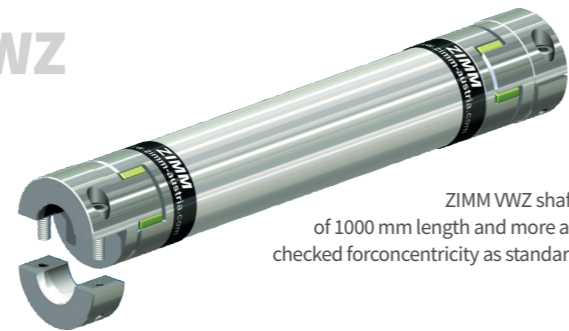
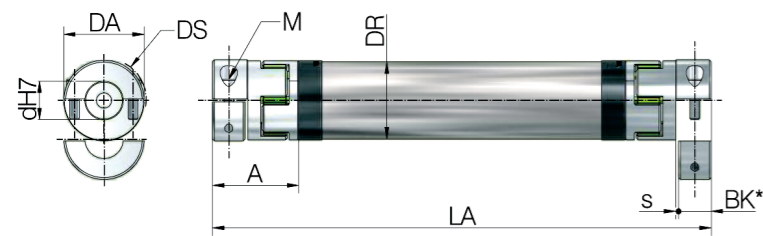


# Connecting shaft VWZ

Split shells



ZIMM VWZ shafts of 1000 mm length and more are checked for concentricity as standard!

### Standard bores „d“ mm

- VWZ-30: 8, 9, 10, 11, 12, 14, 15, 16
- VWZ-40: 9, 10, 11, 12, 14, 15, 16, 18,19, 20, 22, 24
- VWZ-60: 10, 11, 12, 14, 15, 16, 18, 19, 20, 22, 24, 25, 28, 30, 32
- VWZ-60V: 12, 15, 16, 18, 20, 22, 24, 25, 28, 30, 32, 35
- VWZ-80: 16, 19, 20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42, 45
- VWZ-100: 25, 28, 32, 38, 40, 42, 45, 48, 50, 55

Other diameters on request

### Shafts with split shells

- Material: High-tensile aluminium (stainless steel on request)
- Insertion: Split shells permit easy radial insertion
- Moment of inertia: Low
- Drive key: None. Stepless adjustment facility thanks to the clamp hub. Drive keyway available on request
- Other features: High concentricity and clamping forces

### Elastomer star

- Features: Permanently free of play, dampens vibration
- Shore hardness: 64D
- Colour: ZIMM-green
- Temperature range: 0°C to +70°C reduced to -20°C, to +100°C (Mx0,55)

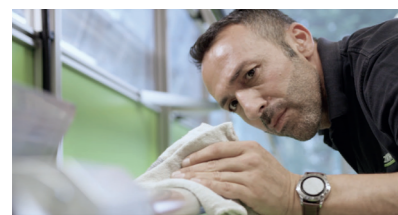
### Dimensions & technical data

Code	Dimensions						Clamping screw		Moment of inertia		Torsional stiffness		Weight		
	DA	DS	DR	BK*	s	A	LA min	M	Tightening torque	per coupling	tube/m	per star	per tube/m	both couplings	tube/m
	mm	mm	mm	mm	mm	mm	mm	10,9	Nm	10 <sup>-3</sup> kgm <sup>2</sup>	10 <sup>-3</sup> kgm <sup>2</sup>	Nm/rad	Nm/rad	kg	kg
VWZ-30	32	32	30	15	1,5	34	99	M4	4	0,01	0,11	1375	1104	0,14	0,58
VWZ-40	42	44,5	40	17	1,5	46	133	M5	8	0,08	0,2	3700	2332	0,36	0,76
VWZ-60	56	57	60	30	2	63	177	M6	15	0,24	0,8	9917	8292	0,94	0,97
VWZ-60V	67	68	60	35	2	73	205	M8	35	0,46	0,8	24417	8292	1,42	0,97
VWZ-80	82	85	80	40	2	84	249	M10	70	2,4	3	33667	29102	2,98	2
VWZ-100	102	105	100	50	2	97	283	M12	120	6	5,8	67667	58178	4,62	2,47

\*BK = shaft extension clamping length

### Drehmomente

Size	Elastomer star		Maxium transmittable torque by clamp hub depending on the bore diameter																	Coupling type		
	Rated torque Nm	Max. torque Nm	Ø9	Ø11	Ø14	Ø16	Ø19	Ø20	Ø22	Ø24	Ø25	Ø28	Ø30	Ø32	Ø38	Ø40	Ø42	Ø45	Ø48		Ø55	
VWZ-30	16	32	21	26	33	37															KUZ-KK-16	
VWZ-40	21	42	-	41	52	60	70	74	81	89	-	-	-	-	-	-	-	-	-	-	-	KUZ-KK-24
VWZ-60	75	150	-	60	76	87	104	109	120	131	136	153	164	175	-	-	-	-	-	-	-	KUZ-KK-32
VWZ-60V	200	400	-	-	-	120	-	188	206	-	235	-	-	301	-	-	-	-	-	-	-	KUZ-KK-35
VWZ-80	405	810	-	-	-	325	386	406	447	488	508	568	610	650	772	-	854	915	-	-	-	KUZ-KK-45
VWZ-100	660	1350	-	-	-	-	-	-	-	-	570	638	-	730	866	914	960	1029	1097	1250	-	KUZ-KK-60

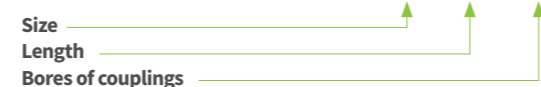


### Concentricity test

ZIMM VWZ shafts of 1000 mm length and more are checked for concentricity as standard!

### Ordering example:

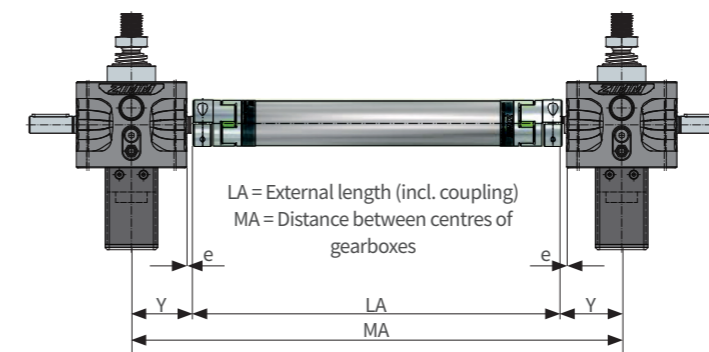
**VWZ-60-LA 1800-20/25**



n=1500 min<sup>-1</sup> (specify the speed)

# ZE Accessories

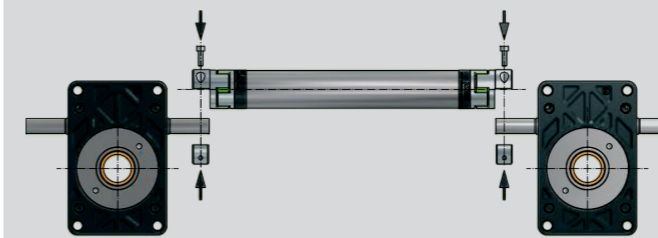
VWZ length calculation



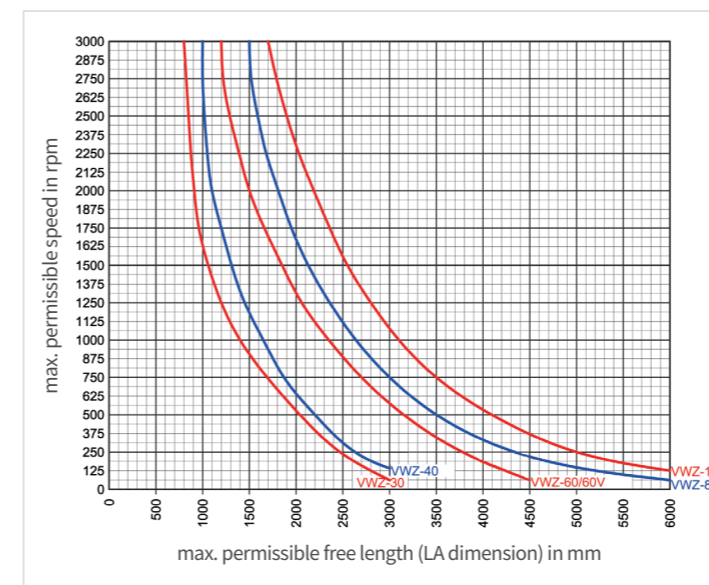
### Installation of the connecting shaft

By using split shell couplings, the connecting shafts can be mounted after the drive shafts have been installed. Simply place the connecting shaft on the spigot and fix the couplings with torque wrench according to the table (feather key not required).

Set the screw tightening torque according to the table.



### Maximum length - dependent on speed

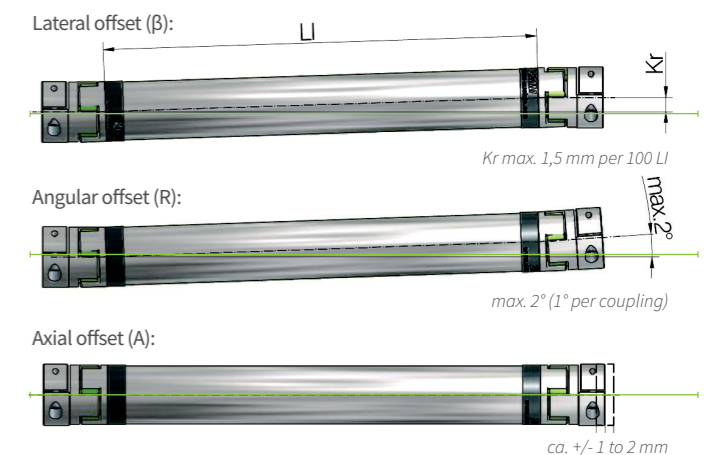


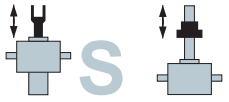
### Length calculation

Screw jack	Connecting shaft	e	Y	A
GSZ-2	VWZ-30	6	31	34
ZE-5	VWZ-30	9	45	34
ZE-5	VWZ-40	7	43	46
ZE-5	VWZ-60 <sup>3)</sup>	2	38	63
ZE-10	VWZ-30	12,5	55	34
ZE-10	VWZ-40	10,5	53	46
ZE-10	VWZ-60	2,5	45	63
ZE-25	VWZ-40	28	80,5	46
ZE-25	VWZ-60	15	67,5	63
ZE-25	VWZ-80 <sup>2),3)</sup>	5	57,5	84
ZE-35	VWZ-40	28	84	46
ZE-35	VWZ-60	15	71	63
ZE-35	VWZ-60V <sup>1)</sup>	10	66	73
ZE-35	VWZ-80 <sup>1)</sup>	5	61	84
ZE-50	VWZ-60	17,5	90	63
ZE-50	VWZ-60V	12,5	85	73
ZE-50	VWZ-80 <sup>1)</sup>	7,5	80	84
ZE-100	VWZ-60	30	124	63
ZE-100	VWZ-60V	25	119	73
ZE-100	VWZ-80	20	114	84
ZE-150	VWZ-60	30	130	63
ZE-150	VWZ-60V	25	125	73
ZE-150	VWZ-80	20	120	84
ZE-200	VWZ-60	34	146,5	63
ZE-200	VWZ-60V	29	141,5	73
ZE-200	VWZ-80	24	136,5	84
ZE-200	VWZ-100	14	126,5	97
ZE-250	VWZ-80	24	144	84
ZE-250	VWZ-100	14	134	97
ZE-350	VWZ-80	35	175	84
ZE-350	VWZ-100	25	165	97
Z-500	VWZ-80	75	240	84
Z-500	VWZ-100	65	230	97

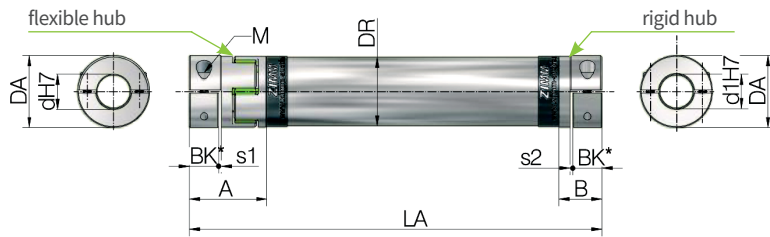
1) can not be fitted with pivot mounts LB 2) Outer diameter DS > Gearbox height 3) When used on bevel gearboxes, an SO coupling with shaft adapter is required

### max. permissible offset





## Connecting shaft for pedestal bearing use | with flexible / rigid hub

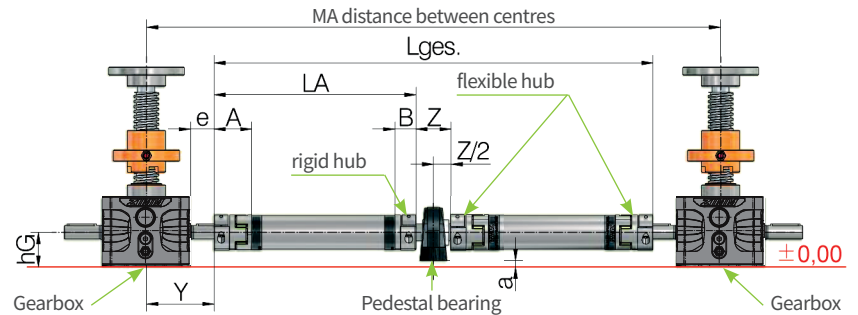


### For pedestal bearing

The installation situation is very important when selecting shaft dimensions. For example, the cost of a larger diameter connecting shaft not requiring additional pedestal bearing support can be considerably less than the cost of a smaller connecting shaft requiring costly sub-structures for the additional pedestal bearing. For this version we use the rigid hub version so that no radial misalignment can occur in the pedestal bearing.

Size	A	B	s1	s2	Bk*	d1	LA min
VWZ-30	34	20	2	1,2	15	15	85
VWZ-40	46	25	2	1,6	17	20	112
VWZ-60	63	40	2	2	30	20	154
VWZ-60V	73	42	2	2	35	30	175
VWZ-80	84	55	2	2	40	30	220
VWZ-100	97	65	2	2	50	50	251

\*BK = shaft extension clamping length



Gearbox	Connecting shaft	e	Y	A	B	Z	Lwz	d1	hG	hL	a
ZE-5	VWZ-30	9	45	34	20	44	74	15	31	30,2	0,8
ZE-5	VWZ-40	7	43	46	25	42	76	20	31	33,3	-2,3
ZE-5	VWZ-60	2	38	63	40	42	102	20	31	33,3	-2,3
ZE-10	VWZ-30	12,5	55	34	20	44	74	15	37	30,2	6,8
ZE-10	VWZ-40	10,5	53	46	25	42	76	20	37	33,2	3,8
ZE-10	VWZ-60	2,5	45	63	40	42	102	20	37	33,2	3,8
ZE-25	VWZ-40	28	80,5	46	25	42	76	20	41	33,2	7,8
ZE-25	VWZ-60	15	67,5	63	40	42	102	20	41	33,2	7,8
ZE-25	VWZ-80	5	57,5	84	55	50	130	30	41	42,9	-1,9
ZE-35	VWZ-40	28	84	46	25	42	76	20	50	33,2	16,8
ZE-35	VWZ-60	15	71	63	40	42	102	20	50	33,2	16,8
ZE-35	VWZ-60V*	10	66	73	42	60	130	30	50	42,9	7,1
ZE-35	VWZ-80*	5	61	84	55	50	130	30	50	42,9	7,1
ZE-50	VWZ-60	17,5	90	63	40	42	102	20	58	33,3	24,7
ZE-50	VWZ-60V	12,5	85	73	42	60	130	30	58	42,9	15,1
ZE-50	VWZ-80*	7,5	80	84	55	50	130	30	58	42,9	15,1
ZE-100	VWZ-60	30	124	63	40	42	102	20	80	33,2	46,8
ZE-100	VWZ-60V	25	119	73	42	60	130	30	80	42,9	37,1
ZE-100	VWZ-80	20	114	84	55	50	130	30	80	42,9	37,1
ZE-150	VWZ-60	30	130	63	40	42	102	20	92,5	33,2	59,3
ZE-150	VWZ-60V	25	125	73	42	60	130	30	92,5	42,9	49,6
ZE-150	VWZ-80	20	120	84	55	50	130	30	92,5	42,9	49,6
ZE-200	VWZ-60	34	146,5	63	40	42	102	20	88	54	34
ZE-200	VWZ-60V	29	141,5	73	42	60	130	30	88	42,9	45,1
ZE-200	VWZ-80	24	136,5	84	55	50	130	30	88	42,9	45,1
ZE-200	VWZ-100	14	126,5	97	65	70	170	50	88	57,2	30,8
ZE-250	VWZ-80	24	144	84	55	50	130	30	105	42,9	62,1
ZE-250	VWZ-100	14	134	97	65	70	170	50	102	57,2	44,8
ZE-350	VWZ-80	35	175	84	55	50	130	30	115	42,9	72,1
ZE-350	VWZ-100	25	165	97	65	70	170	50	115	57,3	57,8
Z-500	VWZ-80	75	240	84	55	50	130	30	130	42,9	87,1
Z-500	VWZ-100	65	230	97	65	70	170	50	130	57,2	72,8

\*cannot be fitted with pivot mounts LB

### Ordering example:

**VWZ-60-LA1800-25/20S**

Length

Bore 1st side / 2nd side (S = rigid hub)

n=1500 rpm (specify the speed)

