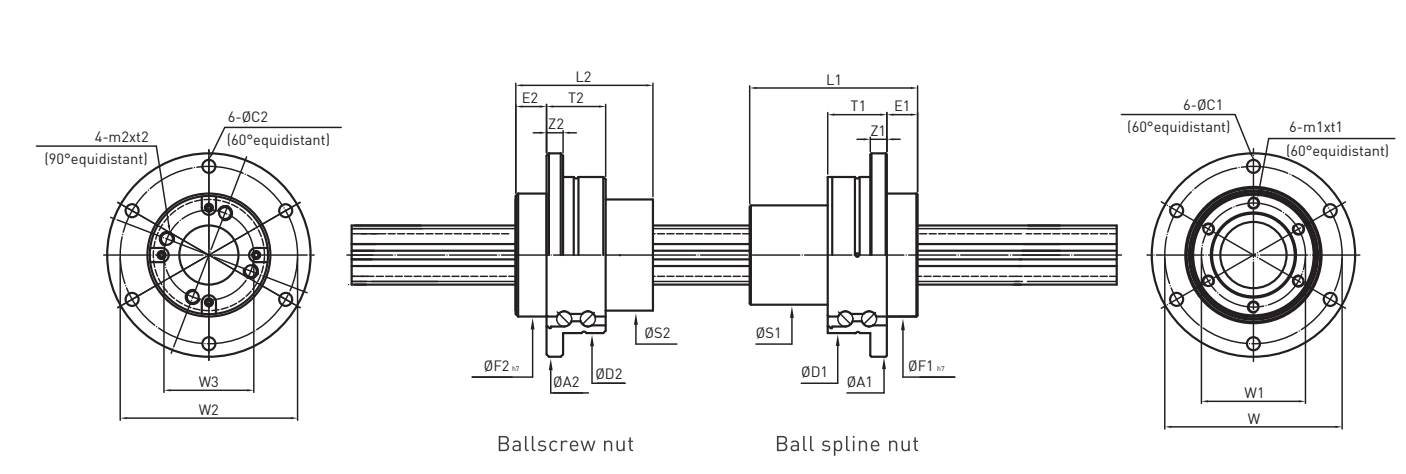


Nominal diameter	Ballscrew nut		Ball spline nut	
	Verticality [1]	Runout [2]	Verticality [3]	Runout [4]
16	16	20	18	21
20	16	20	18	21
25	18	24	21	21
32	18	24	21	21

Size Table /

FBR Type

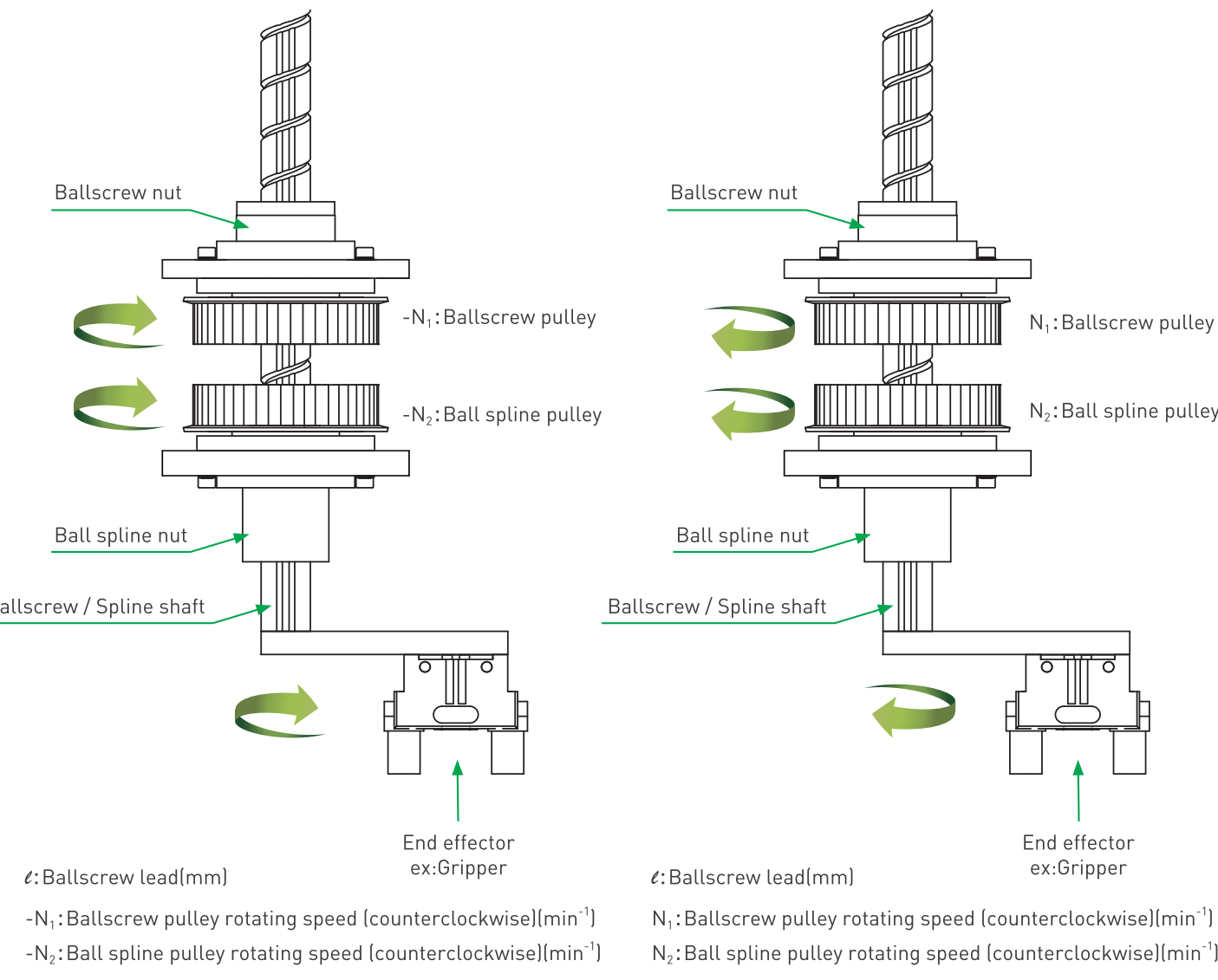


Unit: mm

Model no	Specification			Ballscrew nut													Support bearing basic rated load		
	Nominal outer diameter	Nominal inner diameter	Lead	Basic rated load		Diameter D2 g6	Flange diameter A2	Total length L2	F2	S2	T2	E2	Z2	W2	W3	m2x2	C2	Ca(kN)	Coa(kN)
				C(kN)	Co(kN)														
16	16	11	16	4.7	9.6	48	64	40	36	32	21	10	6	56	25	M4x8	4.5	9.3	11.5
20	20	14	20	6.4	14	56	72	46	43.5	40	21	11	6	64	31	M5x8	4.5	9.8	13.3
25	25	18	25	9.5	21.9	66	86	58	52	47	25	13	7	75	38	M6x12	5.5	13.1	22
32	32	23	32	13	29.8	78	103	72	63	58	25	14	8	89	48	M6x10	6.6	13.7	25.2

Model no	Ball spline nut													Support bearing basic rated load					
	Basic rated load	Basic rated torque	Permissible static moment	Diameter D1	Flange diameter A1	Total length L1	F1	S1	T1	E1	Z1	W1	m1x1	C1	Ca(kN)	Coa(kN)			
																	C(kN)	Co(kN)	C _r (N-m)
16	7.2	13.5	32.1	34.4	67.6	48	64	50	36	31	21	10	6	56	30	M4x6	4.5	9.3	11.5
20	10.4	20.0	57.8	63.2	118	56	72	63	43.5	35	21	12	6	64	36	M5x8	4.5	9.8	13.3
25	15.4	27.5	106.5	108.8	210	66	86	71	52	42	25	13	7	75	44	M5x8	5.5	13.1	22
32	20.5	34.4	181.5	173.1	290	78	103	80	63	52	25	17	8	89	54	M6x10	6.6	13.7	25.2

FBR Type Ball Spline Working Mode /



Work mode	Motion direction	Input		Shaft motion	
		Ballscrew pulley	Ball spline pulley	Vertical (speed)	Rotating direction (speed)
	Vertical → Downward	N ₁ (Forward)	0	V = N ₁ × ε (N ₁ ≠ 0)	0
	Rotating direction → 0				
	Vertical → Upward	-N ₁ (Reverse)	0	V = -N ₁ × ε (N ₁ ≠ 0)	0
	Rotating direction → 0				
	Vertical → 0	N ₁	N ₂ (Forward)	0	N ₂ (N ₁ ≠ N ₂ ≠ 0)
	Rotating direction → Forward				
	Vertical → 0	-N ₁	-N ₂ (Reverse)	0	-N ₂ (-N ₁ ≠ -N ₂ ≠ 0)
	Rotating direction → Reverse				
	Vertical → Upward	0	N ₂ (N ₂ ≠ 0)	V = N ₂ × ε	N ₂ (Forward)
	Rotating direction → Forward				
	Vertical → Downward	0	-N ₂ (-N ₂ ≠ 0)	V = -N ₂ × ε	-N ₂ (Reverse)
	Rotating direction → Reverse				

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