

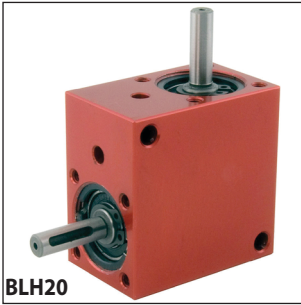
BLH20
BLHT20

e-cad
Drawings
Available

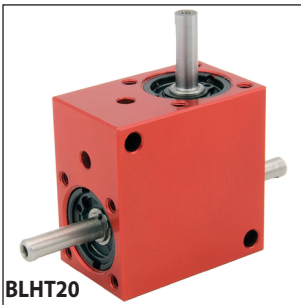
GEARBOXES

Bevel & Bevel Tee Heavy Duty Gearbox

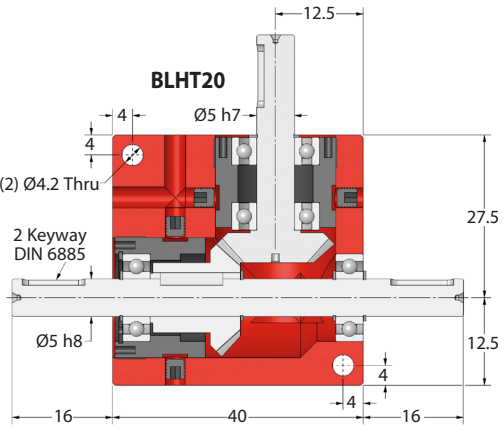
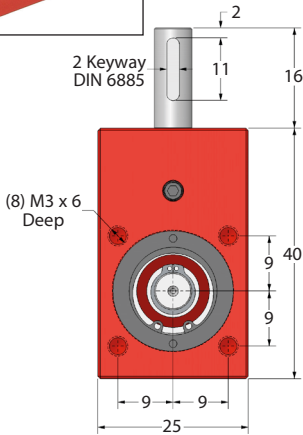
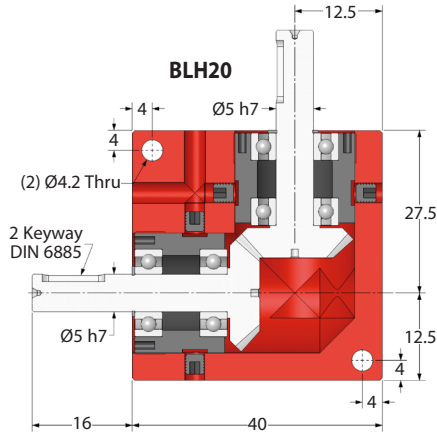
Hardened Bevels 0.53 – 1.77 Nm **1:1 - 2:1**



BLH20



BLHT20



Part Number	Ratio	Efficiency at 1000 Rpm	Reflected Inertia at Input (kg.m ²)
BLH20-1 BLHT20-1	1:1	88%	4.34 x 10 ⁻⁷
BLH20-2 BLHT20-2	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
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

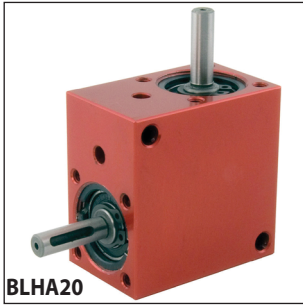
GEARBOXES

Bevel & Bevel Tee Heavy Duty Gearbox

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

e-cad
Drawings
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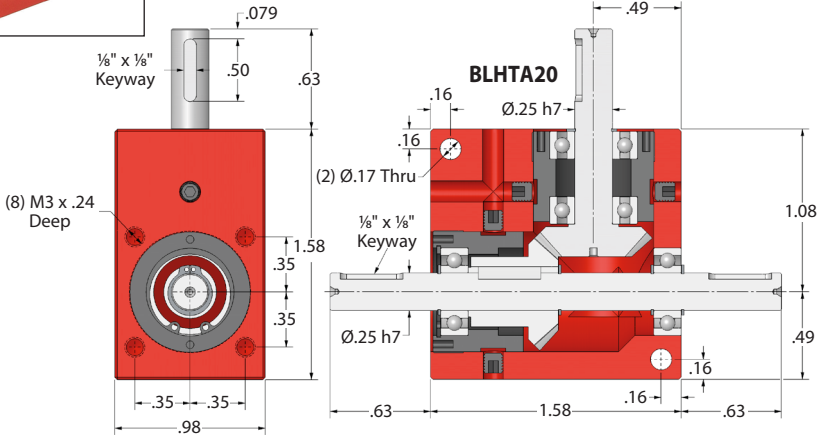
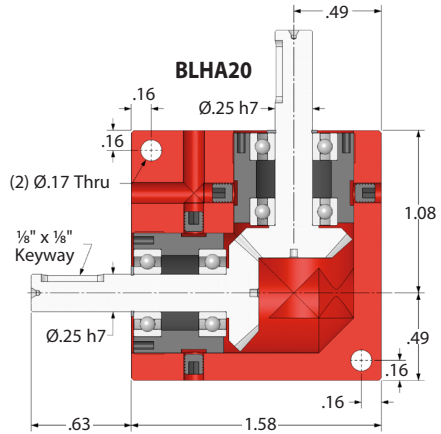
BLHA20
BLHTA20



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 x 10 ⁻³
BLHA20-2 BLHTA20-2	2:1	88%	2.87 x 10 ⁻⁴

Weight: BLHA: 0.24 lb, BLHTA: 0.26 lb.

Output Backlash: ≈1°.

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 lbf.in

Rpm Input	Reduction Ratio	
	1:1	2:1
3000	5.8	4.7
2000	6.4	5.1
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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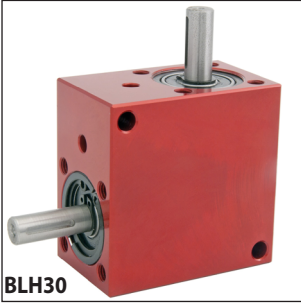
BLH30
BLHT30

e-cad
Drawings
Available

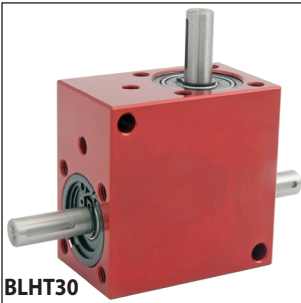
GEARBOXES

Bevel & Bevel Tee Heavy Duty Gearbox

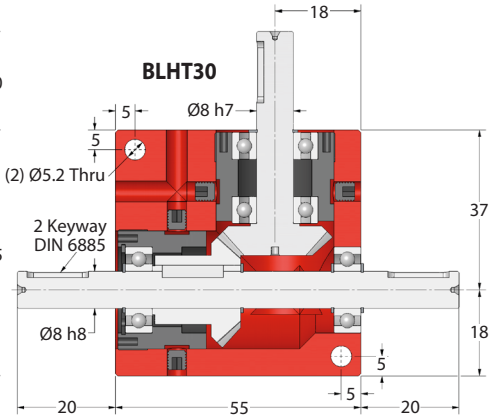
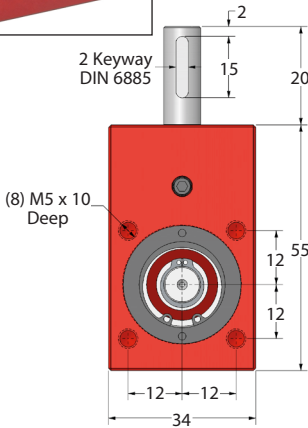
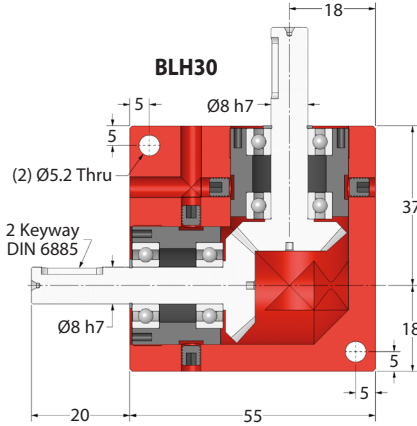
Hardened Bevels 1.32 – 4.4 Nm **1:1 - 2:1**



BLH30



BLHT30



Part Number	Ratio	Efficiency at 1000 Rpm	Reflected Inertia at Input (kg.m ²)
BLH30-1 BLHT30-1	1:1	88%	2.19 x 10 ⁻⁶
BLH30-2 BLHT30-2	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
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

GEARBOXES

Bevel & Bevel Tee Heavy Duty Gearbox

Hardened Bevels 11.7 – 38.9 lbf.in **1:1 - 2:1**

e-cad
Drawings
Available

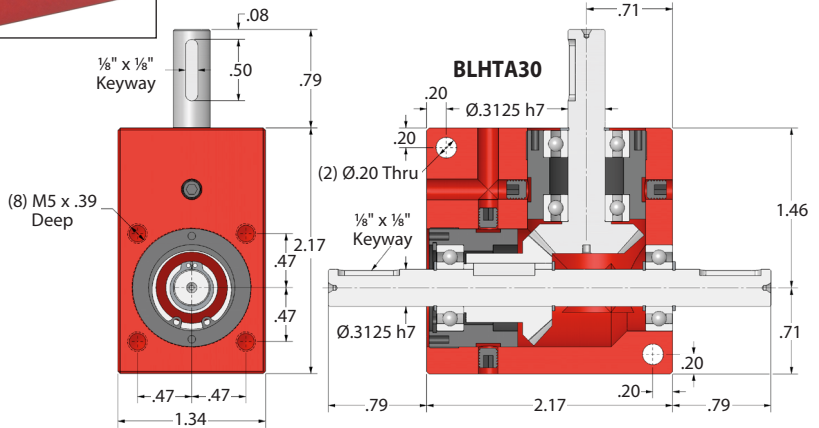
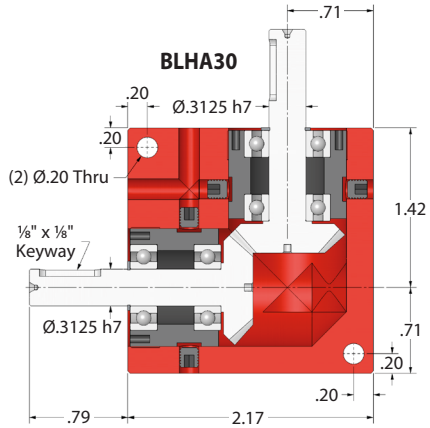
BLHA30
BLHTA30



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 lbf.in

Rpm Input	Reduction Ratio	
	1:1	2:1
3000	14.6	11.7
2000	16.0	12.8
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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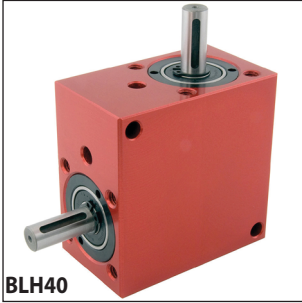
BLH40
BLHT40

e-cad
Drawings
Available

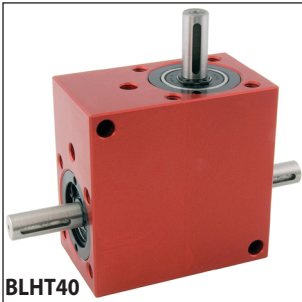
GEARBOXES

Bevel & Bevel Tee Heavy Duty Gearbox

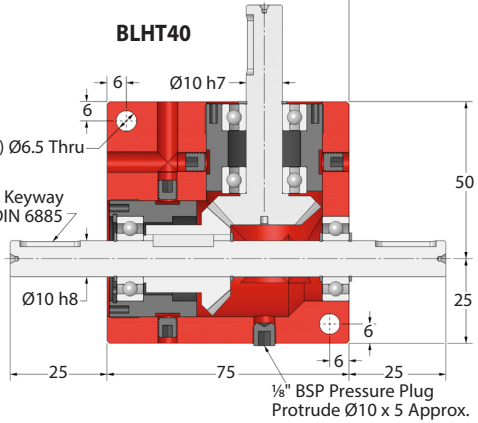
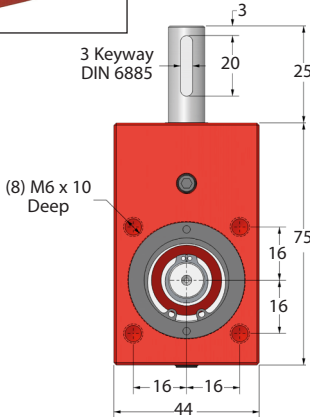
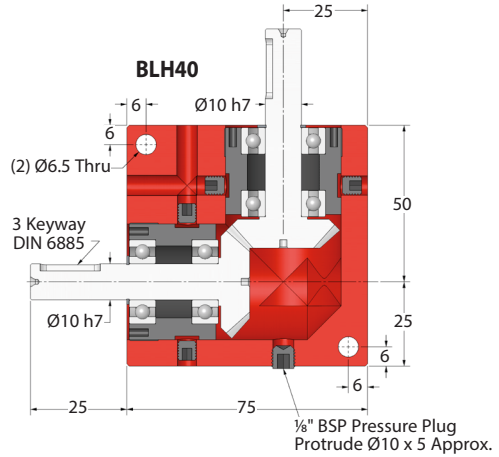
Hardened Bevels 3 – 10.3 Nm **1:1 - 2:1**



BLH40



BLHT40



Part Number	Ratio	Efficiency at 1000 Rpm	Reflected Inertia at Input (kg.m ²)
BLH40-1 BLHT40-1	1:1	88%	6.42 x 10 ⁻⁵
BLH40-2 BLHT40-2	2:1	88%	1.40 x 10 ⁻⁵

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
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

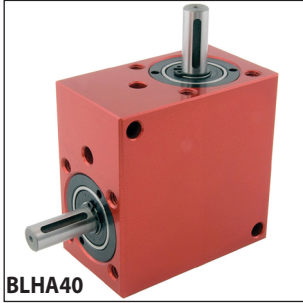
GEARBOXES

Bevel & Bevel Tee Heavy Duty Gearbox

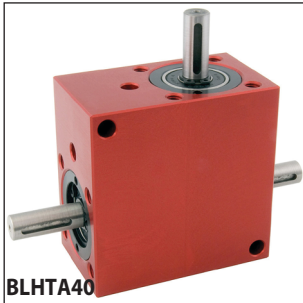
Hardened Bevels 26.6 – 91.2 lbf.in **1:1 - 2:1**

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Drawings
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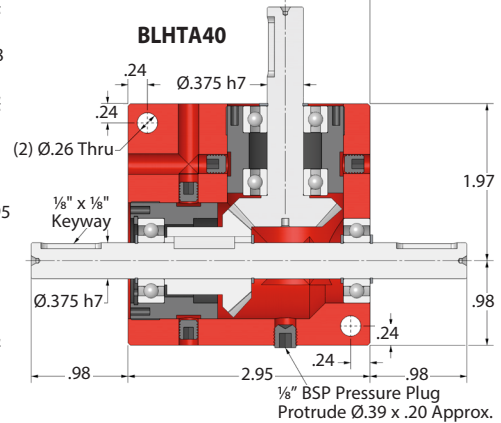
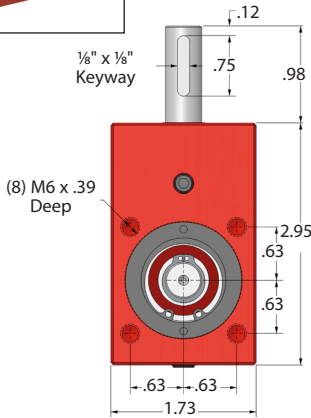
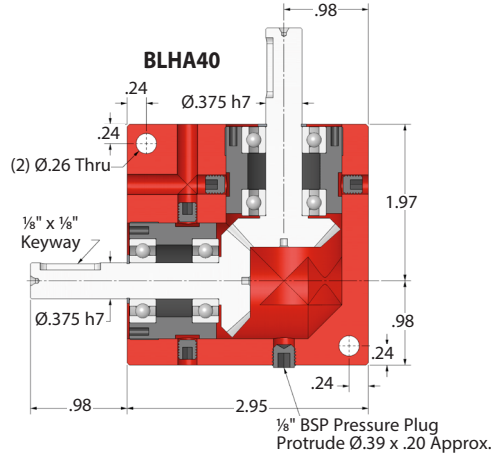
BLHA40
BLHTA40



BLHA40



BLHTA40



Part Number	Ratio	Efficiency at 1000 Rpm	Reflected Inertia at Input (lb.in ²)
BLHA40-1 BLHTA40-1	1:1	88%	2.19 x 10 ⁻²
BLHA40-2 BLHTA40-2	2:1	88%	4.78 x 10 ⁻³

Weight: BLHA: 1.98 lb, BLHTA: 2.21 lb.

Output Backlash: ≈1°.

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 lbf.in

Rpm Input	Reduction Ratio	
	1:1	2:1
3000	35.4	26.6
2000	38.9	30.1
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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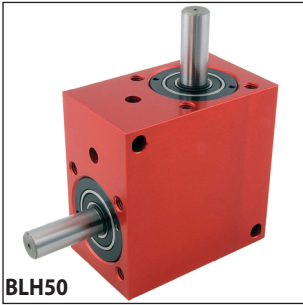
BLH50
BLHT50

e-cad
Drawings
Available

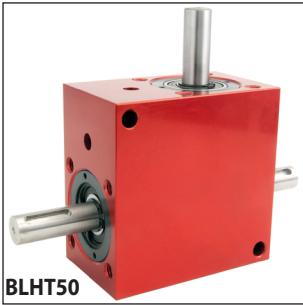
GEARBOXES

Bevel & Bevel Tee Heavy Duty Gearbox

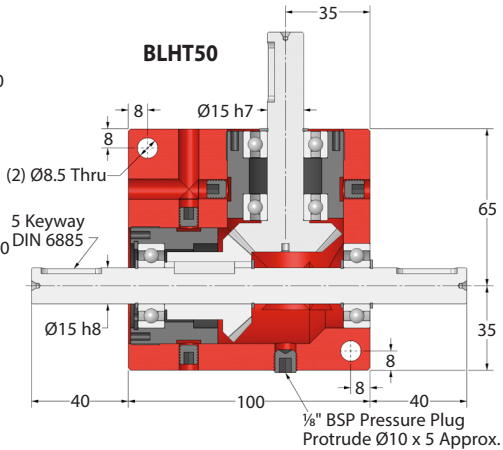
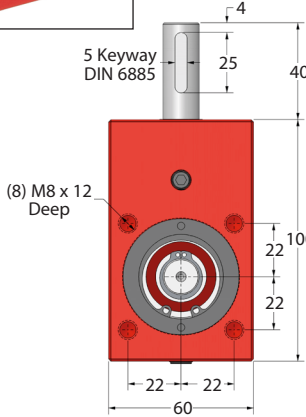
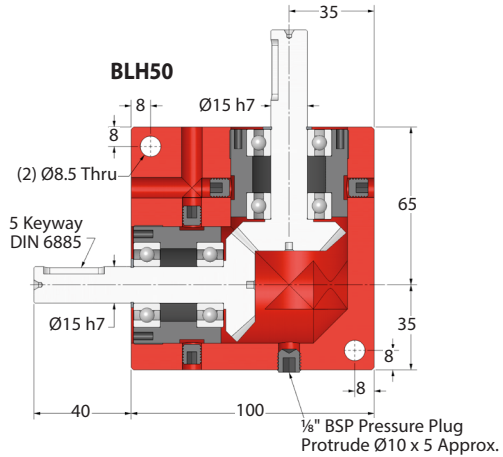
Hardened Bevels 7.7 – 30 Nm **1:1 - 2:1**



BLH50



BLHT50



Part Number	Ratio	Efficiency at 1000 Rpm	Reflected Inertia at Input (kg.m ²)
BLH50-1 BLHT50-1	1:1	88%	4.76 x 10 ⁻⁵
BLH50-2 BLHT50-2	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: KKS-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
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

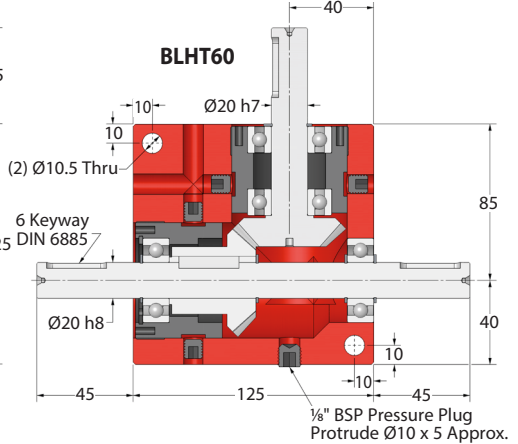
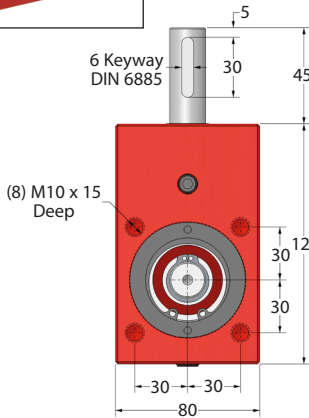
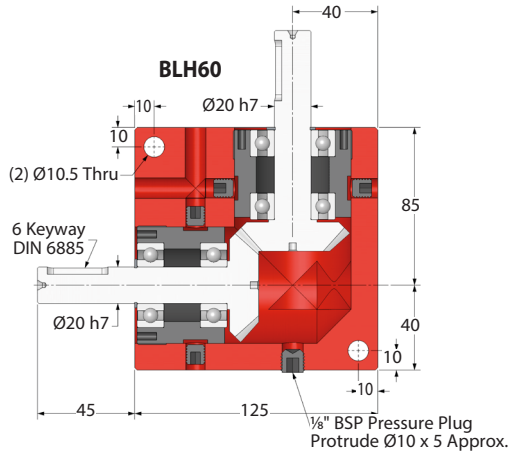
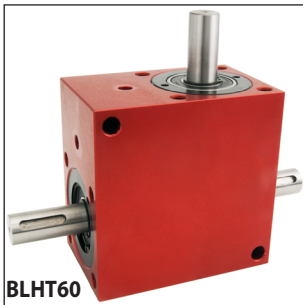
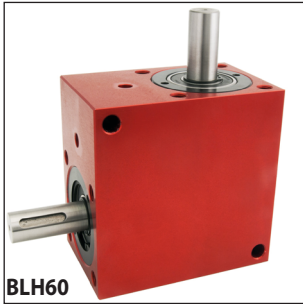
GEARBOXES

Bevel & Bevel Tee Heavy Duty Gearbox

Hardened Bevels 19 – 70 Nm **1:1 - 2:1**

e-cad
Drawings
Available

BLH60
BLHT60



Part Number	Ratio	Efficiency at 1000 Rpm	Reflected Inertia at Input (kg.m ²)
BLH60-1 BLHT60-1	1:1	88%	1.99 x 10 ⁻⁴
BLH60-2 BLHT60-2	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.

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Output Torque Nm

Rpm Input	Reduction Ratio	
	1:1	2:1
3000	26	19
2000	30	22
1000	35	25
500	40	29
100	53	38
50	57	43
10	70	52

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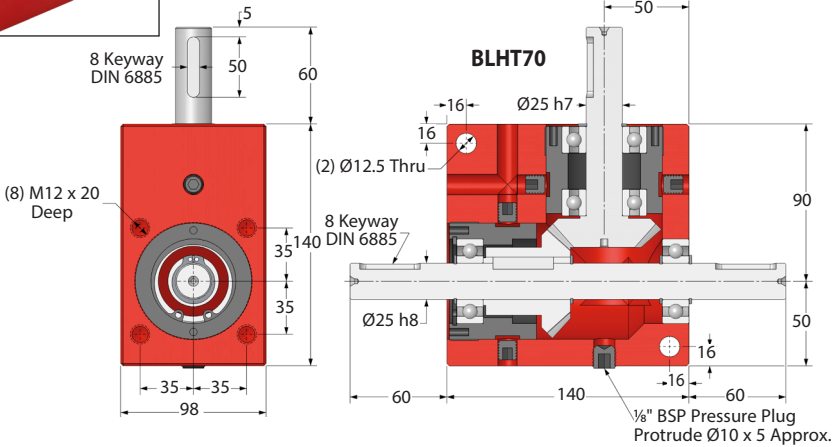
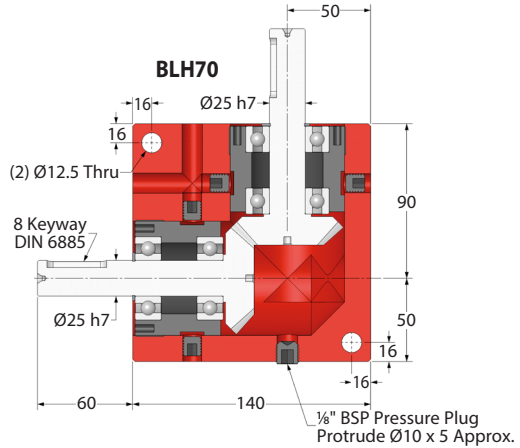
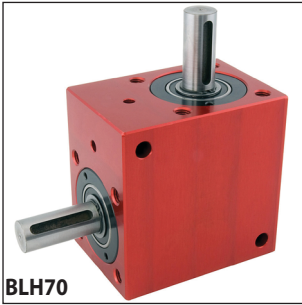
BLH70
BLHT70

e-cad
Drawings
Available

GEARBOXES

Bevel & Bevel Tee Heavy Duty Gearbox

Hardened Bevels 26 – 128 Nm **1:1 - 2:1**



Part Number	Ratio	Efficiency at 1000 Rpm	Reflected Inertia at Input (kg.m ²)
BLH70-1 BLHT70-1	1:1	88%	4.15 x 10 ⁻⁴
BLH70-2 BLHT70-2	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.

Extras

Input/Output Key: KK3-7-50.

Other Info.

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	26
2000	47	30
1000	51	34
500	64	38
100	85	51
50	94	60
10	128	77