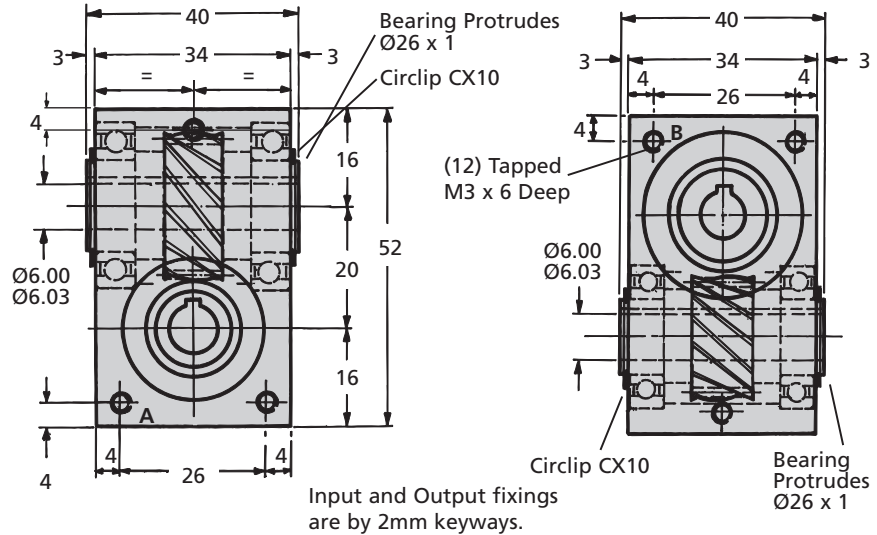
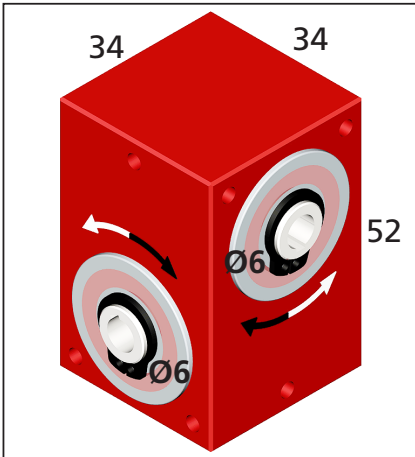


E20

CAD Drawings Available

# GEARBOXES

## Crossed Axis Reduction Gearbox Heavy Duty Helical & Wormwheel Type 1:1 - 40:1



PART NUMBER	Ratio	Type	Input Face	Efficiency at 1000 Rpm	Max. Input Speed	Max. Output Speed	Self Locking Output	
E20-1	1:1	Helical	A	88%	4000	4000	✗	
E20-2	2:1	Helical	A	86%	4000	2000	✗	
E20-3	3:1	Helical	A	85%	4000	1333	✗	
E20-4	4:1	Helical	A	84%	4000	1000	✗	
E20-5	5:1	Helical	A	80%	4000	800	✗	
E20-8	8:1	Wormwheel	A	80%	2000	250	✗	
E20-10	10:1	Wormwheel	A	73%	2000	200	✗	
E20-20	20:1	Wormwheel	A	67%	2000	100	✓	
E20-40	40:1	Wormwheel	A	60%	2000	50	✓	
E20-SP	1:1 - 40:1	Special Ratios : Replace SP with required ratio						

### Material

Case: Aluminium.

E20-1 - E20-5: Gears: Alloy Steel 655M13 (EN36) Hardened.

E20-8 - E20-40: Worm: Alloy Steel 655M13 (EN36) Hardened.

Wheel: Aluminium Bronze (CA104).

### Performance

Weight: 0.255kg. Backlash: ≈1°. Greased for life: Shell Alvania Grease HDX2.

Max Input Speed E20-1 - E20-5: 4000 Rpm (short term).

Max Input Speed E20-8 - E20-40: 2000 Rpm (short term).

### Extras

Output Shafts: E20-X, E20-DX. Output Key: KK2-22.

R/H Helicals are Standard. L/H available.

Special bores are available - including different sizes, metric & imperial.

Low Backlash version available - same as standard but featuring 30 Arc minimum backlash on output (6-8 weeks delivery) - E20-xA (where x = ratio).

Testing in your applications is necessary. You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only.

### Nm output torque:

Ratio	1:1	2:1	3:1	4:1	5:1	8:1	10:1	20:1	40:1
Rpm Input:									
3000	0.60	0.60	0.60	0.60	0.60	-	-	-	-
2000	0.70	0.70	0.70	0.70	0.70	1.05	1.20	1.36	1.52
1000	1.00	1.00	1.00	1.00	1.00	1.31	1.47	1.63	1.80
500	1.40	1.40	1.40	1.40	1.40	1.93	2.08	2.22	2.37
100	1.80	1.80	1.80	1.80	1.80	2.60	2.70	2.83	2.95
50	1.90	1.90	1.90	1.90	1.90	2.95	3.13	3.31	3.40
10	2.00	2.00	2.00	2.00	2.00	3.62	3.70	3.80	3.84

