

XDSD Worm/Worm Double Reduction Model

SHIPPING WEIGHTS (lb.) ♦							
MODEL	E17	E20	E24	E26	E30	E35	E43
DSND	31	36	57	67	80	115	175
MDSND	34	38	60	69	84	117	179
CDSND	37	41	64	72	88	120	185

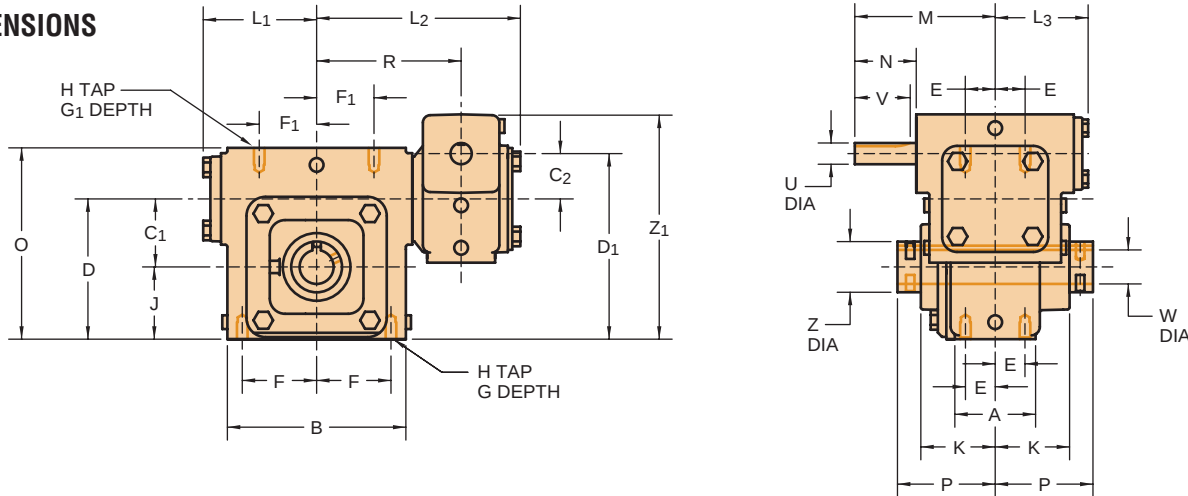
All motorized weights are for 48C to 140TC adaptor sizes. Add 10% for 180TC/210TC adaptor sizes.

♦Weights are approximate and include shipping carton.

XDSD
Universal
Solid Input Shaft
Hollow Output Shaft
Housing Mount



DIMENSIONS



SPEED REDUCER DIMENSIONS (in.)

Size	A	B	C ₁	C ₂	D	D ₁	E	F	F ₁	G DEPTH	G ₁ DEPTH	H TAP	J	K	L ₁	L ₂	L ₃	M	O	P	R	Z	Z ₁	INPUT SHAFT			
																								U*	N	V	KEYWAY
E17	2.38	4.63	1.750	1.333	3.88	5.21	.88	1.94	1.69	.56	.56	3/8-16	2.13	2.44	3.44	6.09	2.83	4.13	5.38	3.13	4.25	1.49	6.36	.625	1.81	1.63	3/16x3/32
E20	2.38	5.25	2.000	1.333	4.13	5.46	.88	2.19	1.69	.56	.56	3/8-16	2.13	2.63	3.44	6.09	2.83	4.13	5.63	3.31	4.25	2.00	6.61	.625	1.81	1.63	3/16x3/32
E24	3.13	5.38	2.375	1.750	5.25	7.00	1.13	2.19	2.19	.63	.57	1/2-13	2.88	2.75	4.50	7.65	3.44	4.75	7.25	3.44	5.75	2.25	8.35	.750	1.94	1.69	3/16x3/32
E26	3.13	5.88	2.625	1.750	5.75	7.50	1.13	2.44	2.44	.63	.69	1/2-13	3.13	2.81	4.50	7.65	3.44	4.75	7.88	3.50	5.75	2.50	8.85	.750	1.94	1.69	3/16x3/32
E30	3.50	6.62	3.000	2.000	6.50	8.50	1.31	2.75	2.75	.75	.75	1/2-13	3.50	3.00	4.63	8.15	3.44	5.00	9.00	3.69	6.25	2.63	9.85	.750	2.19	1.75	3/16x3/32
E35	3.75	7.69	3.500	2.000	7.50	9.50	1.31	3.25	3.25	1.00	1.00	5/8-11	4.00	3.38	5.06	8.40	3.44	5.00	10.13	4.13	6.50	2.87	10.85	.750	2.19	1.75	3/16x3/32
E43	4.38	8.75	4.250	2.625	8.63	11.25	1.63	3.75	3.75	1.00	1.00	5/8-11	4.38	3.63	5.88	10.02	4.50	6.50	11.50	4.38	7.56	3.88	13.40	1.000	2.75	2.63	1/4x1/8

* Shaft diameter tolerances +.000 -.001 Dimensions shown are for construction purposes only. Please contact Winsmith for certified dimension sheets.

HOLLOW OUTPUT SHAFT BORES

(S) Standard Bore (M) Machined to Size Bore (B) Bushing*
*Bushing for use with standard bore only

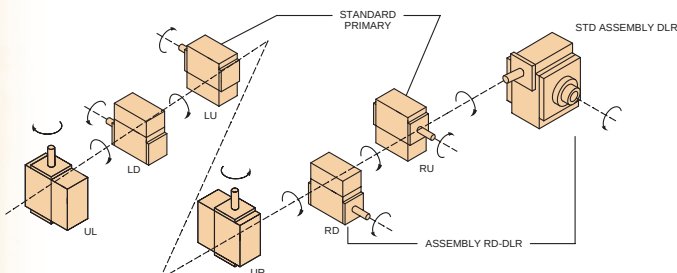
W**	KEYWAY	E17	E20	E24	E26	E30	E35	E43
.625 5/8	3/16x3/32	M/B						
.750 3/4	3/16x3/32	M/B	B					
.875 7/8	3/16x3/32	S	B					
1.000 1	1/4x1/8	S	M/B	M/B	B			
1.125 1-1/8	1/4x1/8		B	M/B	B			
1.188 1-3/16	1/4x1/8		M/B	B	B			
1.250 1-1/4	1/4x1/8		M/B	M/B	M/B	M/B	M/B	
1.375 1-3/8	5/16x5/32			B	B	B		
*1.438 1-7/16	3/8x3/16		S	M/B	B	B	M/B	
1.500 1-1/2	3/8x3/16			S	M/B	M/B	M/B	B
1.625 1-5/8	3/8x3/16							S
1.688 1-11/16	3/8x3/16				S	M/B	S	S
1.750 1-3/4	3/8x3/16					B	B	B
1.875 1-7/8	1/2x1/4						S	B
*1.938 1-15/16	1/2x1/4					S	M/B	M/B
2.000 2	1/2x1/4						M/B	S
*2.188 2-3/16	1/2x1/4						S	M/B
2.250 2-1/4	1/2x1/4							B
2.438 2-7/16	5/8x5/16							M/B
2.500 2-1/2	5/8x5/16							B
2.750 2-3/4	5/8x5/16							S

** Bore tolerances +.000 +.002 Two puller slots opposed on all hollow output shafts

* Bore size 1.438 on size E20: keyway is 3/8x1/8. *Bore size 1.938 on size E30: keyway is 1/2x3/16

* Bore size 2.188 on size E35: keyway is 1/2x1/8. Contact Winsmith for other bore sizes

AVAILABLE SHAFT ARRANGEMENTS AND RELATIVE SHAFT ROTATIONS



The input shaft may be driven in either direction.



MDSD - CDSD Worm/Worm Double Reduction Models

MDSD
Universal
Quill Input Adaptor
Hollow Output Shaft
Housing Mount

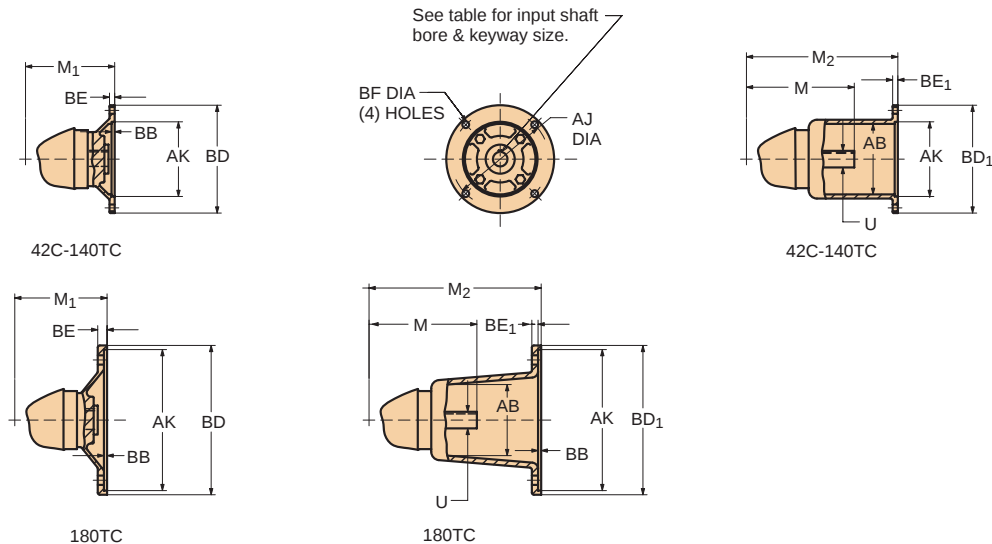


CDSD
Universal
Coupled Input Adaptor
Hollow Output Shaft
Housing Mount



Couplings available, see
page 106 for selection chart.

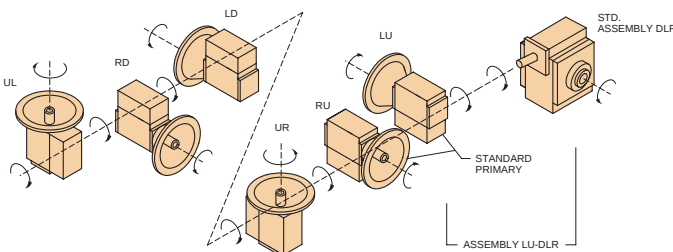
DIMENSIONS



Size	QUILL INPUT ADAPTOR			COUPLED INPUT ADAPTOR											
	M ₁ 42C-48C	M ₁ 56C-140TC	M ₁ 180TC	42C-48C			56C-140TC			180TC			M	U	KEYWAY
				AB	M ₂	BE ₁	AB	M ₂	BE ₁	AB	M ₂	BE ₁			
E17	3.56	3.63*	NA	2.50	6.81	.38	3.00	6.75	.31	NA			4.13	.625	1/8 x 1/16
E20	3.56	3.63*	NA	2.50	6.81	.38	3.00	6.75	.31	NA			4.13	.625	1/8 x 1/16
E24	4.06	4.06	NA	2.50	7.56	.38	3.75	7.50	.38	3.75	8.44	.50	4.75	.750	3/16 x 3/32
E26	4.06	4.06	NA	2.50	7.56	.38	3.75	7.50	.38	3.75	8.44	.50	4.75	.750	3/16 x 3/32
E30	4.06	4.06	NA	2.50	7.56	.38	3.75	7.50	.38	3.75	8.44	.50	5.00	.750	3/16 x 3/32
E35	4.06	4.06	NA	2.50	7.56	.38	3.75	7.50	.38	3.75	8.44	.50	5.00	.750	3/16 x 3/32
E43	NA	5.38	5.38	NA			4.13	9.13	.38	4.25	10.19	.50	6.50	1.000	1/4 x 1/8

[▲]56C adaptor only

AVAILABLE SHAFT ARRANGEMENTS AND RELATIVE SHAFT ROTATIONS



INPUT ADAPT. DIM.	42C 48C	56C	140TC	180TC
AJ	3.75	5.88	5.88	7.25
AK	3.00	4.50	4.50	8.50
BB	.19	.19	.19	.19
BD	4.50	6.50	6.50	9.00
BD ₁	4.50	6.63	6.63	9.00
BE	.34	.31	.31	.38
BF	.281	.406	.406	.531
KEYWAY	1/8 x 1/16	3/16 x 3/32		1/4 x 1/8
BORE $\begin{smallmatrix} +.001 \\ -.000 \end{smallmatrix}$	.5005 [■]	.6255	.8755	1.1255

[■]42C adaptor has .3755 bore, 3/32 x 3/64 keyway

The input shaft may be driven in either direction.



2D DRAWINGS & 3D MODELS
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