TECHNOLOGY

Product catalog



FIXTURE SPINDLE TECHNOLOGY

Fixture Spindles from AMT set standards with regard to precision, performance and reliability. Therefore they are the first choice when you require a fast process time and highest accuracy while fastening and high availability of the tools are indispensable.

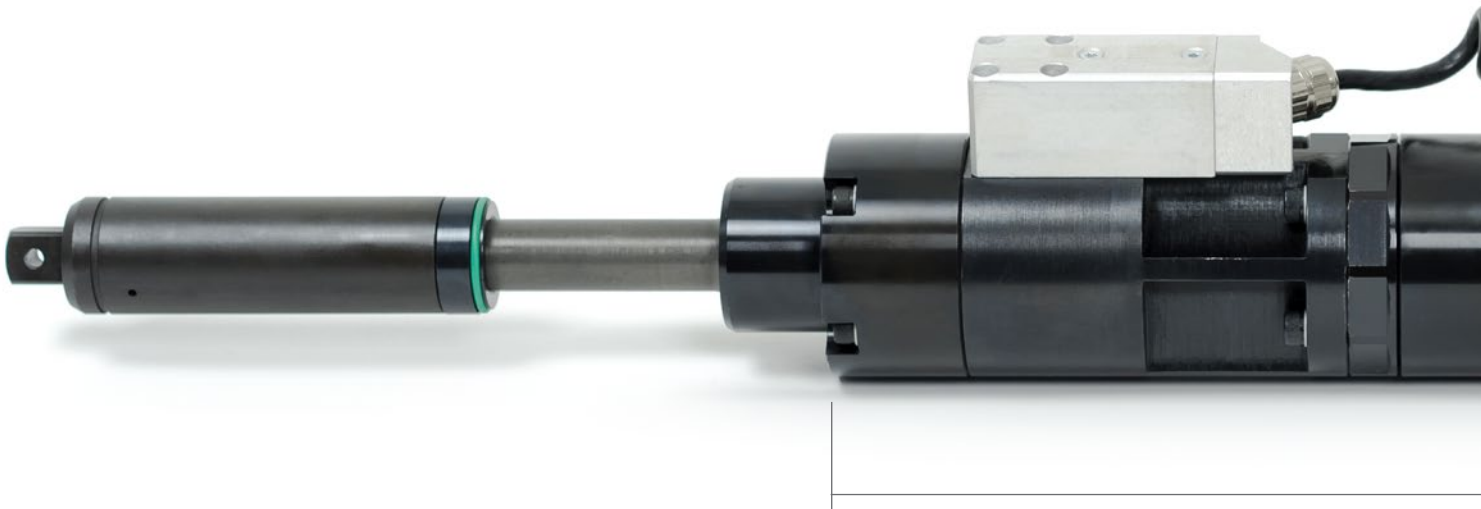









ESX CENTRIC OUTPUT

Technical key figures

Torque: 4 - 1300 Nm
Speed: up to 1200 1/min



Hole pattern table

Size	2-times  [mm]	3-times  [mm]	4-times  [mm]	5-times  [mm]	6-times  [mm]
Size 1	43	50	62	74	87
Size 2	59	69	84	101	118
Size 3	83	96	118	142	166
Size 4	88	102	125	150	176
Size 5	93	123	132	176	213

Key head is not included in the standard-delivery (See accessories)



Centric output with reaction torque center

Size	Type	Ident-no.	Torque range [Nm]	Speed max. [1/min.]	Length [mm]	Diameter [mm]	Weight [kg]
1	ESX103DRX40AZX150	70082420	6 - 37	1001	389.0	Ø42	3.9
	ESX106DRX65AZX150	70082421	10 - 63	599	389.0	Ø42	3.9
2	ESX206DRX140AZX250	70082422	21 - 62	1200	435.8	Ø58	6.8
	ESX213DRX140AZX250	70082423	21 - 135	533	470.9	Ø58	7.4
	ESX222DRX270AZX250	70082424	33 - 220	326	470.9	Ø58	7.4
	ESX227DRX270AZX250	70082425	41 - 270	266	493.5	Ø58	7.8
3	ESX329DRX300AZX350	70082426	44 - 291	486	511.5	Ø82	15.2
	ESX350DRX500AZX350	70082427	75 - 500	286	511.5	Ø82	15.2
4	ESX461DRX800AZX460	70082428	93 - 617	229	566.2	Ø87	18.1
	ESX480DRX800AZX460	70082429	120 - 800	172	566.2	Ø87	18.1
5	ESX5130DRX1300AZX580	70082430	195 - 1300	104	630.9	92 ²	25.5

Centric output with reaction torque sensor (only possibility for counter measurement)

Size	Type	Ident-no.	Torque range [Nm]	Speed max. [1/min.]	Length [mm]	Diameter [mm]	Weight [kg]
1	ESX103ZWRX40AZX150	70082431	6 - 37	1001	389.0	Ø42	3.9
	ESX106ZWRX65AZX150	70082432	10 - 63	599	389.0	Ø42	3.9
2	ESX206ZWRX140AZX250	70082433	21 - 62	1200	435.8	Ø58	6.9
	ESX213ZWRX140AZX250	70082434	21 - 135	533	470.9	Ø58	7.4
	ESX222ZWRX270AZX250	70082435	33 - 220	326	470.9	Ø58	7.4
	ESX227ZWRX270AZX250	70082436	41 - 270	266	493.5	Ø58	7.8
3	ESX329ZWRX300AZX350	70082437	44 - 291	486	511.5	Ø82	15.2
	ESX350ZWRX500AZX350	70082438	75 - 500	286	511.5	Ø82	15.2
4	ESX461ZWRX800AZX460	70082439	93 - 617	229	566.2	Ø87	18.2
	ESX480ZWRX800AZX460	70082440	120 - 800	172	566.2	Ø87	18.2
5	ESX5130ZWRX1300AZX580	70082441	195 - 1300	104	630.9	92 ²	25.5

Centric output with reaction torque sensor

Size	Type	Ident-no.	Torque range [Nm]	Speed max. [1/min.]	Length [mm]	Diameter [mm]	Weight [kg]
1	ESX103DAX40AZX150	70082442	4 - 37	1001	389.0	Ø42	3.8
	ESX106DAX65AZX150	70082443	7 - 63	599	389.0	Ø42	3.8
2	ESX206DAX140AZX250	70082444	14 - 62	1200	435.8	Ø58	6.7
	ESX213DAX140AZX250	70082445	14 - 135	533	470.9	Ø58	7.3
	ESX222DAX270AZX250	70082446	22 - 220	326	470.9	Ø58	7.3
	ESX227DAX270AZX250	70082447	27 - 270	266	493.5	Ø58	7.7
3	ESX329DAX300AZX350	70082448	30 - 291	486	511.5	Ø82	15.3
	ESX350DAX500AZX350	70082449	50 - 500	286	511.5	Ø82	15.3
4	ESX461DAX800AZX460	70082450	62 - 617	229	566.2	Ø87	18.1
	ESX480DAX800AZX460	70082451	80 - 800	172	566.2	Ø87	18.1
5	ESX5130DAX1300AZX580	70082452	130 - 1300	104	630.9	92 ²	25.4

Components overview given in page 22

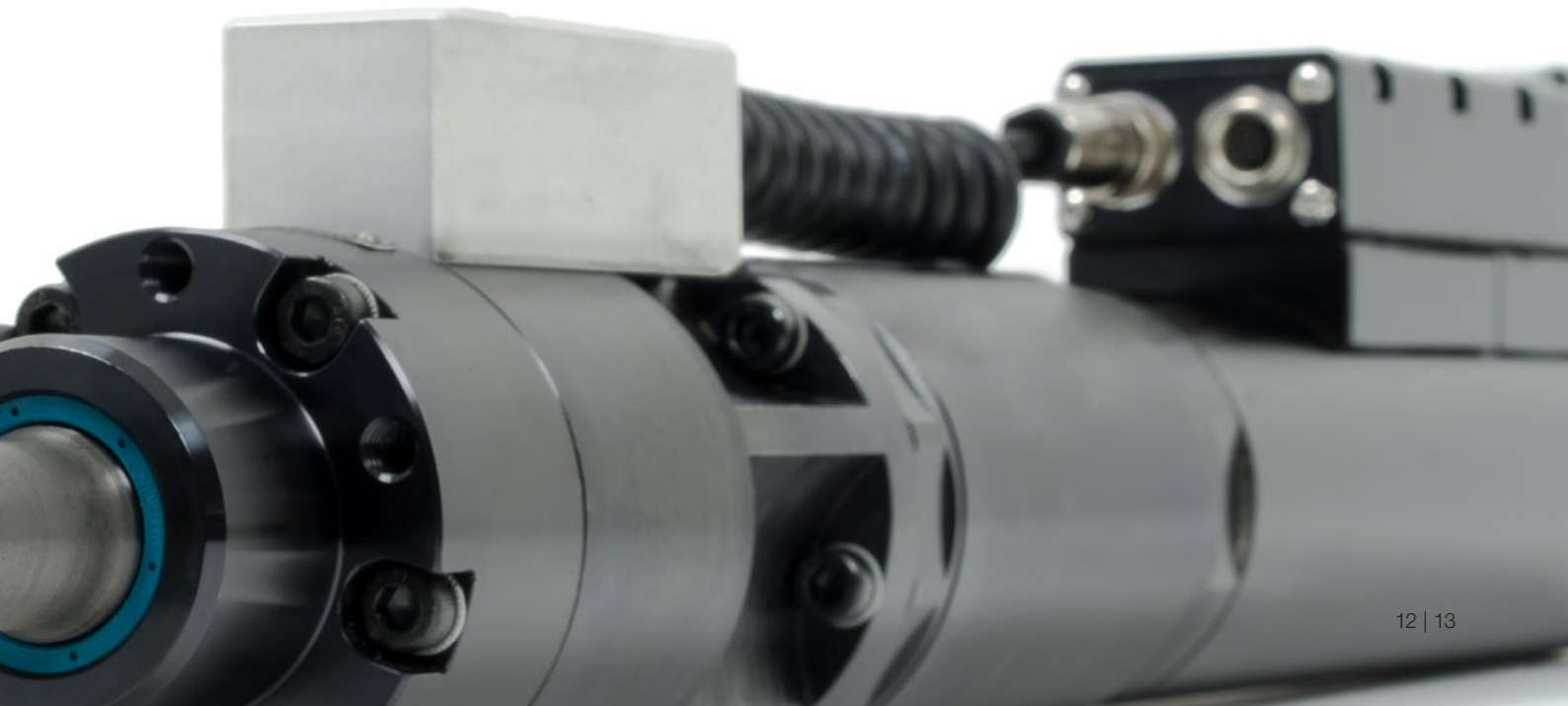


Centric output with action torque sensor (Redundant construction)

Size	Type	Ident-no.	Torque range [Nm]	Speed max. [1/min.]	Length [mm]	Diameter [mm]	Weight [kg]
1	ESX103DRX40DWAX40AZX150	70082453	4 - 37	1001	479.0	Ø42	4.7
	ESX106DRX65DWAX65AZX150	70082454	7 - 63	599	479.0	Ø42	4.7
2	ESX206DRX140DWAX140AZX250	70082455	14 - 62	1200	525.8	Ø58	8.0
	ESX213DRX140DWAX140AZX250	70082456	14 - 135	533	560.9	Ø58	8.6
	ESX222DRX270DWAX270AZX250	70082457	22 - 220	326	560.9	Ø58	8.6
	ESX227DRX270DWAX270AZX250	70082458	27 - 270	266	583.5	Ø58	9.0
3	ESX329DRX300DWAX300AZX350	70082459	30 - 291	486	603.5	Ø82	17.7
	ESX350DRX500DWAX500AZX350	70082460	50 - 500	286	603.5	Ø82	17.7
4	ESX461DRX800DWAX800AZX460	70082461	62 - 617	229	666.2	Ø87	21.1
	ESX480DRX800DWAX800AZX460	70082462	80 - 800	172	666.2	Ø87	21.1
5	ESX5130DRX1300DWAX1300AZX580	70082463	130 - 1300	104	742.9	92 ²	30.2

Centric output with action torque sensor (Redundant construction and counter measurement)

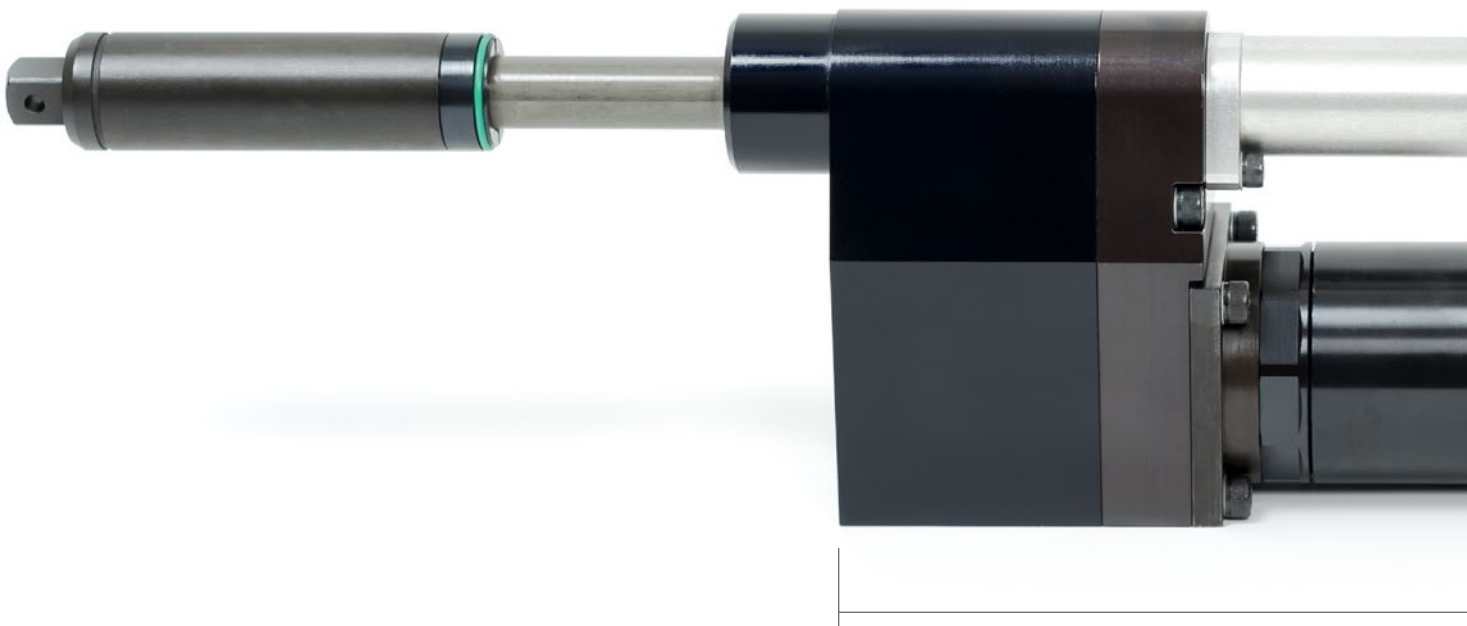
Size	Type	Ident-no.	Torque range [Nm]	Speed max. [1/min.]	Length [mm]	Diameter [mm]	Weight [kg]
1	ESX103ZWRX40DWAX40AZX150	70082464	4 - 37	1001	479.0	Ø42	4.7
	ESX106ZWRX65DWAX65AZX150	70082465	7 - 63	599	479.0	Ø42	4.7
2	ESX206ZWRX140DWAX140AZX250	70082466	14 - 62	1200	525.8	Ø58	8.1
	ESX213ZWRX140DWAX140AZX250	70082467	14 - 135	533	560.9	Ø58	8.7
	ESX222ZWRX270DWAX270AZX250	70082468	22 - 220	326	560.9	Ø58	8.7
	ESX227ZWRX270DWAX270AZX250	70082469	27 - 270	266	583.5	Ø58	9.0
3	ESX329ZWRX300DWAX300AZX350	70082470	30 - 291	486	603.5	Ø82	17.8
	ESX350ZWRX500DWAX500AZX350	70082471	50 - 500	286	603.5	Ø82	17.8
4	ESX461ZWRX800DWAX800AZX460	70082472	62 - 617	229	666.2	Ø87	21.2
	ESX480ZWRX800DWAX800AZX460	70082473	80 - 800	172	666.2	Ø87	21.2
5	ESX5130ZWRX1300DWAX1300AZX580	70082474	130 - 1300	104	742.9	92 ²	30.2








ESX OFFSET OUTPUT

Technical key figures

Torque: 4 - 1000 Nm
 Speed: up to 1114 1/min



Hole pattern table

Size	2-times  [mm]	3-times  [mm]	4-times  [mm]	5-times  [mm]	6-times  [mm]
Size 1	31	36	44	53	62
Size 2 (with AODX250-140 & AODX250-220)	41	48	58	70	82
Size 2 (with AODX250-270)	46	54	66	79	92
Size 3	51	59	73	87	102
Size 4 (with AODX460-800)	66	85	93	112	131
Size 4 (with AODX460-1000)	77	96	109	131	154

Key head is not included in the standard-delivery (See accessories)



Offset output with reaction torque sensor

Size	Type	Ident-no.	Torque range [Nm]	Speed max. [1/min.]	Length [mm]	Radius [mm]	Weight [kg]
1	ESX103AODX150-40	70082475	4 - 37	938	347.0	15	3.6
	ESX106AODX150-65	70082476	7 - 63	561	347.0	15	3.6
2	ESX206AODX250-140	70082477	14 - 62	1114	412.3	20	7.7
	ESX213AODX250-140	70082478	14 - 135	494	447.4	20	8.3
	ESX222AODX250-220	70082479	22 - 220	302	447.4	20	8.3
	ESX227AODX250-270	70082480	27 - 270	249	479.0	22.5	9.2
3	ESX329AODX350-300	70082481	30 - 291	448	515.2	25	16.9
	ESX350AODX350-500	70082482	50 - 500	264	515.2	25	16.9
4	ESX461AODX460-800	70082483	62 - 617	216	567.7	32.2	21.5
	ESX480AODX460-800	70082484	80 - 800	162	567.7	32.2	21.5
	ESX480AODX460-1000	70082485	100 - 1000	127	567.7	38	22.6

Offset output with action torque sensor (with reaction torque sensor for counter measurement)

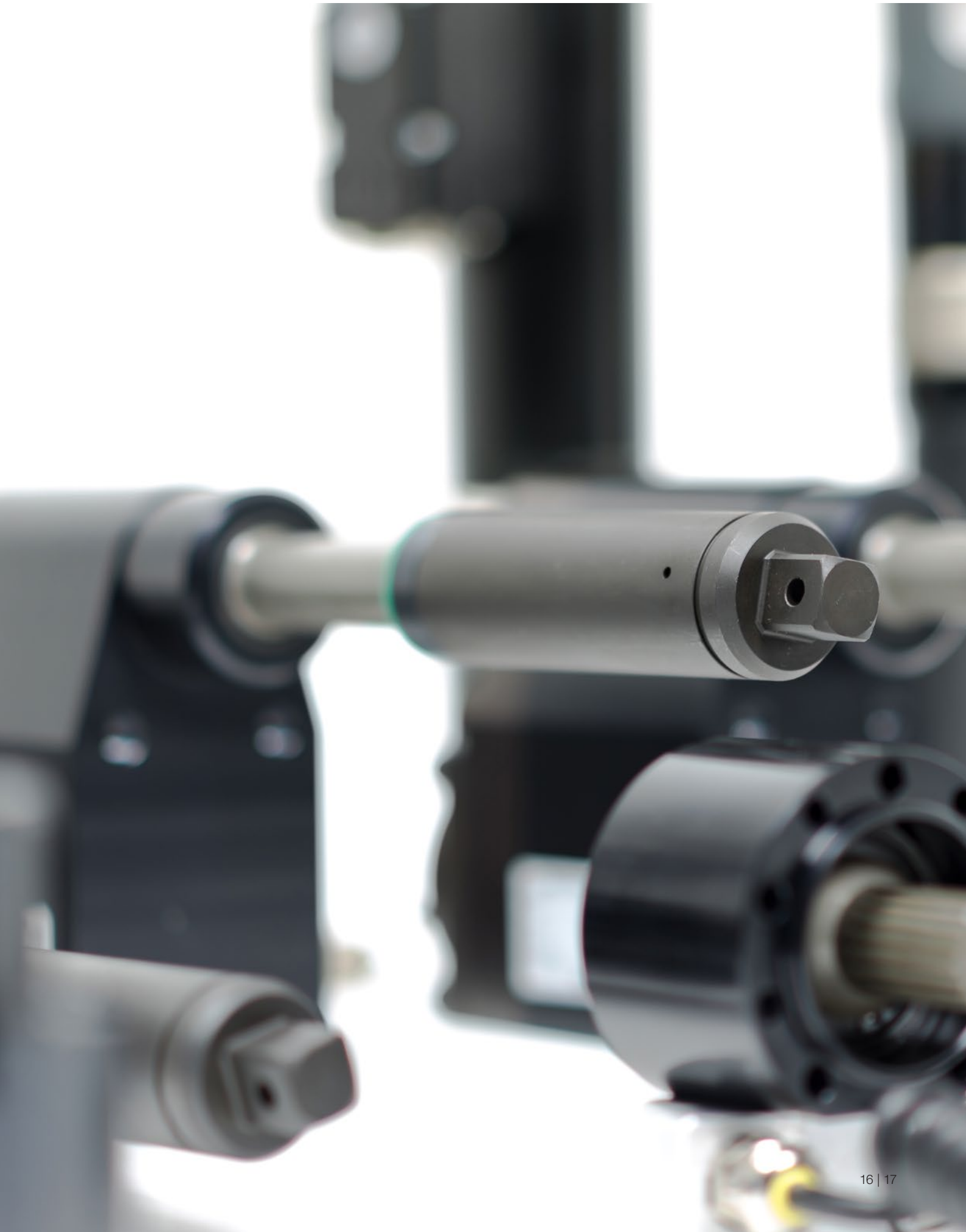
Size	Type	Ident-no.	Torque range [Nm]	Speed max. [1/min.]	Length [mm]	Radius [mm]	Weight [kg]
1	ESX103ZWRX40AODX150-40	70082486	4 - 37	938	437.0	15	4.5
	ESX106ZWRX65AODX150-65	70082487	7 - 63	561	437.0	15	4.5
2	ESX206ZWRX140AODX250-140	70082488	14 - 62	1114	502.3	20	9.1
	ESX213ZWRX140AODX250-140	70082489	14 - 135	494	537.4	20	9.6
	ESX222ZWRX270AODX250-220	70082490	22 - 220	302	537.4	20	9.6
	ESX227ZWRX270AODX250-270	70082491	27 - 270	249	569.0	22.5	10.6
3	ESX329ZWRX300AODX350-300	70082492	30 - 291	448	607.2	25	19.3
	ESX350ZWRX500AODX350-500	70082493	50 - 500	264	607.2	25	19.3
4	ESX461ZWRX800AODX460-800	70082494	62 - 617	216	667.7	32.2	24.5
	ESX480ZWRX800AODX460-800	70082495	80 - 800	162	667.7	32.2	24.5
	ESX480ZWRX800AODX460-1000	70082496	100 - 1000	127	667.7	38	25.6

Offset output with action torque sensor (Redundant construction)

Size	Type	Ident-no.	Torque range [Nm]	Speed max. [1/min.]	Length [mm]	Radius [mm]	Weight [kg]
1	ESX103DRX40WX1AODX150-40	70082497	4 - 37	938	467.0	15	4.7
	ESX106DRX65WX1AODX150-65	70082498	7 - 63	561	467.0	15	4.7
2	ESX206DRX140WX2AODX250-140	70082499	14 - 62	1114	542.3	20	9.5
	ESX213DRX140WX2AODX250-140	70082500	14 - 135	494	577.4	20	10.0
	ESX222DRX270WX2AODX250-220	70082501	22 - 220	302	577.4	20	10.0
	ESX227DRX270WX2AODX250-270	70082502	27 - 270	249	609.0	22.5	11.0
3	ESX329DRX300WX3AODX350-300	70082503	30 - 291	448	652.2	25	20.1
	ESX350DRX500WX3AODX350-500	70082504	50 - 500	264	652.2	25	20.1
4	ESX461DRX800WX4AODX460-800	70082505	62 - 617	216	717.7	32.2	25.4
	ESX480DRX800WX4AODX460-800	70082506	80 - 800	162	717.7	32.2	25.4
	ESX480DRX800WX4AODX460-1000	70082507	100 - 1000	127	717.7	38	27.2

Offset output with action torque sensor (Redundant construction and counter measurement)

Size	Type	Ident-no.	Torque range [Nm]	Speed max. [1/min.]	Length [mm]	Radius [mm]	Weight [kg]
1	ESX103ZWRX40WX1AODX150-40	70082508	4 - 37	938	467.0	15	4.7
	ESX106ZWRX65WX1AODX150-65	70082509	7 - 63	561	467.0	15	4.7
2	ESX206ZWRX140WX2AODX250-140	70082510	14 - 62	1114	542.3	20	9.5
	ESX213ZWRX140WX2AODX250-140	70082511	14 - 135	494	577.4	20	10.1
	ESX222ZWRX270WX2AODX250-220	70082512	22 - 220	302	577.4	20	10.1
	ESX227ZWRX270WX2AODX250-270	70082513	27 - 270	249	609.0	22.5	11.0
3	ESX329ZWRX300WX3AODX350-300	70082514	30 - 291	448	652.2	25	20.1
	ESX350ZWRX500WX3AODX350-500	70082515	50 - 500	264	652.2	25	20.1
4	ESX461ZWRX800WX4AODX460-800	70082516	62 - 617	216	717.7	32.2	25.5
	ESX480ZWRX800WX4AODX460-800	70082517	80 - 800	162	717.7	32.2	25.5
	ESX480ZWRX800WX4AODX460-1000	70082518	100 - 1000	127	717.7	38	27.3



ESX ANGLE OUTPUT

Technical key figures

Torque: 4 - 800 Nm
Speed: up to 1136 1/min



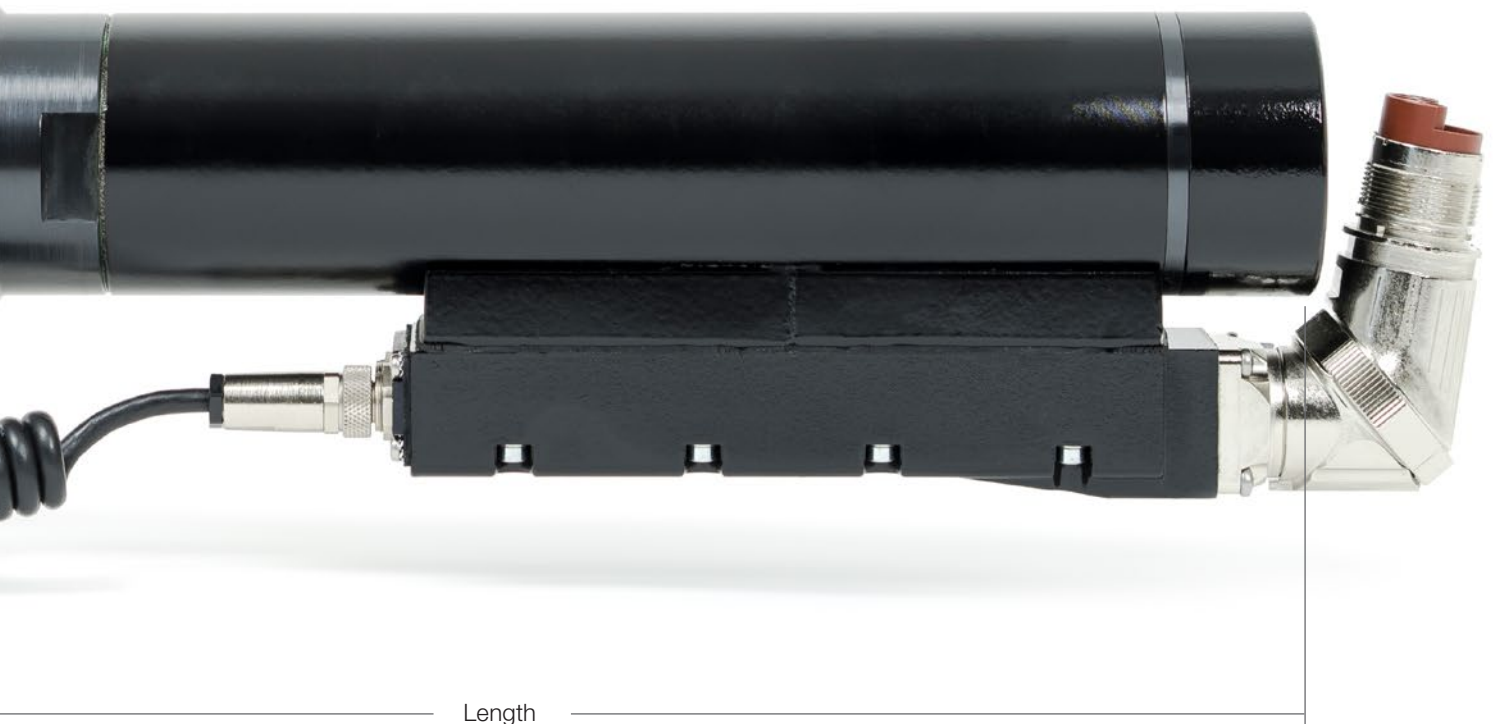
Height

Key head is not included in the standard-delivery
(See accessories)

Angle output with action torque sensor

Size	Type	Ident-no.	Torque range [Nm]	Speed max. [1/min.]	Length [mm]	Height [mm]	Weight [kg]
1	ESX103AWDX150-40	70082519	4 - 37	929	349.5	98	4.5
	ESX106AWDX150-65	70082520	7 - 63	556	349.5	98	4.5
2	ESX206AWDX250-140	70082521	14 - 62	1136	398.3	124	8.8
	ESX213AWDX250-140	70082522	14 - 135	504	433.4	124	9.3
	ESX222AWDX250-270	70082523	22 - 220	308	433.4	124	9.3
	ESX227AWDX250-270	70082524	27 - 270	252	456.0	124	9.7
3	ESX329AWDX350-300	70082525	30 - 291	460	482.0	137	18.1
	ESX350AWDX350-500	70082526	50 - 500	270	482.0	137	18.1
4	ESX461AWDX460-800	70082527	62 - 617	211	541.2	151.5	23.8
	ESX480AWDX460-800	70082528	80 - 800	158	541.2	151.5	23.8

Components overview given in page 22



Angle output with action torque sensor (with reaction torque sensor for counter measurement)

Size	Type	Ident-no.	Torque range [Nm]	Speed max. [1/min.]	Length [mm]	Height [mm]	Weight [kg]
1	ESX103ZWRX40AWDX150-40	70082529	4 - 37	929	439.5	98	5.4
	ESX106ZWRX65AWDX150-65	70082530	7 - 63	556	439.5	98	5.4
2	ESX206ZWRX140AWDX250-140	70082531	14 - 62	1136	488.3	124	10.1
	ESX213ZWRX140AWDX250-140	70082532	14 - 135	504	523.4	124	10.7
	ESX222ZWRX270AWDX250-270	70082533	22 - 220	308	523.4	124	10.7
	ESX227ZWRX270AWDX250-270	70082534	27 - 270	252	546.0	124	11.1
3	ESX329ZWRX300AWDX350-300	70082535	30 - 291	460	574.0	137	20.6
	ESX350ZWRX500AWDX350-500	70082536	50 - 500	270	574.0	137	20.6
4	ESX461ZWRX800AWDX460-800	70082537	62 - 617	211	641.2	151.5	26.8
	ESX480ZWRX800AWDX460-800	70082538	80 - 800	158	641.2	151.5	26.8

Angle output with action torque sensor (Redundant construction)

Size	Type	Ident-no.	Torque range [Nm]	Speed max. [1/min.]	Length [mm]	Height [mm]	Weight [kg]
1	ESX103DRX40WX1AWDX150-40	70082539	4 - 37	929	469.5	98	5.6
	ESX106DRX65WX1AWDX150-65	70082540	7 - 63	556	469.5	98	5.6
2	ESX206DRX140WX2AWDX250-140	70082541	14 - 62	1136	528.3	124	10.5
	ESX213DRX140WX2AWDX250-140	70082542	14 - 135	504	563.4	124	11.1
	ESX222DRX270WX2AWDX250-270	70082543	22 - 220	308	563.4	124	11.1
	ESX227DRX270WX2AWDX250-270	70082544	27 - 270	252	586.0	124	11.4
3	ESX329DRX300WX3AWDX350-300	70082545	30 - 291	460	619.0	137	21.3
	ESX350DRX500WX3AWDX350-500	70082546	50 - 500	270	619.0	137	21.3
4	ESX461DRX800WX4AWDX460-800	70082547	62 - 617	211	691.2	151.5	27.7
	ESX480DRX800WX4AWDX460-800	70082548	80 - 800	158	691.2	151.5	27.7

Angle output with action torque sensor (Redundant construction and counter measurement)

Size	Type	Ident-no.	Torque range [Nm]	Speed max. [1/min.]	Length [mm]	Height [mm]	Weight [kg]
1	ESX103ZWRX40WX1AWDX150-40	70082549	4 - 37	929	469.5	98	5.6
	ESX106ZWRX65WX1AWDX150-65	70082550	7 - 63	556	469.5	98	5.6
2	ESX206ZWRX140WX2AWDX250-140	70082551	14 - 62	1136	528.3	124	10.5
	ESX213ZWRX140WX2AWDX250-140	70082552	14 - 135	504	563.4	124	11.1
	ESX222ZWRX270WX2AWDX250-270	70082553	22 - 220	308	563.4	124	11.1
	ESX227ZWRX270WX2AWDX250-270	70082554	27 - 270	252	586.0	124	11.5
3	ESX329ZWRX300WX3AWDX350-300	70082555	30 - 291	460	619.0	137	21.3
	ESX350ZWRX500WX3AWDX350-500	70082556	50 - 500	270	619.0	137	21.3
4	ESX461ZWRX800WX4AWDX460-800	70082557	62 - 617	211	691.2	151.5	27.8
	ESX480ZWRX800WX4AWDX460-800	70082558	80 - 800	158	691.2	151.5	27.8



COMPONENTS OVERVIEW

Base Spindle

By using new generation motors, the performance of the ESX Fixture Spindles could be increased by up to 16 % when compared to the proven ECR series of the same size. The motors additionally have a greatly improved level of efficiency.

This reduces the energy consumption per application as well as the heating up of the spindle. With the newly developed drive series, the output torque could be increased by up to 35 % with the same size. The innovative rotating joint hybrid connector can be gradually adjusted to fit the respective installation situation of the spindle.

Every angle can be gradually set between a straight cable connection and a nearly 90 degree connection. It is also possible to rotate the connector 330 degrees. Angle connectors on the spindle cable are now a thing of the past. It is now significantly easier to maintain spare part inventory.



E	SX	1	06
	Series SX - SX-Series		06 - max. torque [Nm] / 10 (rounded)
E - Fixture Spindle		1 - Size (1 ... 5)	

Reaction transducer

The cost-effective torque sensors are installed between drive and output. The torque measurement is done indirectly via the reaction torque (reaction torque sensor). A ZWRX torque sensor has an additional torque and angle measuring system compared to a DRX torque sensor. Torque sensors of the DRX and ZWRX series are used in the control circuit, as a redundant torque sensor in conjunction with an action torque sensor or for counter-measurement via an external measuring case (ZWRX only). When using these torque sensors transversely to the axial direction, the acceleration/deceleration must not exceed 10 m/s².



				X - Suitable for SX-Series
	W - Integrated phase angle transmitter (only for dual circuit transducer)			65 - Transducer rating [Nm]
Z	W	R	X	65
		R - Reaction transducer		
D - Torque transducer				
Z - Dual circuit - Torque transducer				

Action transducer

The torque sensors of DAX- and DWAX-series are used for straight output. The torque is measured directly on the rotating output shaft (action torque sensor) and transmitted without contact to the evaluation electronics of the torque sensor. DWAX torque sensors have an integrated angle measuring system.

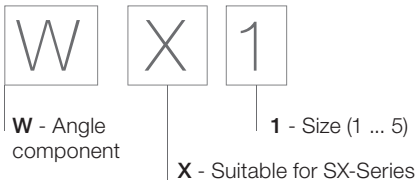
Torque sensors of the DAX and DWAX series enable a higher output torque and a wider range of use of the tool.



				X - Suitable for SX-Series
	W - Integrated angle transmitter (Option)			65 - Transducer rating [Nm]
D	W	A	X	65
		A - Action transducer		
D - Torque transducer				

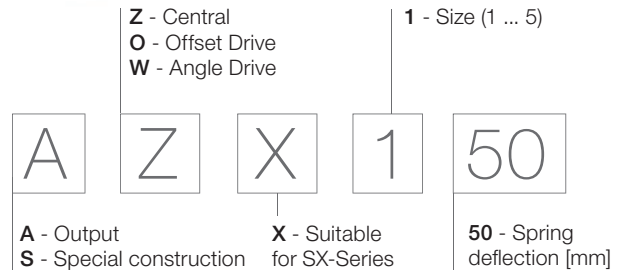
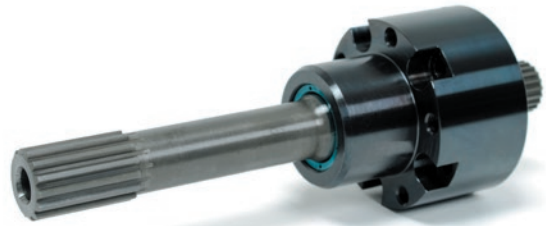
Angle component

If an AODX offset gear or an AWDX - An angle measuring system is also required (e.g. for installing a redundant system) an angular assembly of the WX series is used.



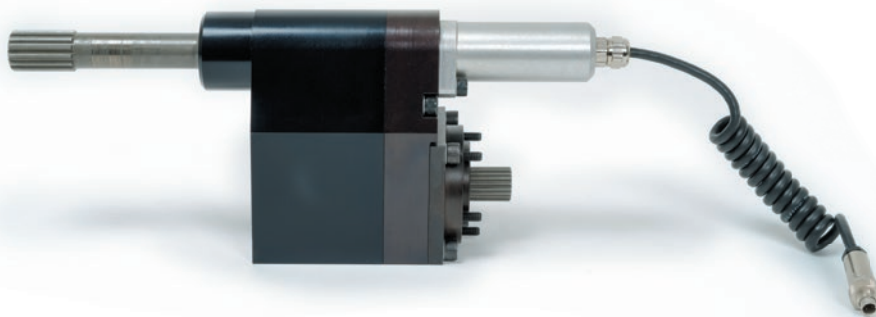
Outputs without measurement transducer

If no special requirements exist with respect to the geometry of the spindle, a centric output is used.



Outputs with measurement transducer

AODX - offset gearboxes and AWDX angle gearboxes have an integrated torque sensor. The torque is measured directly on the rotating output shaft (action torque sensor) and transmitted without contact to the evaluation electronics of the torque sensor.



COMPACT NUTRUNNER KSX

Small, light, efficient

The new built-in nutrunners of the KSX series are ultra-compact and very light. They have been especially developed for use in applications where space requirements and the weight of the nutrunning equipment used are key factors.

Integrated status display

The status display integrated in the nutrunner combines several benefits. The operating and communication status as well as the quality statement of the last tightening operation are shown via LEDs. This significantly simplifies the error diagnosis and when using the nutrunner in a handling unit no separate display panel will be required.

Rotatable connector

The innovative rotatable connector can be freely adjusted to the assembly situation of the nutrunner.

Technical Data

General

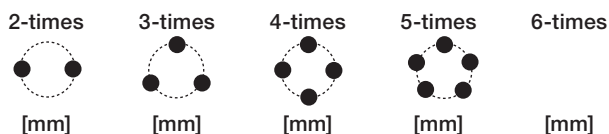
- Digital communication with the controller
- Rotatable connector
- Integrated status display
- Reaction torque sensor
- Lowest possible rotation speed: 0 RPM
- Angle accuracy: +/- 3°, absolute
- Tightening torque tolerance: +/- 7% at $cm/cm_k \geq 1,67$



	Designation	Ident-No.	Torque [Nm]	Speed [1/min]	Weight [kg]	Length [mm]	Drive	Angle Head ø [mm]
Centric output	KSX1015ZV38	70121590	3 - 15	1008	1.04	173.3	□ 3/8"	
	KSX1025ZV38	70121591	5 - 25	771	1.04	173.3	□ 3/8"	
	KSX1048ZV38	70121592	10 - 48	381	1.15	193.8	□ 3/8"	
	KSX1015ZF25	70121593	3 - 15	1008	1.08	173.3	Spring travel 25 mm	
	KSX1025ZF25	70121594	5 - 25	771	1.08	173.3	Spring travel 25 mm	
	KSX1048ZF25	70121595	10 - 48	381	1.19	193.8	Spring travel 25 mm	
	KSX1015ZF50	70121596	3 - 15	1008	1.10	173.3	Spring travel 50 mm	
	KSX1025ZF50	70121597	5 - 25	771	1.10	173.3	Spring travel 50 mm	
	KSX1048ZF50	70121598	10 - 48	381	1.21	173.3	Spring travel 50 mm	
Offset output	KSX1015OV38	70121600	4 - 15	936	1.46	217.8	□ 3/8"	
	KSX1025OV38	70121601	7 - 25	716	1.46	217.8	□ 3/8"	
	KSX1048OV38	70121602	12 - 48	349	1.72	253.6	□ 3/8"	
	KSX1015OF25	70121603	4 - 15	936	1.50	217.8	Spring travel 25 mm	
	KSX1025OF25	70121604	7 - 25	716	1.50	217.8	Spring travel 25 mm	
	KSX1048OF25	70121605	12 - 48	349	1.76	253.6	Spring travel 25 mm	
	KSX1015OF50	70121606	4 - 15	936	1.52	217.8	Spring travel 50 mm	
	KSX1025OF50	70121607	7 - 25	716	1.52	217.8	Spring travel 50 mm	
	KSX1048OF50	70121608	12 - 48	349	1.78	253.6	Spring travel 50 mm	
Angle output	KSX1023WW38	70121609	6 - 23	775	1.77	275.4	□ 3/8"	28
	KSX1035WW38	70121610	9 - 35	514	1.84	275.4	□ 3/8"	33
	KSX1058WW38	70121611	15 - 58	299	2.35	322.9	□ 3/8"	38
	KSX1083WW12	70121612	21 - 83	199	2.44	327.4	□ 1/2"	45
	KSX1058WF25	70121613	15 - 58	299	2.45	322.9	Spring travel 25 mm	38
	KSX1083WF25	70121614	21 - 83	199	2.66	327.4	Spring travel 25 mm	45
	KSX1058WF50	70121615	15 - 58	299	2.47	322.9	Spring travel 50 mm	38
	KSX1083WF50	70121616	21 - 83	199	2.69	327.4	Spring travel 50 mm	45

Hole pattern table

Size






KSX-Spindles (Centric output)	41	55	58	77	94
KSX-Spindles (Offset output)	23	27	33	39	46

About ABS

Advanced Bolting Solutions Pvt. Ltd. (ABS), established in 1998, is a leading multinational organisation in consultative sales of torquing systems, tensioning systems, and on-site machining systems, through technological leadership of international brands and unique customer support initiatives. We are also a leading on-site mechanical services contractor providing controlled bolting, machining and joint integrity services for Oil & Gas sector.

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