

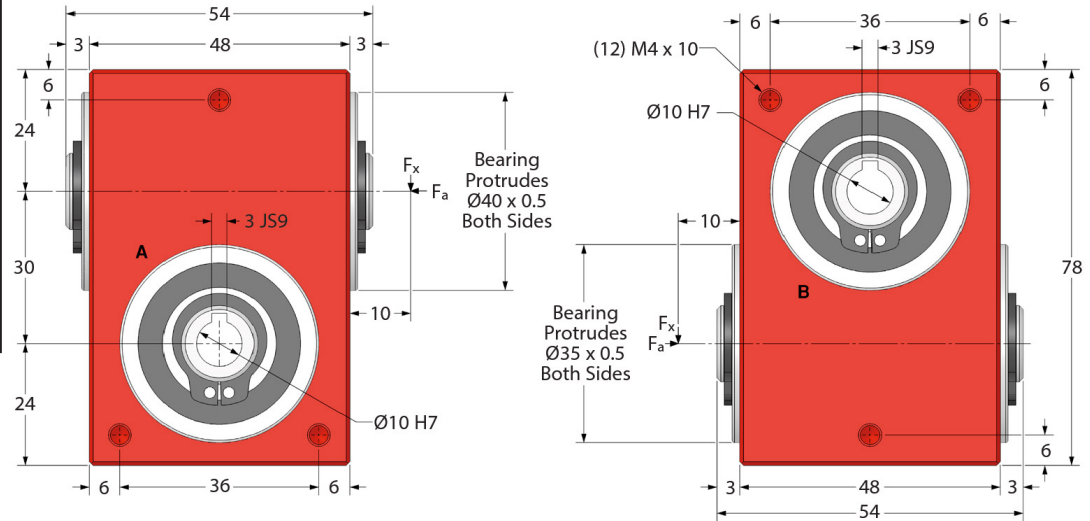
E30

GEARBOXES

E30

Right Angle Helical Reducers

Heavy Duty 10mm Bores 1.5 – 9 Nm **1:1 - 40:1**



Part Number	Ratio	Type	Input Face	Efficiency at 1000 Rpm	Max Input Speed	Reflected Inertia at Input (kg.m ²)	Self Locking Output
E30-1	1:1	Helical	B	90%	4,000	2.867 x 10 ⁻⁵	✗
E30-2	2:1	Helical	A	88%	4,000	1.362 x 10 ⁻⁵	✗
E30-3	3:1	Helical	A	87%	4,000	1.071 x 10 ⁻⁵	✗
E30-4	4:1	Helical	A	86%	4,000	1.032 x 10 ⁻⁵	✗
E30-5	5:1	Helical	A	80%	4,000	9.372 x 10 ⁻⁶	✗
E30-8	8:1	Wormwheel	A	80%	1,500	1.115 x 10 ⁻⁵	✗
E30-10	10:1	Wormwheel	A	73%	1,500	1.106 x 10 ⁻⁵	✗
E30-20	20:1	Wormwheel	A	67%	1,500	1.094 x 10 ⁻⁵	✓
E30-40	40:1	Wormwheel	A	60%	1,500	1.091 x 10 ⁻⁵	✓
E30-SP	1:1 - 40:1	Special Ratios : Replace SP with required ratio					
E30-SPA	1:1 - 40:1	Low Backlash ≤30' : Replace SP with required ratio					
E30-SPLH	1:1 - 40:1	Left Hand Helicals : Replace SP with required ratio					

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

Output Torque Nm

RPM Input	Reduction Ratio								
	1:1	2:1	3:1	4:1	5:1	8:1	10:1	20:1	40:1
3000	1.5	1.5	1.5	1.5	1.5	-	-	-	-
2000	2.0	2.0	2.0	2.0	2.0	-	-	-	-
1000	2.5	2.5	2.5	2.5	2.5	3.6	4.2	4.7	5.0
500	3.0	3.0	3.0	3.0	3.0	4.9	5.3	5.6	6.0
100	4.0	4.0	4.0	4.0	4.0	6.5	7.0	7.1	7.3
50	4.5	4.5	4.5	4.5	4.5	7.9	8.4	8.5	8.6
10	5.0	5.0	5.0	5.0	5.0	8.5	8.7	8.9	9.0

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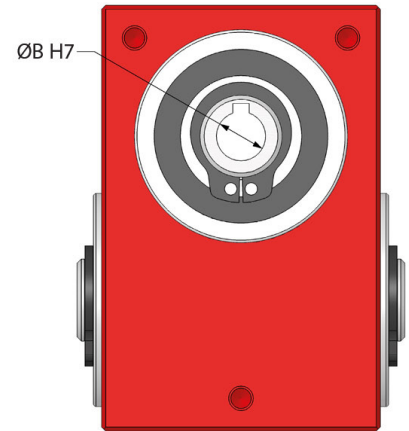
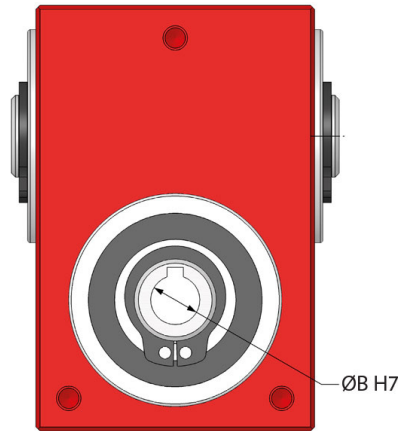
E30

GEARBOXES

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Right Angle Helical Reducers

Heavy Duty 8 & 9mm Bores 1.5 – 9 Nm **1:1 - 40:1**



Part Number		Ratio	Type	Input Face	Efficiency at 1000 Rpm	Max Input Speed	Self Locking Output
ØB = 8mm	ØB = 9mm						
E30-1-8	E30-1-9	1:1	Helical	B	90%	4,000	✗
E30-2-8	E30-2-9	2:1	Helical	A	88%	4,000	✗
E30-3-8	E30-3-9	3:1	Helical	A	87%	4,000	✗
E30-4-8	E30-4-9	4:1	Helical	A	86%	4,000	✗
E30-5-8	E30-5-9	5:1	Helical	A	80%	4,000	✗
E30-8-8	E30-8-9	8:1	Wormwheel	A	80%	1,500	✗
E30-10-8	E30-10-9	10:1	Wormwheel	A	73%	1,500	✗
E30-20-8	E30-20-9	20:1	Wormwheel	A	67%	1,500	✓
E30-40-8	E30-40-9	40:1	Wormwheel	A	60%	1,500	✓
E30-SP-8	E30-SP-9	1:1 - 40:1	Special Ratios : Replace SP with required ratio				
E30-SPA-8	E30-SPA-9	1:1 - 40:1	Low Backlash ≤30' : Replace SP with required ratio				
E30-SPLH-8	E30-SPLH-9	1:1 - 40:1	Left Hand Helicals : Replace SP with required ratio				

Weight: 0.72 kg (Approx).

Standard Backlash: ≈1°. Low Backlash: ≤30'.

Greased for Life: Shell Gadus S2 V220AD 2.

LH – Left hand helix reverses output rotation.

Max. Overhung Loads at 1000 Rpm: Overhung Load (F_x) = 20 kg.

Max. Thrust Loads at 1000 Rpm: Thrust Load (F_a) = 15 kg.

Self Locking Output: Subject to ratio and only applies in static condition.

Amount of locking effect may vary due to manufacturing processes.

Modifications and specials are available. Please contact Technical Sales department.

ØB Bore Sizes

Standard part 10 mm H7 with 3 mm keyway

9 mm H7 with 3 mm keyway

8 mm H7 with 2 mm keyway

All bores supplied with keyway to DIN 6885 - Js9 tolerance.

Output Shafts (To Suit 10mm Bore)

E30-X (Single), E30-DX (Double).

Input/Output Key: KK3-20.

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