

**BLH20
BLHT20**

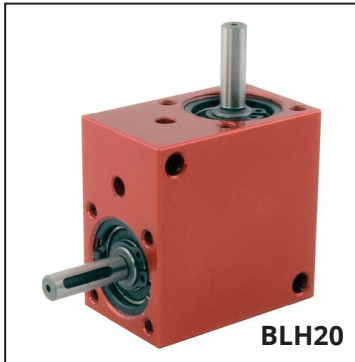
GEARBOXES

**BLH20
BLHT20**

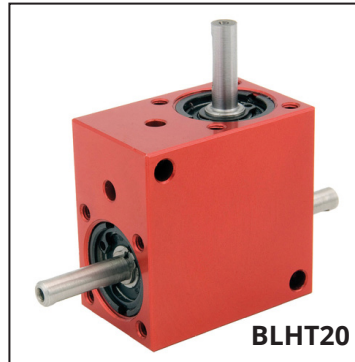
Spiral Bevel & Spiral Bevel Tee Heavy Duty Gearbox

Hardened Spiral Bevels 0.53 – 1.77 Nm **1:1 - 2:1**

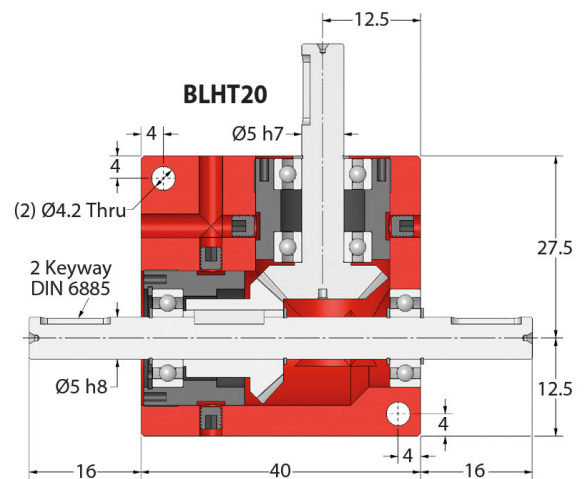
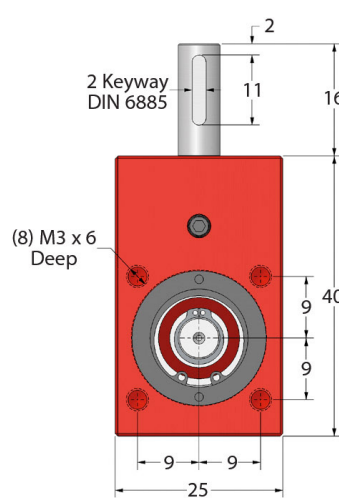
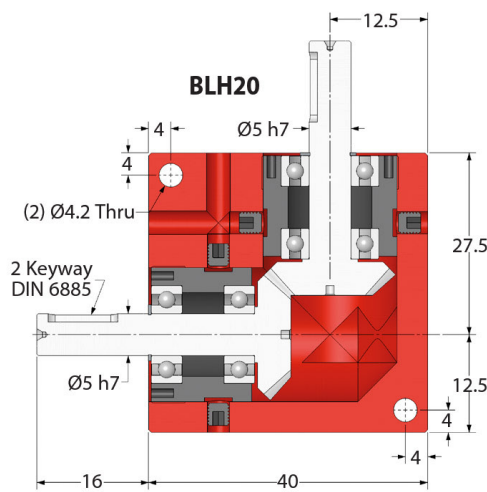
Metric Shaft Diameters



BLH20



BLHT20



Part Number			Ratio	Efficiency at 1000 RPM	Reflected Inertia at Input (kg.m ²)
Standard ≈1°	Low Standard ≤30'	Red. Standard ≤10'			
BLH20-1	BLH20-1A	BLH20-1AR	1:1	88%	4.34 x 10 ⁻⁷
BLH20-2	BLH20-2A	BLH20-2AR	2:1	88%	8.41 x 10 ⁻⁸
BLHT20-1	BLHT20-1A	BLHT20-1AR	1:1	88%	4.34 x 10 ⁻⁷
BLHT20-2	BLHT20-2A	BLHT20-2AR	2:1	88%	8.41 x 10 ⁻⁸

Weight: BLH: 0.11 kg, BLHT: 0.12 kg.

Output Backlash: ≈1°.

Max. Input Speed: 3,000 Rpm.

Greased for Life: Shell Gadus S2 V220AD 2.

Input/Output Key: KK2-10.

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
3000	0.66	0.53
2000	0.72	0.58
1750	0.76	0.61
1000	0.88	0.70
500	1.00	0.80
100	1.35	1.08
50	1.48	1.18
10	1.77	1.41

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**BLH30
BLHT30**

GEARBOXES

**BLH30
BLHT30**

Spiral Bevel & Spiral Bevel Tee Heavy Duty Gearbox

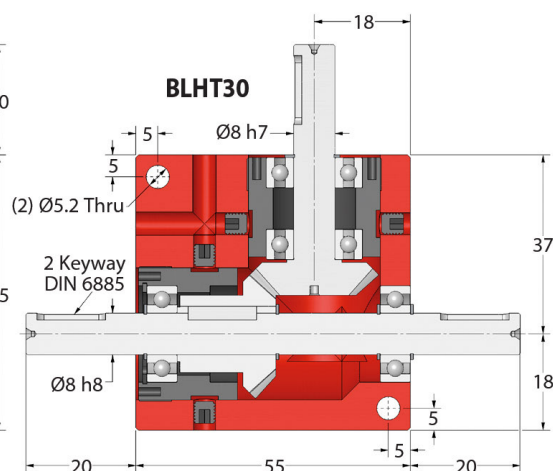
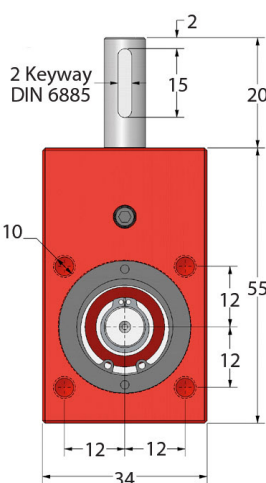
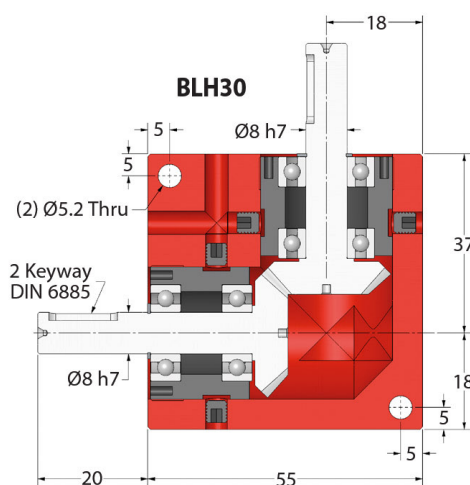
Hardened Spiral Bevels 1.32 – 4.4 Nm **1:1 - 2:1**
Metric Shaft Diameters



BLH30



BLHT30



Part Number			Ratio	Efficiency at 1000 RPM	Reflected Inertia at Input (kg.m ²)
Standard ≈1°	Low Standard ≤30'	Red. Standard ≤10'			
BLH30-1	BLH30-1A	BLH30-1AR	1:1	88%	2.19 x 10 ⁻⁶
BLH30-2	BLH30-2A	BLH30-2AR	2:1	88%	5.00 x 10 ⁻⁷
BLHT30-1	BLHT30-1A	BLHT30-1AR	1:1	88%	2.19 x 10 ⁻⁶
BLHT30-2	BLHT30-2A	BLHT30-2AR	2:1	88%	5.00 x 10 ⁻⁷

Weight: BLH: 0.28 kg, BLHT: 0.30 kg.

Output Backlash: ≈1°.

Max. Input Speed: 3,000 Rpm.

Greased for Life: Shell Gadus S2 V220AD 2.

Input/Output Key: KK2-14.

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
3000	1.65	1.32
2000	1.81	1.45
1750	1.91	1.53
1000	2.20	1.76
500	2.51	2.00
100	3.38	2.70
50	3.70	3.00
10	4.40	3.54

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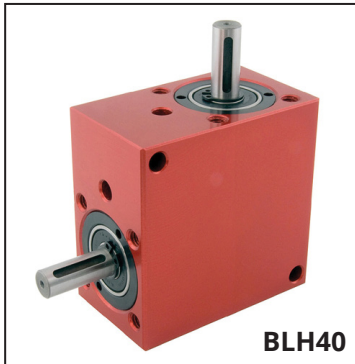
**BLH40
BLHT40**

GEARBOXES

**BLH40
BLHT40**

Spiral Bevel & Spiral Bevel Tee Heavy Duty Gearbox

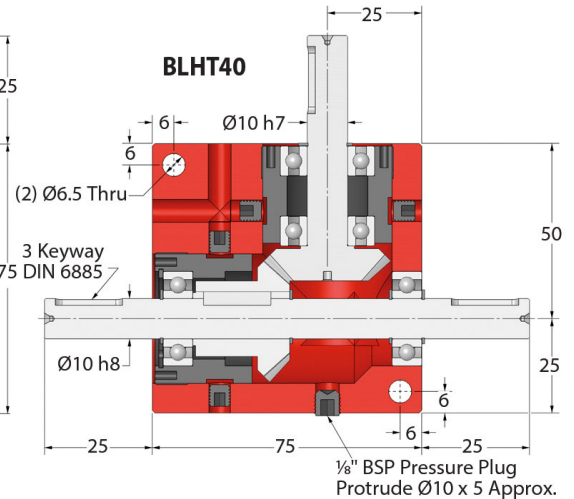
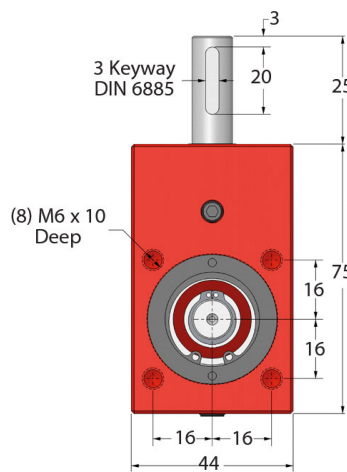
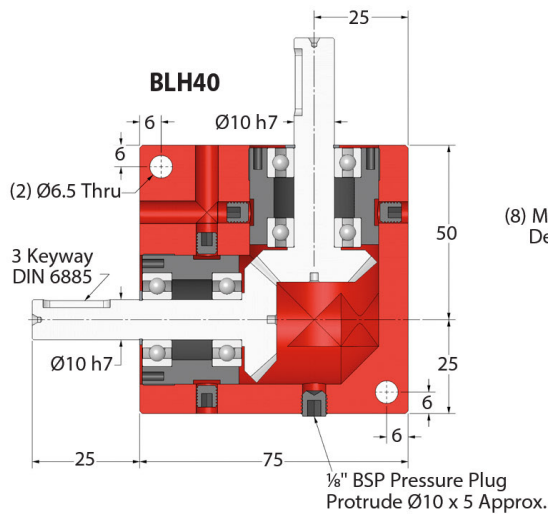
Hardened Spiral Bevels 3 – 10.3 Nm **1:1 - 2:1**
Metric Shaft Diameters



BLH40



BLHT40



Part Number			Ratio	Efficiency at 1000 RPM	Reflected Inertia at Input (kg.m ²)
Standard ≈1°	Low Standard ≤30'	Red. Standard ≤10'			
BLH40-1	BLH40-1A	BLH40-1AR	1:1	88%	6.42 x 10 ⁻⁶
BLH40-2	BLH40-2A	BLH40-2AR	2:1	88%	1.40 x 10 ⁻⁶
BLHT40-1	BLHT40-1A	BLHT40-1AR	1:1	88%	6.42 x 10 ⁻⁶
BLHT40-2	BLHT40-2A	BLHT40-2AR	2:1	88%	1.40 x 10 ⁻⁶

Weight: BLH: 0.9 kg, BLHT: 1.0 kg.
Output Backlash: ≈1°.
Max. Input Speed: 3,000 Rpm.
Greased for Life: Shell Gadus S2 V220AD 2.
Input/Output Key: KK3-20.

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
3000	4.0	3.0
2000	4.4	3.4
1750	4.6	3.6
1000	5.1	4.0
500	5.8	4.6
100	7.6	6.0
50	8.5	6.3
10	10.3	8.0

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**BLH50
BLHT50**

GEARBOXES

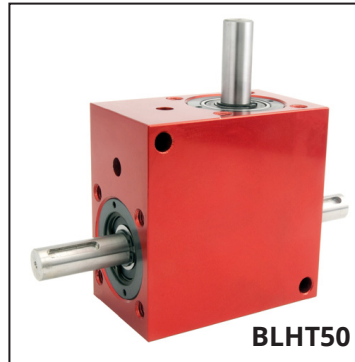
**BLH50
BLHT50**

Spiral Bevel & Spiral Bevel Tee Heavy Duty Gearbox

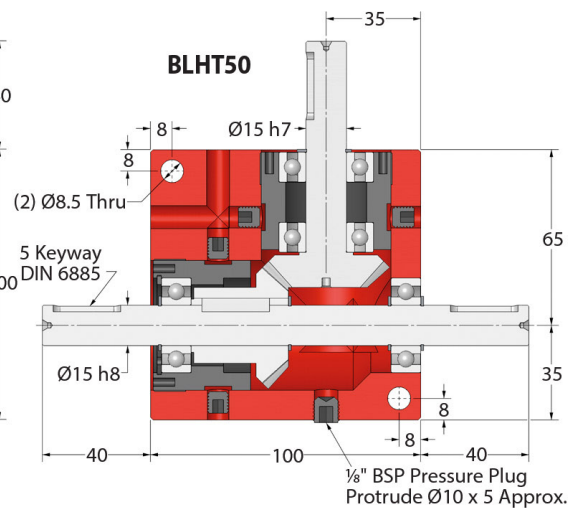
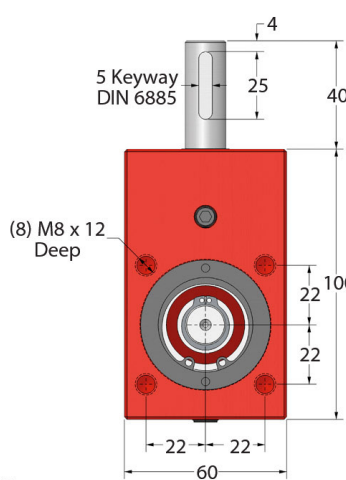
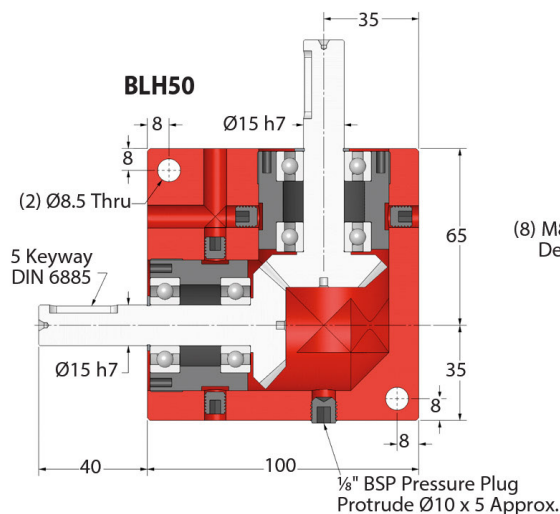
Hardened Spiral Bevels 7.7 – 30 Nm **1:1 - 2:1**
Metric Shaft Diameters



BLH50



BLHT50



Part Number			Ratio	Efficiency at 1000 RPM	Reflected Inertia at Input (kg.m ²)
Standard ≈1°	Low Standard ≤30'	Red. Standard ≤10'			
BLH50-1	BLH50-1A	BLH50-1AR	1:1	88%	4.76 x 10 ⁻⁵
BLH50-2	BLH50-2A	BLH50-2AR	2:1	88%	1.25 x 10 ⁻⁵
BLHT50-1	BLHT50-1A	BLHT50-1AR	1:1	88%	4.76 x 10 ⁻⁵
BLHT50-2	BLHT50-2A	BLHT50-2AR	2:1	88%	1.25 x 10 ⁻⁵

Weight: BLH: 2.20 kg, BLHT: 2.31 kg.

Output Backlash: ≈1°.

Max. Input Speed: 3000 Rpm.

Greased for Life: Shell Gadus S2 V220AD 2.

Input/Output Key: KK5-25.

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
3000	11.5	7.7
2000	13.2	8.7
1750	13.9	9.1
1000	15.9	10.2
500	17.5	11.6
100	23.0	15.0
50	25.0	17.0
10	30.0	20.0

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**BLH60
BLHT60**

GEARBOXES

**BLH60
BLHT60**

Spiral Bevel & Spiral Bevel Tee Heavy Duty Gearbox

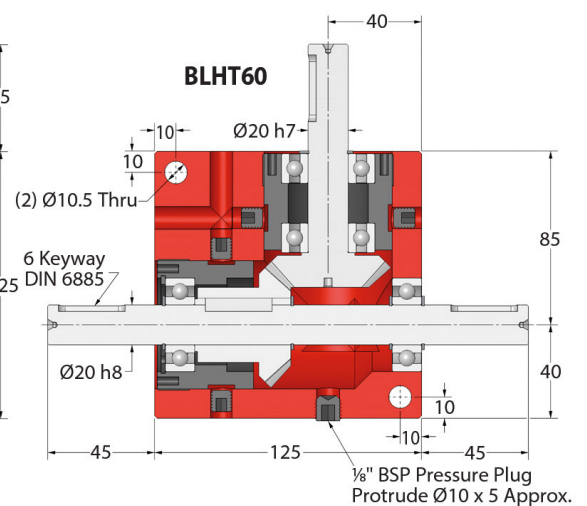
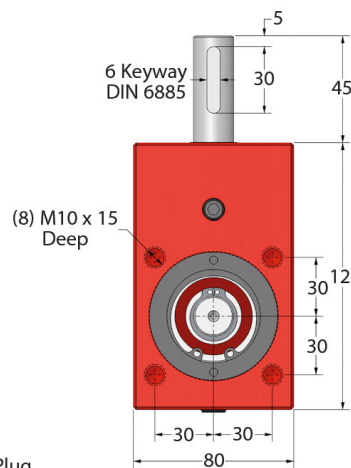
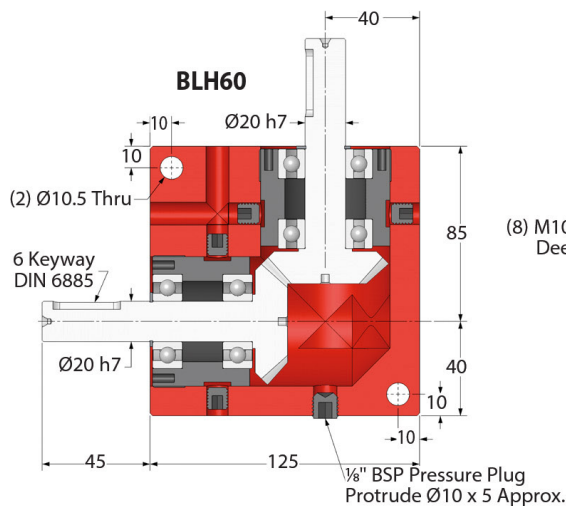
Hardened Spiral Bevels 19 – 70 Nm **1:1 - 2:1**
Metric Shaft Diameters



BLH60



BLHT60



Part Number			Ratio	Efficiency at 1000 RPM	Reflected Inertia at Input (kg.m ²)
Standard ≈1°	Low Standard ≤30'	Red. Standard ≤10'			
BLH60-1	BLH60-1A	BLH60-1AR	1:1	88%	1.99 x 10 ⁻⁴
BLH60-2	BLH60-2A	BLH60-2AR	2:1	88%	3.87 x 10 ⁻⁵
BLHT60-1	BLHT60-1A	BLHT60-1AR	1:1	88%	1.99 x 10 ⁻⁴
BLHT60-2	BLHT60-2A	BLHT60-2AR	2:1	88%	3.87 x 10 ⁻⁵

Weight: BLH: 4.50 kg, BLHT: 4.75 kg.

Output Backlash: ≈1°.

Max. Input Speed: 3,000 Rpm.

Greased for Life: Shell Gadus S2 V220AD 2.

Input/Output Key: KK6-30.

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
3000	26.0	19.0
2000	30.0	22.0
1750	31.3	22.8
1000	35.0	25.0
500	40.0	29.0
100	53.0	38.0
50	57.0	43.0
10	70.0	52.0

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**BLH70
BLHT70**

GEARBOXES

**BLH70
BLHT70**

Spiral Bevel & Spiral Bevel Tee Heavy Duty Gearbox

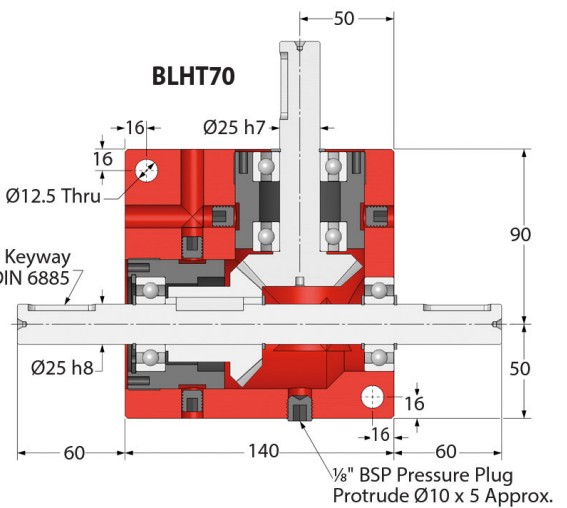
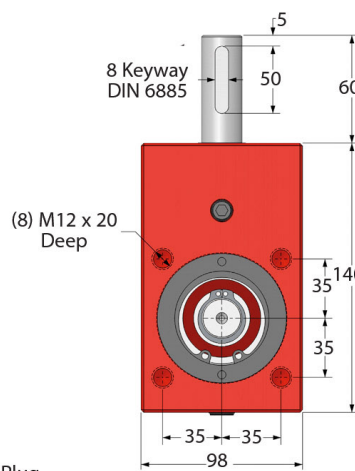
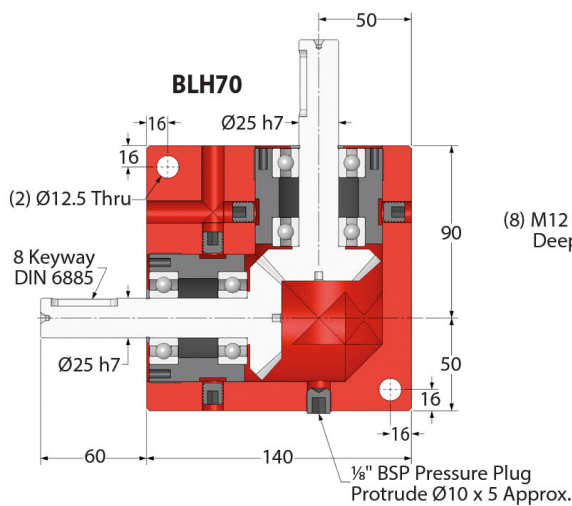
Hardened Spiral Bevels 26 – 128 Nm **1:1 - 2:1**
Metric Shaft Diameters



BLH70



BLHT70



Part Number			Ratio	Efficiency at 1000 RPM	Reflected Inertia at Input (kg.m ²)
Standard ≈1°	Low Standard ≤30'	Red. Standard ≤10'			
BLH70-1	BLH70-1A	BLH70-1AR	1:1	88%	4.15 x 10 ⁻⁴
BLH70-2	BLH70-2A	BLH70-2AR	2:1	88%	1.12 x 10 ⁻⁴
BLHT70-1	BLHT70-1A	BLHT70-1AR	1:1	88%	4.15 x 10 ⁻⁴
BLHT70-2	BLHT70-2A	BLHT70-2AR	2:1	88%	1.12 x 10 ⁻⁴

Weight: BLH: 7.05 kg, BLHT: 7.20 kg.

Output Backlash: ≈1°.

Max. Input Speed: 3,000 Rpm.

Greased for Life: Shell Gadus S2 V220AD 2.

Input/Output Key: KK8-7-50.

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
3000	43.0	26.0
2000	47.0	30.0
1750	48.0	31.0
1000	51.0	34.0
500	64.0	38.0
100	85.0	51.0
50	94.0	60.0
10	128.0	77.0

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BLHA20
BLHTA20

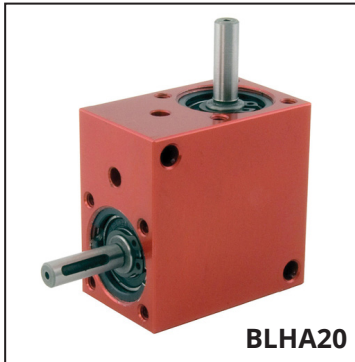
GEARBOXES

BLHA20
BLHTA20

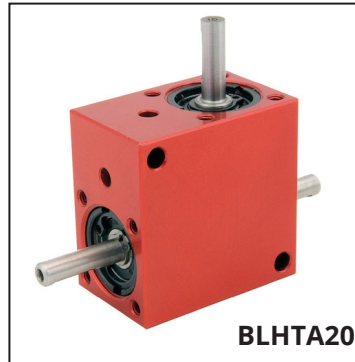
Spiral Bevel & Spiral Bevel Tee Heavy Duty Gearbox

Hardened Spiral Bevels 4.7 – 15.7 lbf.in 1:1 - 2:1

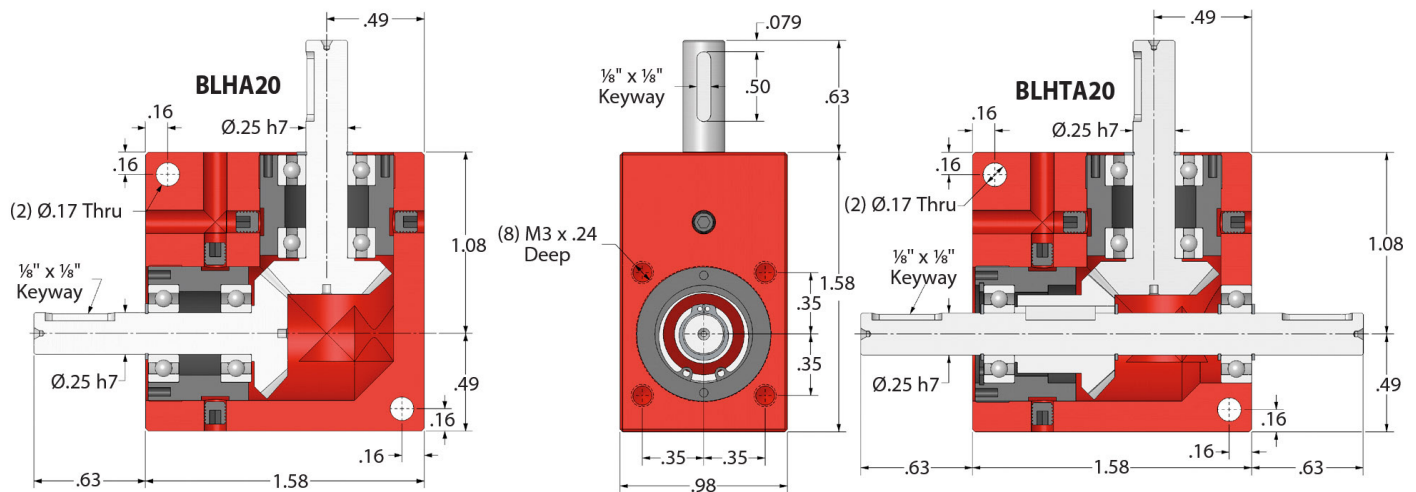
Inch Shaft Diameters



BLHA20



BLHTA20



Part Number	Ratio	Efficiency at 1000 Rpm	Reflected Inertia at Input (lb.in ²)
BLHA20-1 BLHTA20-1	1:1	88%	1.48×10^{-3}
BLHA20-2 BLHTA20-2	2:1	88%	2.87×10^{-4}

Weight: BLHA: 0.24 lb, BLHTA: 0.26 lb.
Output Backlash: $\approx 1^\circ$.
Max. Input Speed: 3,000 Rpm.
Greased for Life: Shell Gadus S2 V220AD 2.

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 in-lb

RPM Input	Reduction Ratio	
	1:1	2:1
3000	5.8	4.7
2000	6.4	5.1
1750	6.7	5.4
1000	7.8	6.2
500	8.9	7.1
100	11.9	9.6
50	13.1	10.4
10	15.7	12.5

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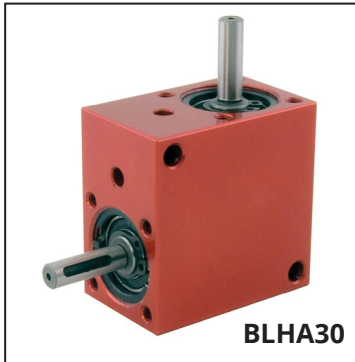
**BLHA30
BLHTA30**

GEARBOXES

**BLHA30
BLHTA30**

Spiral Bevel & Spiral Bevel Tee Heavy Duty Gearbox

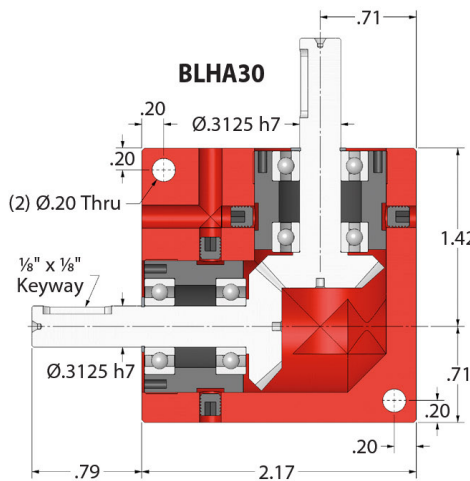
Hardened Spiral Bevels 11.7 – 38.9 lbf.in 1:1 - 2:1
Inch Shaft Diameters



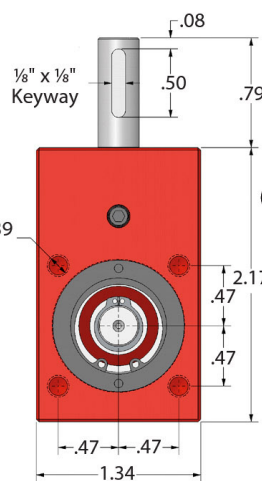
BLHA30



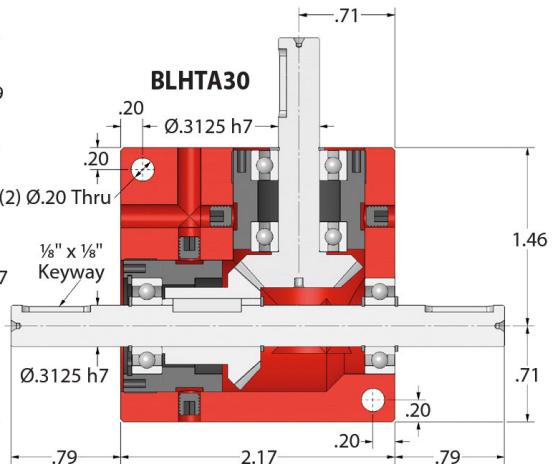
BLHTA30



BLHA30



BLHTA30



Part Number	Ratio	Efficiency at 1000 Rpm	Reflected Inertia at Input (lb.in ²)
BLHA30-1 BLHTA30-1	1:1	88%	7.48×10^{-3}
BLHA30-2 BLHTA30-2	2:1	88%	1.71×10^{-3}

Weight: BLH: 0.62 lb, BLHT: 0.66 lb.
Output Backlash: $\approx 1^\circ$.
Max. Input Speed: 3,000 Rpm.
Greased for Life: Shell Gadus S2 V220AD 2.

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 in-lb

RPM Input	Reduction Ratio	
	1:1	2:1
3000	14.6	11.7
2000	16.0	12.8
1750	16.9	13.5
1000	19.5	15.6
500	22.2	17.7
100	29.9	23.9
50	32.7	26.6
10	38.9	31.3

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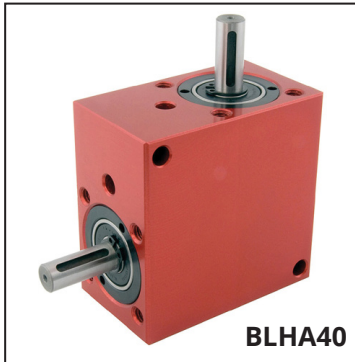
**BLHA40
BLHTA40**

GEARBOXES

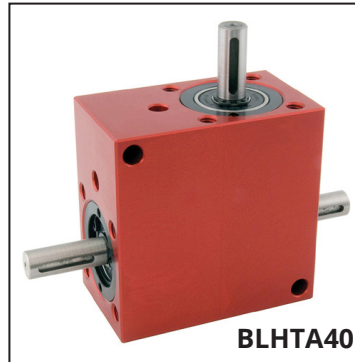
**BLHA40
BLHTA40**

Spiral Bevel & Spiral Bevel Tee Heavy Duty Gearbox

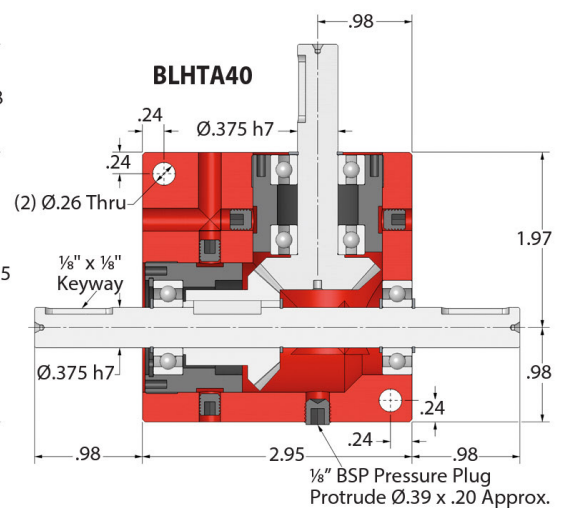
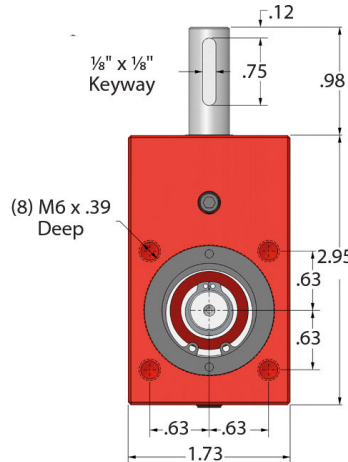
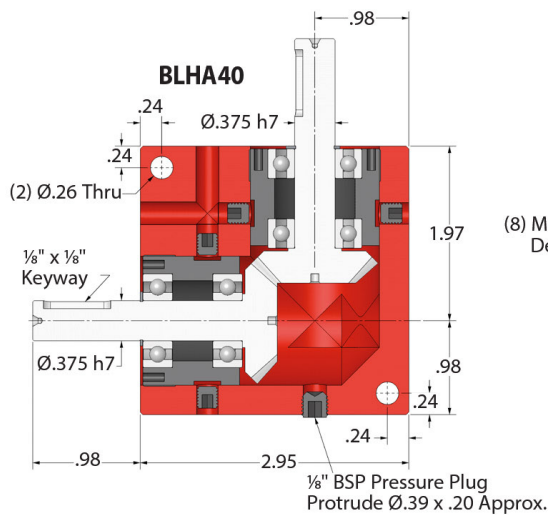
Hardened Spiral Bevels 26.6 – 91.2 lbf.in 1:1 - 2:1
Inch Shaft Diameters



BLHA40



BLHTA40



Part Number	Ratio	Efficiency at 1000 Rpm	
BLHA40-1 BLHTA40-1	1:1	88%	2.19×10^{-2}
BLHA40-2 BLHTA40-2	2:1	88%	4.78×10^{-3}

Weight: BLHA: 1.98 lb, BLHTA: 2.21 lb.
Output Backlash: $\approx 1^\circ$.
Max. Input Speed: 3,000 Rpm.
Greased for Life: Shell Gadus S2 V220AD 2.

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 in-lb

RPM Input	Reduction Ratio	
	1:1	2:1
3000	35.4	26.6
2000	38.9	30.1
1750	40.5	31.4
1000	45.1	35.4
500	51.3	40.7
100	67.3	53.1
50	75.2	55.8
10	91.2	70.8

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